

Sampling and Analysis Plan for Mixed Drilling Pits ConocoPhillips San Juan Division

Date July 12, 2007

Start date Please start sampling pits as they appear on the scheduled Pit Closure List starting as soon as possible.

Scope: Sampling of mixed materials of drilling pits.

Timing: The samples should be collected after the water has been removed and the pit materials have been solidified (i.e., mixed with stock pile materials onsite to a desired weight bearing capacity to facilitate reclamation). Samples should be collected prior to application of backfill and top soil.

Sampling Procedure:

1. Collect samples of drilling materials from five separate points in the drilling pit. Each sample point should be located within the approximate four quadrants of the pit and the center of the pit.
2. Samples should be collected of the **mixed material** approximately 6 inches or more below the soil surface.
3. Samples can be collected by using hand tools shovels or a pipe thief.
4. All five samples collected at each pit. will be composited into a one gallon freezer "zip lock" bag filled to the top. An equal amount of sample should be collected at each sample point.

Sample Labeling

The sample collected should contain the following information on the sample bag:

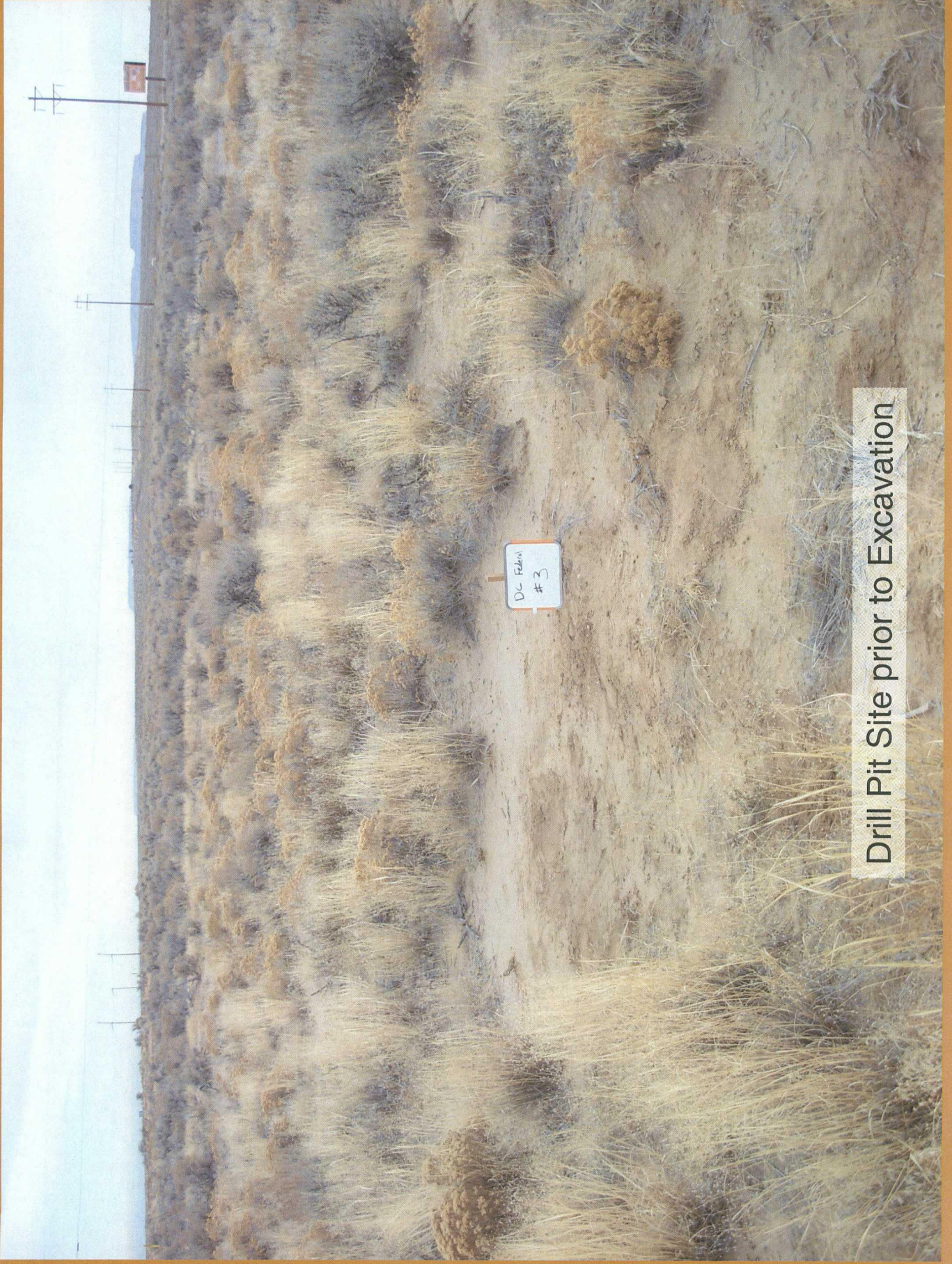
- Location of the drilling pit (Production location and number)
- Foreman area
- Sec Township, Range of location
- Lat and long
- Time collected.

Transport

Once the samples are collected they should be delivered to the HSE Department as soon as possible **but no later than 24 hours.**

Lab Analysis: BTEX, TPH, RCRA Metals, General chemistry

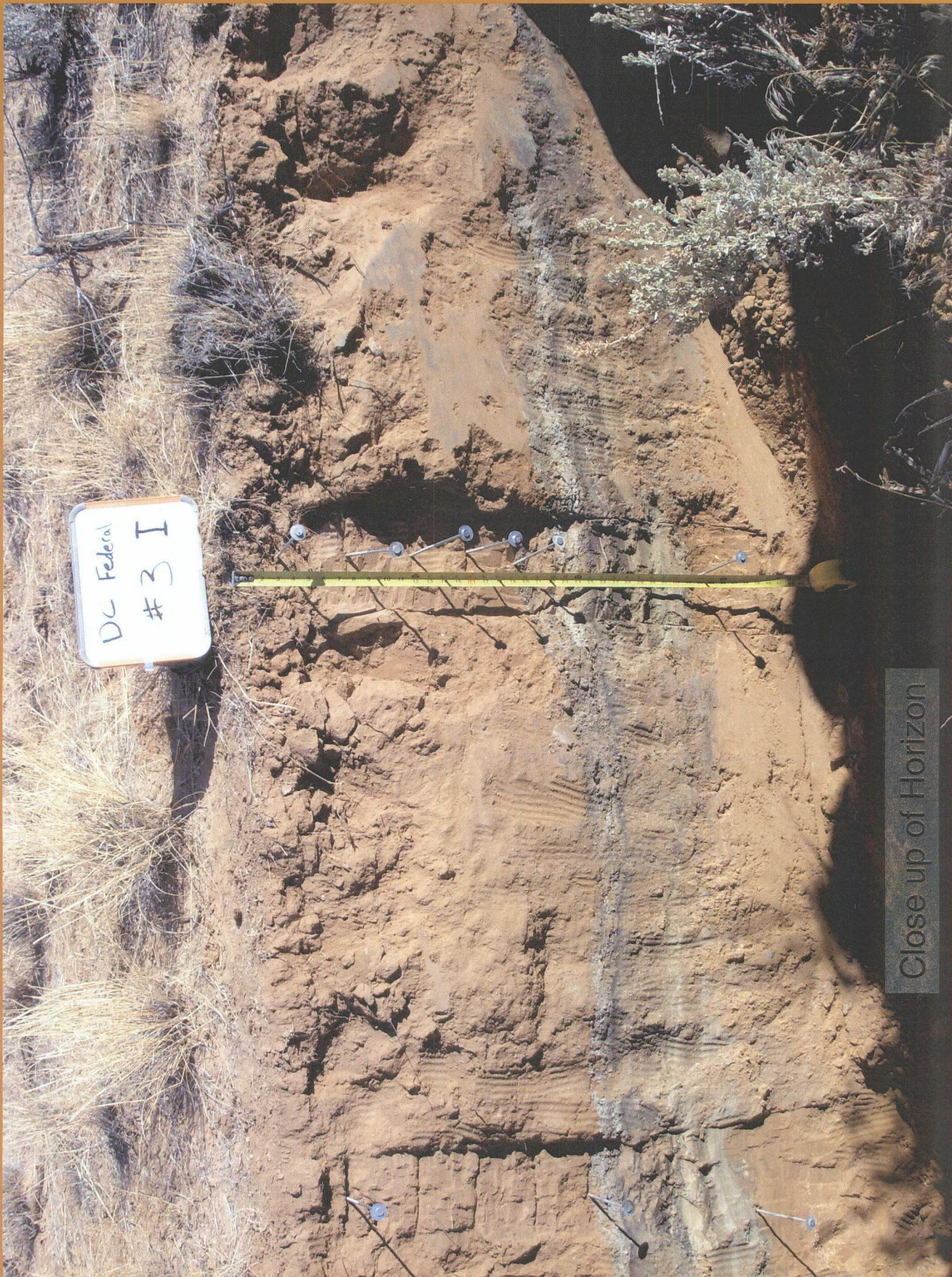
Contact Gregg Wurtz at HSE Department with further questions.



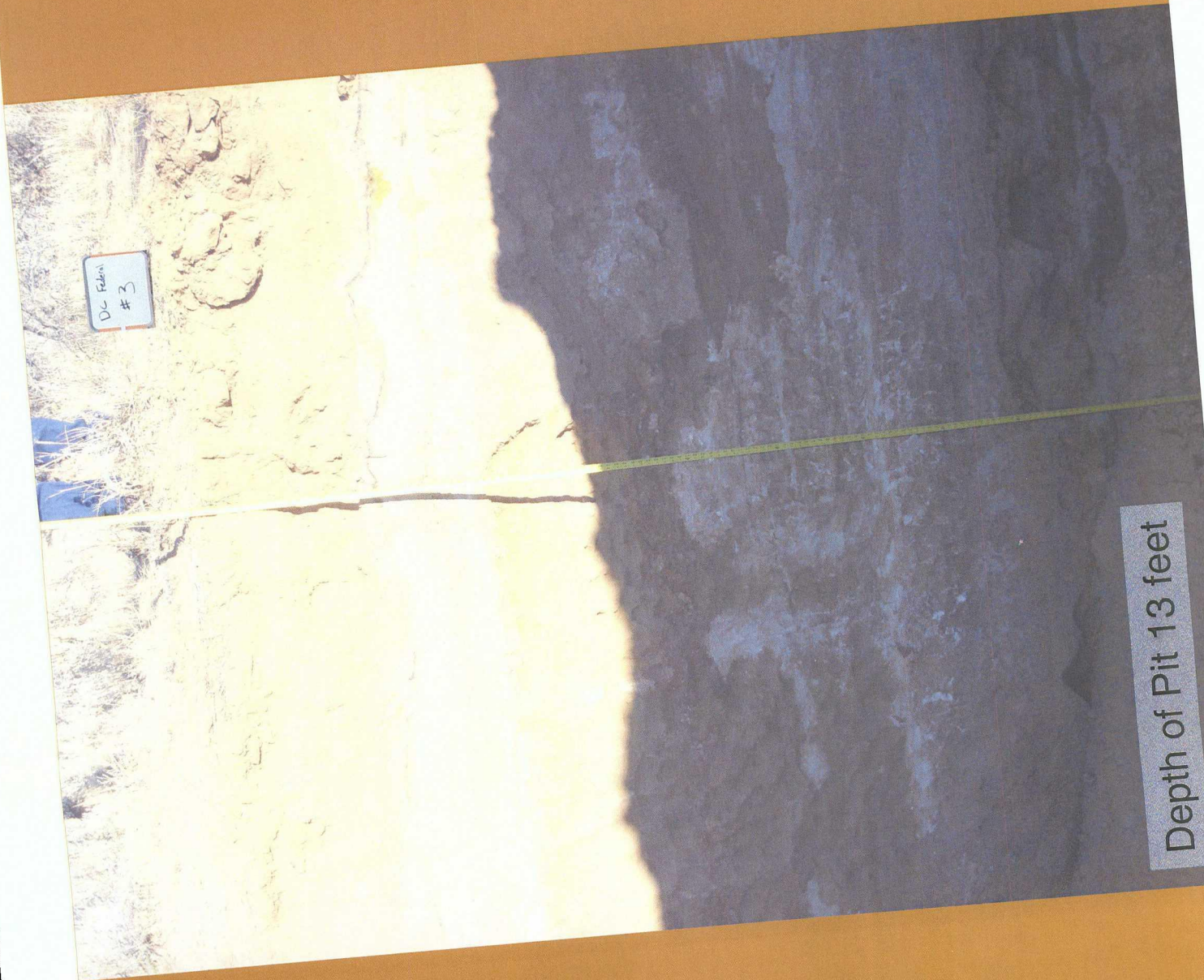
Drill Pit Site prior to Excavation



Length of Pit Exposed

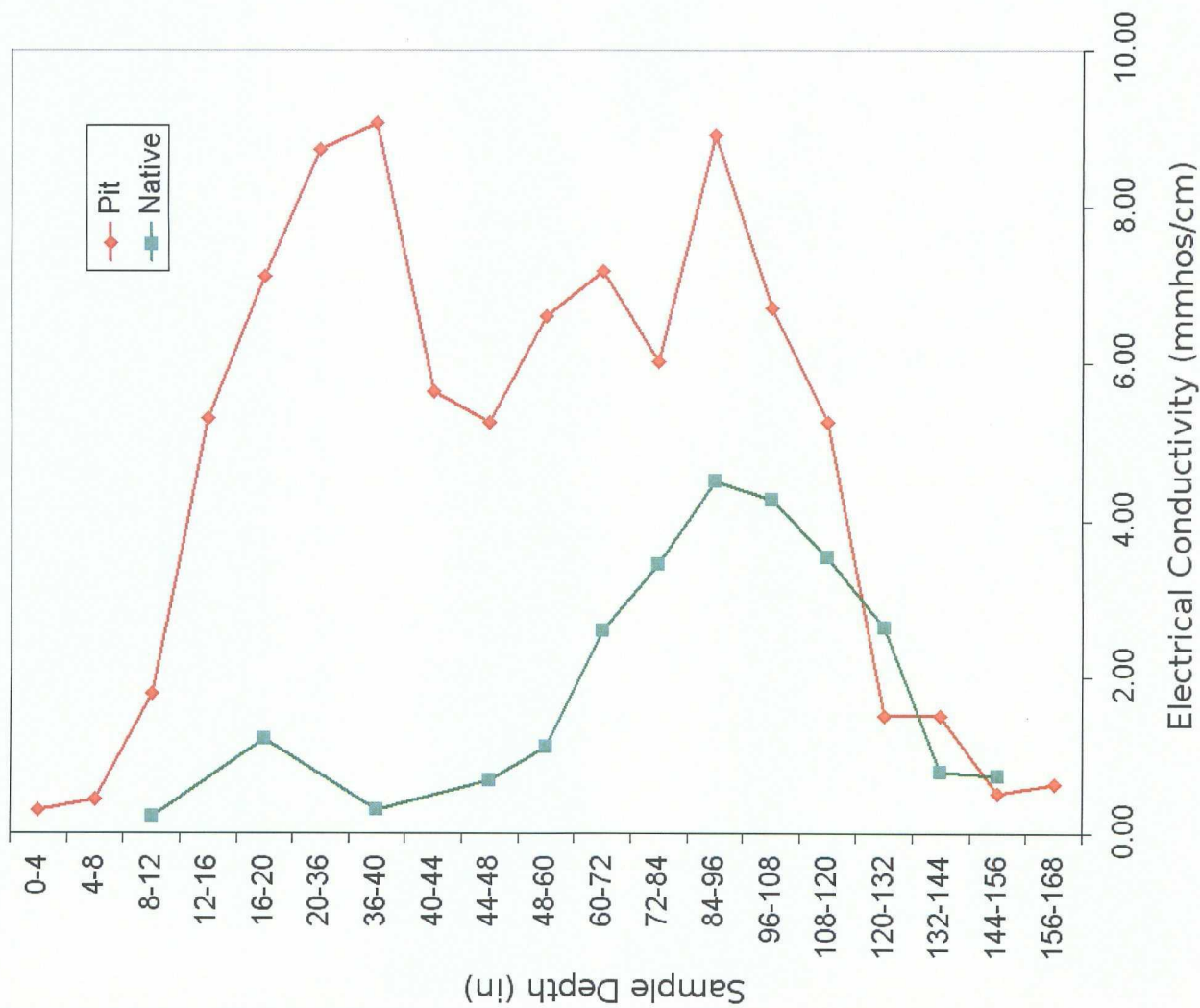


Close up of Horizon



Depth of Pit 13 feet

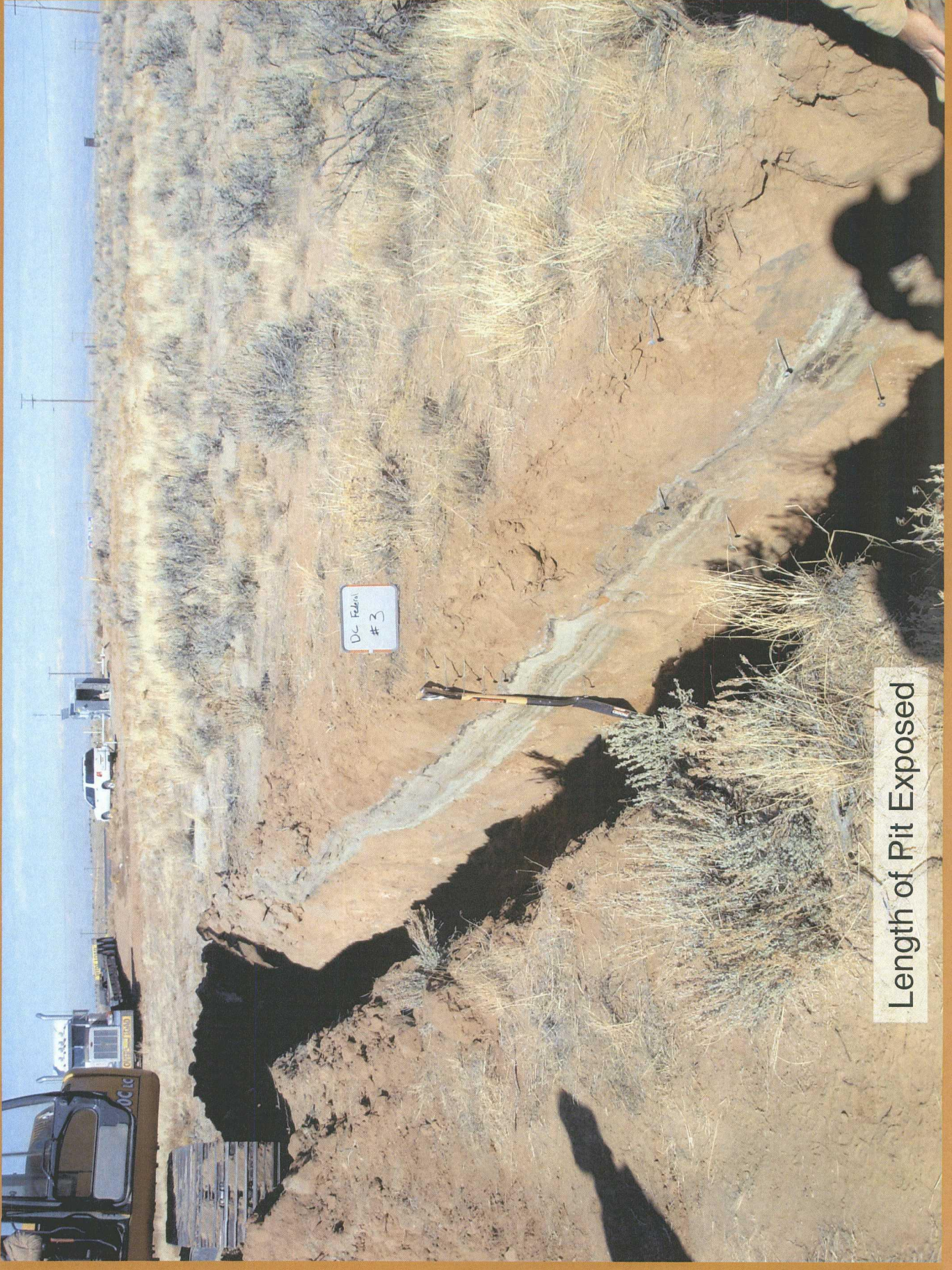
Soil Electrical Conductivity vs. Depth for Two Sites



Dr. Felder
#3

Drill Pit Site prior to Excavation

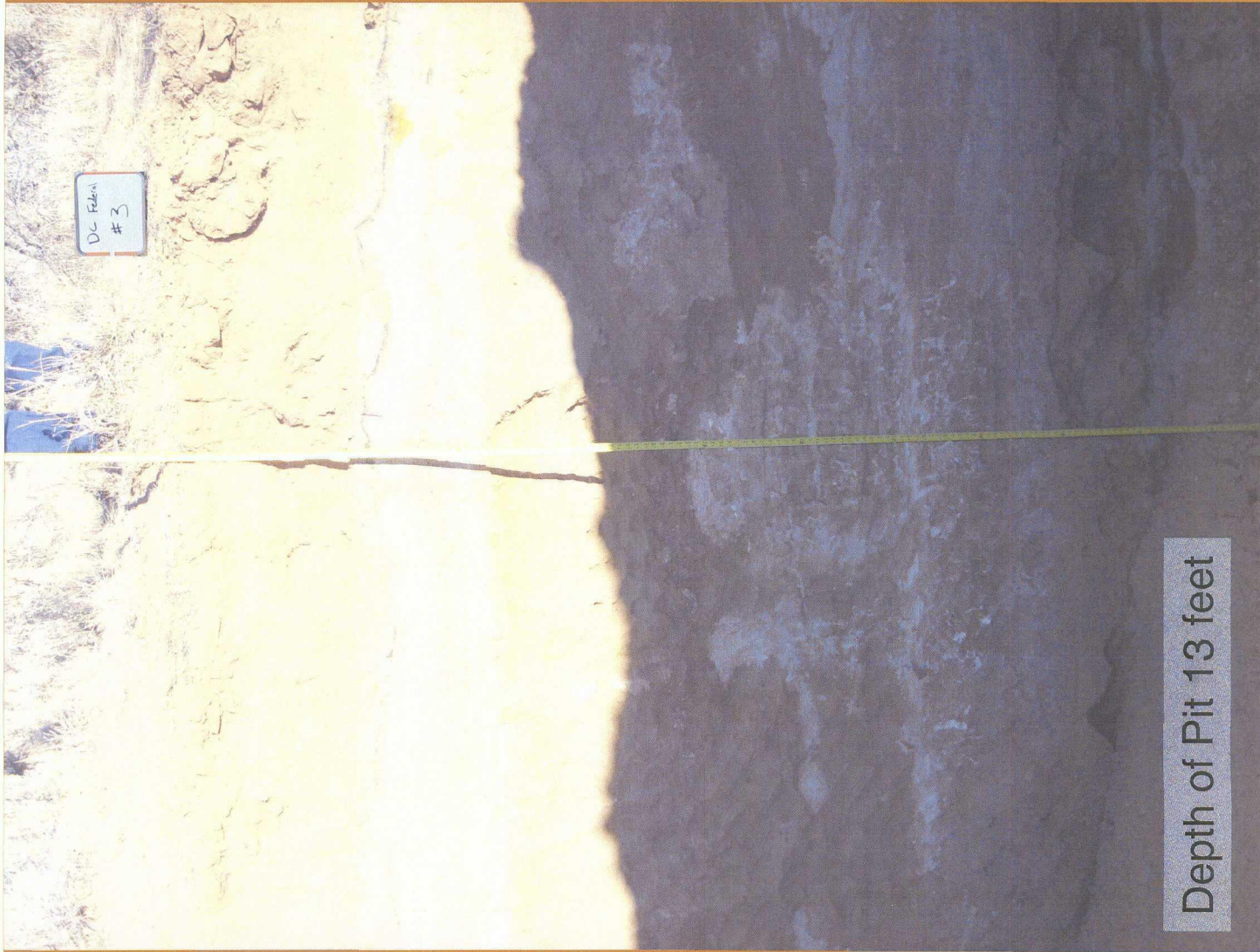




Length of Pit Exposed

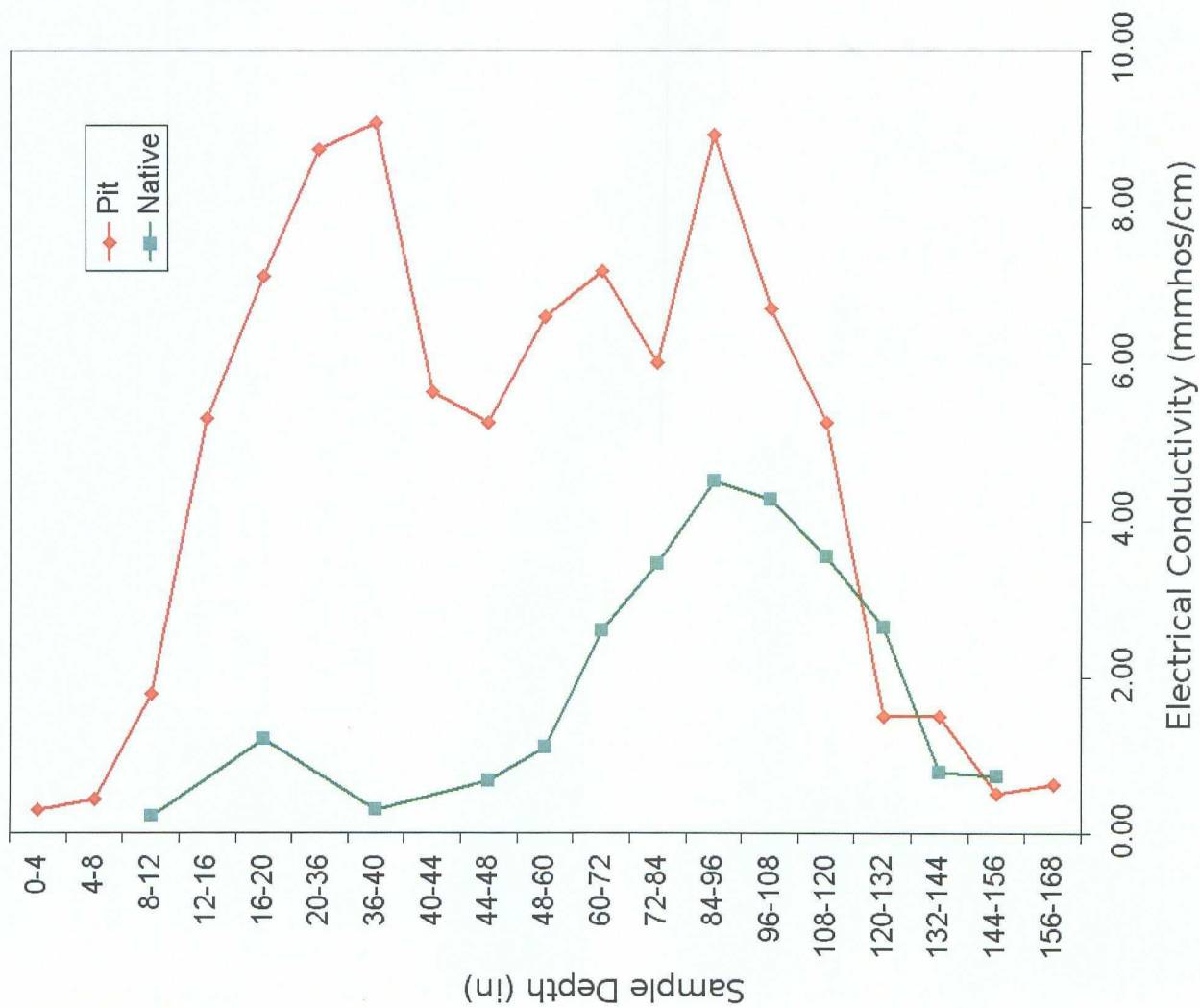


Close up of Horizon



Depth of Pit 13 feet

Soil Electrical Conductivity vs. Depth for Two Sites



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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

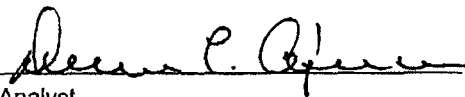
Client:	ConocoPhillips	Project #:	96052-026-401
Sample ID:	Day B 4M	Date Reported:	08-10-07
Laboratory Number:	42688	Date Sampled:	08-06-07
Chain of Custody No:	2934	Date Received:	08-08-07
Sample Matrix:	Soil	Date Extracted:	08-09-07
Preservative:	Cool	Date Analyzed:	08-10-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

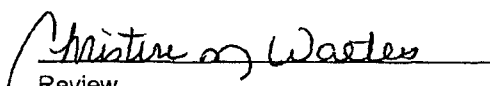
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	2.4	0.1
Total Petroleum Hydrocarbons	2.4	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pit**


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-10-07 QA/QC	Date Reported:	08-10-07
Laboratory Number:	42688	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-10-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RE	C-Cal RE	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.9960E+002	1.0000E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

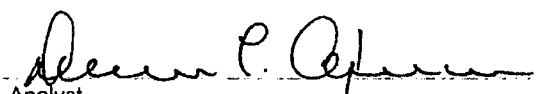
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	2.4	2.4	0.0%	0 - 30%

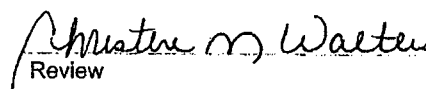
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	2.4	250	252	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42688 - 42693


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-026-401
Sample ID:	Day B 4M	Date Reported:	08-10-07
Laboratory Number:	42688	Date Sampled:	08-06-07
Chain of Custody:	2934	Date Received:	08-08-07
Sample Matrix:	Soil	Date Analyzed:	08-10-07
Preservative:	Cool	Date Extracted:	08-09-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1.6	0.9
Toluene	5.0	1.0
Ethylbenzene	1.5	1.0
p,m-Xylene	5.4	1.2
o-Xylene	1.7	0.9
Total BTEX	15.2	

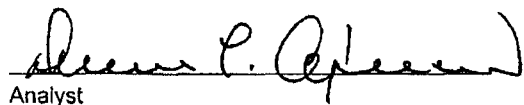
ND - Parameter not detected at the stated detection limit.

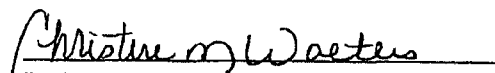
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Drilling Pit


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-10-BTEX QA/QC	Date Reported:	08-10-07
Laboratory Number:	42688	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-10-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range: 0 - 15%			
Benzene	1.1828E+008	1.1851E+008	0.2%	ND	0.1
Toluene	1.0235E+008	1.0255E+008	0.2%	ND	0.1
Ethylbenzene	7.8848E+007	7.9006E+007	0.2%	ND	0.1
p,m-Xylene	1.4912E+008	1.4942E+008	0.2%	ND	0.1
o-Xylene	7.2080E+007	7.2225E+007	0.2%	ND	0.1

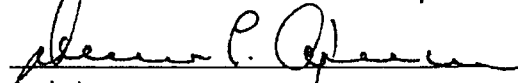
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	1.6	1.6	0.0%	0 - 30%	0.9
Toluene	5.0	4.9	2.0%	0 - 30%	1.0
Ethylbenzene	1.5	1.5	0.0%	0 - 30%	1.0
p,m-Xylene	5.4	5.3	1.9%	0 - 30%	1.2
o-Xylene	1.7	1.7	0.0%	0 - 30%	0.9

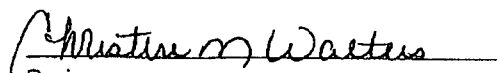
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	1.6	50.0	51.5	99.8%	39 - 150
Toluene	5.0	50.0	54.9	99.8%	46 - 148
Ethylbenzene	1.5	50.0	51.4	99.8%	32 - 160
p,m-Xylene	5.4	100	105	99.8%	46 - 148
o-Xylene	1.7	50.0	51.6	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 42688 - 42693


Analyst


Review

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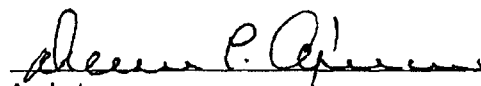
CATION / ANION ANALYSIS

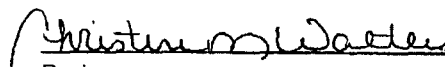
Client:	ConocoPhillips	Project #:	96052-026-401
Sample ID:	Day B 4M	Date Reported:	08-10-07
Laboratory Number:	42688	Date Sampled:	08-06-07
Chain of Custody:	2934	Date Received:	08-08-07
Sample Matrix:	Soil Extract	Date Extracted:	08-09-07
Preservative:	Cool	Date Analyzed:	08-10-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	8.10	s.u.		
Conductivity @ 25° C	651	umhos/cm		
Total Dissolved Solids @ 180C	336	mg/L		
Total Dissolved Solids (Calc)	354	mg/L		
SAR	9.3	ratio		
Total Alkalinity as CaCO3	80.0	mg/L		
Total Hardness as CaCO3	29.6	mg/L		
Bicarbonate as HCO3	80.0	mg/L	1.31	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.45	mg/L	0.01	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	89.4	mg/L	2.52	meq/L
Fluoride	1.50	mg/L	0.08	meq/L
Phosphate	0.06	mg/L	0.00	meq/L
Sulfate	85.9	mg/L	1.79	meq/L
Iron	<0.001	mg/L	0.00	meq/L
Calcium	6.84	mg/L	0.34	meq/L
Magnesium	3.05	mg/L	0.25	meq/L
Potassium	2.52	mg/L	0.06	meq/L
Sodium	116	mg/L	5.05	meq/L
Cations			5.71	meq/L
Anions			5.71	meq/L
Cation/Anion Difference			0.05%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Drilling Pit


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-026-401
Sample ID:	Day B 4M	Date Reported:	08-10-07
Laboratory Number:	42688	Date Sampled:	08-06-07
Chain of Custody:	2934	Date Received:	08-08-07
Sample Matrix:	Soil	Date Analyzed:	08-10-07
Preservative:	Cool	Date Digested:	08-09-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.101	0.001	5.0
Barium	7.88	0.001	100
Cadmium	0.002	0.001	1.0
Chromium	0.569	0.001	5.0
Lead	0.363	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

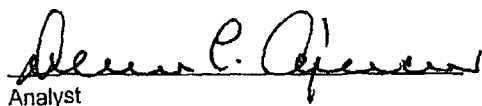
ND - Parameter not detected at the stated detection limit.

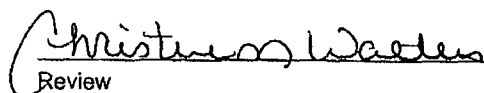
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: Drilling Pit


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	08-10 TM QA/AC	Date Reported:	08-10-07
Laboratory Number:	42684	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	08-10-07
Condition:	N/A	Date Digested:	08-09-07

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.071	0.069	2.8%	0% - 30%
Barium	ND	ND	0.001	4.83	4.86	0.6%	0% - 30%
Cadmium	ND	ND	0.001	0.020	0.020	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.334	0.337	0.9%	0% - 30%
Lead	ND	ND	0.001	0.564	0.566	0.4%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.071	0.570	99.8%	80% - 120%
Barium	0.500	4.83	5.31	99.6%	80% - 120%
Cadmium	0.500	0.020	0.519	99.8%	80% - 120%
Chromium	0.500	0.334	0.834	100.0%	80% - 120%
Lead	0.500	0.564	1.06	99.6%	80% - 120%
Mercury	0.500	ND	0.498	99.6%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	ND	0.498	99.6%	80% - 120%

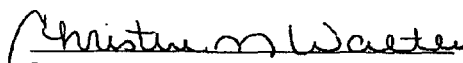
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42684 - 42690


Analyst


Review

CHAIN OF CUSTODY RECORD

2934

Client / Project Name			Project Location		ANALYSIS / PARAMETERS						Remarks									
Cenaco Phillip			Drilling Pit																	
Sampler:			Client No. 96052-026-401																	
			STRESS SURVEILLANCE																	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH	BTEX	CATION	ANIONS	PCRA	METHALS									
Day 84M	8/6/87		42688	Soil	1	✓	✓	✓	✓	✓	✓									
Relinquished by: (Signature)			Date	Time	Received by: (Signature)		Date		Time											
Reynold Guant			8/8/87	3:45	M. J. P.		8/8/87		3:45											
Relinquished by: (Signature)					Received by: (Signature)															
Relinquished by: (Signature)					Received by: (Signature)															
Terry Nelson AREA #24 4-234411 ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615 Sample Receipt <table border="1"> <tr> <td>Y</td> <td>N</td> <td>N/A</td> </tr> <tr> <td>Received intact</td> <td></td> <td></td> </tr> <tr> <td>Cool - Ice/Blue Ice</td> <td></td> <td></td> </tr> </table>												Y	N	N/A	Received intact			Cool - Ice/Blue Ice		
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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

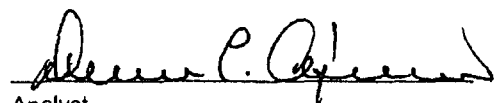
Client:	ConocoPhillips	Project #:	96052-026-399
Sample ID:	San Juan 29-7 #585 S	Date Reported:	08-10-07
Laboratory Number:	42689	Date Sampled:	08-06-07
Chain of Custody No:	2933	Date Received:	08-08-07
Sample Matrix:	Soil	Date Extracted:	08-09-07
Preservative:	Cool	Date Analyzed:	08-10-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

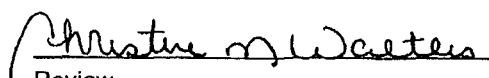
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pits**


Analyst


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PRactical SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

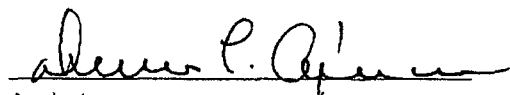
Client:	ConocoPhillips	Project #:	96052-026-400
Sample ID:	San Juan 29-7 - 585	Date Reported:	08-10-07
Laboratory Number:	42690	Date Sampled:	08-01-07
Chain of Custody No:	2933	Date Received:	08-08-07
Sample Matrix:	Soil	Date Extracted:	08-09-07
Preservative:	Cool	Date Analyzed:	08-10-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

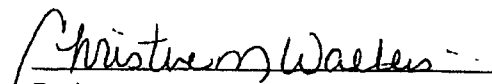
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pits**


Analyst


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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-10-07 QA/QC	Date Reported:	08-10-07
Laboratory Number:	42688	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-10-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.9960E+002	1.0000E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

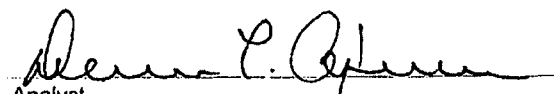
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	2.4	2.4	0.0%	0 - 30%

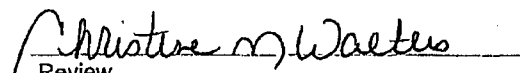
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	2.4	250	252	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42688 - 42693


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-026-399
Sample ID:	San Juan 29-7 #585 S	Date Reported:	08-10-07
Laboratory Number:	42689	Date Sampled:	08-06-07
Chain of Custody:	2933	Date Received:	08-08-07
Sample Matrix:	Soil	Date Analyzed:	08-10-07
Preservative:	Cool	Date Extracted:	08-09-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	38.7	0.9
Toluene	16.6	1.0
Ethylbenzene	3.8	1.0
p,m-Xylene	23.3	1.2
o-Xylene	6.2	0.9
Total BTEX	88.6	

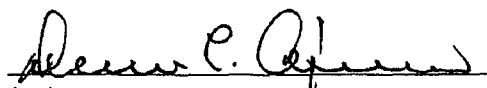
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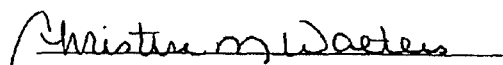
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Drilling Pits


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-026-400
Sample ID:	San Juan 29-7 - 585	Date Reported:	08-10-07
Laboratory Number:	42690	Date Sampled:	08-01-07
Chain of Custody:	2933	Date Received:	08-08-07
Sample Matrix:	Soil	Date Analyzed:	08-10-07
Preservative:	Cool	Date Extracted:	08-09-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.5	0.9
Toluene	8.9	1.0
Ethylbenzene	9.3	1.0
p,m-Xylene	9.2	1.2
o-Xylene	2.9	0.9
Total BTEX	32.8	

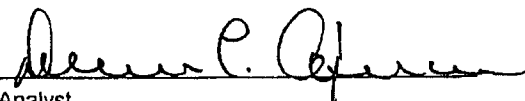
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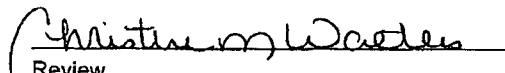
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Drilling Pits


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-10-BTEX QA/QC	Date Reported:	08-10-07
Laboratory Number:	42688	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-10-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range	0 - 15%		
Benzene	1.1828E+008	1.1851E+008	0.2%	ND	0.1
Toluene	1.0235E+008	1.0255E+008	0.2%	ND	0.1
Ethylbenzene	7.8848E+007	7.9006E+007	0.2%	ND	0.1
p,m-Xylene	1.4912E+008	1.4942E+008	0.2%	ND	0.1
o-Xylene	7.2080E+007	7.2225E+007	0.2%	ND	0.1

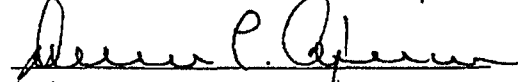
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	1.6	1.6	0.0%	0 - 30%	0.9
Toluene	5.0	4.9	2.0%	0 - 30%	1.0
Ethylbenzene	1.5	1.5	0.0%	0 - 30%	1.0
p,m-Xylene	5.4	5.3	1.9%	0 - 30%	1.2
o-Xylene	1.7	1.7	0.0%	0 - 30%	0.9

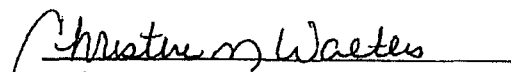
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	1.6	50.0	51.5	99.8%	39 - 150
Toluene	5.0	50.0	54.9	99.8%	46 - 148
Ethylbenzene	1.5	50.0	51.4	99.8%	32 - 160
p,m-Xylene	5.4	100	105	99.8%	46 - 148
o-Xylene	1.7	50.0	51.6	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 42688 - 42693


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

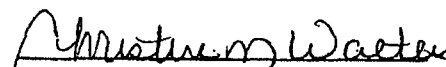
Client:	ConocoPhillips	Project #:	96052-026-399
Sample ID:	San Juan 29-7 #585 S	Date Reported:	08-10-07
Laboratory Number:	42689	Date Sampled:	08-06-07
Chain of Custody:	2933	Date Received:	08-08-07
Sample Matrix:	Soil Extract	Date Extracted:	08-09-07
Preservative:	Cool	Date Analyzed:	08-10-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	8.14	s.u.		
Conductivity @ 25° C	353	umhos/cm		
Total Dissolved Solids @ 180C	206	mg/L		
Total Dissolved Solids (Calc)	193	mg/L		
SAR	3.9	ratio		
Total Alkalinity as CaCO3	90.0	mg/L		
Total Hardness as CaCO3	38.3	mg/L		
Bicarbonate as HCO3	90.0	mg/L	1.48	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.21	mg/L	0.00	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	37.7	mg/L	1.06	meq/L
Fluoride	0.50	mg/L	0.03	meq/L
Phosphate	<0.01	mg/L	0.00	meq/L
Sulfate	31.0	mg/L	0.65	meq/L
Iron	0.140	mg/L	0.01	meq/L
Calcium	7.21	mg/L	0.36	meq/L
Magnesium	4.94	mg/L	0.41	meq/L
Potassium	0.70	mg/L	0.02	meq/L
Sodium	55.7	mg/L	2.42	meq/L
Cations			3.21	meq/L
Anions			3.21	meq/L
Cation/Anion Difference			0.05%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Drilling Pits


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

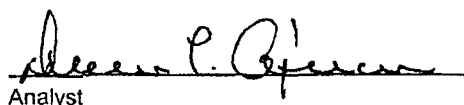
Client: ConocoPhillips
Sample ID: San Juan 29-7 - 585
Laboratory Number: 42690
Chain of Custody: 2933
Sample Matrix: Soil Extract
Preservative: Cool
Condition: Cool & Intact

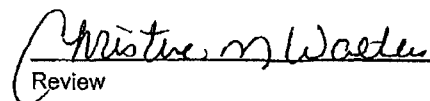
Project #: 96052-026-400
Date Reported: 08-10-07
Date Sampled: 08-01-07
Date Received: 08-08-07
Date Extracted: 08-09-07
Date Analyzed: 08-10-07

Parameter	Analytical Result	Units		
pH	8.12	s.u.		
Conductivity @ 25° C	244	umhos/cm		
Total Dissolved Solids @ 180C	162	mg/L		
Total Dissolved Solids (Calc)	160	mg/L		
SAR	8.8	ratio		
Total Alkalinity as CaCO3	110	mg/L		
Total Hardness as CaCO3	7.8	mg/L		
Bicarbonate as HCO3	110	mg/L	1.80	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.31	mg/L	0.01	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	18.4	mg/L	0.52	meq/L
Fluoride	0.39	mg/L	0.02	meq/L
Phosphate	<0.01	mg/L	0.00	meq/L
Sulfate	14.2	mg/L	0.30	meq/L
Iron	0.053	mg/L	0.00	meq/L
Calcium	1.76	mg/L	0.09	meq/L
Magnesium	0.84	mg/L	0.07	meq/L
Potassium	0.37	mg/L	0.01	meq/L
Sodium	56.9	mg/L	2.48	meq/L
Cations			2.64	meq/L
Anions			2.64	meq/L
Cation/Anion Difference			0.01%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Drilling Pits


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-026-399
Sample ID:	San Juan 29-7 #585 S	Date Reported:	08-10-07
Laboratory Number:	42689	Date Sampled:	08-06-07
Chain of Custody:	2933	Date Received:	08-08-07
Sample Matrix:	Soil	Date Analyzed:	08-10-07
Preservative:	Cool	Date Digested:	08-09-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.074	0.001	5.0
Barium	15.4	0.001	100
Cadmium	0.002	0.001	1.0
Chromium	0.553	0.001	5.0
Lead	0.764	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

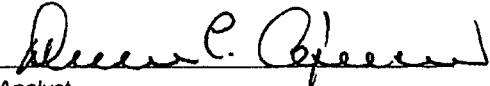
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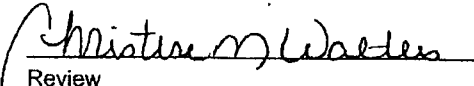
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Drilling Pit**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-026-400
Sample ID:	San Juan 29-7 - 585	Date Reported:	08-10-07
Laboratory Number:	42690	Date Sampled:	08-01-07
Chain of Custody:	2933	Date Received:	08-08-07
Sample Matrix:	Soil	Date Analyzed:	08-10-07
Preservative:	Cool	Date Digested:	08-09-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.065	0.001	5.0
Barium	12.9	0.001	100
Cadmium	0.003	0.001	1.0
Chromium	0.603	0.001	5.0
Lead	0.461	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

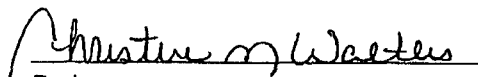
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: Drilling Pit


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	08-10 TM QA/QC	Date Reported:	08-10-07
Laboratory Number:	42684	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	08-10-07
Condition:	N/A	Date Digested:	08-09-07

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.071	0.069	2.8%	0% - 30%
Barium	ND	ND	0.001	4.83	4.86	0.6%	0% - 30%
Cadmium	ND	ND	0.001	0.020	0.020	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.334	0.337	0.9%	0% - 30%
Lead	ND	ND	0.001	0.564	0.566	0.4%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

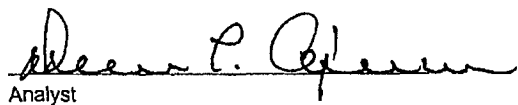
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.071	0.570	99.8%	80% - 120%
Barium	0.500	4.83	5.31	99.6%	80% - 120%
Cadmium	0.500	0.020	0.519	99.8%	80% - 120%
Chromium	0.500	0.334	0.834	100.0%	80% - 120%
Lead	0.500	0.564	1.06	99.6%	80% - 120%
Mercury	0.500	ND	0.498	99.6%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	ND	0.498	99.6%	80% - 120%

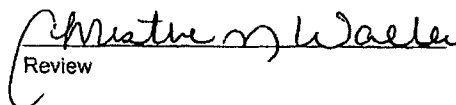
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission
Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42684 - 42690


Analyst


Review

CHAIN OF CUSTODY RECORD

2933

Client / Project Name			Project Location		ANALYSIS / PARAMETERS						
Conoco Phillips			Drilline Pits								
Sampler:			Client No. 96052-026-399		Remarks						
			GREGG KURTZ 400								
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH	BTEX	CATION	ANION	PCRA	Metals
San Juan 24-7 #5855	8/6/67		42689	Soil	1	✓	✓	✓	✓	✓	✓
San Juan 24-7 #5855	8/6/67		42690	Soil	1	✓	✓	✓	✓	✓	✓
Relinquished by: (Signature)			Date	Time	Received by: (Signature)						
Reed Quast			8/6/67	3:45	M. B.						
Relinquished by: (Signature)					Received by: (Signature)						
Relinquished by: (Signature)					Received by: (Signature)						
JOEL LEE AREA #6 55-24-7-585-A73273C 55-24-7-585S-A725843- ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615											
Sample Receipt Y N N/A Received Intact Cool - Ice/Blue Ice											
			Date	Time							
			8/6/67	3:45							

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

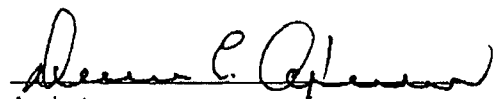
Client:	ConocoPhillips	Project #:	96052-026-397
Sample ID:	San Juan 28-6 #148N	Date Reported:	08-02-07
Laboratory Number:	42619	Date Sampled:	07-25-07
Chain of Custody No:	2929	Date Received:	07-31-07
Sample Matrix:	Soil	Date Extracted:	08-01-07
Preservative:	Cool	Date Analyzed:	08-02-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

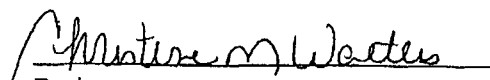
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pit Characterization**


Analyst


Review

ENVIROTECH LABS

Practical Solutions for a Better Tomorrow

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-02-07 QA/QC	Date Reported:	08-02-07
Laboratory Number:	42592	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-02-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.9022E+002	9.9061E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0042E+003	1.0046E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

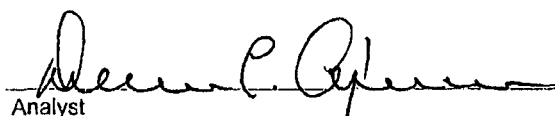
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

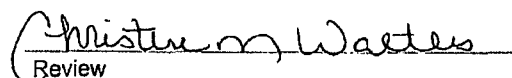
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42592 -42595, 42619 - 42623


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-026-397
Sample ID:	San Juan 28-6 #148N	Date Reported:	08-02-07
Laboratory Number:	42619	Date Sampled:	07-25-07
Chain of Custody:	2929	Date Received:	07-31-07
Sample Matrix:	Soil	Date Analyzed:	08-02-07
Preservative:	Cool	Date Extracted:	08-01-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.2	1.8
Toluene	9.2	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	3.0	2.2
o-Xylene	1.1	1.0
Total BTEX	15.5	

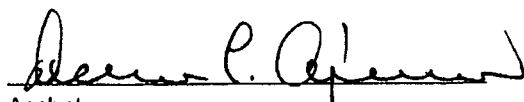
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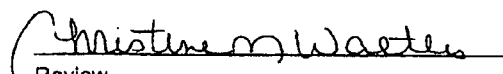
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Drilling Pit Characterization


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-02-BTEX QA/QC	Date Reported:	08-02-07
Laboratory Number:	42592	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-02-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	1.2452E+008	1.2477E+008	0.2%	ND	0.2
Toluene	1.0629E+008	1.0650E+008	0.2%	ND	0.2
Ethylbenzene	7.9167E+007	7.9326E+007	0.2%	ND	0.2
p,m-Xylene	1.5259E+008	1.5289E+008	0.2%	ND	0.2
o-Xylene	7.4499E+007	7.4648E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	4.6	4.5	2.2%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	4.0	3.9	2.5%	0 - 30%	2.2
o-Xylene	1.5	1.5	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	4.6	50.0	54.5	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	4.0	100	104	100.0%	46 - 148
o-Xylene	1.5	50.0	51.5	100.0%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 42592 - 42595, 42619 - 42623

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

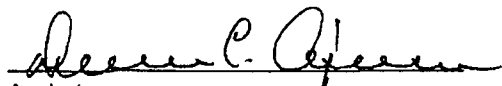
CATION / ANION ANALYSIS

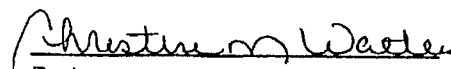
Client:	ConocoPhillips	Project #:	96052-026-397
Sample ID:	San Juan 28-6 #148N	Date Reported:	08-02-07
Laboratory Number:	42619	Date Sampled:	07-25-07
Chain of Custody:	2929	Date Received:	07-31-07
Sample Matrix:	Soil Extract	Date Extracted:	08-01-07
Preservative:	Cool	Date Analyzed:	08-02-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	8.03	s.u.		
Conductivity @ 25° C	624	umhos/cm		
Total Dissolved Solids @ 180C	436	mg/L		
Total Dissolved Solids (Calc)	416	mg/L		
SAR	6.8	ratio		
Total Alkalinity as CaCO3	44.6	mg/L		
Total Hardness as CaCO3	53.6	mg/L		
Bicarbonate as HCO3	44.6	mg/L	0.73	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	<0.01	mg/L	0.00	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	60.1	mg/L	1.70	meq/L
Fluoride	0.59	mg/L	0.03	meq/L
Phosphate	1.54	mg/L	0.05	meq/L
Sulfate	184	mg/L	3.83	meq/L
Iron	0.141	mg/L	0.01	meq/L
Calcium	11.3	mg/L	0.56	meq/L
Magnesium	6.20	mg/L	0.51	meq/L
Potassium	11.4	mg/L	0.29	meq/L
Sodium	114	mg/L	4.96	meq/L
Cations			6.33	meq/L
Anions			6.34	meq/L
Cation/Anion Difference			0.05%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Drilling Pit Characterization**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-026-397
Sample ID:	San Juan 28-6 #148N	Date Reported:	08-02-07
Laboratory Number:	42619	Date Sampled:	07-25-07
Chain of Custody:	2929	Date Received:	07-31-07
Sample Matrix:	Soil	Date Analyzed:	08-02-07
Preservative:	Cool	Date Digested:	08-02-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.068	0.001	5.0
Barium	25.4	0.001	100
Cadmium	ND	0.001	1.0
Chromium	1.41	0.001	5.0
Lead	0.565	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

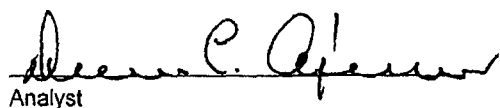
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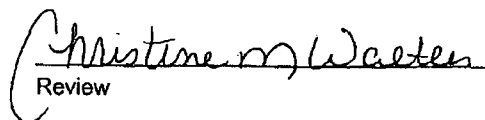
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Drilling Pit Characterization**


Analyst


Review

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Practical Solutions for a Better Tomorrow

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	08-02 TM QA/AC	Date Reported:	08-02-07
Laboratory Number:	42619	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	08-02-07
Condition:	N/A	Date Digested:	08-02-07

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.068	0.071	4.4%	0% - 30%
Barium	ND	ND	0.001	25.4	25.2	0.8%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	1.41	1.38	2.1%	0% - 30%
Lead	ND	ND	0.001	0.565	0.562	0.5%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

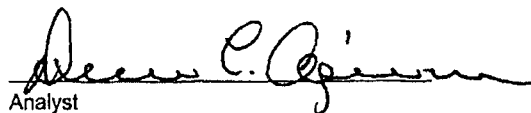
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.068	0.569	100.2%	80% - 120%
Barium	0.500	25.4	25.8	99.6%	80% - 120%
Cadmium	0.500	ND	0.499	99.8%	80% - 120%
Chromium	0.500	1.41	1.90	99.5%	80% - 120%
Lead	0.500	0.565	1.06	99.5%	80% - 120%
Mercury	0.500	ND	0.497	99.4%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	ND	0.498	99.6%	80% - 120%

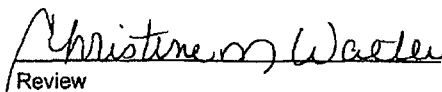
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission
Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for Sample 42619


Analyst


Review

CHAIN OF CUSTODY RECORD

2929

Client / Project Name			Project Location		ANALYSIS / PARAMETERS						
Cansaco Philip			Drilling pit characterization								
Sampler:			Client No. 96052-026-397 Gregg Wurtz		Remarks						
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH	BTEX	Cation	Anion	RCRA	Metals
San Juan 28-4 #145N	7/23/07		42019	Soil	1	✓	✓	✓	✓	✓	✓
Relinquished by: (Signature) Rachael Trout			Date	Time	Received by: (Signature) Mark Polson	Date					
Relinquished by: (Signature)					Received by: (Signature)	Time					
Relinquished by: (Signature)					Received by: (Signature)						
MARK POLSON (Area #35) # 728820 ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615											
Sample Receipt Received Intact Cool - Ice/Blue Ice											
Y N N/A											

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

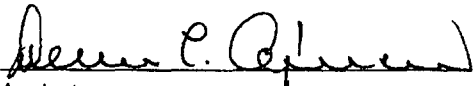
Client:	ConocoPhillips	Project #:	96052-026-407
Sample ID:	San Juan 29-6 #6B	Date Reported:	08-22-07
Laboratory Number:	42779	Date Sampled:	08-08-07
Chain of Custody No:	2939	Date Received:	08-17-07
Sample Matrix:	Soil	Date Extracted:	08-20-07
Preservative:	Cool	Date Analyzed:	08-22-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

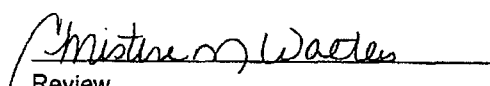
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	1.1	0.1
Total Petroleum Hydrocarbons	1.1	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pit**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-22-07 QA/QC	Date Reported:	08-22-07
Laboratory Number:	42779	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-22-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	1.0058E+003	1.0063E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0062E+003	1.0066E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

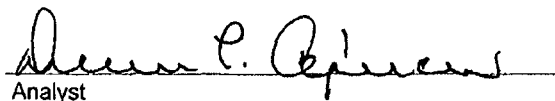
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	1.1	1.1	0.0%	0 - 30%

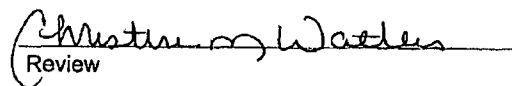
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	1.1	250	251	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42779 - 42786, 42795 - 42796


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-026-407
Sample ID:	San Juan 29-6 #6B	Date Reported:	08-22-07
Laboratory Number:	42779	Date Sampled:	08-08-07
Chain of Custody:	2939	Date Received:	08-17-07
Sample Matrix:	Soil	Date Analyzed:	08-22-07
Preservative:	Cool	Date Extracted:	08-20-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	2.9	1.0
Ethylbenzene	1.5	1.0
p,m-Xylene	6.2	1.2
o-Xylene	2.2	0.9
Total BTEX	12.8	

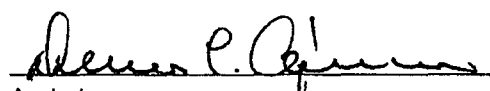
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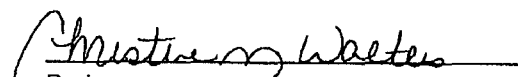
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Drilling Pit


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-22-BTEX QA/QC	Date Reported:	08-22-07
Laboratory Number:	42779	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-22-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range: 0 - 15%			
Benzene	1.2417E+008	1.2442E+008	0.2%	ND	0.1
Toluene	1.0553E+008	1.0574E+008	0.2%	ND	0.1
Ethylbenzene	8.1049E+007	8.1212E+007	0.2%	ND	0.1
p,m-Xylene	1.5502E+008	1.5534E+008	0.2%	ND	0.1
o-Xylene	7.4573E+007	7.4722E+007	0.2%	ND	0.1

Duplicate Conc: (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	2.9	2.8	3.4%	0 - 30%	1.0
Ethylbenzene	1.5	1.5	0.0%	0 - 30%	1.0
p,m-Xylene	6.2	6.1	1.6%	0 - 30%	1.2
o-Xylene	2.2	2.2	0.0%	0 - 30%	0.9

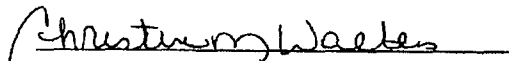
Spike Conc: (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	2.9	50.0	52.8	99.8%	46 - 148
Ethylbenzene	1.5	50.0	51.4	99.8%	32 - 160
p,m-Xylene	6.2	100	106	99.9%	46 - 148
o-Xylene	2.2	50.0	52.1	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 42779 - 42786, 42795 - 42796


Analyst


Review

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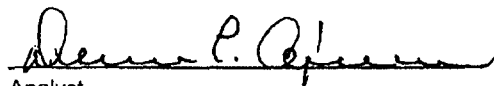
CATION / ANION ANALYSIS

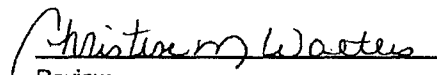
Client:	ConocoPhillips	Project #:	96052-026-407
Sample ID:	San Juan 29-6 #6B	Date Reported:	08-22-07
Laboratory Number:	42779	Date Sampled:	08-08-07
Chain of Custody:	2939	Date Received:	08-17-07
Sample Matrix:	Soil Extract	Date Extracted:	08-21-07
Preservative:	Cool	Date Analyzed:	08-22-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	8.55	s.u.		
Conductivity @ 25° C	359	umhos/cm		
Total Dissolved Solids @ 180C	260	mg/L		
Total Dissolved Solids (Calc)	238	mg/L		
SAR	2.7	ratio		
Total Alkalinity as CaCO3	96.0	mg/L		
Total Hardness as CaCO3	74.1	mg/L		
Bicarbonate as HCO3	96.0	mg/L	1.57	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.34	mg/L	0.01	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	30.8	mg/L	0.87	meq/L
Fluoride	0.59	mg/L	0.03	meq/L
Phosphate	0.50	mg/L	0.02	meq/L
Sulfate	65.0	mg/L	1.35	meq/L
Iron	0.008	mg/L	0.00	meq/L
Calcium	26.0	mg/L	1.30	meq/L
Magnesium	2.21	mg/L	0.18	meq/L
Potassium	0.19	mg/L	0.00	meq/L
Sodium	54.3	mg/L	2.36	meq/L
Cations			3.85	meq/L
Anions			3.85	meq/L
Cation/Anion Difference			0.04%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Drilling Pit


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-026-407
Sample ID:	San Juan 29-6 #6B	Date Reported:	08-21-07
Laboratory Number:	42779	Date Sampled:	08-08-07
Chain of Custody:	2939	Date Received:	08-17-07
Sample Matrix:	Soil	Date Analyzed:	08-21-07
Preservative:	Cool	Date Digested:	08-20-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.030	0.001	5.0
Barium	21.8	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.302	0.001	5.0
Lead	0.544	0.001	5.0
Mercury	0.006	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

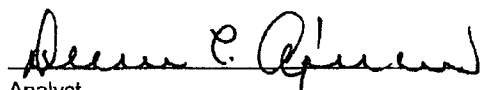
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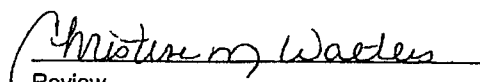
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Drilling Pit**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	08-21 TM QA/QC	Date Reported:	08-21-07
Laboratory Number:	42779	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	08-21-07
Condition:	N/A	Date Digested:	08-20-07

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.030	0.029	3.3%	0% - 30%
Barium	ND	ND	0.001	21.8	21.6	0.9%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.302	0.300	0.7%	0% - 30%
Lead	ND	ND	0.001	0.544	0.541	0.6%	0% - 30%
Mercury	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

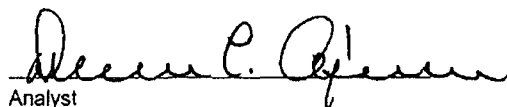
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.030	0.529	99.8%	80% - 120%
Barium	0.500	21.8	22.3	100.0%	80% - 120%
Cadmium	0.500	ND	0.499	99.8%	80% - 120%
Chromium	0.500	0.302	0.800	99.8%	80% - 120%
Lead	0.500	0.544	1.04	99.6%	80% - 120%
Mercury	0.500	0.006	0.505	99.8%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

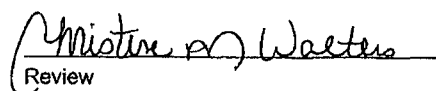
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References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission
Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42779 - 42786


Analyst


Review

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San Juan reproduction 578-129

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

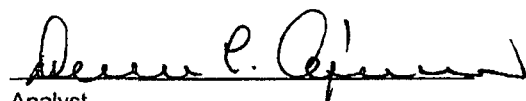
Client:	ConocoPhillips	Project #:	96052-026-408
Sample ID:	Suter #4C	Date Reported:	08-22-07
Laboratory Number:	42780	Date Sampled:	08-09-07
Chain of Custody No:	2930	Date Received:	08-17-07
Sample Matrix:	Soil	Date Extracted:	08-20-07
Preservative:	Cool	Date Analyzed:	08-22-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

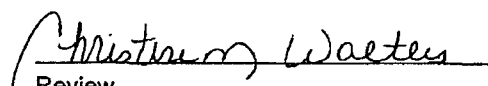
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	56.7	0.2
Diesel Range (C10 - C28)	1,650	0.1
Total Petroleum Hydrocarbons	1,710	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pit**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-22-07 QA/QC	Date Reported:	08-22-07
Laboratory Number:	42779	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-22-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	1.0058E+003	1.0063E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0062E+003	1.0066E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	1.1	1.1	0.0%	0 - 30%

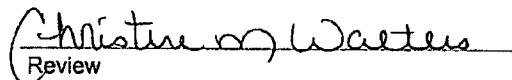
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	1.1	250	251	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42779 - 42786, 42795 - 42796


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-026-408
Sample ID:	Suter #4C	Date Reported:	08-22-07
Laboratory Number:	42780	Date Sampled:	08-09-07
Chain of Custody:	2930	Date Received:	08-17-07
Sample Matrix:	Soil	Date Analyzed:	08-22-07
Preservative:	Cool	Date Extracted:	08-20-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	6.6	1.0
Ethylbenzene	22.6	1.0
p,m-Xylene	101	1.2
o-Xylene	22.3	0.9
Total BTEX	153	

ND - Parameter not detected at the stated detection limit.

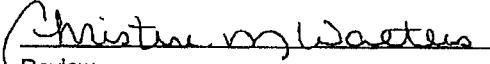
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Drilling Pit


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-22-BTEX QA/QC	Date Reported:	08-22-07
Laboratory Number:	42779	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-22-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	1.2417E+008	1.2442E+008	0.2%	ND	0.1
Toluene	1.0553E+008	1.0574E+008	0.2%	ND	0.1
Ethylbenzene	8.1049E+007	8.1212E+007	0.2%	ND	0.1
p,m-Xylene	1.5502E+008	1.5534E+008	0.2%	ND	0.1
o-Xylene	7.4573E+007	7.4722E+007	0.2%	ND	0.1

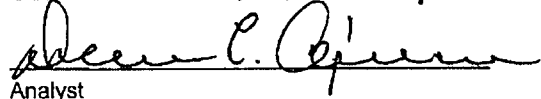
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	2.9	2.8	3.4%	0 - 30%	1.0
Ethylbenzene	1.5	1.5	0.0%	0 - 30%	1.0
p,m-Xylene	6.2	6.1	1.6%	0 - 30%	1.2
o-Xylene	2.2	2.2	0.0%	0 - 30%	0.9

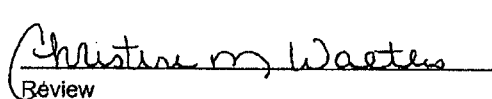
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	2.9	50.0	52.8	99.8%	46 - 148
Ethylbenzene	1.5	50.0	51.4	99.8%	32 - 160
p,m-Xylene	6.2	100	106	99.9%	46 - 148
o-Xylene	2.2	50.0	52.1	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 42779 - 42786, 42795 - 42796


Analyst


Review

ENVIROTECH LABS

IRRACTICAL SOLUTIONS FOR A BETTER TOMORROW

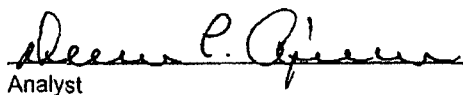
CATION / ANION ANALYSIS

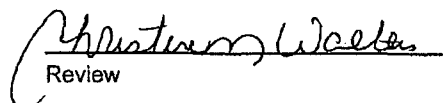
Client:	ConocoPhillips	Project #:	96052-026-408
Sample ID:	Suter #4C	Date Reported:	08-22-07
Laboratory Number:	42780	Date Sampled:	08-09-07
Chain of Custody:	2930	Date Received:	08-17-07
Sample Matrix:	Soil Extract	Date Extracted:	08-21-07
Preservative:	Cool	Date Analyzed:	08-22-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	10.64	s.u.		
Conductivity @ 25° C	1,730	umhos/cm		
Total Dissolved Solids @ 180C	956	mg/L		
Total Dissolved Solids (Calc)	956	mg/L		
SAR	14.6	ratio		
Total Alkalinity as CaCO3	82.0	mg/L		
Total Hardness as CaCO3	79.7	mg/L		
Bicarbonate as HCO3	82.0	mg/L	1.34	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	1.14	mg/L	0.02	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	288	mg/L	8.12	meq/L
Fluoride	0.24	mg/L	0.01	meq/L
Phosphate	<0.01	mg/L	0.00	meq/L
Sulfate	268	mg/L	5.58	meq/L
Iron	0.001	mg/L	0.00	meq/L
Calcium	29.9	mg/L	1.49	meq/L
Magnesium	1.22	mg/L	0.10	meq/L
Potassium	19.4	mg/L	0.50	meq/L
Sodium	299	mg/L	12.98	meq/L
Cations			15.07	meq/L
Anions			15.08	meq/L
Cation/Anion Difference			0.04%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Drilling Pit**


Analyst


Review

ENVIROTECH LABS

PRactical SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-026-408
Sample ID:	Suter #4C	Date Reported:	08-21-07
Laboratory Number:	42780	Date Sampled:	08-09-07
Chain of Custody:	2930	Date Received:	08-17-07
Sample Matrix:	Soil	Date Analyzed:	08-21-07
Preservative:	Cool	Date Digested:	08-20-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.062	0.001	5.0
Barium	67.2	0.001	100
Cadmium	0.004	0.001	1.0
Chromium	1.33	0.001	5.0
Lead	0.977	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

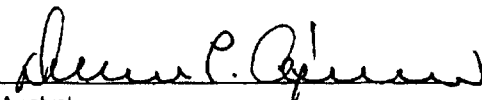
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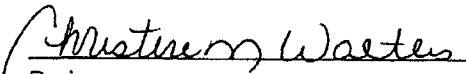
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: Drilling Pit


Analyst


Review

ENVIROTECH LABS

Practical Solutions for a Better Tomorrow

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	08-21 TM QA/QC	Date Reported:	08-21-07
Laboratory Number:	42779	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	08-21-07
Condition:	N/A	Date Digested:	08-20-07

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.030	0.029	3.3%	0% - 30%
Barium	ND	ND	0.001	21.8	21.6	0.9%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.302	0.300	0.7%	0% - 30%
Lead	ND	ND	0.001	0.544	0.541	0.6%	0% - 30%
Mercury	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

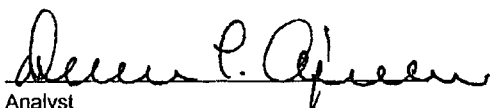
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.030	0.529	99.8%	80% - 120%
Barium	0.500	21.8	22.3	100.0%	80% - 120%
Cadmium	0.500	ND	0.499	99.8%	80% - 120%
Chromium	0.500	0.302	0.800	99.8%	80% - 120%
Lead	0.500	0.544	1.04	99.6%	80% - 120%
Mercury	0.500	0.006	0.505	99.8%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

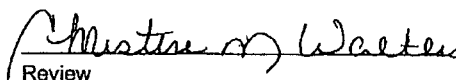
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission
Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42779 - 42786


Analyst


Review

CHAIN OF CUSTODY RECORD

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Client / Project Name			Project Location		ANALYSIS / PARAMETERS						Remarks		
Cavaco Phillips			Drilling pit										
Sampler:			Client No. 96552-026-408										
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH	BTEX	CATON	ANION	REPA	METALS		
Super 44	5/4/07		42780	Soil	1	✓	✓	✓	✓	✓	✓		
Relinquished by: (Signature)			Date	Time	Received by: (Signature)							Date	Time
Michael McKee			5/17/07	7:25	Alvin E. Ojeda							5/17/07	09:25
Relinquished by: (Signature)													
Relinquished by: (Signature)													
Received by: (Signature)													
Terry Loudermilk													
10/46145													
ENVIROTECH INC.													
5796 U.S. Highway 64													
Farmington, New Mexico 87401													
(505) 632-0615													
Sample Receipt													
Received Intact													
Cool - Ice/Blue Ice													

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-026-409
Sample ID:	Johnston - A Com G 17 N	Date Reported:	08-22-07
Laboratory Number:	42781	Date Sampled:	08-15-07
Chain of Custody No:	3197	Date Received:	08-17-07
Sample Matrix:	Soil	Date Extracted:	08-20-07
Preservative:	Cool	Date Analyzed:	08-22-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

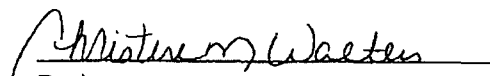
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	187	0.1
Total Petroleum Hydrocarbons	187	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pit**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-22-07 QA/QC	Date Reported:	08-22-07
Laboratory Number:	42779	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-22-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	1.0058E+003	1.0063E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0062E+003	1.0066E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

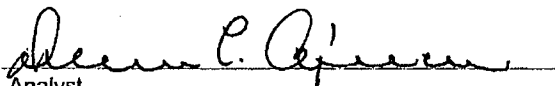
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	1.1	1.1	0.0%	0 - 30%

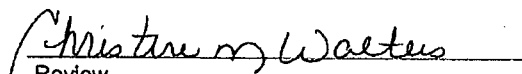
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	1.1	250	251	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42779 - 42786, 42795 - 42796


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-026-409
Sample ID:	Johnston - A Com G 17 N	Date Reported:	08-22-07
Laboratory Number:	42781	Date Sampled:	08-15-07
Chain of Custody:	3197	Date Received:	08-17-07
Sample Matrix:	Soil	Date Analyzed:	08-22-07
Preservative:	Cool	Date Extracted:	08-20-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	1.8	1.0
Ethylbenzene	1.0	1.0
p,m-Xylene	7.8	1.2
o-Xylene	ND	0.9
Total BTEX	10.6	

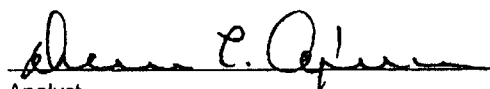
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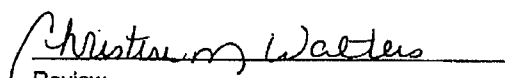
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Drilling Pit


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-22-BTEX QA/QC	Date Reported:	08-22-07
Laboratory Number:	42779	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-22-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RE	O-Cal RE	%Diff	Blank Conc	Detect Limit
		Accept Range	0 - 15%		
Benzene	1.2417E+008	1.2442E+008	0.2%	ND	0.1
Toluene	1.0553E+008	1.0574E+008	0.2%	ND	0.1
Ethylbenzene	8.1049E+007	8.1212E+007	0.2%	ND	0.1
p,m-Xylene	1.5502E+008	1.5534E+008	0.2%	ND	0.1
o-Xylene	7.4573E+007	7.4722E+007	0.2%	ND	0.1

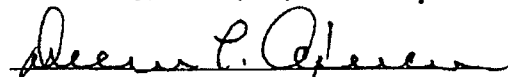
Duplicate Conc (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	2.9	2.8	3.4%	0 - 30%	1.0
Ethylbenzene	1.5	1.5	0.0%	0 - 30%	1.0
p,m-Xylene	6.2	6.1	1.6%	0 - 30%	1.2
o-Xylene	2.2	2.2	0.0%	0 - 30%	0.9

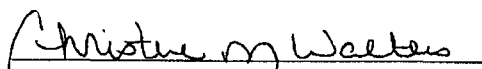
Spike Conc (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	2.9	50.0	52.8	99.8%	46 - 148
Ethylbenzene	1.5	50.0	51.4	99.8%	32 - 160
p,m-Xylene	6.2	100	106	99.9%	46 - 148
o-Xylene	2.2	50.0	52.1	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 42779 - 42786, 42795 - 42796


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

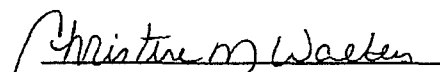
Client:	ConocoPhillips	Project #:	96052-026-409
Sample ID:	Johnston - A Com G 17 N	Date Reported:	08-22-07
Laboratory Number:	42781	Date Sampled:	08-15-07
Chain of Custody:	3197	Date Received:	08-17-07
Sample Matrix:	Soil Extract	Date Extracted:	08-21-07
Preservative:	Cool	Date Analyzed:	08-22-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	8.75	s.u.		
Conductivity @ 25° C	334	umhos/cm		
Total Dissolved Solids @ 180C	280	mg/L		
Total Dissolved Solids (Calc)	258	mg/L		
SAR	2.8	ratio		
Total Alkalinity as CaCO3	100	mg/L		
Total Hardness as CaCO3	46.7	mg/L		
Bicarbonate as HCO3	100	mg/L	1.64	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.57	mg/L	0.01	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	68.3	mg/L	1.93	meq/L
Fluoride	0.76	mg/L	0.04	meq/L
Phosphate	<0.01	mg/L	0.00	meq/L
Sulfate	21.4	mg/L	0.45	meq/L
Iron	0.015	mg/L	0.00	meq/L
Calcium	10.3	mg/L	0.51	meq/L
Magnesium	5.12	mg/L	0.42	meq/L
Potassium	45.9	mg/L	1.17	meq/L
Sodium	44.8	mg/L	1.95	meq/L
Cations			4.06	meq/L
Anions			4.06	meq/L
Cation/Anion Difference			0.04%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Drilling Pit**


Analyst


Review

Client:	ConocoPhillips	Project #:	96052-026-409
Sample ID:	Johnston - A Com G 17 N	Date Reported:	08-21-07
Laboratory Number:	42781	Date Sampled:	08-15-07
Chain of Custody:	3197	Date Received:	08-17-07
Sample Matrix:	Soil	Date Analyzed:	08-21-07
Preservative:	Cool	Date Digested:	08-20-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.421	0.001	5.0
Barium	5.01	0.001	100
Cadmium	0.007	0.001	1.0
Chromium	0.355	0.001	5.0
Lead	0.461	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

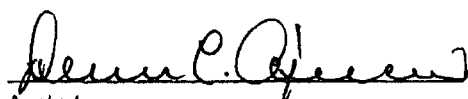
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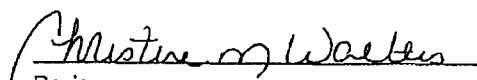
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Drilling Pit**


Analyst


Review

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	08-21 TM QA/AC	Date Reported:	08-21-07
Laboratory Number:	42779	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	08-21-07
Condition:	N/A	Date Digested:	08-20-07

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.030	0.029	3.3%	0% - 30%
Barium	ND	ND	0.001	21.8	21.6	0.9%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.302	0.300	0.7%	0% - 30%
Lead	ND	ND	0.001	0.544	0.541	0.6%	0% - 30%
Mercury	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

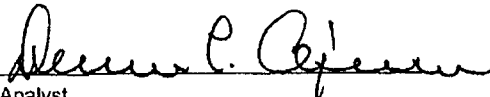
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.030	0.529	99.8%	80% - 120%
Barium	0.500	21.8	22.3	100.0%	80% - 120%
Cadmium	0.500	ND	0.499	99.8%	80% - 120%
Chromium	0.500	0.302	0.800	99.8%	80% - 120%
Lead	0.500	0.544	1.04	99.6%	80% - 120%
Mercury	0.500	0.006	0.505	99.8%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

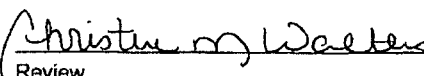
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42779 - 42786


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

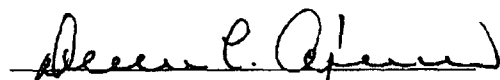
Client:	Burlington Resources	Project #:	92115-001-2938
Sample ID:	Blanco #9B	Date Reported:	08-22-07
Laboratory Number:	42783	Date Sampled:	08-10-07
Chain of Custody No:	2938	Date Received:	08-17-07
Sample Matrix:	Soil	Date Extracted:	08-20-07
Preservative:	Cool	Date Analyzed:	08-22-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

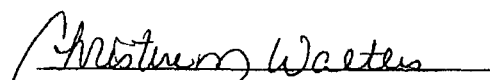
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.8	0.2
Diesel Range (C10 - C28)	126	0.1
Total Petroleum Hydrocarbons	130	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pit**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-22-07 QA/QC	Date Reported:	08-22-07
Laboratory Number:	42779	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-22-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	O-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	1.0058E+003	1.0063E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0062E+003	1.0066E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

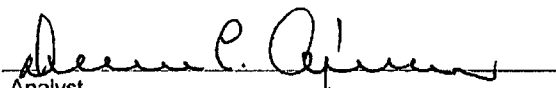
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	1.1	1.1	0.0%	0 - 30%

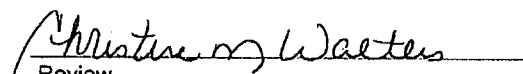
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	1.1	250	251	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42779 - 42786, 42795 - 42796


Analyst


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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

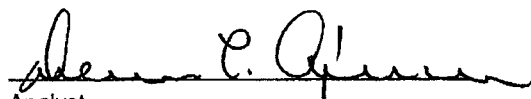
Client:	Burlington Resources	Project #:	92115-001-2937
Sample ID:	Hubbull #3N	Date Reported:	08-22-07
Laboratory Number:	42785	Date Sampled:	08-13-07
Chain of Custody No:	2937	Date Received:	08-17-07
Sample Matrix:	Soil	Date Extracted:	08-20-07
Preservative:	Cool	Date Analyzed:	08-22-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

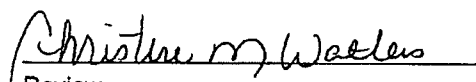
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.0	0.2
Diesel Range (C10 - C28)	74.2	0.1
Total Petroleum Hydrocarbons	75.2	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pit**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-22-07 QA/QC	Date Reported:	08-22-07
Laboratory Number:	42779	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-22-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	O-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	1.0058E+003	1.0063E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0062E+003	1.0066E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

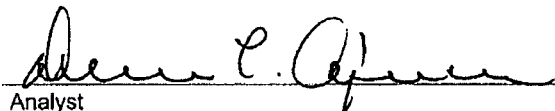
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	1.1	1.1	0.0%	0 - 30%

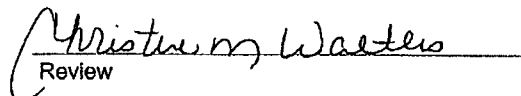
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	1.1	250	251	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42779 - 42786, 42795 - 42796


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Burlington Resources	Project #:	92115-001-2937
Sample ID:	Johnston A Com G 18 N	Date Reported:	08-22-07
Laboratory Number:	42784	Date Sampled:	08-13-07
Chain of Custody:	2937	Date Received:	08-17-07
Sample Matrix:	Soil	Date Analyzed:	08-22-07
Preservative:	Cool	Date Extracted:	08-20-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	1.2	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9
Total BTEX	1.2	

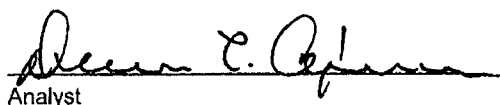
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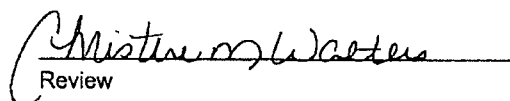
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Drilling Pit


Analyst


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Burlington Resources	Project #:	92115-001-2937
Sample ID:	Hubbull #3N	Date Reported:	08-22-07
Laboratory Number:	42785	Date Sampled:	08-13-07
Chain of Custody:	2937	Date Received:	08-17-07
Sample Matrix:	Soil	Date Analyzed:	08-22-07
Preservative:	Cool	Date Extracted:	08-20-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	0.9	0.9
Toluene	3.6	1.0
Ethylbenzene	1.1	1.0
p,m-Xylene	4.6	1.2
o-Xylene	1.6	0.9
Total BTEX	11.8	

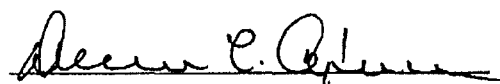
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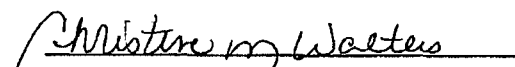
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Drilling Pit


Analyst


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-22-BTEX QA/QC	Date Reported:	08-22-07
Laboratory Number:	42779	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-22-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	1.2417E+008	1.2442E+008	0.2%	ND	0.1
Toluene	1.0553E+008	1.0574E+008	0.2%	ND	0.1
Ethylbenzene	8.1049E+007	8.1212E+007	0.2%	ND	0.1
p,m-Xylene	1.5502E+008	1.5534E+008	0.2%	ND	0.1
o-Xylene	7.4573E+007	7.4722E+007	0.2%	ND	0.1

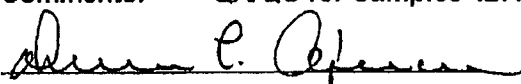
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	2.9	2.8	3.4%	0 - 30%	1.0
Ethylbenzene	1.5	1.5	0.0%	0 - 30%	1.0
p,m-Xylene	6.2	6.1	1.6%	0 - 30%	1.2
o-Xylene	2.2	2.2	0.0%	0 - 30%	0.9

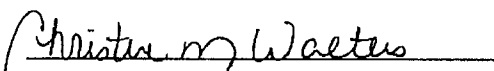
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	2.9	50.0	52.8	99.8%	46 - 148
Ethylbenzene	1.5	50.0	51.4	99.8%	32 - 160
p,m-Xylene	6.2	100	106	99.9%	46 - 148
o-Xylene	2.2	50.0	52.1	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 42779 - 42786, 42795 - 42796


Analyst


Review

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Practical Solutions For A Better Tomorrow

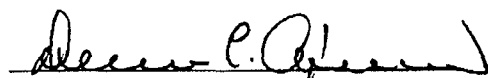
CATION / ANION ANALYSIS

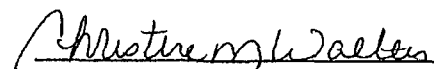
Client:	Burlington Resources	Project #:	92115-001-2937
Sample ID:	Johnston A Com G 18 N	Date Reported:	08-22-07
Laboratory Number:	42784	Date Sampled:	08-13-07
Chain of Custody:	2937	Date Received:	08-17-07
Sample Matrix:	Soil Extract	Date Extracted:	08-21-07
Preservative:	Cool	Date Analyzed:	08-22-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	8.78	s.u.		
Conductivity @ 25° C	365	umhos/cm		
Total Dissolved Solids @ 180C	256	mg/L		
Total Dissolved Solids (Calc)	267	mg/L		
SAR	4.5	ratio		
Total Alkalinity as CaCO3	138	mg/L		
Total Hardness as CaCO3	30.4	mg/L		
Bicarbonate as HCO3	138	mg/L	2.26	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.24	mg/L	0.00	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	37.6	mg/L	1.06	meq/L
Fluoride	0.51	mg/L	0.03	meq/L
Phosphate	<0.01	mg/L	0.00	meq/L
Sulfate	36.7	mg/L	0.76	meq/L
Iron	0.153	mg/L	0.01	meq/L
Calcium	8.75	mg/L	0.44	meq/L
Magnesium	2.08	mg/L	0.17	meq/L
Potassium	39.8	mg/L	1.02	meq/L
Sodium	57.1	mg/L	2.48	meq/L
Cations			4.12	meq/L
Anions			4.12	meq/L
Cation/Anion Difference			0.05%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Drilling Pit


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

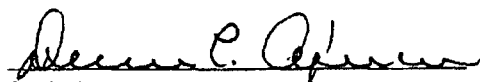
CATION / ANION ANALYSIS

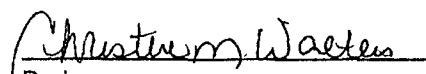
Client:	Burlington Resources	Project #:	92115-001-2937
Sample ID:	Hubbull #3N	Date Reported:	08-22-07
Laboratory Number:	42785	Date Sampled:	08-13-07
Chain of Custody:	2937	Date Received:	08-17-07
Sample Matrix:	Soil Extract	Date Extracted:	08-21-07
Preservative:	Cool	Date Analyzed:	08-22-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	8.76	s.u.		
Conductivity @ 25° C	1,100	umhos/cm		
Total Dissolved Solids @ 180C	720	mg/L		
Total Dissolved Solids (Calc)	700	mg/L		
SAR	10.0	ratio		
Total Alkalinity as CaCO3	88.0	mg/L		
Total Hardness as CaCO3	78.4	mg/L		
Bicarbonate as HCO3	88.0	mg/L	1.44	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.65	mg/L	0.01	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	134	mg/L	3.78	meq/L
Fluoride	0.62	mg/L	0.03	meq/L
Phosphate	<0.01	mg/L	0.00	meq/L
Sulfate	266	mg/L	5.54	meq/L
Iron	0.243	mg/L	0.01	meq/L
Calcium	19.1	mg/L	0.95	meq/L
Magnesium	7.48	mg/L	0.62	meq/L
Potassium	16.0	mg/L	0.41	meq/L
Sodium	203	mg/L	8.82	meq/L
Cations			10.81	meq/L
Anions			10.80	meq/L
Cation/Anion Difference			0.04%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Drilling Pit


Analyst


Review

TRACE METAL ANALYSIS

Client:	Burlington Resources	Project #:	92115-001-2937
Sample ID:	Johnston A Com G 18 N	Date Reported:	08-21-07
Laboratory Number:	42784	Date Sampled:	08-13-07
Chain of Custody:	2937	Date Received:	08-17-07
Sample Matrix:	Soil	Date Analyzed:	08-21-07
Preservative:	Cool	Date Digested:	08-20-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.055	0.001	5.0
Barium	13.6	0.001	100
Cadmium	0.003	0.001	1.0
Chromium	1.58	0.001	5.0
Lead	0.608	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

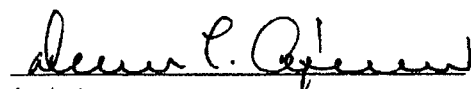
ND - Parameter not detected at the stated detection limit.

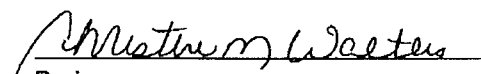
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Drilling Pit**


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Burlington Resources	Project #:	92115-001-2937
Sample ID:	Hubbull #3N	Date Reported:	08-21-07
Laboratory Number:	42785	Date Sampled:	08-13-07
Chain of Custody:	2937	Date Received:	08-17-07
Sample Matrix:	Soil	Date Analyzed:	08-21-07
Preservative:	Cool	Date Digested:	08-20-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.111	0.001	5.0
Barium	15.9	0.001	100
Cadmium	0.007	0.001	1.0
Chromium	0.984	0.001	5.0
Lead	0.383	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

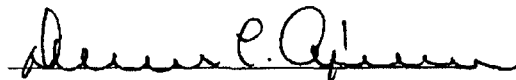
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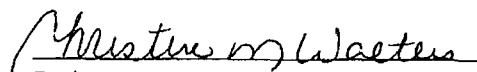
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Drilling Pit**


Analyst


Review

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client: QA/QC
Sample ID: 08-21 TM QA/AC
Laboratory Number: 42779
Sample Matrix: Soil
Analysis Requested: Total RCRA Metals
Condition: N/A

Project #: QA/QC
Date Reported: 08-21-07
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 08-21-07
Date Digested: 08-20-07

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.030	0.029	3.3%	0% - 30%
Barium	ND	ND	0.001	21.8	21.6	0.9%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.302	0.300	0.7%	0% - 30%
Lead	ND	ND	0.001	0.544	0.541	0.6%	0% - 30%
Mercury	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

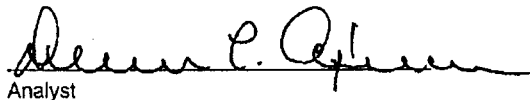
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.030	0.529	99.8%	80% - 120%
Barium	0.500	21.8	22.3	100.0%	80% - 120%
Cadmium	0.500	ND	0.499	99.8%	80% - 120%
Chromium	0.500	0.302	0.800	99.8%	80% - 120%
Lead	0.500	0.544	1.04	99.6%	80% - 120%
Mercury	0.500	0.006	0.505	99.8%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

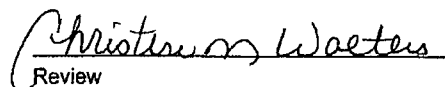
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission
Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42779 - 42786


Analyst


Review

CHAIN OF CUSTODY RECORD

2937

Client / Project Name			Project Location		ANALYSIS / PARAMETERS							
Client: <i>Burlington Rigs</i> Project: <i>Drilling pit</i>			Client No. <i>92115-001-3198</i> Lab Number <i>Gregg W. Wright</i>		2937 Remarks							
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH	BTEX	CATION	ANION	PCRA	METALS	
<i>Johansen Acom 8/13/87</i>	<i>8/13/87</i>		<i>42784</i>	<i>Soil</i>	<i>1</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	
<i>Hubbell 3M 8/13/87</i>	<i>8/13/87</i>		<i>42785</i>	<i>Soil</i>	<i>1</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	
Relinquished by: (Signature)			Date		Time		Received by: (Signature)		Date		Time	
<i>Richard McKee</i>			<i>8/17/87</i>		<i>5:25</i>		<i>Alvin L. Quinn</i>		<i>8/17/87</i>		<i>09:25</i>	
Relinquished by: (Signature)			Date		Time		Received by: (Signature)		Date		Time	
Relinquished by: (Signature)			Date		Time		Received by: (Signature)		Date		Time	
ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615												
Sample Receipt Received Intact <i>✓</i> Cool - Ice/Blue Ice <i>✓</i>												

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

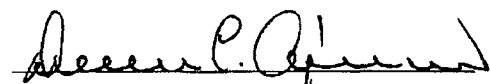
Client:	Burlington Resources	Project #:	92115-001-3196
Sample ID:	San Juan 28-6 #184E	Date Reported:	08-22-07
Laboratory Number:	42782	Date Sampled:	08-10-07
Chain of Custody No:	3196	Date Received:	08-17-07
Sample Matrix:	Soil	Date Extracted:	08-20-07
Preservative:	Cool	Date Analyzed:	08-22-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

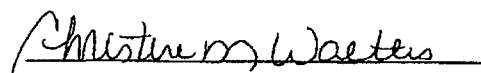
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	27.4	0.2
Diesel Range (C10 - C28)	136	0.1
Total Petroleum Hydrocarbons	163	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pit**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-22-07 QA/QC	Date Reported:	08-22-07
Laboratory Number:	42779	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-22-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	1.0058E+003	1.0063E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0062E+003	1.0066E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

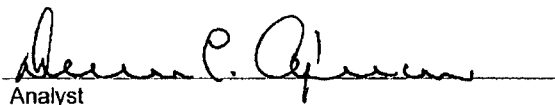
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	1.1	1.1	0.0%	0 - 30%

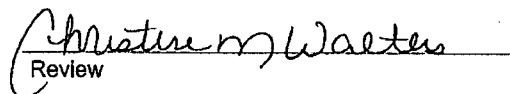
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	1.1	250	251	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42779 - 42786, 42795 - 42796


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Burlington Resources	Project #:	92115-001-3196
Sample ID:	San Juan 28-6 #184E	Date Reported:	08-22-07
Laboratory Number:	42782	Date Sampled:	08-10-07
Chain of Custody:	3196	Date Received:	08-17-07
Sample Matrix:	Soil	Date Analyzed:	08-22-07
Preservative:	Cool	Date Extracted:	08-20-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	9.7	1.0
Ethylbenzene	24.1	1.0
p,m-Xylene	204	1.2
o-Xylene	39.0	0.9
Total BTEX	277	

ND - Parameter not detected at the stated detection limit.

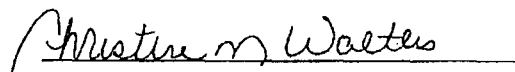
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Drilling Pit


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-22-BTEX QA/QC	Date Reported:	08-22-07
Laboratory Number:	42779	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-22-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	1.2417E+008	1.2442E+008	0.2%	ND	0.1
Toluene	1.0553E+008	1.0574E+008	0.2%	ND	0.1
Ethylbenzene	8.1049E+007	8.1212E+007	0.2%	ND	0.1
p,m-Xylene	1.5502E+008	1.5534E+008	0.2%	ND	0.1
o-Xylene	7.4573E+007	7.4722E+007	0.2%	ND	0.1

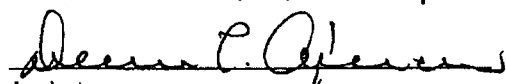
Duplicate Conc (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	2.9	2.8	3.4%	0 - 30%	1.0
Ethylbenzene	1.5	1.5	0.0%	0 - 30%	1.0
p,m-Xylene	6.2	6.1	1.6%	0 - 30%	1.2
o-Xylene	2.2	2.2	0.0%	0 - 30%	0.9

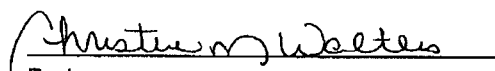
Spike Conc (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	2.9	50.0	52.8	99.8%	46 - 148
Ethylbenzene	1.5	50.0	51.4	99.8%	32 - 160
p,m-Xylene	6.2	100	106	99.9%	46 - 148
o-Xylene	2.2	50.0	52.1	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 42779 - 42786, 42795 - 42796


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

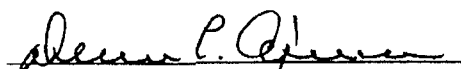
CATION / ANION ANALYSIS

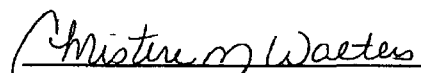
Client:	Burlington Resources	Project #:	92115-001-3196
Sample ID:	San Juan 28-6 #184E	Date Reported:	08-22-07
Laboratory Number:	42782	Date Sampled:	08-10-07
Chain of Custody:	3196	Date Received:	08-17-07
Sample Matrix:	Soil Extract	Date Extracted:	08-21-07
Preservative:	Cool	Date Analyzed:	08-22-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	8.42	s.u.		
Conductivity @ 25° C	506	umhos/cm		
Total Dissolved Solids @ 180C	342	mg/L		
Total Dissolved Solids (Calc)	337	mg/L		
SAR	9.8	ratio		
Total Alkalinity as CaCO3	63.0	mg/L		
Total Hardness as CaCO3	22.9	mg/L		
Bicarbonate as HCO3	63.0	mg/L	1.03	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.51	mg/L	0.01	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	44.1	mg/L	1.24	meq/L
Fluoride	0.86	mg/L	0.05	meq/L
Phosphate	<0.01	mg/L	0.00	meq/L
Sulfate	136	mg/L	2.83	meq/L
Iron	0.012	mg/L	0.00	meq/L
Calcium	8.04	mg/L	0.40	meq/L
Magnesium	0.68	mg/L	0.06	meq/L
Potassium	0.17	mg/L	0.00	meq/L
Sodium	108	mg/L	4.70	meq/L
Cations			5.16	meq/L
Anions			5.16	meq/L
Cation/Anion Difference			0.03%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Drilling Pit**


Analyst


Review

TRACE METAL ANALYSIS

Client:	Burlington Resources	Project #:	92115-001-3196
Sample ID:	San Juan 28-6 #184E	Date Reported:	08-21-07
Laboratory Number:	42782	Date Sampled:	08-10-07
Chain of Custody:	3196	Date Received:	08-17-07
Sample Matrix:	Soil	Date Analyzed:	08-21-07
Preservative:	Cool	Date Digested:	08-20-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.113	0.001	5.0
Barium	78.2	0.001	100
Cadmium	ND	0.001	1.0
Chromium	1.36	0.001	5.0
Lead	1.25	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

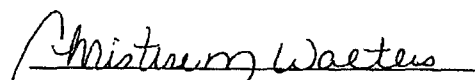
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Drilling Pit**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	08-21 TM QA/AC	Date Reported:	08-21-07
Laboratory Number:	42779	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	08-21-07
Condition:	N/A	Date Digested:	08-20-07

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.030	0.029	3.3%	0% - 30%
Barium	ND	ND	0.001	21.8	21.6	0.9%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.302	0.300	0.7%	0% - 30%
Lead	ND	ND	0.001	0.544	0.541	0.6%	0% - 30%
Mercury	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

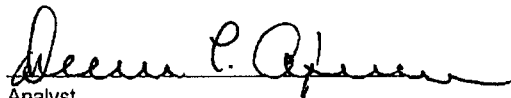
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.030	0.529	99.8%	80% - 120%
Barium	0.500	21.8	22.3	100.0%	80% - 120%
Cadmium	0.500	ND	0.499	99.8%	80% - 120%
Chromium	0.500	0.302	0.800	99.8%	80% - 120%
Lead	0.500	0.544	1.04	99.6%	80% - 120%
Mercury	0.500	0.006	0.505	99.8%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

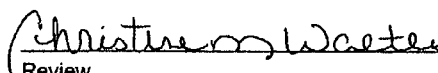
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission
Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42779 - 42786


Analyst


Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

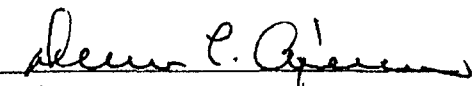
Client:	Williams Production	Project #:	04108-003-3359
Sample ID:	Rosa 310A	Date Reported:	09-11-07
Laboratory Number:	43006	Date Sampled:	08-28-07
Chain of Custody No:	3359	Date Received:	09-07-07
Sample Matrix:	Soil	Date Extracted:	09-10-07
Preservative:	Cool	Date Analyzed:	09-11-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

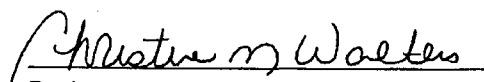
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	31.3	0.2
Diesel Range (C10 - C28)	25.2	0.1
Total Petroleum Hydrocarbons	56.5	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Reserve Pit Closure**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-11-07 QA/QC	Date Reported:	09-11-07
Laboratory Number:	42982	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-11-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.9066E+002	9.9106E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.9353E+002	9.9393E+002	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	45.6	45.4	0.4%	0 - 30%
Diesel Range C10 - C28	933	927	0.6%	0 - 30%

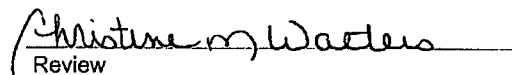
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	45.6	250	295	99.9%	75 - 125%
Diesel Range C10 - C28	933	250	1,180	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42982 - 42985, 43006 - 43008


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Williams Production	Project #:	04108-003-3359
Sample ID:	Rosa 310A	Date Reported:	09-11-07
Laboratory Number:	43006	Date Sampled:	08-28-07
Chain of Custody:	3359	Date Received:	09-07-07
Sample Matrix:	Soil	Date Analyzed:	09-11-07
Preservative:	Cool	Date Extracted:	09-10-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	18.5	1.0
Ethylbenzene	2.9	1.0
p,m-Xylene	29.0	1.2
o-Xylene	7.0	0.9
Total BTEX	57.4	

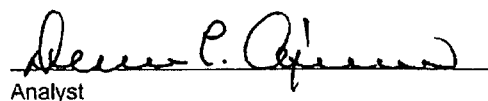
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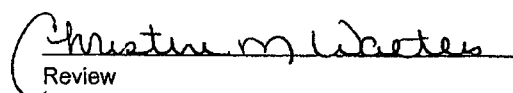
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Reserve Pit Closure


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	09-11-BTEX QA/QC	Date Reported:	09-11-07
Laboratory Number:	42982	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-11-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RE	C-Cal RE	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	1.2493E+008	1.2518E+008	0.2%	ND	0.1
Toluene	1.0275E+008	1.0295E+008	0.2%	ND	0.1
Ethylbenzene	7.6906E+007	7.7060E+007	0.2%	ND	0.1
p,m-Xylene	1.4716E+008	1.4746E+008	0.2%	ND	0.1
o-Xylene	6.9901E+007	7.0041E+007	0.2%	ND	0.1

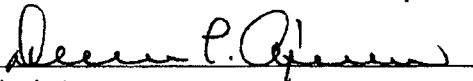
Duplicate Conc: (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	5.1	5.1	0.0%	0 - 30%	1.0
p,m-Xylene	102	101	1.0%	0 - 30%	1.2
o-Xylene	28.7	28.6	0.3%	0 - 30%	0.9

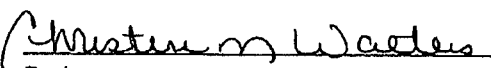
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	5.1	50.0	55.0	99.8%	32 - 160
p,m-Xylene	102	100	201	99.5%	46 - 148
o-Xylene	28.7	50.0	78.5	99.7%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 42982 - 42985, 43006 - 43008


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Williams Production	Project #:	04108-003-3359
Sample ID:	Rosa 310A	Date Reported:	09-11-07
Laboratory Number:	43006	Date Sampled:	08-28-07
Chain of Custody:	3359	Date Received:	09-07-07
Sample Matrix:	Soil	Date Analyzed:	09-11-07
Preservative:	Cool	Date Digested:	09-10-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.008	0.001	5.0
Barium	22.3	0.001	100
Cadmium	0.009	0.001	1.0
Chromium	1.37	0.001	5.0
Lead	0.628	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

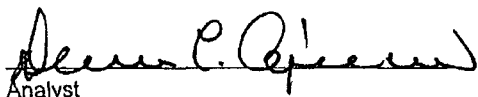
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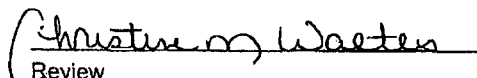
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Reserve Pit Closure**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	09-11 TM QA/QC	Date Reported:	09-11-07
Laboratory Number:	43006	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	09-11-07
Condition:	N/A	Date Digested:	09-10-07

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.008	0.008	0.0%	0% - 30%
Barium	ND	ND	0.001	22.3	22.3	0.0%	0% - 30%
Cadmium	ND	ND	0.001	0.009	0.009	0.0%	0% - 30%
Chromium	ND	ND	0.001	1.37	1.40	2.2%	0% - 30%
Lead	ND	ND	0.001	0.628	0.632	0.6%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

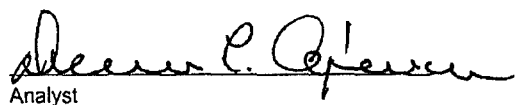
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.008	0.507	99.8%	80% - 120%
Barium	0.500	22.3	22.7	99.6%	80% - 120%
Cadmium	0.500	0.009	0.509	100.0%	80% - 120%
Chromium	0.500	1.37	1.86	99.5%	80% - 120%
Lead	0.500	0.628	1.13	100.2%	80% - 120%
Mercury	0.500	ND	0.498	99.6%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	ND	0.501	100.2%	80% - 120%

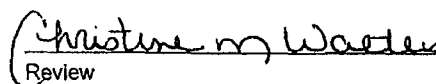
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 43006 - 43007, 43012 - 43016, 43032


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

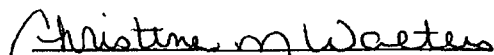
Chloride

Client:	Williams Production	Project #:	04108-003-3359
Sample ID:	Rosa 310A	Date Reported:	09-11-07
Lab ID#:	43006	Date Sampled:	08-28-07
Sample Matrix:	Soil	Date Received:	09-07-07
Preservative:	Cool	Date Analyzed:	09-11-07
Condition:	Cool and Intact	Chain of Custody:	3359

Parameter	Concentration (mg/Kg)
Total Chloride	138

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Reserve Pit Closure


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

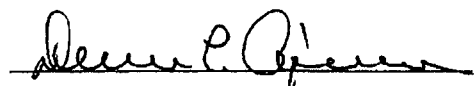
Client:	Williams Production	Project #:	04108-003-3361
Sample ID:	Rosa 19C	Date Reported:	09-11-07
Laboratory Number:	43007	Date Sampled:	09-04-07
Chain of Custody No:	3361	Date Received:	09-07-07
Sample Matrix:	Soil	Date Extracted:	09-10-07
Preservative:	Cool	Date Analyzed:	09-11-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

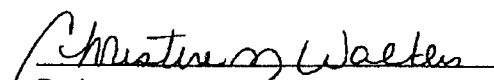
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.5	0.2
Diesel Range (C10 - C28)	9.3	0.1
Total Petroleum Hydrocarbons	9.8	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Reserve Pit Closure**


Analyst


Review

ENVIROTECH LABS

Practical Solutions for a Better Tomorrow

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-11-07 QA/QC	Date Reported:	09-11-07
Laboratory Number:	42982	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-11-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	O-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.9066E+002	9.9106E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.9353E+002	9.9393E+002	0.04%	0 - 15%

Blank Conc (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

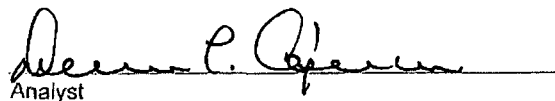
Duplicate Conc (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	45.6	45.4	0.4%	0 - 30%
Diesel Range C10 - C28	933	927	0.6%	0 - 30%

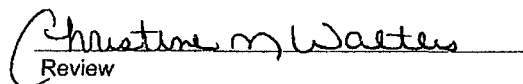
Spike Conc (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	45.6	250	295	99.9%	75 - 125%
Diesel Range C10 - C28	933	250	1,180	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42982 - 42985, 43006 - 43008


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Williams Production	Project #:	04108-003-3361
Sample ID:	Rosa 19C	Date Reported:	09-11-07
Laboratory Number:	43007	Date Sampled:	09-04-07
Chain of Custody:	3361	Date Received:	09-07-07
Sample Matrix:	Soil	Date Analyzed:	09-11-07
Preservative:	Cool	Date Extracted:	09-10-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	8.9	1.0
Ethylbenzene	1.4	1.0
p,m-Xylene	4.5	1.2
o-Xylene	3.0	0.9
Total BTEX	17.8	

ND - Parameter not detected at the stated detection limit.

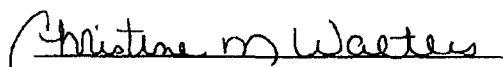
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Reserve Pit Closure


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	09-11-BTEX QA/QC	Date Reported:	09-11-07
Laboratory Number:	42982	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-11-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	G-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	1.2493E+008	1.2518E+008	0.2%	ND	0.1
Toluene	1.0275E+008	1.0295E+008	0.2%	ND	0.1
Ethylbenzene	7.6906E+007	7.7060E+007	0.2%	ND	0.1
p,m-Xylene	1.4716E+008	1.4746E+008	0.2%	ND	0.1
o-Xylene	6.9901E+007	7.0041E+007	0.2%	ND	0.1

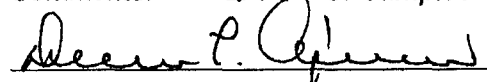
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	5.1	5.1	0.0%	0 - 30%	1.0
p,m-Xylene	102	101	1.0%	0 - 30%	1.2
o-Xylene	28.7	28.6	0.3%	0 - 30%	0.9

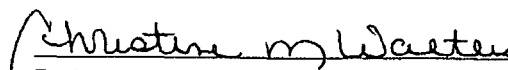
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	5.1	50.0	55.0	99.8%	32 - 160
p,m-Xylene	102	100	201	99.5%	46 - 148
o-Xylene	28.7	50.0	78.5	99.7%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 42982 - 42985, 43006 - 43008


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Williams Production	Project #:	04108-003-3361
Sample ID:	Rosa 19C	Date Reported:	09-11-07
Laboratory Number:	43007	Date Sampled:	09-04-07
Chain of Custody:	3361	Date Received:	09-07-07
Sample Matrix:	Soil	Date Analyzed:	09-11-07
Preservative:	Cool	Date Digested:	09-10-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.137	0.001	5.0
Barium	13.2	0.001	100
Cadmium	0.013	0.001	1.0
Chromium	0.612	0.001	5.0
Lead	0.730	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

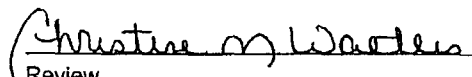
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Reserve Pit Closure**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	09-11 TM QA/AC	Date Reported:	09-11-07
Laboratory Number:	43006	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	09-11-07
Condition:	N/A	Date Digested:	09-10-07

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.008	0.008	0.0%	0% - 30%
Barium	ND	ND	0.001	22.3	22.3	0.0%	0% - 30%
Cadmium	ND	ND	0.001	0.009	0.009	0.0%	0% - 30%
Chromium	ND	ND	0.001	1.37	1.40	2.2%	0% - 30%
Lead	ND	ND	0.001	0.628	0.632	0.6%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

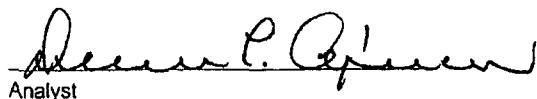
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.008	0.507	99.8%	80% - 120%
Barium	0.500	22.3	22.7	99.6%	80% - 120%
Cadmium	0.500	0.009	0.509	100.0%	80% - 120%
Chromium	0.500	1.37	1.86	99.5%	80% - 120%
Lead	0.500	0.628	1.13	100.2%	80% - 120%
Mercury	0.500	ND	0.498	99.6%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	ND	0.501	100.2%	80% - 120%

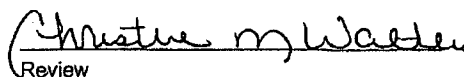
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission
Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 43006 - 43007, 43012 - 43016, 43032


Analyst


Review

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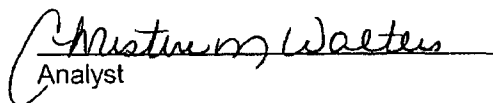
Chloride

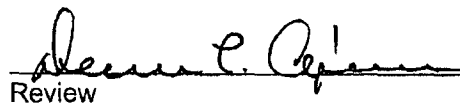
Client:	Williams Production	Project #:	04108-003-3361
Sample ID:	Rosa 19C	Date Reported:	09-11-07
Lab ID#:	43007	Date Sampled:	09-04-07
Sample Matrix:	Soil	Date Received:	09-07-07
Preservative:	Cool	Date Analyzed:	09-11-07
Condition:	Cool and Intact	Chain of Custody:	3361

Parameter	Concentration (mg/Kg)
Total Chloride	116

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Reserve Pit Closure


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Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

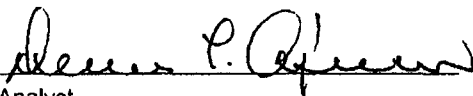
Client:	Williams Prod.	Project #:	04108-003
Sample ID:	Pit Solids	Date Reported:	08-24-07
Laboratory Number:	42823	Date Sampled:	08-09-07
Chain of Custody No:	3272	Date Received:	08-22-07
Sample Matrix:	Soil	Date Extracted:	08-23-07
Preservative:	Cool	Date Analyzed:	08-24-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

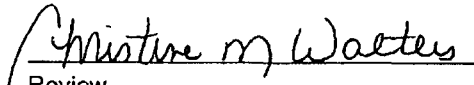
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.5	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.5	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa 271A / Res. Pit


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-24-07 QA/QC	Date Reported:	08-24-07
Laboratory Number:	42799	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-24-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.9304E+002	9.9344E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0067E+003	1.0071E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

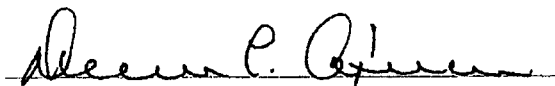
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	0.6	0.6	0.0%	0 - 30%
Diesel Range C10 - C28	27.2	27.1	0.4%	0 - 30%

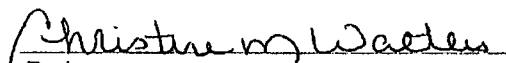
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	0.6	250	250	99.9%	75 - 125%
Diesel Range C10 - C28	27.2	250	277	99.9%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42799, 42804 - 42807, 42810 - 42811, 42823 - 42825


Analyst


Review

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PRactical SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Williams Prod.	Project #:	04108-003
Sample ID:	Pit Solids	Date Reported:	08-24-07
Laboratory Number:	42823	Date Sampled:	08-09-07
Chain of Custody:	3272	Date Received:	08-22-07
Sample Matrix:	Soil	Date Analyzed:	08-24-07
Preservative:	Cool	Date Extracted:	08-23-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1.1	0.9
Toluene	4.2	1.0
Ethylbenzene	1.3	1.0
p,m-Xylene	6.5	1.2
o-Xylene	1.7	0.9
Total BTEX	14.8	

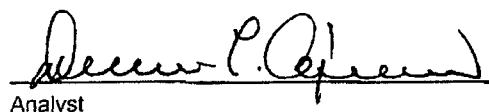
ND - Parameter not detected at the stated detection limit.

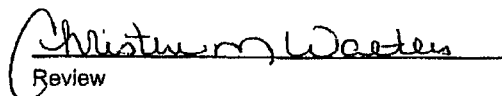
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa 271A / Res. Pit


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-24-BTEX QA/QC	Date Reported:	08-24-07
Laboratory Number:	42804	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-24-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	1.2526E+008	1.2551E+008	0.2%	ND	0.1
Toluene	1.0552E+008	1.0573E+008	0.2%	ND	0.1
Ethylbenzene	7.9793E+007	7.9953E+007	0.2%	ND	0.1
p,m-Xylene	1.5133E+008	1.5164E+008	0.2%	ND	0.1
o-Xylene	7.3108E+007	7.3255E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	1.2	1.2	0.0%	0 - 30%	0.9
Toluene	3.2	3.2	0.0%	0 - 30%	1.0
Ethylbenzene	1.1	1.1	0.0%	0 - 30%	1.0
p,m-Xylene	2.8	2.7	3.6%	0 - 30%	1.2
o-Xylene	1.0	1.0	0.0%	0 - 30%	0.9

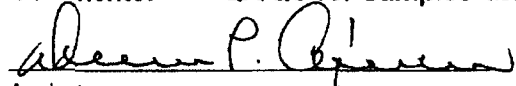
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	1.2	50.0	51.1	99.8%	39 - 150
Toluene	3.2	50.0	53.1	99.8%	46 - 148
Ethylbenzene	1.1	50.0	51.0	99.8%	32 - 160
p,m-Xylene	2.8	100	102	99.6%	46 - 148
o-Xylene	1.0	50.0	50.9	99.8%	46 - 148

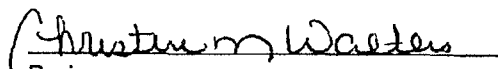
ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 42804 - 42807, 42823 - 42825


Analyst


Review

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TRACE METAL ANALYSIS

Client:	Williams Prod.	Project #:	04108-003
Sample ID:	Pit Solids	Date Reported:	08-24-07
Laboratory Number:	42823	Date Sampled:	08-09-07
Chain of Custody:	3272	Date Received:	08-22-07
Sample Matrix:	Soil	Date Analyzed:	08-24-07
Preservative:	Cool	Date Digested:	08-23-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.015	0.001	5.0
Barium	6.35	0.001	100
Cadmium	0.031	0.001	1.0
Chromium	0.661	0.001	5.0
Lead	0.786	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

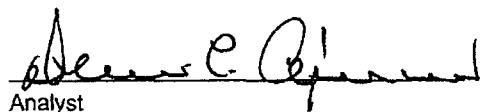
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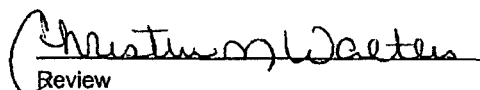
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission
Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: Rosa 271A / Res. Pit


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	08-24 TM QA/AC	Date Reported:	08-24-07
Laboratory Number:	40823	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	08-24-07
Condition:	N/A	Date Digested:	08-23-07

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.015	0.015	0.0%	0% - 30%
Barium	ND	ND	0.001	6.35	6.32	0.5%	0% - 30%
Cadmium	ND	ND	0.001	0.031	0.031	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.661	0.658	0.5%	0% - 30%
Lead	ND	ND	0.001	0.786	0.783	0.4%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

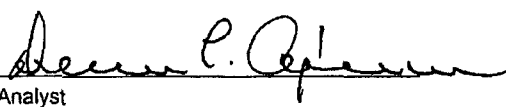
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.015	0.514	99.8%	80% - 120%
Barium	0.500	6.35	6.83	99.7%	80% - 120%
Cadmium	0.500	0.031	0.530	99.8%	80% - 120%
Chromium	0.500	0.661	1.16	99.9%	80% - 120%
Lead	0.500	0.786	1.29	100.3%	80% - 120%
Mercury	0.500	ND	0.498	99.6%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	ND	0.500	100.0%	80% - 120%

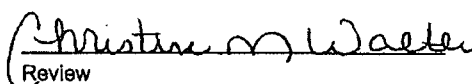
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission
Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42823 - 42824, 42833


Analyst


Review

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Chloride

Client:	Williams Prod.	Project #:	04108-003
Sample ID:	Pit Solids	Date Reported:	08-24-07
Lab ID#:	42823	Date Sampled:	08-09-07
Sample Matrix:	Soil	Date Received:	08-22-07
Preservative:	Cool	Date Analyzed:	08-24-07
Condition:	Cool and Intact	Chain of Custody:	3272

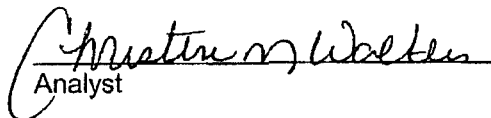
Parameter	Concentration (mg/Kg)
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Total Chloride

130

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Rosa 271A / Res. Pit


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3272

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

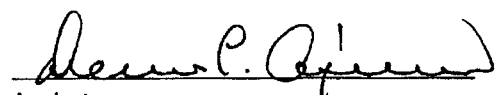
Client:	Williams Prod.	Project #:	04108-003
Sample ID:	Pit Solids	Date Reported:	08-24-07
Laboratory Number:	42824	Date Sampled:	08-16-07
Chain of Custody No:	3273	Date Received:	08-22-07
Sample Matrix:	Soil	Date Extracted:	08-23-07
Preservative:	Cool	Date Analyzed:	08-24-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

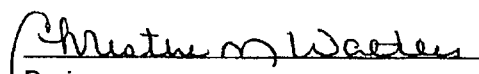
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	37.6	0.2
Diesel Range (C10 - C28)	29.4	0.1
Total Petroleum Hydrocarbons	67.0	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa 63A - Res. Pit


Analyst


Review

ENVIROTECH LABS

REACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-24-07 QA/QC	Date Reported:	08-24-07
Laboratory Number:	42799	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-24-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.9304E+002	9.9344E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0067E+003	1.0071E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

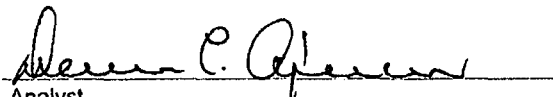
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	0.6	0.6	0.0%	0 - 30%
Diesel Range C10 - C28	27.2	27.1	0.4%	0 - 30%

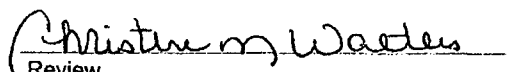
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	0.6	250	250	99.9%	75 - 125%
Diesel Range C10 - C28	27.2	250	277	99.9%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42799, 42804 - 42807, 42810 - 42811, 42823 - 42825


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PRactical SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Williams Prod.	Project #:	04108-003
Sample ID:	Pit Solids	Date Reported:	08-24-07
Laboratory Number:	42824	Date Sampled:	08-16-07
Chain of Custody:	3273	Date Received:	08-22-07
Sample Matrix:	Soil	Date Analyzed:	08-24-07
Preservative:	Cool	Date Extracted:	08-23-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	117	0.9
Toluene	383	1.0
Ethylbenzene	39.7	1.0
p,m-Xylene	472	1.2
o-Xylene	93.2	0.9
Total BTEX	1,100	

ND - Parameter not detected at the stated detection limit.

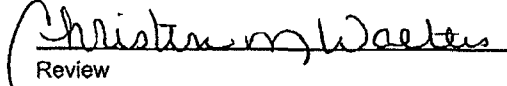
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa 63A - Res. Pit


Analyst


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-24-BTEX QA/QC	Date Reported:	08-24-07
Laboratory Number:	42804	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-24-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc.	Detect Limit
		Accept: Range 0 - 15%			
Benzene	1.2526E+008	1.2551E+008	0.2%	ND	0.1
Toluene	1.0552E+008	1.0573E+008	0.2%	ND	0.1
Ethylbenzene	7.9793E+007	7.9953E+007	0.2%	ND	0.1
p,m-Xylene	1.5133E+008	1.5164E+008	0.2%	ND	0.1
o-Xylene	7.3108E+007	7.3255E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	1.2	1.2	0.0%	0 - 30%	0.9
Toluene	3.2	3.2	0.0%	0 - 30%	1.0
Ethylbenzene	1.1	1.1	0.0%	0 - 30%	1.0
p,m-Xylene	2.8	2.7	3.6%	0 - 30%	1.2
o-Xylene	1.0	1.0	0.0%	0 - 30%	0.9

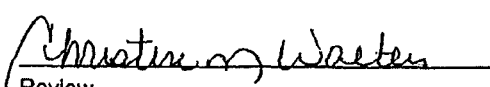
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	1.2	50.0	51.1	99.8%	39 - 150
Toluene	3.2	50.0	53.1	99.8%	46 - 148
Ethylbenzene	1.1	50.0	51.0	99.8%	32 - 160
p,m-Xylene	2.8	100	102	99.6%	46 - 148
o-Xylene	1.0	50.0	50.9	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 42804 - 42807, 42823 - 42825


Analyst


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Williams Prod.	Project #:	04108-003
Sample ID:	Pit Solids	Date Reported:	08-24-07
Laboratory Number:	42824	Date Sampled:	08-16-07
Chain of Custody:	3273	Date Received:	08-22-07
Sample Matrix:	Soil	Date Analyzed:	08-24-07
Preservative:	Cool	Date Digested:	08-23-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.046	0.001	5.0
Barium	99.0	0.001	100
Cadmium	0.011	0.001	1.0
Chromium	0.830	0.001	5.0
Lead	0.703	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

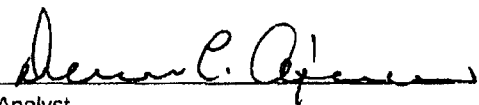
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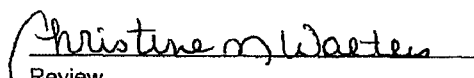
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: Rosa 63A - Res. Pit


Analyst


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Practical Solutions for a Better Tomorrow

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	08-24 TM QA/QC	Date Reported:	08-24-07
Laboratory Number:	40823	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	08-24-07
Condition:	N/A	Date Digested:	08-23-07

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.015	0.015	0.0%	0% - 30%
Barium	ND	ND	0.001	6.35	6.32	0.5%	0% - 30%
Cadmium	ND	ND	0.001	0.031	0.031	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.661	0.658	0.5%	0% - 30%
Lead	ND	ND	0.001	0.786	0.783	0.4%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.015	0.514	99.8%	80% - 120%
Barium	0.500	6.35	6.83	99.7%	80% - 120%
Cadmium	0.500	0.031	0.530	99.8%	80% - 120%
Chromium	0.500	0.661	1.16	99.9%	80% - 120%
Lead	0.500	0.786	1.29	100.3%	80% - 120%
Mercury	0.500	ND	0.498	99.6%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	ND	0.500	100.0%	80% - 120%

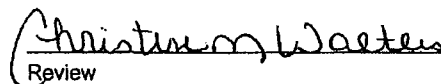
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission
Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 42823 - 42824, 42833


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Williams Prod.	Project #:	04108-003
Sample ID:	Pit Solids	Date Reported:	08-24-07
Lab ID#:	42824	Date Sampled:	08-16-07
Sample Matrix:	Soil	Date Received:	08-22-07
Preservative:	Cool	Date Analyzed:	08-24-07
Condition:	Cool and Intact	Chain of Custody:	3273

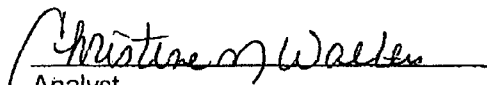
Parameter	Concentration (mg/Kg)
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Total Chloride

898

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Rosa 63A - Res. Pit


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3273

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