SITE INFORMATION

	Re	eport Type:	Closure I	Report 1R	P-1518		
General Site In	formation:			•			
Site:		Wyatt A Feder	ral				
Company:		ConocoPhillip)S				
	ship and Range	Unit Letter E	Sec. 33	T 17 S	R 33 E		
Lease Number	:	Associated A	PI No. N/A				
County:		Lea					
GPS:			32.794661°			-103.6742	247°
Surface Owner		Private					
Mineral Owner Directions:		BLM					east) onto Mescale
		left (northeast) for	0.2 miles. Turn rig	ght (south) onto pr	oduction road fo	or 400 feet.	
Release Data:		7/20/2007					
Date Released:		7/29/2007 Oil					
Date Released: Type Release:	amination:	Oil	ank				
Date Released: Type Release: Source of Conta		Oil 300 bbl steel ta	ank				
Date Released: Type Release: Source of Conta Fluid Released:		Oil	ank				
Date Released: Type Release: Source of Conta Fluid Released: Fluids Recovere	ed:	Oil 300 bbl steel ta 21 bbls	ank				
Date Released: Type Release: Source of Conta Fluid Released: Fluids Recovere Official Comm	ed:	Oil 300 bbl steel ta 21 bbls	ank				
Date Released: Type Release: Source of Conta Fluid Released: Fluids Recovere Official Comm	ed:	Oil 300 bbl steel ta 21 bbls	ank		Christian M.	Llull	
Date Released: Type Release: Source of Conta Fluid Released: Fluids Recovere Official Comm Name:	ed: unication:	Oil 300 bbl steel ta 21 bbls 4 bbls	ank		Christian M. Tetra Tech	Llull	
Date Released: Type Release: Source of Conta Fluid Released: Fluids Recovere Official Comm Name: Company:	ed: unication: Marvin Soriwei	Oil 300 bbl steel ta 21 bbls 4 bbls	ank		Tetra Tech	Llull Capital of Tex	as Highway
Date Released: Type Release: Source of Conta Fluid Released: Fluids Recovere Official Comm Name: Company:	ed: unication: Marvin Soriwei Conoco Phillips -	Oil 300 bbl steel ta 21 bbls 4 bbls	ank		Tetra Tech	Capital of Tex	xas Highway
Date Released: Type Release: Source of Conta Fluid Released: Fluids Recovere Official Comm Name: Company: Address:	ed: unication: Marvin Soriwei Conoco Phillips -	Oil 300 bbl steel ta 21 bbls 4 bbls RMR kwy.	ank		Tetra Tech 8911 North	Capital of Tex Suite 2310	as Highway
Date Released: Type Release: Source of Conta Fluid Released: Fluids Recovere Official Comm Name: Company: Address: City:	ed: unication: Marvin Soriwei Conoco Phillips - 935 N. Eldridge P Houston, Texas 7	Oil 300 bbl steel ta 21 bbls 4 bbls RMR kwy.	ank		Tetra Tech 8911 North Building 2, S Austin, Texa	Capital of Tex Suite 2310 as	as Highway
Date Released: Type Release:	ed: unication: Marvin Soriwei Conoco Phillips - 935 N. Eldridge P	Oil 300 bbl steel ta 21 bbls 4 bbls RMR kwy.	ank		Tetra Tech 8911 North (Building 2, S	Capital of Tex Suite 2310 as	xas Highway

Site Characterization	
Shallowest Depth to Groundwater:	165' below surface
Impact to groundwater or surface water:	No
Extents within 300 feet of a watercourse:	No
Extents within 200 feet of lakebed, sinkhole, or playa la	No
Extents within 300 feet of an occupied structure:	No
Extents within 500 horizontal feet of a private water well	No
Extents within 1000 feet of any water well or spring:	No
Extents within incorporated municipal well field:	No
Extents within 300 feet of a wetland:	No
Extents overlying a subsurface mine:	No
Karst Potential:	Low
Extents within a 100-year floodplain:	No
Impact to areas not on a production site:	No

Recommended Remedial Action Levels (RRALs)								
Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides				
10 mg/kg	50 mg/kg	N/A	2500 mg/kg	20,000 mg/kg				



February 12, 2021

District Supervisor Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico 88240

Re: Closure Request ConocoPhillips 1RP-1518 Wyatt A Federal Battery Release PLSS Unit Letter E, Section 33, Township 17 South, and Range 33 East Lea County, New Mexico 1RP-1518 Incident ID nPAC0722530906

Sir or Madam:

On behalf of ConocoPhillips (COP), Tetra Tech, Inc. (Tetra Tech) submits the following Closure Report for review. The COP Wyatt A Federal Battery Release area (Site) is located approximately 6.7 miles southeast of Maljamar in Lea County, New Mexico. The Site coordinates are 32.794661°, -103.674247°, located in the Public Land Survey System (PLSS) Unit Letter E, Section 33, Township 17 South, and Range 33 East. The Site location is shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), on July 29, 2007 a release of 21 barrels (bbls) of oil occurred from a hole at the bottom of a 300-bbl steel tank at the Wyatt A Federal Battery. The affected area was reported as 10-feet (ft) by 1,100-ft of prepared location pad and roadway. Figure 3 depicts the footprint of the initial release. During initial response activities, a vacuum truck recovered approximately 4 bbls of the released fluids. Notice was given to the New Mexico Oil Conservation Division (NMOCD) on July 29, 2007. The NMOCD approved the initial C-141 on August 3, 2007 and assigned the release the Remediation Permit (RP) number 1RP-1518. Incident ID nPAC0722530906 was assigned to this release. The 1RP-1518 release is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD signed on May 7 and 9, 2019, respectively.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, lakebeds, playa lakes, sinkholes, residences, schools, hospitals, institutions, churches, springs, public or private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The Site is located in a low karst potential area.

According to the New Mexico Office of the State Engineer (NMOSE) reporting system, there are no water wells within 800 meters (approximately ½ mile) of the Site. The search radius was expanded and two (2) water wells were located within 1,600 meters (approximately 1 mile) of the release location. The average depth to groundwater is 165 ft below ground surface (bgs). The site characterization data is shown in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

Constituent	Remediation RRAL					
Chloride	20,000 mg/kg					
TPH	2,500 mg/kg					
BTEX	50 mg/kg					

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC) (September 6, 2019), the following reclamation RRALs for surface soils (0-4 ft bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation RRAL
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

SITE ASSESSMENT ACTIVITIES

Tetra Tech was contacted to assess the release site footprint on behalf of COP in 2007. A Work Plan to perform a subsurface investigation at the Site (dated August 10, 2007) was prepared by Tetra Tech on behalf of COP and submitted to the NMOCD (Appendix C). This Work Plan is found in the NMOCD imaging database for the 1RP-1518 release. Tetra Tech commenced site assessment activities on September 20, 2007. In accordance with activities proposed in the Work Plan, Tetra Tech excavated six (6) exploratory trenches (T-1 through T-6) within the release extent to achieve vertical and horizontal delineation of the release. The approximate release footprint is shown in Figure 3.

During the assessment activities, three (3) 15-ft-long trenches were excavated in the release extent across the impacted road area (T-1, T-2, and T-3). Two (2) trenches were excavated on the back side of the battery (T-4 and T-5), and one (1) trench was excavated adjacent to the leaking tank location (T-6). Soil samples were collected every 5 feet from three (3) locations (clean left, affected area, clean right) in each of the three trenches excavated across the road. Soil samples collected from the trenches were field tested using salinity and electrical conductivity (EC) field screening techniques to achieve vertical and horizontal delineation of the release.

Six (6) soil samples from each road trench (T-1, T-2, T-3) and two (2) soil samples from each trench in and around the battery (T-4, T-5, T-6) were collected for laboratory analysis. The sampling interval was based on EC field screening, and on the judgment of the field personnel. The soil sample with the highest EC measurement and the sample from the excavation total depth were retained for laboratory analysis.

A total of twenty-four (24) samples were collected from the six (6) trenches and submitted to TestAmerica Laboratories, Inc in Houston Texas, where they were analyzed for chloride (USEPA Method 300.0A), electrical conductivity (Standard Method 2510B SW-846 Method 9050A), diesel and gasoline range hydrocarbons (TPH_{DRO} and TPH_{GRO}, Method 8015) and BTEX (Method 8260). In addition, one (1) basal sample for the trench inside the bermed catch basin was analyzed for BTEX and chloride synthetic precipitation leaching potential (SPLP_{BTEX} and SPLP_{CI}; USEPA Method 1312/8015 & 300.0A, respectively). Site assessment activities and results were documented by Tetra Tech in a Findings Report dated

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November 28, 2007 (Appendix E). Copies of laboratory analysis and chain-of-custody documentation are included in Appendix A of the Findings Report. The results of the 2007 assessment sampling events are summarized in Table 1. The exploratory trench locations are shown in Figure 4. Photographic documentation of the release footprint and investigation activities is presented in Appendix D.

Email correspondence records (Appendix F) indicate that the November 28, 2007 Findings Report was submitted to the NMOCD and the Bureau of Land Management (BLM) for approval. The Findings Report presented the data collected and concluded with recommendations for remedial actions at the Wyatt A Federal Battery Release area. The analytical results associated with the assessment were above the RRAL for TPH (100 mg/kg). The remedial action proposed within the Findings Report consisted of excavation and removal of the impacted soils to depths of 3 to 4 ft bgs. Post-excavation, a liner was proposed for the remaining impacted soils in the T-3/battery area. The BLM and the NMOCD approved the proposed remedial work plan in email correspondence with Tetra Tech, dated December 3 and December 4, 2007, respectively (Appendix F).

REMEDIAL ACTIVITIES

In accordance with the proposed remedial work plan in the approved Findings Report, Tetra Tech personnel began remedial activities at the site in April 2008 on behalf of COP. From April to May 2008, Tetra Tech personnel were onsite to supervise the remediation activities at the Site, including excavation, disposal and confirmation sampling. The remedial activities and confirmation sampling results were documented in a Request for Closure report, dated September 5, 2008 (Appendix G). It is unclear whether this Closure Request was officially submitted to the NMOCD and the BLM.

As documented in the Request for Closure Report, the release extent was subdivided into 19 individual sample cells (C-1 through C-19). Soils were excavated to depths of approximately 3 to 4 ft bgs near the battery (sample cells C-1, C-2, C-3), and soils along the road (sample cells C-4 through C-19) were excavated to depths of 5 to 10 ft bgs. Random screening occurred every 50 ft using a PID, PetroFlag-TPH, and chloride field screening to determine that remediation levels have been achieved (PID reading <10 ppm, chloride titration <500 ppm). Confirmation sampling cell locations are shown in Figure 5. Excavated material was hauled to a NMOCD-approved facility for disposal. The excavated areas were backfilled with clean soil.

A total of fifty-five (55) samples were collected from the nineteen (19) sample cells, and submitted to SPL, Inc. in Houston Texas, where they were analyzed for chloride (USEPA Method 300.0A), electrical conductivity (Standard Method 2510B SW-846 Method 9050A), diesel and gasoline range hydrocarbons (TPH_{DRO} and TPH_{GRO}, Method 8015) and BTEX (Method 8260). Copies of laboratory analysis and chain-of-custody documentation are included in the Appendix to the Request for Closure report (Appendix G). The results of the 2008 confirmation sampling events are summarized in Table 2. Through review of available data, a final signed C-141 was located, however, there was no additional correspondence between NMOCD and Tetra Tech indicating that the Final C-141 was submitted and/or approved by NMOCD.

LINER INSTALLATION

Analytical results associated with confirmation cell locations C-1 through C-3 were elevated for chlorides. To mitigate the effects of this residual contamination, a 1-ft deep anchor trench was constructed around the inside perimeter of the excavation and a 40-mil medium density polyethylene geo-membrane was installed. The membrane was cut to fit into the perimeter trench and native soil was backfilled around the perimeter to hold the geo-membrane in-place. Native soil was backfilled over the membrane to meet surrounding surface grade. Four (4) carsonite markers were set at the corners of the remediation area notifying interested parties that a subsurface structure was in-place. The inscription on each marker reads "CAUTION, SUBSURFACE STRUCTURE, Call Before Digging, MCA Unit 575-393-0130." Photos of remedial activities are shown in Appendix D.

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RECLAMATION AND REVEGETATION

From review of recent aerial photography (2017), it appears that the formerly impacted off-pad surface areas were restored to the conditions that existed prior to the release in accordance with 19.15.29.13 NMAC. The existing caliche pad and lease road areas remain unvegetated by design, as they are needed for production operations.

CONCLUSION

COP respectfully requests closure of this release based on the remediation activities performed and confirmation sampling results. The final C-141 form is enclosed in Appendix A. If you have any questions concerning the soil assessment or the remediation activities for the Site, please call me at (512) 338-2861 or Greg at (432) 682-4559.

Sincerely, Tetra Tech, Inc.

Christian M. Llull, P.G. Project Manager

E.

Greg W. Pope, P.G. Program Manager

cc: Mr. Marvin Soriwei, RMR – ConocoPhillips Mr. Charles Beauvais, GPBU – ConocoPhillips Closure Letter Report February 12, 2021

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

Figure 1 – Site Map

Figure 2 – Topographic Map

Figure 3 – Approximate Release Extent

Figure 4 – Site Assessment

Figure 5 – Approximate Remediation Extent and Confirmation Sampling Cell Locations

Tables:

Table 1 – Summary of Analytical Results – Initial Soil Assessment

Table 2 - Summary of Analytical Results - Confirmation Sampling

Appendices:

Appendix A – C-141 Forms

Appendix B – Site Characterization Data

Appendix C – Work Plan (Tetra Tech, August 10, 2007)

Appendix D – Photographic Documentation

Appendix E – Findings Report (Tetra Tech, November 26, 2007)

Appendix F – Email Correspondence

Appendix G – Closure Report (Tetra Tech, September 8, 2008)

FIGURES



Released to Imaging: 1/26/2022 11:49:49 AM



Released to Imaging: 1/26/2022 11:49:49 AM



Released to Imaging: 1/26/2022 11:49:49 AM



Released to Imaging: 1/26/2022 11:49:49 AM



TABLES

TABLE 1 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT - 1RP-1518 CONOCOPHILLIPS WYATT A FEDERAL LEA COUNTY, NM

		Sample Depth	EC Field Screening										BTEX ⁴								SPLP BTEX ⁵					TPH ⁶					
Sample ID	Sample Date	Interval	Results	Specific Conducti	ivity1	Chloride ²	SPLP	Chloride ³	Benzene		Toluene	1	Ethylbenzene	Total Xylenes		Total BTEX	Benzene		Toluene		Ethylbenzene		Total Xylen	es	Total SPLP BTEX	GRO		DRO	Total TPH (GRO+DRO)		
		ft. bgs	μS/cm	µmhos/cm	Q	mg/kg Q	mg	g/L Q	mg/kg	Q	mg/kg Q	۱.	mg/kg Q	mg/kg	Q	mg/kg	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	mg/kg	Q	mg/kg C	t mg/kg		
T-1A	9/20/2007	0-0.5	185	340		18.4	-		< 0.005		< 0.005		0.00697	< 0.015		0.00697	-						-		-	1.73		12	13.73		
A1-1	9/20/2007	5	432	639		134	6.	1	< 0.005		< 0.005		< 0.005	< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		24	24		
T-1B	9/20/2007	0-0.5	225	254		18.2	-		< 0.020		3.57		14.4	24		42.0					-		-		-	927		19000	19927		
1-18	5/20/2007	5	428	721		149	5.7	79	< 0.005		< 0.005		< 0.005	< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		< 8.3	-		
T-1C	9/20/2007	0-0.5	106	140		8.33	-		< 0.005		< 0.005		< 0.005	< 0.015		-	-						-		-	1.13		< 8.3	1.13		
1-1C	9/20/2007	5	133	319		27.5	2.0	03	< 0.005		< 0.005		< 0.005	< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		110	110		
		0-0.5	952	154		7.73	-		< 0.005		< 0.005		< 0.005	< 0.015		-		1 1			-	1	-		-	< 1.0		19	19		
T-2A	9/20/2007	5	560	1450		275	11	.3	< 0.005		< 0.005		< 0.005	< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		< 8.3	-		
		0-0.5	111	186		10.2	-		< 0.005		0.00717		0.0099	0.0199		0.0370	-				-		-		-	40.1		4000	4040		
T-2B	9/20/2007	5	743	1460		221	9.6	56	< 0.005		< 0.005		< 0.005	< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		13	13		
T-2C	9/20/2007	0-0.5	61	116		7.54	-		< 0.005		< 0.005		< 0.005	< 0.015		-					-		-		-	< 1.0		260	260		
1-2C	9/20/2007	5	302	762		67.9	3.2	28	< 0.005		< 0.005		< 0.005	< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		< 8.3	-		
		0-0.5	239	492		29.2	-		< 0.005		< 0.005		< 0.005	< 0.015		-					-		-		-	< 1.0		1400	1400		
T-3A	9/20/2007	5	3817	8980		3750	15	6	< 0.005		< 0.005		< 0.005	< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		600	600		
		10	189	1030		152	5.3	31	< 0.020		2.62		14.1	26.4		43.1	< 0.005		0.0111		0.0327		0.0651		0.109	714		15000	15714		
T-3B	9/20/2007	14	1925	4780		1570	75	.8	< 0.005		< 0.005		< 0.005	< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		31	31		
		0-0.5	78	194		9.30	-		< 0.005		< 0.005		< 0.005	< 0.015		-	-				-		-		-	< 1.0		12	12		
T-3C	9/20/2007	5	1127	4050		1510	59	.5	< 0.005		< 0.005		< 0.005	< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		< 8.3	-		
		0-5	-	2890		285	1 -		< 0.020	Τ	11.3		49.9	89.4	Т	151					-				-	1800		27000	28800		
T-4	9/20/2007	14	1235	4390		1310	56	.3	< 0.005		< 0.005		< 0.005	0.0488		0.0488	< 0.005		< 0.005		< 0.005		0.0256		0.0256	757		6500	7257		
		0-5	161	462		58.8	-		< 0.005	T	< 0.005	T	< 0.005	< 0.015	Ť	-	< 0.005		< 0.005		< 0.005		< 0.015	1	-	3.53	1	540	544		
T-5	9/20/2007	5	1202	3250		1110	47	.4	< 0.005		< 0.005	_	< 0.005	< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		< 8.3	-		
		0-5		2300		726	İ.	. 1	0.481	Ť	8.88	Ť	13	36.2	Ť	58.6								1		1120	Ì	11000	12120		
T-6	9/20/2007	10		1890		491	21	9	< 0.005		< 0.005		< 0.005	< 0.015	-	-	< 0.005		< 0.005		< 0.005		< 0.015	-	-	< 1.0	_	63	63		
	l	10	-	1090		774	21		- 0.003		- 0.003	1	- 0.005	- 0.015			- 0.003	1	- 0.003		- 0.003		- 0.013	1		< 1.0			- 33		

NOTES:

Feet ft.

bgs Below ground surface

μS/cm MicroSiemens per centimeter

µmhos/cm MicroOhms per centimeter

mg/kg Milligrams per kilogram

mg/L Milligrams per liter EC Electrical conductivity

SPLP Synthetic precipitation leaching procedure 1 EPA Method 120.1

2 SW-846 Method 9056 3 EPA Method 300.0 REV2

4, 5 SW-846 Method 8260B

6 SW-846 Method 8015B

Total petroleum hydrocarbons

TPH Total petroleum hydrocar GRO Gasoline range organics

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TABLE 2 SUMMARY OF ANALYTICAL RESULTS SOIL REMEDIATION - 1RP-1518 CONOCOPHILLIPS WYATT A FEDERAL LEA COUNTY, NM

								BTEX				SPLP BTEX ⁴							TPH ⁶			
			Chloride ¹	SPLP Chloride ²								-							GRO	DRO	Total TPH	
Sample ID	Sample Date	Sample Location			Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes	Total BTEX	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes	SPLP Total BTEX	C ₆ - C ₁₀	C10 - C28	(GRO+DRO)	
			mg/kg Q	mg/kg Q	mg/kg Q	mg/kg	Q mg/kg	Q mg/kg Q	mg/kg	Q mg/kg Q	mg/kg	mg/kg Q	mg/kg Q	mg/kg	Q mg/kg	Q mg/kg	Q mg/kg	Q mg/kg	mg/kg Q	1 mg/kg C	l mg/kg	
C1	4/22/2008	SW-N	< 5.00	-	< 0.0010	< 0.0020	< 0.0010	< 0.0020	< 0.0010	-		-	-	-	-		-	-	< 15.5	< 15.5	-	
C2	4/30/2008	SW-N	92.6	-	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056		-	-	-	-	-	-	-	< 0.11	< 5.6	-	
	4/30/2008	SW-N	145	-	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053		-		-	-	-			< 0.1	< 5.2	-	
C3	4/24/2008	SW-S-3	223	-	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	-	-	-	-	-		-	-	< 0.11	< 5.3	-	
	4/22/2008	BOT - 25'	445	-	< 0.0010	< 0.0020	< 0.0010	< 0.0020	< 0.0010						-		-		< 15.8	< 15.8		
	4/28/2008	SW-N	159	-	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	-	-	-	-	-		-	-	< 0.11	15	15	
C4	4/28/2008	SW-S	29.7	-	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051		-	-	-	-		-		< 0.1	< 5.1	-	
	4/23/2008	BOT - 14'	82	2.62	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.11	< 5.4	-	
	4/28/2008	SW-N	11.4	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			-	-	-		-		< 0.1	< 5.0	-	
CS	4/28/2008	SW-S	199	-	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	-	-	-	-	-		-	-	< 0.11	< 5.3	-	
	4/30/2008	BOT - 14'	121	7.18	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.1	5.9	5.9	
	4/28/2008	SW-N	186	-	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	-	-		-	-	-	-	-	< 0.1	6.5	6.5	
C6	4/28/2008	SW-S	229		< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	-	-	-	-	-		-	-	< 0.11	< 5.3	-	
	4/28/2008	BOT - 12'	80.8	3.23	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.11	< 5.3	-	
	4/28/2008	SW-N	187	-	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	-	-	-	-	-		-	-	< 0.11	< 5.3	-	
C7	4/28/2008	SW-S	236 133	6.14	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	-	-	-	-	-	-	-	-	< 0.11	< 5.3 5.5	<u> </u>	
	4/28/2008	BOT - 10'		0.14	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	-	< 0.0050	0.0050	< 0.0050	0.020	0.015	0.035	0.075	< 0.1		5.5	
C8	4/28/2008	SW-N SW-S	155	-	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	-	-	-	-	-		-	-	< 0.1	< 5.2		
CS	4/28/2008	SW-S BOT - 9'	35.5 89.6	3.38	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		< 0.1	< 5.2	-	
				3.30								0.0030	0.0030	0.0030	0.0030	0.0030	< 0.0030	-				
C9	4/29/2008 4/29/2008	SW-N SW-S	128		< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053		-	-		-		-		< 0.11	< 5.3	-	
G	4/29/2008	BOT - 8'	198	593	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.1	< 5.2		
	4/29/2008	SW-N	16		< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057									< 0.11	< 5.6		
C10	4/29/2008	SW-N	171		< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053								-	< 0.1	< 5.2		
	4/29/2008	BOT - 8'	198	63.6	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.1	< 5.2		
	4/29/2008	SW-N	144	-	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	-	-	-	-	-		-		< 0.1	< 5.2	-	
C11	4/29/2008	SW-S	163	-	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	-	-	-	-	-	-	-	-	< 0.1	< 5.2	-	
	4/29/2008	BOT - 9'	242	60.9	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		< 0.1	< 5.2	-	
	4/29/2008	SW-N	125	-	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		-	-		-			-	< 0.1	< 5.2	-	
C12	4/29/2008	SW-S	205	-	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	-	-	-	-	-		-	-	< 0.1	< 5.2	-	
	4/29/2008	BOT - 9'	128	6.51	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.1	16	16	
	4/30/2008	SW-N	72.5	-	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051			-	-	-		-		< 0.1	< 5.2	-	
C13	4/30/2008	SW-S	115	-	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051		-	-	-	-		-		< 0.1	9.2	9.2	
	5/1/2008	BOT - 12'	49.3	23	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.1	< 5.2	-	
	5/1/2008	SW-N	76.2	-	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	-	-	-	· ·	-	-	-	-	< 0.1	< 5.2	-	
C14	5/1/2008 5/1/2008	SW-S BOT - 8'	< 6.22 46.2	2.93	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	-	- < 0.0050	- < 0.0050	- < 0.0050	- < 0.0050	- < 0.0050	- < 0.0050	-	< 0.12	< 6.2	<u> </u>	
											-	< 0.0050		< 0.0050	< 0.0050	< 0.0050	< 0.0050				<u> </u>	
C15	5/1/2008	SW-N	< 5.14		< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	-	-	-		-		-	-	< 0.1	< 5.2		
C15	5/1/2008 5/1/2008	SW-S BOT - 8'	< 5.14 27.2	1.7	< 0.0051	< 0.0051	< 0.0051 < 0.0051	< 0.0051	< 0.0051	< 0.0051	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		< 0.1	< 5.1	+	
	5/2/2008	SW-N	5.31	4.7	< 0.0051	< 0.0052	< 0.0051	< 0.0052	< 0.0052	< 0.0052	,	0.0030	0.0030	. 0.0030	- 0.0030	- 0.0030	. 0.0050		< 0.1	< 5.1	+	
C16	5/2/2008	SW-N SW-S	27.3		< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	-	-						+ :	< 0.1	< 5.1	+	
	5/2/2008	BOT - 8'	94.3	6.78	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.13	< 6.4		
	5/2/2008	SW-N	32.9		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-								< 0.1	< 5.1	<u>+</u>	
C17	5/2/2008	SW-N SW-S	5.27		< 0.0050	< 0.0050	< 0.0050	< 0.0052	< 0.0050	< 0.0050	-								< 0.1	< 5.1		
	5/2/2008	BOT - 6'	149	45.3	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.11	< 5.4	-	
	5/2/2008	SW-N	27.3	-	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	-	-	-		-		-		< 0.11	< 5.5	-	
C18	5/2/2008	SW-S	46.4	-	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	-	-	-		-		-	-	< 0.11	< 5.3	-	
	5/2/2008	BOT - 6'	< 5.11	< 0.5	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		< 0.1	< 5.1	-	
	5/2/2008	SW-N	31	I	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	-	-	-		1	1 - 1			< 0.11	< 5.6	-	
C19	5/2/2008	SW-S-5	36.4	-	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	-	-	-		-	-	-	-	< 0.1	< 5.2	-	
	5/2/2008	SW-W	14	-	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	-	-	-	· ·	-		-	-	< 0.11	< 5.6	· · ·	
	5/2/2008	BOT - 5'	< 5.18	8.82	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.1	< 5.2	-	

1 EPA Method 300.0 MOD

2 SW-846 Method 9056

5/2/2008 SV[25] State Selever Seleve 3,4 SW-846 Method 82608 5 SW-846 Method 80158

SW-W Sidewall-west

BOT Bottom of excavation

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APPENDIX A C-141 Forms

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District I 1625 N. French District II	5 N. French Dr., Hobbs, NM 88240						ico I Resources		Form C-141 Revised October 10, 2003				
1301 W. Grand A District III	Avenue, Arte	esia, NM 88210				ervation Div				Submit 2 C			
1000 Rio Brazos District IV						th St. Franc				District (wi	th Rule 116	on back	
1220 S. St. Franc	cis Dr., Santa	a Fe, NM 87505		ويتقصر وينهدون المتعرفين كالتقاف والبارية المراج		Fe, NM 875	المسيني كالشافية فبتراف والمتعاد				sid	e of form	
			Rele	ease Notifica	atio	on and Co	orrective A	ction	\frown		\		
N		DL			OF	PERATOR			🛛 Initia	al Report	Fin	al Report	
Name of Co				any nd, TX 79705-54	106		ickey Garner No. 505.391.3	158	<u> </u>		/		
Facility Nan			, 11101A	nu, 17 77705-5-	100		be Oil and Ga						
Surface Ow	ner State	of New Me	xico	Mineral O	wner	BLM			Lease No	NM1085	07		
				LOCA	TIC	ON OF RE	LEASE						
Unit Letter E	Section 33	Township 17S	Range 33E			th/South Line	Feet from the	East/V	Vest Line	County Lea			
L	ll		L	atitude N 32.79	480	Longit	ude W 103.67	433			· ····		
						E OF REL		100					
Type of Relea	ase			INAL	Vo	lume of Releas	e		Volume R]	
Crude Oil		an de l'an an a			1	bbl (21oil, 0w	***************************************		(4oil, 0wa				
Source of Rel 300 bbl Ste						te and Hour of 29-2007 02:00	Occurrence		Date and 7-29-2007	Hour of Dis 7 07:30	covery		
Was Immedia		Given? (es □ No	M Not	Required		YES, To Whon t Richards N		a-w	<u> </u>				
By Whom?						Pat Richards NMOCD Date and Hour 7-29-2007 17:52							
Was a Watero		ched?	Yes 🗵	1 No	If Y	YES, Volume I	mpacting the Wat	ercourse		<u>,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			
If a Watercou	rse was Im			-		N/A							
N/A	ise was mij	puotou, isoser	loo r uny.										
Describe Cau							······				•···-,		
The source	of dischar	rge was a ho	de in the	bottom of a 300) bbl	l steel tank. A	vacuum trucl	k was ca	alled out 1	to pick up	free liqui	ds.	
Describe Area							adama Na ua			ated The			
				n of prepared lo with NMOCD			oadway. No ve	getatio	n was alle	ected. 1 ne	area wili	De	
				e is true and comple									
				nd/or file certain re ce of a C-141 repor									
should their o	perations h	ave failed to a	dequately	investigate and re	medi	ate contaminat	ion that pose a thi	reat to gr	ound water	r, surface wa	ter, human	health	
or the enviror federal, state,				ptance of a C-141 r	eport	does not reliev	e the operator of	responsi	bility for c	ompliance w	ith any oth	er	
		-					OIL CON	SERV	ATION	DIVISIC	<u>N</u>		
Signature:	\sim	\geq	\sum				Finler	Elar					
Printed Name: Mickey Garner						Approved by	District Supervis	DIGE TOT	Jal	se			
Title: HSER	itle: HSER Lead						Approval Date: $8.3.07$ Expiration Date: $10.3.0$						
E-mail Addre	*******	D.Garner@	conoconh	illins com		Conditions o	i - ,	<u></u> 1			~		
				••••••••••••••••••••••••••••••••••••••		1	••		4١	Attached			
		al Sheets If		505.391.3158 y			AL OF FINAL				724	L]	
				-		ON DECH	GUIDN & CI	<i>∑A</i> ⊓⊽QF	, Docin	R		1318	

Received by OCD: 2/12/2021 2:59:55 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 18 of 265
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗌 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🗌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗌 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🗌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps

Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 2/12/2021 2:59: Form C-141 Page 4	⁵⁵ PM State of New Mexico Oil Conservation Division	Page 19 of 2Incident IDDistrict RPFacility IDApplication ID
regulations all operators are required to public health or the environment. The failed to adequately investigate and re	to report and/or file certain release notifications and pe e acceptance of a C-141 report by the OCD does not re mediate contamination that pose a threat to groundwate	weledge and understand that pursuant to OCD rules and erform corrective actions for releases which may endanger elieve the operator of liability should their operations have ater, surface water, human health or the environment. In for compliance with any other federal, state, or local laws
Printed Name:	Title:	
Signature:	Title: Date:	
email:		
OCD Only		
Received by:	Date:	:

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Facility ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

<u>Closure Report Attachment Checklist</u> : Each of the following is	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in ICD when reclamation and re-vegetation are complete.
email:	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Page 6

APPENDIX B Site Characterization Data



(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	(2=NE 3 st to lar	3=SW 4=S gest) (33 UTM in me	eters)	(1	In feet)	
POD Number	POD Sub- Code basin (County		Q 16	-	Sec	Tws	Rng	X	x	Y	Distance	-	-	Water Column
L 14159 POD1	L	LE	3	1	3	28	17S	33E	624030	03	3630169 🌍	857	298	165	133
<u>L 03713</u>	L	LE	3	4	1	28	17S	33E	62439 ⁻	1 3	630617* 🌍	1321	210		
											Avera	ge Depth to	Water:	165	feet
												Minimum	Depth:	165	feet
												Maximum	Depth:	165	feet

UTMNAD83 Radius Search (in meters):

Easting (X): 624141.15

Northing (Y): 3629319.47

Radius: 1600

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1RP-1518



NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division



APPENDIX C Work Plan (Tetra Tech, August 10, 2007)

Received by OCD: 2/12/2021 2:59:55 PM



TETRA TECH, INC.

August 10, 2007

Mr. Larry Johnson New Mexico Oil Conservation Division 1625 N. French Dr. Hobbs, NM 88240 Ms. Trishia Bad Bear US Bureau of Land Management 414 West Taylor Hobbs, NM 88240

1703 W. Industrial Ave. Midland, Texas 79701 (432) 686-8081

RE: Wyatt A Federal Work Plan - Revised Lea County, New Mexico Unit E, Sec. 33, T17S, R33E OCD RP#1518

Dear Mr. Johnson:

On Behalf of ConocoPhillips, Tetra Tech, Inc. (Tetra Tech) submits this work plan to perform a subsurface investigation at ConocoPhillips' MCA Wyatt A Federal (Site; Figure 1). This work is in support of ConocoPhillips efforts to delineate and remediate a recent 21 barrel crude oil release onto an oil field road ($10 \times 1,100$ feet; C141 attached) and on the backside of the battery. The Site is below and located approximately 0.4 miles southwest of the Mescalero Ridge. It is approximately 5.9 miles southeast of ConocoPhillips' Maljamar office. (32.79480N, 103.37433W). The State of New Mexico is the land administrator.

Wyatt A is located in the Querecho Plains of eastern New Mexico. This area generally consists of a thin cover of Quaternary sand dunes overlying the undivided Triassic Upper Chinle Group .¹ The Pyote and Dune Series soil at the Site consists of very deep well-drained sand and sandy loam. Typically, the surface layer is yellowish red to dark reddish-brown fine sand. It is underlain by yellowish red sandy clay. Below this is light yellowish brown gravelly fine sandy loam.²

Depth to water in the vicinity of the Site is estimated to be approximately 90 feet below ground surface (fbgs). This interpretation is based potentiometric surface contours described by Nicholson and Clebsch¹ for groundwater conditions in Southern Lea County. The New Mexico Office of State Engineer's database³ did not yield any depth to groundwater information in this area. The United States Geological Survey's database⁴ only described groundwater conditions above Mescalero Ridge. Nicholson and Clebsch did indicate a well approximately 2.1 miles to the northwest that registered groundwater at 70 fbgs.

Fresh surface water is not present in the area. There are dry playas that briefly hold water following a rainfall event. The nearest playa is approximately 330 feet northwest of the site.

¹ Nicholson Jr., A. and A. Clebsch, 1961. Geology and Ground-Water Conditions in Southern Lea County, New Mexico. USGS, GW Rpt 6, Socorro, NM. pp. 123.

² U.S. Department of Agriculture, Natural Resources Conservation Services. Web Soil Survey Database.

³ New Mexico Office of State Engineer. W.A.T.E.R.S. Database.

⁴ United States Geological Survey, Groundwater Levels for the Nation Database.

Mr. Johnson August 10, 2007 Page 2 Wyatt A Federal

Following the ranking criteria presented in "*Guidelines for Remediation of Leaks, Spills, and Releases*" promulgated on August 13, 1993 by the NMOCD, this Site has the following score:

<u>Criteria</u>		Ranking <u>Score</u>
Depth to groundwater	<100 feet	10
Distance from water source	>1000 feet	0
Distance from domestic water source	>200 feet	0
Distance from surface water body	<1,000 feet	<u>10</u>
Total Ranking Score		20

The remediation action level for a ranking score of >19 is 10 parts per million (ppm) for benzene, 50 ppm for total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 100 ppm for total petroleum hydrocarbons (TPH).

Scope of Work

To delineate the lateral and vertical extent of the crude oil affected area, Tetra Tech will perform the following activities:

- 1. A backhoe will be used to dig exploratory trenches in the affected area.
- 2. The New Mexico Oil Conservation Division (NMOCD) and the BLM will be notified 48 hours prior to initiation of the site investigation.
- 3. It is anticipated that five (3) 15-foot long trenches will be excavated across the 1,100-foot long affected area and two (2) trenches will be excavated on the back side of the battery (Figure 2). Soil samples will be collected every five feet from 3 locations (clean left, affected area, clean right) in each trench. Soil samples collected from the trenches will be field tested using chloride and electrical conductivity (EC) field screened techniques^{5,6} to find the vertical and lateral clean boundary of the release area. A photo-ionization detector (PID) will be used to screen for volatile organic hydrocarbons (VOC). Diesel range petroleum hydrocarbons (TPH _{DRO}) will be field screened using a PetroFLAG System.⁷ Field analyses using a chloride test kit and EC test will determine that a clean boundary of less than (<) 1,000 milligrams per kilogram (mg/kg) chloride and < 1,000 micro Siemens per meter (μ S/m) EC. VOC and TPH _{DRO} field analysis will determine the clean boundary of < 10 parts per million (ppm) VOC and < 100 ppm TPH.

⁷ U.S. Environmental Protection Agency, 2001. Innovative Technology Verification Report, Dexsil Corporation PetroFLAGTM System. Prepared by Tetra Tech EM Inc. for USEPA National Exposure Research Laboratory Office of Research and Development. EPA/R-01/092.



⁵ U.S. Environmental Protection Agency Grant No. R827015-01-1. IPEC Guidelines for Remediation of Small Brine Spills, January 12, 2004. Univ. of Tulsa, OK.

⁶ Conner, J.A. and C.J. Newell. 2004. Strategies for Addressing Oil Field Brine Releases to Plants, Soil and Groundwater. Publ. No. 4758, American Petroleum Institute, Washington D.C. p 25.

Mr. Johnson August 10, 2007 Page 3 Wyatt A Federal

- 4. Six to Nine soil samples from each soil trench (highest salinity and TPH _{DRO} reading and basal sample, (45 possible) will be submitted to a laboratory for confirmation analyses. The samples will be placed into glass sample jars, sealed with Teflon-lined lids, and placed on ice for transportation to an analytical laboratory where they will be analyzed for chloride (USEPA Method 300.0A), electrical conductivity (Standard Method 2510B SW-846 Method 9050A), total petroleum hydrocarbons (TPH_{DRO} and TPH_{GRO}, Method 8015) and benzene, ethylbenzene, toluene and total xylenes (BTEX, Method 8260). In addition, the basal samples (5) from each soil trench will be analyzed for BTEX and chloride synthetic precipitation leaching potential (SPLP_{BTEX} and SPLP_{CI}; USEPA Method 1312/8015 & 300.0A, respectively). These analyses will be used to confirm clean boundaries have been identified.
- 5. Excavated soil will be returned to the trench for handling during site remediation.

Tetra Tech will supervise and direct all subcontractor activities, and prepare a findings report describing and documenting what was done at the Site, including a site map. This report on activities, results, and recommendations will be submitted for ConocoPhillips, BLM's and NMOCD's review and approval.

Project Schedule

ConocoPhillips has authorized Tetra Tech to proceed and Tetra Tech is prepared to commence work on this project immediately following receipt of NMOCD's and BLM's notification to proceed.

Mr. Greg Pope will serve as the Project Manager and will have the authority to commit whatever resources are necessary to support the project team. It will be Mr. Pope's responsibility to ensure that the Client's needs are met in terms of scope of work and schedule. Mr. Pope is located in Tetra Tech's Midland, Texas, office.

If you concur with this Work Plan, please authorize by giving me or Mr. Greg Pope notification to proceed. Please contact me or Mr. Pope if you have any questions or require additional information.

Sincerely,

Tetra Tech, Inc. Charles Durrett DN CN = Charles Durrett C = US, 0 = Date 2007 09 10 08 36 51 -05'C0'

Charles Durrett Office Manager Greg W. Pope, P.G. Project Manager

Cc: Mickey Garner, ConocoPhillips

Attachment









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<u>District I</u> 1625 N. French Dr., Hobb <u>District II</u>	,		Sta Energy Min		f New Mex s and Natura				Rev		m C-141 er 10, 2003
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Was Immediate Notic	e Given? Yes 🗌 No	🖾 Not	Required		ES, To Whom Richards NM						
By Whom? Mickey						-29-2007 17:52					
Was a Watercourse R	eached?]Yes 🛛] No	If YES, Volume Impacting the Watercourse. N/A							
If a Watercourse was N/A	Impacted, Desc	ribe Fully.	*							τ.	
Describe Cause of Pro The source of disc				0 bbl	steel tank. A	vacuum truci	c was c	alled out	to pick up f	ree liqu	ids.
Describe Area Affect The area affected delineated and rer	is an 1100' X nediated in ac	10' sectio cordance	n of prepared lo with NMOCD	guid	elines.	-					
I hereby certify that the regulations all operating public health or the car should their operation or the environment. In federal, state, or local	ors are required avironment. The s have failed to n addition, NM	to report a e acceptan adequately OCD accept	nd/or file certain re ce of a C-141 repo v investigate and re	elease rt by t emedi	notifications a the NMOCD m ate contaminat	nd perform correct larked as "Final R ion that pose a the ve the operator of	ctive act leport" d reat to gr responsi	ions for rel loes not rel ound wate bility for c	eases which n ieve the opera r, surface was ompliance w	may enda ator of lia cr, huma ith any ot	nger bility n health
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Date: 7-31-2007			505.391.3158		1		L C · 1	41	Attached)
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APPENDIX D Photographic Documentation



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing east of release on pad.	1
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	8/03/2007



TETRA TECH, INC.	DESCRIPTION	View facing east of release.	2
PROJECT NO. 212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	8/03/2007



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing north of release on pad.	3
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	8/03/2007



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing west of release exiting lease pad (toward old access road).	4
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	8/03/2007



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing east of active excavation.	5
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	4/15/2008



TETRA TECH, IN PROJECT NO	View facing west of active excavation	6
212C-MD-02365	Wyatt A Federal Tank Release	4/15/2008



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing north of active excavation.	7
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	4/22/2008



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing east of excavation on lease pad.	8
	SITE NAME	Wyatt A Federal Tank Release	4/22/2008


TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing north from pasture excavation.	9
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	4/22/2008



[TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing northwest pasture excavation. ~ (Max digging depth of machine is 21'11".)	10
	212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	4/22/2008



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing northwest of excavation on lease pad.	11
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	4/23/2008



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing southeast of trench/excavation in pasture and road.	12
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	4/30/2008



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing south of excavation on lease pad.	13
	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



ſ	TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing north of excavation on lease pad.	14
	212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing north of liner deployment on pad.	15
	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing south of liner deployed across excavation on lease pad.	16
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing east of liner deployed near pad.	17
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing northwest of liner deployment in pasture excavation.	18
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing southeast of deployed liner in both pasture and pad excavation.	19
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing west of backfill activities.	20
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing east of backfill activities.	21
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



	TRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing east of backfilled excavation.	22
-	2C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	5/5/2008

APPENDIX E Findings Report (Tetra Tech, November 26, 2007)

Received by OCD: 2/12/2021 2:59:55 PM



1703 W. Industrial Ave. Midland, Texas 79701 (432) 686-8081

November 26, 2007

Mr. Mickey Garner ConocoPhillips HC60 Box 66 Lovington, NM 88260

RE: Wyatt A Federal Battery Findings Report Lea County, New Mexico Unit E, Sec. 33, T17S, R33E OCD 1RP# 1518

Dear Mickey:

Tetra Tech, Inc. (Tetra Tech) is pleased to submit this findings report for a subsurface investigation at ConocoPhillips' East Vacuum Grayburg, San Andres Unit, Wyatt A Federal Battery crude oil release site (Site; Figure 1). This work is in support of ConocoPhillips efforts to remediate a recent 21 barrel crude oil release onto an oil field road (4 x 1,100 feet; C141 attached) and on the back side of the battery. The Site is below and located approximately 0.4 miles southwest of Mescalero Ridge. It is approximately 5.9 miles southeast of ConocoPhillips' Maljamar office (32.79480N, 103.37433W). Mr. John Norris owns the surface while the U.S. Bureau of Land Management (BLM) administers the minerals.

Wyatt A is located in the Querecho Plains of eastern New Mexico. This area generally consists of a thin cover of Quaternary sand dunes overlying the undivided Triassic Upper Chinle Group.¹ The Pyote and Dune Series soil at the Site consists of very deep well-drained sand and sandy loam. Typically, the surface layer is yellowish red to dark reddish-brown fine sand. It is underlain by yellowish red sandy clay. Below this is light yellowish brown gravelly fine sandy loam.²

Exposure Pathway Analysis

Depth to water in the vicinity of the Site is estimated to be approximately 90 feet below ground surface (fbgs). This interpretation is based on potentiometric surface contours described by Nicholson and Clebsch¹ for groundwater conditions in Southern Lea County. The New Mexico Office of State Engineer's database³ did not yield any depth to groundwater information in this area. The United States Geological Survey's database⁴ only described groundwater conditions

¹ Nicholson Jr., A. and A. Clebsch, 1961. Geology and Ground-Water Conditions in Southern Lea County, New Mexico. USGS, GW Rpt 6, Socorro, NM. pp. 123.

² U.S. Department of Agriculture, Natural Resources Conservation Services. Web Soil Survey Database.

³ New Mexico Office of State Engineer. W.A.T.E.R.S. Database.

⁴ United States Geological Survey. Groundwater Levels for the Nation Database.

Wyatt A Federal Battery Findings Report

above Mescalero Ridge. Nicholson and Clebsch did indicate a well approximately 2.1 miles to the northwest that registered groundwater at 70 fbgs.

A water well (depth to water unknown) supplying fresh water to a stock pond is located approximately 0.8 miles northwest of the Site. There are dry playas that briefly hold water following a rainfall event. The nearest playa is approximately 330 feet northwest of the Site.

Following the ranking criteria presented in "*Guidelines for Remediation of Leaks, Spills, and Releases*" promulgated on August 13, 1993 by the New Mexico Oil Conservation Division (NMOCD), this Site has the following score:

Criteria		Ranking <u>Score</u>
Depth to groundwater	<100 feet	10
Distance from water source	>1000 feet	0
Distance from domestic water source	>200 feet	0
Distance from surface water body	<1,000 feet	<u>10</u>
Total Ranking Score		20

The remediation action level for a ranking score of >19 is 10 parts per million (ppm) for benzene, 50 ppm for total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 100 ppm for total petroleum hydrocarbons (TPH).

Scope of Work

At the request of ConocoPhillips, Tetra Tech initiated a subsurface investigation of the crude oil release Site. Tetra Tech excavated six (6) exploratory trenches using a backhoe at Wyatt A Federal Battery to find a chloride (< 1,000 ppm) and BTEX (< 100 ppm) clean boundary. The objective was to find a "clean boundary" in the horizontal and vertical extent.

Three (3) 15-foot long trenches were excavated across the 1,100-foot long affected road, two (2) trenches were excavated on the back side of the battery, and one (1) trench was excavated adjacent to the leaking tank location (Figure 2). Soil samples were collected every 5 feet from three (3) road locations (clean left, affected area, clean right) in each trench. Soil samples collected from the trenches were field tested using chloride and electrical conductivity (EC) field screened techniques^{5/6} to find the vertical and lateral clean boundary of the release area. The photoionization detector (PID) malfunctioned during the screening for volatile organic compounds (VOC).

The practical excavation depth was 15 fbgs owing to the limit of the backhoe arm extension. Six (6) soil samples from each road trench (T-1, -2 and -3) and two (2) soil samples from each

⁶ Conner, J.A. and C.J. Newell. 2004. Strategies for Addressing Oil Field Brine Releases to Plants, Soil and Groundwater. Pub. No. 4758, American Petroleum Institute, Washington D.C. p 25.



⁵ U.S. Environmental Protection Agency Grant No. R827015-01-1. IPEC Guidelines for Remediation of Small Brine Spills, January 12, 2004. Univ. of Tulsa, OK.

Wyatt A Federal Battery Findings Report

trench in and around the battery (T-4, -5, and -6) were retained and submitted to the laboratory for analyses. The sampling interval was based on EC field screening, and on the judgment of the field personnel. The scil sample with the highest EC measurement and the sample from the excavation total depth were retained for chemical analysis.

The samples (24) were placed into glass sample jars, sealed with Teflon-lined lids, and placed on ice for transportation to an analytical laboratory where they were analyzed for chloride (USEPA Method 300.0A), electrical conductivity (Standard Method 2510B SW-846 Method 9050A), diesel and gasoline range hydrocarbons (TPH_{DRO} and TPH_{GRO}, Method 8015) and BTEX (Method 8260). In addition, one (1) basal sample for the trench inside the battery area was analyzed for BTEX and chloride synthetic precipitation leaching potential (SPLP_{BTEX} and SPLP_{CI}; USEPA Method 1312/8015 & 300.0A, respectively).

All soils generated by soil excavation were returned to each trench to be remediated later.

Findings

Excavations advanced during the investigation at the Site encountered sand and sandy loam. Typically, the surface layer is yellowish red to dark reddish-brown fine sand. It is underlain by yellowish red sandy clay. The underlying unit was sandy clay interbedded with caliche.

Summaries of subsurface environmental conditions are presented in Table 1. A complete laboratory analytical report is presented in Appendix A.

Field screening data for EC and visual observations were used to define the horizontal and vertical extent of affected soil (Table 1). Along the road, field EC ranged from 61 to 3,817 micro-Siemens per centimeter (μ S/cm). In and around the tank battery, EC readings ranged from 161 to 1,235 μ S/cm. Owing to heavy crude oil staining in trench T-6, EC readings were not taken.

Laboratory analyses for chloride concentrations are presented in Table 1. Chloride concentrations in trenches in the road ranged from 7.54 milligrams per kilogram (mg/Kg) in trench T-2C (0-0.5 feet) to 3,750 mg/Kg at trench T-3A (5 feet). In trenches around the tank battery, chloride concentration ranged from 58.8 to 1,301 mg/Kg. SPLP analysis for road trench bottom chloride concentrations were below New Mexico Water Quality Control Commission (NMWQCC) standards for water quality [250 milligrams per liter (mg/L)] and ranged from 2.03 to 156 mg/L in trenches T-1C (5 feet) and T-3A (5 feet), respectively. SPLP analysis for water quality and ranged from 21.9 to 56.3 mg/L in trenches T-6 (10 feet) and T-4 (10 feet), respectively.

Gasoline and diesel range hydrocarbons (TPH_{GRO} and TPH_{DRO}) and BTEX laboratory analyses are present in Table 1. TPH concentrations above NMOCD action levels were noted in surface samples from the center sampling point of the road trenches T-1, -2 and -3. Also TPH concentrations above NMOCD action levels were observed in T-1C (5 feet), T-2C (0-0.5 feet) and T-2C ((0-0.5 feet) and T-3A (0-0.5 and 5 feet) and T-3B (10 feet). TPH concentrations in the battery area were detected above NMOCD remediation guidelines in all three battery trenches. Except for T-6 (0-0.5 feet), benzene concentrations were not detected in any of



Wyatt A Federal Battery Findings Report

trench sampling locations. Benzene concentration in T-6 was below NMOCD action levels. Total BTEX concentrations above NMOCD action levels were noted in trenches T-4 (0-0.5 feet) and T-6 (0-0.5 feet). SPLP analyses for trench bottom BTEX concentrations were not detected any of the trenches except for T-3B (0.1089 mg/L) at 10 fbgs and T-4 (0.0256 mg/L) at 10 fbgs. However, these total concentrations were below NMWQCC water quality standards for ethylbenzene, toluene or xylenes (total).

Table 1 ConocoPhillips Wyatt A Federal Battery Subsurface Investigation 9/20/2007

	Sample	Field	Specific		SPLP	Т	PH		Ethyl-		Xylenes	Total	SPLP
Location	Depth (ft)	EC (µS/cm)	Conductivity (µmhos/cm)	Chloride (mg/Kg)	Chloride (mg/L)	GRO (mg/Kg)	DRO (mg/Kg)	Benzene (mg/Kg)	benzene (mg/Kg)	Toluene (mg/Kg)	Total (mg/Kg)	BTEX (mg/Kg	BTEX (mg/L)
T-1 A	0-0.5	185	340	18.4	1.1.1	1.73	12	ND	0.00697	ND	ND	0.00697	
	5	432	639	134	6.1	ND	24	ND	ND	ND	ND	ND	ND
В	0-0.5	225	254	18.2		927	19,000	ND	14.4	3.57	24	41.97	
	5	428	721	149	5.79	ND	ND	ND	ND	ND	ND	ND	ND
С	0-0.5	106	140	8.33		1.13	ND	ND	ND	ND	ND	ND	
	5	133	319	27.5	2.03	ND	110	ND	ND	ND	ND	ND	ND
T-2 A	0-0.5	952	154	7.73		ND	19	ND	ND	ND	ND	ND	1000
	5	560	1,540	275	11.3	ND	ND	ND	ND	ND	ND	ND	ND
В	0-0.5	111	186	10.2		40.1	4,000	ND	0.0099	0.00717	0.0199	0.03697	
	5	743	1,460	221	9.66	ND	13	ND	ND	ND	ND	ND	ND
С	0-0.5	61	116	7.54	1	ND	260	ND	ND	ND	ND	ND	1
	5	302	762	67.9	3.28	ND	ND	ND	ND	ND	ND	ND	ND
T-3 A	0-0.5	239	492	29.2		ND	1,400	ND	ND	ND	ND	ND	
	5	3,817	8,980	3,750	156	ND	600	ND	ND	ND	ND	ND	ND
В	10	189	1,030	152	5.31	714	15,000	ND	14.1	2.62	26.4	43.12	0.1089
	14	1,925	4,780	1,570	75.8	ND	31	ND	ND	ND	ND	ND	ND
С	0-0.5	78	194	9.3		ND	12	ND	ND	ND	ND	ND	
	5	1,127	4,050	1,510	59.5	ND	ND	ND	ND	ND	ND	ND	ND
T-4	0-0.5		2,890	285	1.00	1,800	27,000	ND	49.9	11.3	89.4	150.6	1. Ph
	10	1,235	4,390	1310	56.3	757	6,500	ND	ND	ND	0.0488	0.0488	0.0256
T-5	0-0.5	161	462	58.8		3.53	540	ND	ND	ND	ND	ND	
	5	1,202	3,250	1,110	47.5	ND	ND	ND	ND	ND	ND	ND	ND
T-6	0-0.5		2,300	726	-	1,120	11,000	0.481	13	8.88	36.2	58.561	
	10		1,890	491	21.9	ND	63	ND	ND	ND	ND	ND	ND

EC = Electrical conductivity ft = Feet

ppm = Parts per million µS/cm = microSiemens per centimeter mg/Kg = Milligrams per kilogram Blank = No data TPH = Total petroleum hydrocarbons

 $\label{eq:transform} \begin{array}{l} TPH_{GRO} = Gasoline range petroleum hydrocarbons \\ TPH_{ORO} = Diesel range petroleum hydrocarbons \\ SPLP = Synthetic precipitation leaching procedure \\ \mu mhos/cm = micro-Ohms per centimeter \\ mg/L = Milligrams per liter \end{array}$

Conclusions

According to laboratory analysis of soils collected during this investigation, chloride, TPH and BTEX were detected in road and battery trenches. Exposure pathway analysis indicated a ranking score of "20." Therefore, the site-specific remediation levels are 100 mg/kg for TPH, 50 mg/Kg for BTEX and 10 mg/Kg for benzene. Based on laboratory analyses presented in Table 1, the impacts to soil within historic road area and around the battery are above the NMOCD action level for TPH. Benzene was detected in only one trench sample and it was below NMOCD action levels. BTEX was present above NMOCD action levels only in the battery area. Chloride concentrations were present in all trench samples and were higher near the battery.

Risk Analysis - The SPLP evaluates the potential for leaching materials into groundwater. It provides an assessment of material mobility under field conditions (i.e. rainfall) and is a method



Wyatt A Federal Battery Findings Report

of choice when evaluating fate and transport⁷. Depth to water in the vicinity of the Site is estimated to be approximately 90 fbgs. The SPLP analysis of soil collected in the investigation indicated leachable concentrations BTEX were noted at two sampling locations but were below NMWQCC water quality standards for ethylbenzene, toluene or xylenes (total). SPLP chloride leachable concentrations were present in soil at concentrations ranging from 2.03 to 156 mg/L and were also below NMWQCC water quality standards for chloride (250 mg/L).

Recommendations

Tetra Tech recommends the following actions be taken at Wyatt A Federal Battery:

- Affected Soil in the historic road bed will be excavated. Beginning at trench T-3 and east toward and including the battery, soil will be excavated to a depth of approximately 3 to 4 feet or until the BTEX concentrations are below NMOCD action level of 100 ppm on a PID. The excavated material will be hauled to a State approved disposal location.
- Aliquot soil samples will be collected in a "W" pattern, composited into one sample for each sidewall and floor in the T-3 to battery area excavation, and field analyzed using PID, PetroFlag-TPH, and chloride field screening to determine that remediation levels have been achieved (< 10 ppm benzene, < 100 ppm TPH and < 1,000 ppm chloride).
- The road excavation (anticipated 5 to 10 feet depth) sidewalls and floor will be randomly screened every 50 feet using a PID, PetroFlag-TPH, and chloride field screening to determine that remediation levels have been achieved (< 10 ppm benzene, < 100 ppm TPH and < 1,000 ppm chloride).
- Companion composite T-3/battery and road excavation samples will be submitted to a laboratory for TPH_{GRO}, TPH_{DRO}, BTEX and chloride analyses to confirm that these constituents have been removed to concentrations below remediation guidelines.
- In the T-3/battery area, the remaining soil in the excavation will be slightly domed (1 foot higher than the sides). The slight doming of the soil beneath a "liner" material will promote lateral drainage off of the geo-membrane after placement. The dome will be hand groomed by removing any large sticks and smoothing the surface. A one foot deep anchor trench will constructed around the inside perimeter of the excavation and a 40-mil medium density polyethylene geo-membrane will be installed over the domed area. The membrane will be cut to fit into the perimeter trench and native soil will be backfilled around the perimeter to hold the geo-membrane in-place. Native soil with no rocks or debris will be backfilled over the membrane to meet surrounding surface grades which would complete the remediation. Four carsonite markers will set at the corners of the remediation area notifying interested parties that a subsurface structure was in-place. The inscription on each marker would read "CAUTION, SUBSURFACE STRUCTURE, Call Before Digging, MCA Unit 505-393-0130." The affected soil below the liner will be left in place until the battery is permanently closed in accordance with NMOCD and BLM rules for site abandonment.

⁷ Alforque, Maricia, 1996. Synthetic Precipitation Leaching Procedure. USEPA Manchester Laboratory Tech Notes 9/06/1996.



Wyatt A Federal Battery Findings Report

- The excavation in the historic road will be backfilled with native soil located adjacent to the road.
- Native plant seed recommended by landowner will be broadcasted over the historic roadbed. The T-3/battery area will continue to be used during oil production.
- Tetra Tech will supervise and direct all subcontractor activities and following the remediation activities, prepare a report describing and documenting what was done for closure activities at the Site, including a site map. This report on activities and results will be submitted for NMOCD's and BLM's review and ultimate closure of this voluntary remediation.

Project Schedule

Tetra Tech is prepared to commence work on this project immediately following receipt of your notification to proceed.

Project Approach

Mr. Greg Pope will serve as the Project Manager and will have the authority to commit whatever resources are necessary to support the project team. It will be Mr. Pope's responsibility to ensure that the Client's needs are met in terms of scope of work and schedule. Mr. Pope is located in Tetra Tech's Midland, Texas, office.

Basis of Billing

If you concur with this Work Plan and attached Cost Estimate, please return a signed copy of this letter as Tetra Tech's authorization to proceed. Please contact me or Mr. Greg Pope, if you have any questions or require additional information.

Sincerely,

Tetra Tech, Inc. Digitality signed by Charles Durrett DN: CN = Charles Durrett, C = US, O = Tetra Tech Reason: I am the author of this document Date: 2007.11.26 07:56:04.0600'

Charles Durrett Office Manager

Authorization to Proceed:

Greg W. Pope, P.G. Project Manager

Mr. Mickey Garner ConocoPhillips, Inc. Date







Source: NRCS, Web Soil Survey. No scale.



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<u>District I</u> 1625 N. French District II						te of New Mexico erals and Natural Resources				Form C-141 Revised October 10, 2003		
301 W. Grand District III 000 Rio Brazos District IV 220 S. St. Fran	s Road, Azte	c, NM 87410		1220) Sou	nservation Division outh St. Francis Dr. ta Fe, NM 87505				Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form		
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						PERATOR			· · ·	al Report 🛛 Final Repo		
Name of Co	mpany C	onocoPhilli	ps Comp	any			lickey Garner					
			6, Midla	nd, TX 79705-:	5406		No. 505.391.3					
Facility Nar	ne Wyatt	A Federal				Facility Ty	be Oil and Ga	<u>s</u>				
Surface Ow		e of New Me	xico				IFASE		Lease No	NM108507		
Unit Letter E	Section 33	Township 17S	Range 33E	Feet from the		DN OF RE th/South Line	Feet from the	East/V	Vest Line	County Lea		
	[T	atitude N 32.7	70480	Longi	tude W 103.67	//33				
			Ľ			E OF REL		400				
Type of Rele	ase		.,		1	lume of Releas	-			Recovered		
Crude Oil	Crude Oil					bbl (21oil, 0w te and Hour of	And the second		(40il, 0wa	ater) Hour of Discovery		
	ource of Release 600 bbl Steel Tank				te and Hour of 9-2007 02:00			7-29-200				
Was Immedia	ate Notice (If	If YES, To Whom?						
		Yes 🗌 No	🛛 Not	Required	Pa	t Richards N	MOCD					
By Whom?	Mickey G	arner					-29-2007 17:52		·····			
Was a Water	course Read]Yes 🛛	No	If Y N/		mpacting the Wat	tercourse	÷.			
If a Watercou N/A	irse was Im	pacted, Descr	ribe Fully.	*								
Describe Cau The source					00 bb	l steel tank. A	A vacuum trucl	k was ca	alled out	to pick up free liquids.		
delineated a I hereby certi regulations al public health should their c	fy that the ll operators or the envi operations h	an 1100' X diated in ac information g are required (ronment. The nave failed to	10' section cordance iven above to report a e acceptan adequately	e with NMOCI e is true and comp nd/or file certain ce of a C-141 rep y investigate and	D guid plete to release port by remedi	the best of my notifications a the NMOCD n ate contaminat	v knowledge and u and perform corre narked as "Final R ion that pose a th	understar ctive acti Report" d reat to gr	nd that pursions for rel oors for rel oes not rel ound wate	ected. The area will be suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health		
or the enviror federal, state,				plance of a C-141	report	does not relie	ve the operator of	responsi	dility for c	ompliance with any other		
3		A					OIL CON	SERV	ATION	DIVISION		
Signature:		\propto	\geq)	Approved by	ENVIA District Supervise		$ \land \circ $			
Printed Name	: Mickey	Garner	·····					4	pl	180		
Title: HSER	Lead					Approval Da	te: 8.3.0	7 1	Expiration	Date: 10.3.07		
E-mail Addre	ss: Mickey	/.D.Garner@	conocoph	illips.com		Conditions o	••	_	. .	Attached 🗆 🥎		
Date: 7-31				505.391.3158		SUBMITT	AL OF FINAL	L C · 1	41	 		
• Attac	h Additior	al Sheets If	Necessar	-y		w Deca	MACTION & CI	LZANVOLP	<i>Docum</i>	RP#F		

APPENDIX A Laboratory Report

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Released to Imaging: 1/26/2022 11:49:49 AM

Received by OCD: 2/12/2021 2:59:55 PM







pudekadk

Signature

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

(0)2010

TestAmerica Laboratories, Inc 6310 Rothway Drive Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF FACES



10/05/2007

Charlie Durret Tetra Tech, Inc. 1703 West Industrial Midland, TX 79701

Reference:		
Project	:	WYATT A
Project No.	:	342749
Date Received	:	09/22/2007
TestAmerica Job	:	342749

Dear Charlie Durret:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

1	T1A 0-6"	2.	T1B 0-6"
	T1C 0-6"	4.	T1A 5'
	T1B 5'	6.	T1C 5'
	T2A 0-6"	8.	T2B 0-6"
	T2C 0-6"	10.	T2A 5'
	T2B 5'		T2C 5'
	T3A 0-6"	14.	T3B 10'
	T3C 0-6"		T4 0-6"
	T4 14'		T5 0-6"
- • •	T5 5'		T6 0-6"
21.	T6 10'		T3A 5'
23.	T3B 10'	24.	T3C 5'

All holding times were met for the tests performed on these samples.

Enclosed, please find the Quality Control Summary. All quality control results for the QC batch that are applicable to the sample(s) are acceptable except as noted in the QC batch reports.

The test results in this report meet all QC requirements for TestAmerica Houston's QC limits. Any exceptions to these QC requirements will be noted and included in a case narrative as a part of this report.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting TestAmerica to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time. We look forward to working with you on future projects.

Sincerely hadl

Sachin G. Kudchadkar Project Manager

ANALYTICAL REPORT

JOB NUMBER: 342749 Project ID: WYATT A

Prepared For:

Tetra Tech, Inc. 1703 West Industrial Midland, TX 79701

Attention: Charlie Durret

Date: 10/05/2007

Signature

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

Date

TestAmerica Laboratories, Inc 6310 Rothway Drive Houston, TX 77040

PHONE: 713-690-4444

	SAI	MPLE INFORM Date: 10/05/2007				
Job Number.: 3427 Customer: Tetra Attn Char	a Tech, Inc.	Customer Pro	er: 9 ject ID: W ription: Ca	YATT A	5	
Laboratory	Customer	Sample	Date	Time	Date	Time

	Sample ID	Matrix	Sampled	Sampted	Received	Received
342749-1	T1A 0-6"	Soil	09/20/2007	08:48	09/22/2007	09:08
342749-2	T1B 0-6"	Soil	09/20/2007	08:40	09/22/2007	09:08
342749-3	T1C 0-6"	Soil	09/20/2007	08:35	09/22/2007	09:08
342749-4	T1A 5'	Soil	09/20/2007	09:15	09/22/2007	09:08
342749-5	T1B 5'	Soil	09/20/2007	09:25	09/22/2007	09:08
342749-6	TIC 5'	Soil	09/20/2007	09:40	09/22/2007	09:08
342749-7	T2A 0-6"	Soil	09/20/2007	10:06	09/22/2007	09:08
342749-8	T2B 0-6"	Soil	09/20/2007	10:00	09/22/2007	09:08
342749-9	T2C 0-6"	Soil	09/20/2007	09:55	09/22/2007	09:08
342749-10	T2A 5'	Soil	09/20/2007	10:50	09/22/2007	09:08
342749-11	T2B 5'	Soil	09/20/2007	10:40	09/22/2007	09:08
342749-12	T2C 5'	Soil	09/20/2007	10:20	09/22/2007	09:08
342749-13	T3A 0-6"	Soil	09/20/2007	10:55	09/22/2007	09:08
342749-14	T3B 10'	Soil	09/20/2007	12:06	09/22/2007	09:08
342749-15	T3C 0-6"	Soil	09/20/2007	11:06	09/22/2007	09:08
342749-16	T4 0-6"	Soil	09/20/2007	13:00	09/22/2007	09:08
342749-17	T4 14'	Soil	09/20/2007	13:20	09/22/2007	09:08
342749-18	T5 0-6"	Soil	09/20/2007	13:37	09/22/2007	09:08
342749-19	T5 5'	Soil	09/20/2007	13:47	09/22/2007	09:08
342749-20	T6 0-6"	Soil	09/20/2007	14:07	09/22/2007	09:08
342749-21	T6 10'	Soil	09/20/2007	14:20	09/22/2007	09:08
342749-22	T3A 5'	Soil	09/20/2007	00:00	09/22/2007	09:08
0 36 7 3 5 6 G	the second se	Soil	09/20/2007	00:00	09/22/2007	09:08
342749-23	T3B 10'					

	LABORATORY Job Number: 342749	TEST RE:	SULT	Date: 10/05/2	007		
CUSTOMER: Tet:	ra Tech, Inc. PROJECT: W	WATT A		ATTN: Charli	e Durret		
Date San Time San	r Sample ID: T1A 0-6" mpled: 09/20/2007 mpled: 08:48 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/2	2/2007	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECI
EPA 120.1	Specific Conductivity @ 25 degrees C, Soil	340	1	1.0	* umhos/cm	09/26/07	sur
5W-846 9056	Chloride, Soil	18.4	1	4.0	mg/Kg	09/26/07	sur
W-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	1730		1000.00	ug/Kg	 09/26/07	cad
W-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				09/24/07	klv
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	1 12		8.3	mg/Kg	 09/25/07	jps
5W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND 6.97 ND		5 5 15	ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl

	Job Number: 342749			Date: 10/05/2	007		
CUSTOMER: Tet:	ra Tech, Inc. PROJECT	: WYATT A		ATTN: Charli	e Durret		
Date Sar Time Sar	r Sample ID: T1B 0-6" mpled: 09/20/2007 mpled: 08:40 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/2	2/2007	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC
EPA 120.1	Specific Conductivity @ 25 degrees C, Soil	254	1	1.0	* umhos/cm	09/26/07	sur
W-846 9056	Chloride, Soil	18.2	1	4.0	mg/Kg	09/26/07	sur
W-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	 927000		250000	ug/Kg	 09/26/07	cad
W-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				 09/24/07	klv
W-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	19000	l L	2500	mg/Kg	09/26/07	jps
W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND 14400 3570 24000		20 600 600 1900	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/26/07 09/26/07 09/26/07	ydy ydy

	Job Number: 342749	LABORATORY	TEST RES	SULT	S Date: 10/05/2	007		
CUSTOMER: Tet:	ra Tech,Inc.	PROJECT: V	WYATT A		ATTN: Charli	e Durret		
Date San Time San	r Sample ID: T1C 0-6" npled: 09/20/2007 npled: 08:35 Matrix: Soil				Laboratory Sampl Date Received Time Received	: 09/2	2/2007	
TEST METHOD	PARAMETER/TES	I DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC
EPA 120.1	Specific Conductivity @	25 degrees C, Soil	140	1	1.0	* umhos/cm	09/26/07	sur
W-846 9056	Chloride, Soil		8.33	Ì	4.0	mg/Kg	09/26/07	sur
W-846 8015B	Total Volatile Petroleu TVPH as GRO, Soil	m Hydrocarbons	1130		1000.00	ug/Kg	 09/26/07	cad
SW-846 3550B	Extraction (Ultrasonic) Ultrasonic Extraction,		Complete				 09/24/07	klv
SW-846 8015B	Total Extractable Petro TEPH - as Diesel, Soil	leum Hydrocarbons	ND		8.3	mg/Kg	09/25/07	jps
5W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil		ND ND ND ND		5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl

							_			
CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A		ATTN: Charlie Durret						
Date Sar Time Sar	r Sample ID: T1A 5' mpled: 09/20/2007 mpled: 09:15 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/22	2/2007				
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH			
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	6.10		0.50	mg/L	 09/25/07	sur			
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	ND ND ND ND ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/25/07 09/25/07 09/25/07 09/25/07	ydy ydy ydy			
EPA 120.1 SW-846 9056	Specific Conductivity @ 25 degrees C, Soil Chloride, Soil	639 134	ł	1.0 4.0	* umnos/cm mg/Kg	09/26/07	1			
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I I I ND		1000.00	ug/Kg	09/25/07	cad			
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	1			 09/24/07	klv			
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	24		8.3	mg/Kg	09/25/07	jps			
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	I ND ND ND ND		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl			
SW-846 1312	Zero Head Space (ZHE) Extraction, Solid	Complete			mL	09/24/07	wkc			
							E F			

	Job Number: 342749	ORY TEST RES	SULT	S Date: 10/05/2	2007					
CUSTOMER: Tet:	ra Tech, Inc. PR	OJECT: WYATT A		ATTN: Charlie Durret						
Date San Time San	c Sample ID: T1B 5' npled: 09/20/2007 npled: 09:25 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/22	2/2007				
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH			
EPA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	5.79		0.50	mg/L	 09/25/07	sur			
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	I ND I ND I ND I ND I ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/25/07 09/25/07 09/25/07 09/25/07	ydy ydy ydy			
EPA 120.1 SW-846 9056	Specific Conductivity @ 25 degrees C, : Chloride, Soil	Soil 721		1.0 4.0	* umhos/cm mg/Kg	09/26/07				
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	ND		1000.00	ug/Kg	09/25/07	cad			
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	ł			09/24/07	klv			
SW-846 8015B	Total Extractable Petroleum Hydrocarbon TEPH - as Diesel, Soil	ns ND		8.3	mg/Kg	09/26/07	jps			
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	I ND I ND I ND I ND I ND		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl			
SW-846 1312	Zero Head Space (ZHE) Extraction, Solid	d Complete			mL	09/24/07	wkc			
							E			
			10				 			

CUSTOMER: Tet:	ra Tech, Inc. PROJECT: 1	WYATT A		ATTN: Charlie	e Durret		
Date Sar Time Sar	r Sample ID: T1C 5' mpled: 09/20/2007 mpled: 09:40 Matrix: Soil			Laboratory Sample Date Received Time Received	: 09/22	2/2007	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
EPA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	2.03	1	0.50	mg/L	09/25/07	sur
SW-846 8260B EPA 120.1	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP Specific Conductivity @ 25 degrees C, Soil	ND ND ND ND ND 319		5 5 5 1 5 1 5 1 5 1 0	ug/L ug/L ug/L ug/L * umhos/cm	09/25/07 09/25/07 09/25/07 09/25/07 09/25/07	ydy ydy ydy
SW-846 9056	Chloride, Soil	27.5		4.0	mg/Kg	09/26/07	1
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I ND		1000.00	ug/Kg	09/25/07	 cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	ł			09/24/07	klv
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	110		8.3	mg/Kg	09/26/07	jps
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND ND		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl
SW-846 1312	Zero Head Space (ZHE) Extraction, Solid	Complete			mL	09/24/07 	wkc

	Job Number: 342749			Date: 10/05/2	007				
CUSTOMER: Tet:	ra Tech, Inc. PROJECT: W	YATT A		ATTN: Charlie Durret					
Date Sar Time Sar	r Sample ID: T2A 0-6" mpled: 09/20/2007 mpled: 10:06 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/2	2/2007			
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC		
EPA 120.1	Specific Conductivity @ 25 degrees C, Soil	154	İ	1.0	* umhos/cm	09/26/07	sur		
W-846 9056	Chloride, Soil	7.73	Î.	4.0	mg/Kg	09/26/07	sur		
W-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	ND		1000.00	ug/Kg	09/25/07	cad		
W-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				09/25/07	mra		
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	 19		8.3	mg/Kg	09/26/07	jps		
W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	I ND ND ND I ND		5 5 15 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl		

	Job Number: 342749			Date: 10/05/2	007		
CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A		ATTN: Charli	e Durret		
Date Sar Time Sar	r Sample ID: T2B 0-6" mpled: 09/20/2007 mpled: 10:00 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/2	2/2007	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC
EPA 120.1	Specific Conductivity @ 25 degrees C, Soil	186	1	1.0	* umhos/cm	09/26/07	sur
W-846 9056	Chloride, Soil	10.2	Į.	4.0	mg/Kg	09/26/07	sur
W-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	40100		10000.0	ug/Kg	 09/25/07	cad
W-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				 09/25/07	mra
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	4000	Î. U.	500	mg/Kg	 09/26/07	jps
5W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND 9.90 7.17 19.9		5 5 15	ug/Kg ug/Kg ug/Kg	09/25/07 09/25/07 09/25/07 09/25/07	zfl zfl

	Job Number: 342749	LABORATORY	TEST RES	SULT	S Date: 10/05/2	007				
CUSTOMER: Tet:	ra Tech, Inc.	PROJECT: 1	WYATT A		ATTN: Charli	e Durret				
Date Sar Time Sar	r Sample ID: T2C 0-6" mpled: 09/20/2007 mpled: 09:55 Matrix: Soil			Laboratory Sample ID: 342749-9 Date Received: 09/22/200 Time Received: 09:08						
TEST METHOD	PARAMETER/TEST	DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH		
EPA 120.1	Specific Conductivity @ 2	5 degrees C, Soil	116	Ì	1.0	* umhos/cm	09/26/07	sur		
SW-846 9056	Chloride, Soil		7.54	l l	4.0	mg/Kg	09/26/07	sur		
W-846 8015B	Total Volatile Petroleum TVPH as GRO, Soil	Hydrocarbons	ND		1000.00	ug/Kg	09/25/07	cad		
SW-846 3550B	Extraction (Ultrasonic) E Ultrasonic Extraction, So		Complete				09/25/07	mra		
SW-846 8015B	Total Extractable Petrole TEPH - as Diesel, Soil	um Hydrocarbons	260		41	mg/Kg	09/27/07	jps		
3W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil		I ND I ND I ND I ND		5 5 15	ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl		

		1000 B 1000 B					_			
CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A		ATTN: Charlie Durret						
Date Sar Time Sar	r Sample ID: T2A 5' mpled: 09/20/2007 mpled: 10:50 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/22	2/2007				
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC			
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	11.3		0.50	mg/L	 09/26/07	sur			
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	I ND I ND I ND I ND I ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/25/07 09/25/07 09/25/07 09/25/07	ydy ydy ydy			
EPA 120.1 SW-846 9056	Specific Conductivity @ 25 degrees C, Soil Chloride, Soil	1450 275	1	1.0 4.0	* umhos/cm mg/Kg	09/26/07	1			
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	ND		1000.00	ug/Kg	09/25/07	cad			
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	ł			09/24/07	klv			
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	I I ND		8.3	mg/Kg	09/26/07	jps			
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	I I ND I ND I ND I ND		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl			
SW-846 1312	Zero Head Space (ZHE) Extraction, Solid	Complete			mL	09/24/07 	wkc 			

	Job Number: 342749	TEST RES	SULT	Date: 10/05/2	007					
CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A		ATTN: Charlie Durret						
Date San Time San	c Sample ID: T2B 5' mpled: 09/20/2007 mpled: 10:40 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/22	2/2007				
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH			
2PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	9.66		0.50	mg/L	 09/26/07	 sur			
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	I ND I ND I ND I ND I ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/25/07 09/25/07 09/25/07 09/25/07	ydy ydy ydy			
EPA 120.1 SW-846 9056	Specific Conductivity @ 25 degrees C, Soil Chloride, Soil	1460 221	1	1.0 4.0	* umhos/cm mg/Kg	09/26/07	1			
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I I I ND		1000.00	ug/Kg	 09/25/07	 cad			
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	1 -			09/24/07	klv			
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	1		8.3	mg/Kg	09/25/07	jps			
SW-846 8260B SW-846 1312	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil Zero Head Space (ZHE) Extraction, Solid	 ND ND ND ND Complete		5 5 5 1 5	ug/Kg ug/Kg ug/Kg ug/Kg mL	09/24/07 09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl zfl			
				Î			1			

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CUSTOMER: Tet:	ra Tech, Inc. PROJECT: 1	WYATT A		ATTN: Charli	e Durret		_
Date Sar Time Sar	r Sample ID: T2C 5' mpled: 09/20/2007 mpled: 10:20 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/22	2/2007	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	3.28		0.50	mg/L	 09/26/07	 sur
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	ND ND ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/25/07 09/25/07 09/25/07 09/25/07	ydy ydy ydy
EPA 120.1 SW-846 9056	Specific Conductivity @ 25 degrees C, Soil Chloride, Soil	762 67.9	ł	1.0 4.0	* umhos/cm mg/Kg	09/26/07	
SW-846 8015B	I Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I I I ND		1000.00	ug/Kg	09/25/07	cac
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	1			09/24/07	klv
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	ND		8.3	mg/Kg	09/26/07	jps
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND ND		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl
SW-846 1312	Zero Head Space (ZHE) Extraction, Solid	Complete			mL	09/24/07	wkc
							E C

	LAB Job Number: 342749	BORATORY	TEST RES	SULT	S Date: 10/05/2	007					
CUSTOMER: Tet:	ra Tech,Inc.	PROJECT: W	IVATT A		ATTN: Charli	e Durret					
Date Sar Time Sar	r Sample ID: T3A 0-6" mpled: 09/20/2007 mpled: 10:55 Matrix: Soil			Laboratory Sample ID: 342749-13 Date Received: 09/22/2007 Time Received: 09:08							
TEST METHOD	PARAMETER/TEST DESCR	RIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECI			
EPA 120.1	Specific Conductivity @ 25 deg	prees C, Soil	492	1	1.0	* umhos/cm	09/26/07	sur			
W-846 9056	Chloride, Soil		29.2	Į.	4.0	mg/Kg	09/26/07	sur			
W-846 8015B	Total Volatile Petroleum Hydro TVPH as GRO, Soil	ocarbons	I ND		1000.00	ug/Kg	 09/26/07	cad			
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil		Complete				09/25/07	mra			
SW-846 8015B	Total Extractable Petroleum Hy TEPH - as Diesel, Soil	drocarbons	1400		830	mg/Kg	 09/26/07	jps			
3W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil		I ND ND ND ND		5 5 15	ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl			

USTOMER: Tet	ra Tech,Inc.	PROJECT: 1	WYATT A		ATTN: Charli	e Durret		
Date Sau Time Sau	r Sample ID: T3B 10' mpled: 09/20/2007 mpled: 12:06 Matrix: Soil				Laboratory Sampl Date Received Time Received	: 09/22	2/2007	
TEST METHOD	PARAMETER/TEST DES	SCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC
A300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP		5.31		0.50	mg/L	09/26/07	sur
W-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP		ND 32.7 11.1 65.1		5 5 5 15	ug/L ug/L	09/26/07 09/26/07 09/26/07 09/26/07	ydy ydy ydy
EPA 120.1 W-846 9056	Specific Conductivity @ 25 c	egrees C, Soll	1030	1	1.0 4.0	* umhos/cm mg/Kg	09/26/07	
W-846 8015B	Total Volatile Petroleum Hyd TVPH as GRO, Soil	drocarbons	1 1 1 714000		250000	ug/Kg	09/27/07	
W-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil		Complete	ŧ.			09/24/07	klv
W-846 8015B	Total Extractable Petroleum TEPH - as Diesel, Soil	Hydrocarbons	15000	Į.	2500	mg/Kg	09/26/07	jps
W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil		ND 14100 2620 26400		20 600 600 1900	ug/Kg ug/Kg	09/24/07 09/26/07 09/26/07 09/26/07	ydy ydy ydy
W-846 1312	Zero Head Space (ZHE) Extrac	ction, Solid	Complete			mL	09/25/07	wkc
								6 F I I
	L A B C Job Number: 342749	RATORY	TEST RES	SULT	S Date: 10/05/2	007		
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CUSTOMER: Tet:	ra Tech,Inc.	PROJECT: W	YATT A		ATTN: Charli	e Durret		
Date Sar Time Sar	r Sample ID: T3C 0-6" mpled: 09/20/2007 mpled: 11:06 Matrix: Soil				Laboratory Sampl Date Received Time Received	: 09/2	2/2007	
TEST METHOD	PARAMETER/TEST DESCRIP	TION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECI
EPA 120.1	Specific Conductivity @ 25 degre	es C, Soil	194	Ì	1.0	* umhos/cm	09/26/07	sur
SW-846 9056	Chloride, Soil		9.30	Ì	4.0	mg/Kg	09/26/07	sur
SW-846 8015B	Total Volatile Petroleum Hydroca TVPH as GRO, Soil	arbons	ND		1000.00	ug/Kg	 09/27/07	cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil		Complete				 09/25/07	mra
SW-846 8015B	Total Extractable Petroleum Hydr TEPH - as Diesel, Soil	ocarbons	1 12		8.3	mg/Kg	 09/26/07	jps
5W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil		 ND ND ND ND 		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl
			1				 	

	Job Number: 342749	TEST RE:	SULT	S Date: 10/05/2	007					
CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A	ATTN: Charlie Durret							
Date San Time San	r Sample ID: T4 0-6" mpled: 09/20/2007 mpled: 13:00 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/2	2/2007				
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH			
EPA 120.1	Specific Conductivity @ 25 degrees C, Soil	2890	1	1.0	* umhos/cm	09/26/07	sur			
W-846 9056	Chloride, Soil	285	Ì.	40	mg/Kg	09/26/07	sur			
W-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	1800000		250000	ug/Kg	 09/27/07	 cad			
W-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				 09/25/07	mra			
W-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	 27000		3300	mg/Kg	 09/27/07	jps			
₩-846 8260Β	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND 49900 11300 89400		20 6000 600 19000	ug/Kg ug/Kg ug/Kg ug/Kg	09/25/07 09/27/07 09/26/07 09/27/07	ydy ydy			

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CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A		ATTN: Charlie Durret						
Date Sau Time Sau	r Sample ID: T4 14' mpled: 09/20/2007 mpled: 13:20 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/22	2/2007				
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC			
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	56.3		5.0	mg/L	 09/26/07	sur			
5W-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	ND ND ND 25.6		5 5 5 15	ug/L ug/L ug/L ug/L	10/03/07 10/03/07 10/03/07 10/03/07	ydy ydy ydy			
EPA 120.1 SW-846 9056	Specific Conductivity @ 25 degrees C, Soil	4390 1310		1.0 40	* umhos/cm mg/Kg	09/26/07	1			
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	757000		250000	ug/Kg	09/27/07	cac			
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	ł			09/24/07	klv			
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	6500		830	mg/Kg	09/26/07	jps			
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND 48.8		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl zfl			
SW-846 1312	Zero Head Space (ZHE) Extraction, Solid	Complete			mL	10/02/07	wkc			

	Job Number: 342749	TEST RES	SULT	Date: 10/05/2	007					
CUSTOMER: Tet:	ra Tech, Inc. PROJECT: 1	WYATT A		ATTN: Charlie Durret						
Date San Time San	r Sample ID: T5 0-6" mpled: 09/20/2007 mpled: 13:37 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/2	2/2007				
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC			
EPA 120.1	Specific Conductivity @ 25 degrees C, Soil	462	1	1.0	* umhos/cm	09/26/07	sur			
W-846 9056	Chloride, Soil	58.8	l l	4.0	mg/Kg	09/26/07	sur			
W-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	 3530		1000.00	ug/Kg	 09/27/07	cad			
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				 09/25/07	 mra			
W-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	540	1	210	mg/Kg	09/27/07	jps			
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND ND		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl			

	mak Tua		ATTN: Charlie Durret							
CUSTOMER: Tet:	ra Tech, Inc. PROJECT: 1	WYATT A		AFIN: Charile Durret						
Date Sar Time Sar	r Sample ID: T5 5' mpled: 09/20/2007 mpled: 13:47 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/22	2/2007				
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC			
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	47.4		0.50	mg/L	 09/26/07	 sur			
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	I ND I ND I ND I ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/26/07 09/26/07 09/26/07 09/26/07	ydy ydy ydy			
EPA 120.1 SW-846 9056	Specific Conductivity @ 25 degrees C, Soil	3250 1110		1.0 40	* umhos/cm mg/Kg	09/26/07				
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I I I ND		1000.00	ug/Kg	09/26/07				
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	Į.			09/24/07	klv			
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	ND	Į.	8.3	mg/Kg	09/25/07	jps			
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	I ND I ND I ND I ND I ND		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl zfl			
SW-846 1312	Zero Head Space (ZHE) Extraction, Solid	Complete			mL	09/25/07 	wkc 			

CUSTOMER: Tet:	ra Tech, Inc. PROJECT: V	MATT A		ATTN: Charli	e Durret		
Custome: Date Sar Time Sar	r Sample ID: T6 0-6" mpled: 09/20/2007 mpled: 14:07 Matrix: Soil			Laboratory Sampl Date Received Time Received	e ID: 34274	2/2007	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
EPA 120.1	Specific Conductivity @ 25 degrees C, Soil	2300	1	1.0	* umhos/cm	09/26/07	sur
SW-846 9056	Chloride, Soil	726	Ì.	40	mg/Kg	09/26/07	sur
W-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	1120000		250000	ug/Kg	 09/27/07	cad
W-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				 09/25/07	 mra
W-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	11000		830	mg/Kg	09/26/07	jps
W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	481 13000 8880 36200		20 600 600 1900	ug/Kg ug/Kg ug/Kg	09/25/07 09/26/07 09/26/07 09/26/07	ydy ydy

CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	PROJECT: WYATT A ATTN: Charlie Durret									
Date Sar Time Sar	r Sample ID: T6 10' mpled: 09/20/2007 mpled: 14:20 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/22	2/2007					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECI				
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	21.9		0.50	mg/L	09/26/07	sur				
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	I ND I ND I ND I ND I ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/26/07 09/26/07 09/26/07 09/26/07	ydy ydy ydy				
EPA 120.1 SW-846 9056	Specific Conductivity @ 25 degrees C, Soil	1890 491		1.0 40	* umhos/cm mg/Kg	09/26/07					
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I ND		1000.00	ug/Kg	09/26/07	cad				
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	ł			09/24/07	klv				
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	63		8.3	mg/Kg	09/26/07	jps				
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND ND		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/25/07 09/25/07 09/25/07 09/25/07	zfl zfl zfl				
SW-846 1312	Zero Head Space (ZHE) Extraction, Solid	Complete			mL	09/25/07 	wkc				

USTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A ATTN: Charlie Durret								
Date Sar Time Sar	r Sample ID: T3A 5' mpled: 09/20/2007 mpled: 00:00 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/22	2/2007				
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC			
A300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	1 156		5.0	mg/L	 09/26/07	 sur			
W-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	ND ND ND ND ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/26/07 09/26/07 09/26/07 09/26/07	ydy ydy ydy			
EPA 120.1 W-846 9056	Specific Conductivity @ 25 degrees C, Soil Chloride, Soil	8980 3750		1.0 40	* umhos/cm mg/Kg	09/26/07	1			
W-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I I ND		1000.00	ug/Kg	09/26/07	i I I cad			
W-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete			-	09/24/07	klv			
W-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	600		83	mg/Kg	09/26/07	jps			
W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	I ND I ND I ND I ND		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/25/07 09/25/07 09/25/07 09/25/07	zfl			
W-846 1312	Zero Head Space (ZHE) Extraction, Solid	Complete			mL	09/25/07 	wkc			
					5					

	Job Number: 342749	TEST RES	SULT	Date: 10/05/2	007					
CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A	ATTN: Charlie Durret							
Date San Time San	c Sample ID: T3B 10' mpled: 09/20/2007 mpled: 00:00 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/22	2/2007				
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH			
EPA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	75.8		5.0	mg/L	 09/26/07	sur			
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	I ND ND ND ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/26/07 09/26/07 09/26/07 09/26/07	ydy ydy ydy			
EPA 120.1 SW-846 9056	Specific Conductivity @ 25 degrees C, Soil Chloride, Soil	4780 1570		1.0 40	* umhos/cm mg/Kg	09/26/07				
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I I I ND		1000.00	ug/Kg	09/26/07	i cad			
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	11			 09/24/07	klv			
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	31		8.3	mg/Kg	09/26/07	jps			
SW-846 8260B SW-846 1312	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil Zero Head Space (ZHE) Extraction, Solid	 ND ND ND ND Complete		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg mL	09/25/07 09/25/07 09/25/07 09/25/07 09/25/07	zfl zfl zfl			

CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	JECT: WYATT A ATTN: Charlie Durret								
Date Sar Time Sar	r Sample ID: T3C 5' mpled: 09/20/2007 mpled: 00:00 Matrix: Soil			Laboratory Sampl Date Received Time Received	: 09/22	2/2007				
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH			
EPA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	59.5		5.0	mg/L	 09/26/07	sur			
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	I I ND I ND I ND I ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/26/07 09/26/07 09/26/07 09/26/07	ydy ydy ydy			
EPA 120.1 SW-846 9056	Specific Conductivity @ 25 degrees C, Soil Chloride, Soil	4050 1510		1.0 40	* umhos/cm mg/Kg	09/26/07 09/26/07	1			
SW-846 8015B	I Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I I I ND		1000.00	ug/Kg	09/27/07	cad			
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	ł			09/24/07	klv			
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	I ND		8.3	mg/Kg	09/26/07	jps			
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil Zero Head Space (ZHE) Extraction, Solid	 ND ND ND ND Complete		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg mL	09/25/07 09/25/07 09/25/07 09/25/07 09/25/07	zfl zfl zfl			
SW 040 1512	All and a space (and) Exclation, Solid				nu					

QUALITY CONTROL RESULTS Job Number.: 342749

Report Date .: 10/05/2007

CUSTOMER: Tetra Tech, Inc.

PROJECT: WYATT A

ATTN: Charlie Durret

Me	st Method thod Descrip rameter	ption.: Ion	Chromatography	Analysis		: 186137	g/L		: sur de.: CHL
QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits F	Date Tim
ICV ICB MB		WCS46501	18.9739 0.0163 0.0102		20.00		94.9	90.0-110.	09/25/2007 190 09/25/2007 192 09/25/2007 194
LCS			19.3131 3.3970		20.00	3.3562	96.6 1.2	90.0-110. 20	09/25/2007 201 09/25/2007 211
MS	342735-1	WCS46233	12.6951		10.000000	3.3562	93.4	90-110	09/25/2007 214
CCV CCB		WCS46501	19.5329 0.0205		20.00		97.7	90.0-110.	09/25/2007 233 09/25/2007 235
CCV CCB MB		WCS46501	19.6673 0.0172 0.0122		20.00		98.3	90.0-110.	09/26/2007 040 09/26/2007 042 09/26/2007 044
LCS			19.6965 1.1236		20.00	1.1288	98.5 0.0052	90.0-110. 0.5000	09/26/2007 051 09/26/2007 081
CCV CCB		WCS46501	19.7207 0.0216		20.00		98.6	90.0-110.	09/26/2007 083 09/26/2007 085
MS DU	342749-14 342749-17	WCS46233	10.8806 13.1438		10.000000	1.1288 13.1128	97.5 0.2	90-110 20	09/26/2007 091 09/26/2007 111
MS	342749-17	WCS46233	22.3670		10.000000	13.1128	92.5	90-110	09/26/2007 113
CCV CCB		WCS46501	20.0240 0.0175		20.00		100.1	90.0-110.	09/26/2007 130 09/26/2007 132
CCV CCB		WCS46501	19.9552 0.0162		20.00		99.8	90.0-110.	09/26/2007 151 09/26/2007 154

Test Method.....: EPA 120.1 Method Description: Specific Conductance @ 25 degrees C Parameter.....: Specific Conductivity @ 25 degrees C Batch(s)...: 186141 Analyst...: sur Test Code.: COND

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F Date	Time
LCS	18614121	WC3926	10.11	-	10		101.1	90.0-110.	09/26/20	07 1720
CCV		WC3910	107.0		100		107.0	90.0-110.	09/26/20	07 1720
CCV		WC3753	1012		1000		101.2	90.0-110.	09/26/20	07 1720
DU	342735-1		1647			1650	0.2	20	09/26/20	07 1720
CCV		WC3910	106.5		100		106.5	90.0-110.	09/26/20	07 1720
CCB			0.19						09/26/20	07 1720
MB	18614121		0.20						09/26/20	07 1720
DU	342749-10		1448			1450	0.1	20	09/26/20	07 1720
CCB			0.20						09/26/20	07 1720
CCV		WC3753	1007		1000		100.7	90.0-110.	09/26/20	07 1720
CCB			0.21						09/26/20	07 1720
MB	18614121		0.23						09/26/20	07 1720
LCS	18614121	WC3926	10.07		10		100.7	90.0-110.	09/26/20	07 1720
DU	342749-24		4030			4050	0.5	20	09/26/20	07 1720
CCV		WC3910	106.7		100		106.7	90.0-110.	09/26/20	07 1720
CCB			0.21						09/26/20	07 1720
DU	342481-7		26300			26400	0.4	20	09/26/20	07 1720
CCV		WC3753	1005		1000		100.5	90.0-110.	09/26/20	07 1720

Page 26 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

49.0-151.0

	Job Number.: 342749	QUALITY	CONTRO	LR	ESUL	ΓS	Report	Date.: 10/	05/2007	
CUSTOMER:	Tetra Tech, Inc.	PROJ	ECT: WYATT A				ATTN:	Charlie Dur	ret	
QC Type	Description		Reag. Cod	е	Lab	ID	Dilut	tion Factor	Date	Time
	od: SW-846 8015B scription.: Total Volatile Pe	troleum Hydrocar			: ນ 186215	g/L		Analy	st: cad	
LCS	Laboratory Control Sample	2	BXS091907F		186215-	1	1		09/25/2007	1622
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limits	5 F
VPH as GRO,	Soil	221.815		-	250.00000	0		88.7	49-15	51
LCS	Laboratory Control Sample	t.	BXS091907F		186215-	2			09/26/2007	1330
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limits	s F
VPH as GRO,	Soil	272.528		3	250.00000	0		109.0	49-15	51
MB	Method Blank		1		186215-	1			09/25/2007	1726
Par	rameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limits	5 F
VPH as GRO,	Soil	ND				-				
MB	Method Blank				186215-	2			09/26/2007	1436
Par	cameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limits	5 F
VPH as GRO,	Soil	11.3189								
MS	Matrix Spike		BX051707A		342749-	6			09/25/2007	2017
Par	cameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limits	s F
VPH as GRO,	Soil	261.319			250.00000	0 1	10.8231	100.2	50.0-15	50.0
MSD	Matrix Spike Duplicate		BX051707A		342749-	6			09/25/2007	2042
Par	cameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limits	s F
VPH as GRO,	Soil	257.929	261.319		250.00000	0 1	10.8231	98.8 1.3	50-15 20	50
SB	Spiked Blank		BX051707A		186215-	2			09/26/2007	1934
	rameter/Test Description	QC Result	QC Result		e Value		Value		lt * Limits	s F

310.357

TVPH as GRO, Soil

Page 27 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

11.3189

120

250.000000

	Job Number.: 342749	QUALITY	CONTRO	LRE	SULI	r s	Report	Date.: 10/0	05/2007	
CUSTOMER:	Tetra Tech, Inc.	PROJ	ECT: WYATT A				ATTN:			
QC Type	Description		Reag. Coo	de	Lab	ID	Dilut	ion Factor	Date	Time
SBD	Spiked Blank Duplicate		BX051707A		186215-2	2			09/26/2007	1958
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resul	t * Limit	s E
WPH as GRO,	Soil	277.364	310.357	25	50.000000) 1	1.3189	106.4 11.2	49-1 20	51
	d: EPA300.0 REV2.1 cription.: Ion Chromatograph	y Analysis			.86078 18			Analys	st: sur	
CCB	Continuing Calibration Bl	ank	1						09/25/2007	1716
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resul	t * Limit	s E
hloride		0	-							
CCV	Continuing Calibration Ve	rification	WCS46501						09/25/2007	1700
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resul	t * Limit.	s F
hloride		19.546		2	20.00			97.7	90.0-1	10.0
DU	Method Duplicate				342749-	5			09/25/2007	1554
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resul	t * Limit.	s E
hloride, SP	LP	5.6761					5.7883	2.0	20	
ICB	Initial Calibration Blank			T					09/25/2007	1420
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resul	t * Limit.	s I
hloride		0								22
ICV	Initial Calibration Verif	ication	WCS46049						09/25/2007	1404
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resul	t * Limit.	s B
hloride		19.620		2	20.00			98.1	90.0-1	10.0
LCS	Laboratory Control Sample		WCS46501						09/25/2007	1451
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resul	t * Limit	s F
hloride		19.489		2	20.00	-		97.4	90.0-1	10.0

Page 28 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

	Job Number.: 342749	QUALITY	CONTRO	L R	ESULT	S	Repor	t Date.: 10/	05/2007	
CUSTOMER:	Tetra Tech,Inc.	PROJ	ECT: WYATT A				ATTN:			
QC Type	Descriptio	n	Reag. Coo	de	Lab	ID	Dilu	tion Factor	Date	Time
MB	Method Blank		-						09/25/2007	1435
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limit	s F
Chloride		0				-				
MB	Method Blank		PLP						09/25/2007	1507
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limit	s F
Chloride, SP	LP	1.3641		-		-				b
MS	Matrix Spike		WCS46233		342749-5				09/25/2007	1609
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limit	s F
Chloride, SP	LP	15.152			10.000000)	5.7883	93.6	90-1	10
CCB	Continuing Calibration B	lank							09/26/2007	1115
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limit	s F
Chloride		0								
CCB	Continuing Calibration B	lank							09/26/2007	1335
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limit	s F
Chloride		0								
CCV	Continuing Calibration V	erification	WCS46501						09/26/2007	1059
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limit	s F
Chloride		19.649			20.00			98.2	90.0-1	10.0
CCV	Continuing Calibration V	erification	WCS46501						09/26/2007	1320
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limit	s F
Chloride		19.545			20.00			97.7	90.0-1	10.0
DU	Method Duplicate				342749-1	.0			09/26/2007	0957
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limit	s F
Chloride, SP	LP	11.099		-			11.324	2.0	20	

Page 29 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

	Job Number.: 342749	QUALITY	CONTRO	LRI	ESUL	TS	Repor	t Date.: 10/	05/2007
CUSTOMER:	Tetra Tech,Inc.	PROJ	ECT: WYATT A				ATTN:		
QC Type	Description	n	Reag. Co	de	Lab	ID	Dilu	tion Factor	Date Time
ICB	Initial Calibration Blan	k		1	-				09/26/2007 083
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resu	lt * Limits
Chloride		0							
ICV	Initial Calibration Veri	fication	WCS46049						09/26/2007 082
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resu	lt * Limits
Chloride		19.937		2	20.00			99.7	90.0-110.0
LCS	Laboratory Control Sample	e	WCS46501						09/26/2007 091
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resu	lt * Limits
Thloride		19.770			20.00	-		98.8	90.0-110.0
MB	Method Blank								09/26/2007 085
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resu	lt * Limits
hloride		0							
MB	Method Blank		PLP						09/26/2007 092
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resu	lt * Limits
Chloride, SP	LP	1.3524		1			-		
MS	Matrix Spike		WCS46233		342749-	10			09/26/2007 101
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resu	lt * Limits
Chloride, SP	LP	20.950			10.00000	0 1	1.324	96.3	90-110
	d: SW-846 8015B cription.: Total Extractable	e Petroleum Hydro			: m 186220 1			Analy	st: jps
LCS	Laboratory Control Sample	e	GC053007		185984				09/25/2007 204
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resu	lt * Limits
TEPH - as Di	esel, Soil	1021.06		100	00.00000	0		102.1	70-130

Page 30 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

	Job Number.: 342749						Nehot C	Date.: 10/0	512001	
CUSTOMER:	Tetra Tech,Inc.	PROJ	ECT: WYATT A			1	ATTN:			
QC Type	Description		Reag. Cod	e	Lab	ID	Dilut	ion Factor	Date	Time
MB	Method Blank		GC091507		185984				09/25/2007	195
Par	ameter/Test Description	QC Result	QC Result	Tru	e Value	Orig. Va	alue	Calc. Resul	t * Limit:	s I
EPH - as Di	esel, Soil	ND						-		
MS	Matrix Spike		GC053007A		342749-1	.1			09/25/2007	204
Par	ameter/Test Description	QC Result	QC Result	Tru	e Value	Orig. Va	alue	Calc. Resul	t * Limit:	s J
EPH - as Di	esel, Soil	1217.34		1	000.00000	380	.74	84	70-13	30
MSD	Matrix Spike Duplicate		GC053007A		342749-1	.1			09/25/2007	212
Par	ameter/Test Description	QC Result	QC Result	Tru	e Value	Orig. Va	alue	Calc. Resul	t * Limit:	s
EPH - as Di	esel, Soil	1289.60	1217.34	1	000.00000	380	.74	91 5.8	70-13 30.0	30
LCS	Laboratory Control Sample		GC053007		186054				09/26/2007	140
Par	ameter/Test Description	QC Result	QC Result	Tru	e Value	Orig. Va	alue	Calc. Resul	t * Limit:	s
EPH - as Di	esel, Soil	1222.59		1	000.00000)		122.3	70-13	30
MB	Method Blank		GC091507		186054				09/26/2007	132
Par	ameter/Test Description	QC Result	QC Result	Tru	e Value	Orig. Va	alue	Calc. Resul	t * Limit:	s
EPH - as Di	esel, Soil	ND		-	· · · · · ·					
MS	Matrix Spike		GC053007A		342749-1	5			09/26/2007	140
Par	ameter/Test Description	QC Result	QC Result	Tru	e Value	Orig. Va	alue	Calc. Resul	t * Limit:	s
EPH - as Di	esel, Soil	1634.75		1	000.00000	371	.27	126	70-13	30
MSD	Matrix Spike Duplicate		GC053007A		342749-1	.5			09/26/2007	145
Par	ameter/Test Description	QC Result	QC Result	Tru	e Value	Orig. Va	alue	Calc. Resul	t * Limit:	5]

Page 31 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

	Job Number.: 342749	QUALITY	CONTRO	L RESUL		Report Date.: 10/05/2007				
CUSTOMER:	Tetra Tech, Inc.	PROJ	ECT: WYATT A	1.1	ATTN:	9				
QC Type	Description	1	Reag. Coo	le Lat	Dilu Dilu	tion Factor	Date Time			
	od: SW-846 8260B ccription.: Volatile Organics	1	Units. Batch(s	⇒): 186047 1	ng/L .86090 186118 1		st: zfl 186613			
LCS	Laboratory Control Sample	1	VS091807E				09/24/2007 1341			
Par	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Resu	lt * Limits F			
Benzene, Soi Ethylbenzene Toluene, Soi Xylenes (tot	e, Soil 1	44.9146 46.8896 44.6123 143.663		50.00 50.00 50.00 150.0	ND ND ND ND	89.8 93.8 89.2 95.8	68-121 66-130 66-127 37-160			
MB	Method Blank		VS091807C				09/24/2007 1432			
Par	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Resu	lt * Limits F			
enzene, Soil ND thylbenzene, Soil ND oluene, Soil ND ylenes (total), Soil ND										

MS Matrix Spike		VS091807E	342749-	-3		09/2	4/2007	1550
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	t *	Limits	F
Benzene, Soil	43.5589		50.00	ND	87		65-135	
Ethylbenzene, Soil	44.1230		50.00	ND	88		60-140	
Toluene, Soil	43.9908		50.00	ND	88		64-135	į.
Xylenes (total), Soil	137.509		150.0	ND	92		60-140	

MSD	Matrix Spike Duplicate		VS091807E	342749-	-3		09/24/2007 1615
Para	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits F
Benzene, Soil	1	44.5338	43.5589	50.00	ND	89 2.2	65-135 30.0
Ethylbenzene,	, Soil	42.8797	44.1230	50.00	ND	86	60-140 30.0
Toluene, Soil	1	42.9673	43.9908	50.00	ND	86 2.4	64-135 30.0
Xylenes (tota	al), Soil	132.005	137.509	150.0	ND	88 4.1	60-140 30.0

	Job Number.: 342749	QUALITY	CONTRO	LR	ESUL		eport Date.: 1	0/05/2007		
CUSTOMER: 1	Tetra Tech, Inc.	PROJI	ECT: WYATT A			ΓA	TIN:			
QC Type	Description		Reag. Coc	е	Lab	ID I	Dilution Facto	r Date		Time
LCS	Laboratory Control Sample		VS091807H	1	-			09/25/2	2007	1328
Para	ameter/Test Description	QC Result	QC Result	True	Value	Orig. Val	ue Calc. Re	sult * L	imits	E
Benzene, Wate Cthylbenzene, Coluene, Wate Kylenes (tota	, Water er	49.0033 47.3537 49.2324 150.7994			50.00 50.00 50.00 50.	ND ND ND 0.0	98.0 94.7 98.5 0000 100.5		68-12 64-13 63-12 37-16	2 7
MB	Method Blank		VS091807C					09/25/2	2007	1420
Para	ameter/Test Description	QC Result	QC Result	True	Value	Orig. Val	ue Calc. Re	sult * L	imits	F
Benzene, Wate Ethylbenzene, Toluene, Wate Xylenes (tota	, Water er	ND ND ND 0.0000								
PB	Prep. Blank		VS091807C					09/25/2	2007	1354
Para	ameter/Test Description	QC Result	QC Result	True	Value	Orig. Val	ue Calc. Re	sult * L:	imits	F
Benzene, SPLE Ethylbenzene, Foluene, SPLE Kylenes (tota	, SPLP P	ND ND ND 0.0000								
LCS	Laboratory Control Sample		VS091807E	T				09/25/2	2007	1216
Para	ameter/Test Description	QC Result	QC Result	True	Value	Orig. Val	ue Calc. Re	sult * L	imits	F
Benzene, Soil Ethylbenzene, Foluene, Soil Kylenes (tota	, Soil 1	42.8156 43.8557 44.0519 132.846			50.00 50.00 50.00 50.0	ND ND ND ND	85.6 87.7 88.1 88.6		68-12: 66-13(66-12) 37-16(0 7
MB	Method Blank		VS091807C		1			09/25/2	2007	1347
Para	ameter/Test Description	QC Result	QC Result	True	Value	Orig. Val	ue Calc. Re	sult * L	imits	E
Benzene, Soil Sthylbenzene, Toluene, Soil Kylenes (tota	, Soil l	ND ND ND ND								
MS	Matrix Spike		VS091807E		342749-	21		09/25/2	2007	1556
Para	ameter/Test Description	QC Result	QC Result	True	Value	Orig. Val	ue Calc. Re	sult * L	imits	F
Benzene, Soil Ethylbenzene, Foluene, Soil Xylenes (tota	, Soil 1	44.7469 46.1141 45.7658 142.263			50.00 50.00 50.00 50.0	ND ND ND ND	89 92 92 95		65-13 60-14 64-13 60-14	0 5

Page 33 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

CUSTOMER:	Tetra Tech, Inc.	PROJ	CT: WYATT A			ATTN:	0.		
QC Type	Description		Reag. Code	e	Lab	ID Dilu	tion Factor	Date	Time
MSD	Matrix Spike Duplicate		VS091807E	13	342749-	21		09/25/2007	162
Par	rameter/Test Description	QC Result	QC Result	True '	Value	Orig. Value	Calc. Result	t * Limit	s
enzene, Soi	1	45.3178	44.7469	.5	0.00	ND	91	65-1	.35
thylbenzene	, Soil	44.6912	46.1141	5	0.00	ND	1.3 89	30.0 60-1	40
oluene, Soi	11	45.2052	45.7658	5	0.00	ND	3.1 90	30.0 64-1	35
ylenes (tot		139.109	142.263	15	0.0	ND	1.2 93	30.0 60-1	40
granes (cor	ar,, sorr	133.103	142.200	10	0.0	ЦD	2.2	30.0	40
LCS	Laboratory Control Sample		VS091807H					09/26/2007	114
Par	rameter/Test Description	QC Result	QC Result	True	Value	Orig. Value	Calc. Result	t * Limit	s
enzene, Wat Sthylbenzene Soluene, Wat Sylenes (tot	e, Water	45.2609 42.7360 44.3166 132.670		5	0.00 0.00 0.00 0.	ND ND ND ND	90.5 85.5 88.6 88.4	68-1 64-1 63-1 37-1	.32 .27
MB	Method Blank		VS091807C					09/26/2007	133
Par	rameter/Test Description	QC Result	QC Result	True '	Value	Orig. Value	Calc. Result	t * Limit	s
enzene, Wat thylbenzene oluene, Wat	er e, Water	QC Result ND ND ND ND ND	QC Result	True '	Value	Orig. Value	Calc. Result	t * Limit 	S
enzene, Wat thylbenzene oluene, Wat	er e, Water er	ND ND ND	QC Result VS091807E		Value 342749-		Calc. Result	t * Limit	
enzene, Wat thylbenzene oluene, Wat ylenes (tot MS	er e, Water er cal), Water	ND ND ND			342749-		Calc. Result Calc. Result	09/26/2007	154
enzene, Wat chylbenzene oluene, Wat ylenes (tot MS Par enzene, Wat chylbenzene oluene, Wat	er e, Water ter tal), Water Matrix Spike rameter/Test Description ter e, Water	ND ND ND ND	VS091807E	True 5 55 55	342749-	23		09/26/2007	154 s 25 40 25
enzene, Wat thylbenzene oluene, Wat ylenes (tot MS Par enzene, Wat thylbenzene oluene, Wat	Matrix Spike cameter/Test Description cer c, Water cer cer cer	ND ND ND QC Result 48.6620 53.2043 51.4461	VS091807E	True 5 5 5 15	342749- Value 0.00 0.00 0.00	23 Orig. Value ND ND ND ND	Calc. Result 97 106 103	09/26/2007 t * Limit 65-1 60-1 76-1	154 s 25 40 25 40
enzene, Wat thylbenzene oluene, Wat ylenes (tot MS Par enzene, Wat thylbenzene, Wat ylenes (tot MSD	ter e, Water ter tal), Water Matrix Spike rameter/Test Description ter e, Water ter tal), Water	ND ND ND QC Result 48.6620 53.2043 51.4461	VS091807E QC Result	True 5 5 5 15	342749- Value 0.00 0.00 0.00 0.0 342749-	23 Orig. Value ND ND ND ND	Calc. Result 97 106 103	09/26/2007 t * Limit 65-1 60-1 76-1 37-1 09/26/2007	154 s 25 40 25 40 25 40
enzene, Wat thylbenzene oluene, Wat ylenes (tot MS Par enzene, Wat thylbenzene oluene, Wat ylenes (tot MSD Par	Atrix Spike Matrix Spike Ameter/Test Description Atrix Spike Matrix Spike Duplicate Matrix Spike Duplicate	ND ND ND QC Result 48.6620 53.2043 51.4461 163.080	VS091807E QC Result VS091807E	True ' 55 55 15' True '	342749- Value 0.00 0.00 0.00 0.0 342749-	23 Orig. Value ND ND ND ND 23	Calc. Result 97 106 103 109 Calc. Result 98	09/26/2007 t * Limit 65-1 60-1 76-1 37-1 09/26/2007 t * Limit 65-1	154 25 40 25 40 160 5
enzene, Wat thylbenzene oluene, Wat ylenes (tot MS Pan enzene, Wat thylbenzene oluene, Wat ylenes (tot MSD Pan enzene, Wat	Ter e, Water ter tal), Water Matrix Spike rameter/Test Description ter e, Water tal), Water Matrix Spike Duplicate rameter/Test Description ter	ND ND ND QC Result 48.6620 53.2043 51.4461 163.080 QC Result	VS091807E QC Result VS091807E QC Result	True 5 55 15 True 5	342749- Value 0.00 0.00 0.00 0.0 342749- Value	23 Orig. Value ND ND ND ND 23 Orig. Value	Calc. Result 97 106 103 109 Calc. Result 98 0.5 106	09/26/2007 t * Limit 65-1 60-1 76-1 37-1 09/26/2007 t * Limit 65-1 30.0 60-1	154 s 25 40 25 40 160 s 25 25
enzene, Wat thylbenzene oluene, Wat ylenes (tot MS Par enzene, Wat thylbenzene, Wat ylenes (tot MSD	Ter e, Water ter tal), Water Matrix Spike rameter/Test Description ter e, Water tal), Water Matrix Spike Duplicate rameter/Test Description ter e, Water	ND ND ND ND QC Result 48.6620 53.2043 51.4461 163.080 QC Result 48.9253	VS091807E QC Result VS091807E QC Result QC Result 48.6620	True 1 5: 5: 5: 15: 15: True 1 5: 5:	342749- Value 0.00 0.00 0.00 342749- Value 0.00	23 Orig. Value ND ND ND 23 Orig. Value ND	Calc. Result 97 106 103 109 Calc. Result 98 0.5	09/26/2007 t * Limit 65-1 60-1 76-1 37-1 09/26/2007 t * Limit 65-1 30.0	154 s 25 40 25 40 25 40 160 s 25 40

Page 34 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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	Job Number.: 342749	QUALITY	CONTRO	LRI	ESULI		Date.: 10/0	5/2007	
CUSTOMER: T	etra Tech,Inc.	PROJ	ECT: WYATT A			ATTN:			
QC Type	Description		Reag. Coc	le	Lab	ID Dilut	ion Factor	Date 1	Cime
PB	Prep. Blank		VS091807C		-			09/26/2007	1307
Para	meter/Test Description	QC Result	QC Result	True	Value	Orig. Value	Calc. Result	t * Limits	I
Benzene, SPLP Ethylbenzene, Toluene, SPLP Kylenes (tota	SPLP	ND ND ND ND					<u></u>		
LCS	Laboratory Control Sample		VS091807H					09/26/2007	1241
Para	meter/Test Description	QC Result	QC Result	True	Value	Orig. Value	Calc. Result	t * Limits	I
Benzene, Soil Ethylbenzene, Toluene, Soil Xylenes (tota	Soil	49.1315 49.6124 49.8780 153.142			50.00 50.00 50.00 50.	ND ND ND ND	98.3 99.2 99.8 102.1	68-121 66-130 66-12 37-160) 7
MB	Method Blank		VS091807C					09/26/2007	1359
Para	meter/Test Description	QC Result	QC Result	True	Value	Orig. Value	Calc. Result	t * Limits	F
Benzene, Soil Sthylbenzene, Toluene, Soil Kylenes (tota	Soil	ND ND ND ND							
MS	Matrix Spike		VS091807E		342749-2	2		09/26/2007	2002
Para	meter/Test Description	QC Result	QC Result	True	Value	Orig. Value	Calc. Result	t * Limits	Ŧ
Benzene, Soil Ethylbenzene, Toluene, Soil Xylenes (tota	Soil	56.2328 176.603 91.7363 380.668			50.00 50.00 50.00 50.0	ND 115.203 28.5907 191.859	112 123 126 126	65-135 60-140 64-135 60-140	5
MSD	Matrix Spike Duplicate		VS091807E		342749-2	2		09/26/2007	2028
Para	meter/Test Description	QC Result	QC Result	True	Value	Orig. Value	Calc. Result	t * Limits	E
Benzene, Soil		65.5534	56.2328		50.00	ND	131 15.3	65-135 30.0	5
Ethylbenzene,	Soil	186.309	176.603		50.00	115.203	142	60-140) 1
Toluene, Soil		100.944	91.7363	3	50.00	28.5907	5.3 145 9.6	30.0 64-135 30.0	5 A

Page 35 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

CUSTOMER: 7	Tetra Tech, Inc.	PROJE	ECT: WYATT A				ATTN:			
QC Type	Description		Reag. Cod	le	Lab	ID	Dilut	ion Factor	Date	Time
LCS	Laboratory Control Sample		VS100207H	-	-				10/03/2007	1210
Para	ameter/Test Description	QC Result	QC Result	True	Value	Orig. V	Value	Calc. Resul	lt * Limit	s E
Cenzene, Wate Cthylbenzene, Coluene, Wate Cylenes (tota	. Water er	52.3673 55.5195 53.9257 167.722		5	0.00 0.00 0.00 0.	NE NE NE)	104.7 111.0 107.9 111.8	68-1 64-1 63-1 37-1	.32 .27
MB	Method Blank		VS100207C						10/03/2007	1453
Para	ameter/Test Description	QC Result	QC Result	True	Value	Orig. V	Value	Calc. Resul	lt * Limit	s E
enzene, Wate thylbenzene, Coluene, Wate Gylenes (tota	. Water er	ND ND ND ND								
MS	Matrix Spike		VS100207E		343094-1	L.	5000.	.0000	10/03/2007	1615
Para	ameter/Test Description	QC Result	QC Result	True	Value	Orig. V	Value	Calc. Resu	lt * Limit	s F
enzene, TCLI	2	39.6452		5	0.00	NE)	79	63-1	.23
MSD	Matrix Spike Duplicate		VS100207E		343094-1	L	5000.	.0000	10/03/2007	1642
Para	ameter/Test Description	QC Result	QC Result	True	Value	Orig. V	Value	Calc. Resul	lt * Limit	s F
enzene, TCLI		39.7260	39.6452	5	0.00	NE)	79 0.2	63-1 30.0	.23
PB	Prep. Blank	-	VS100207C				20.00	0000	10/03/2007	1359
Para	ameter/Test Description	QC Result	QC Result	True	Value	Orig. V	<i>Talue</i>	Calc. Resul	lt * Limit	s E
Benzene, TCLH Sthylbenzene, Coluene, TCLH Sylenes (tota	TCLP	ND ND ND ND				-				
PB	Prep. Blank		VS100207C						10/03/2007	1426
Para	ameter/Test Description	QC Result	QC Result	True	Value	Orig. V	/alue	Calc. Resul	lt * Limit	s E
enzene, SPLE thylbenzene, oluene, SPLE	SPLP	ND ND ND ND								

Page 36 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

CUSTOMER: Tetra Tech, Inc.	PROJECT: WYATT A	ATIN: Charlie Durret
Method: Total Extractable Batch(s): 186220	Petroleum Hydrocarbons Method Code Test Matrix	이 이것 가지 못했다. 이 가지 않는 것은 것 가지 않는 것 것 같아요. 가지 않는 것 같아요. 이 있 것 같아요. 이 것 ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?
Lab ID DT Sample ID	Date OTERPH	
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	09/25/2007 118 09/26/2007 750d 09/25/2007 105 09/25/2007 105 09/26/2007 115 09/26/2007 102 09/26/2007 91 09/25/2007 109 09/25/2007 109 09/25/2007 106 09/26/2007 106 09/26/2007 846d 09/26/2007 414d	
42749-19 T5 5' 42749-21 T6 10' 42749-22 T3A 5' 42749-23 T3B 10' 42749-24 T3C 5' 8598421 LCS 8598421 MB	09/25/2007 94 09/26/2007 115 09/26/2007 144d 09/26/2007 120 09/26/2007 102 09/25/2007 106 09/25/2007 107	
Test Test Description	Limits	
TERPH o-Terphenyl	60 - 140	

Lab ID	DT	Sample ID	Date	OTERPH	
342749- 7		T2A 0-6"	09/26/2007	108	
342749- 8		T2B 0-6"	09/26/2007	216d	
342749- 9		T2C 0-6"	09/27/2007	124	
342749- 13		T3A 0-6"	09/26/2007	152d	
342749- 15		T3C 0-6"	09/26/2007	118	
342749- 15 MS		T3C 0-6"	09/26/2007	122	
342749- 15 MSE	2	T3C 0-6"	09/26/2007	109	
342749- 16		T4 0-6"	09/27/2007	1952d	
342749- 18		T5 0-6"	09/27/2007	121	
342749- 20		T6 0-6"	09/26/2007	342d	
18605421 LCS			09/26/2007	121	
18605421 MB			09/26/2007	110	
Test Tes	t Des	scription	Limits		
OTERPH 0-T	erphe	enyl	60 - 140		

SURROGATE RECOVERIES REPORT Job Number.: 342749

Report Date.: 10/05/2007

CUSTOMER: 48364

	miles 7 17 7 2 1 4 1 1 miles		1.101	06150	D D. t. l
	: Total Volatile Pet		thod Code. st Matrix.		Prep Batch: Equipment Code: BTEX07
Lab ID	DT Sample ID	Date	ATFT	BFB	
186215- 1 LCS		09/25/20	07 89.2	90.6	
86215- 1 MB		09/25/20	07 99.8	95.0	
186215- 2 LCS		09/26/20	07 97.8	94.4	
186215- 2 MB		09/26/20	07 99.3	94.8	
186215- 2 SB		09/26/20	07 103.6	91.4	
186215- 2 SBD		09/26/20	07 99.0	98.6	
342749- 1	T1A 0-6"	09/26/20	07 108.2	98.6	
342749- 2	T1B 0-6"	09/26/20	07 247.2d	1587.d	
342749- 3	T1C 0-6"		07 105.0	93.6	
342749- 4	T1A 5'	09/25/20	07 110.8	98.5	
342749- 5	T1B 5'	09/25/20	07 104.5	92.5	
342749- 6	T1C 5'	09/25/20		94.2	
342749- 6 MS	T1C 5'	09/25/20	07 102.5	98.0	
342749- 6 MSD	T1C 5'	09/25/20	07 98.2	95.4	
342749- 7	T2A 0-6"	09/25/20	07 106.0	94.8	
342749- 8	T2B 0-6"	09/25/20	07 140.1	111.0	
342749- 9	T2C 0-6"	09/25/20	07 108.8	97.6	
342749- 10	T2A 5'	09/25/20		99.0	
342749- 11	T2B 5'	09/25/20		103.4	
342749- 12	T2C 5'	09/25/20	07 115.1	101.4	
342749- 13	T3A 0-6"	09/26/20		98.7	
342749- 14	T3B 10'		07 247.0d		
342749- 15	T3C 0-6"		07 107.0	96.0	
342749- 16	T4 0-6"	09/27/20			
342749- 17	T4 14'	09/27/20			
342749- 18	T5 0-6"	09/27/20		100.0	
342749- 19	T5 5'	09/26/20		97.2	
342749- 20	T6 0-6"	09/27/20	07 127.1	1213.d	
342749- 21	T6 10'	09/26/20		87.5	
342749- 22	T3A 5'		07 103.4	92.4	
342749- 23	T3B 10'	09/26/20		94.2	
342749- 24	T3C 5'	09/27/20	07 107.7	95.4	
Test Test	Description	Limits			
ATFT a,a,	a-Trifluorotoluene	50 - 150			

SURROGATE RECOVERIES REPORT Job Number.: 342749

Report Date.: 10/05/2007

CUSTOMER: 483648

PROJECT: WYATT A

ATTN: Charlie Durret

Method: Volatile Organics Batch(s): 186090 186177 186613			d Code Matrix	Prep Batch: Equipment Code: GCMSVOA03				
Lab ID	DT	Sample ID		Date	12DCED	BRFLBE	DBRFLM	TOLDS
LCS		14 T		9/26/2007	104.5	110.5	103.0	105.2
MB				9/26/2007	99.2	111.4	99.7	113.2
1860902				9/25/2007	108.8	119.1	107.2	110.6
1860902				9/25/2007	107.4	111.7	106.2	109.3
342749- 2		T3B 10'		9/26/2007	106.9	117.5	103.7	112.0
342749- 2	all all the set of the	T3B 10'		9/26/2007	109.5	114.8	106.5	113.7
1866132				0/03/2007	87.6	100.0	94.2	100.1
1866132				0/03/2007	85.5	121.6	93.5	101.5
1866132	21 LCS		1	0/03/2007	84.5	102.7	92.4	104.6
Test	Test Des	scription	Limits					
12DCED	1,2-Dich	hloroethane-d4	70 - 130					
BRFLBE	4-Bromot	fluorobenzene	70 - 130					
DBRFIM		fluoromethane	70 - 130					
TOLD8	Toluene-	-d8	70 - 130					

		: Volatile Organics : 186090 186177 1866		od Code Matrix			Prep Batch: Equipment Code: GCMSVOA03
Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFIM	TOLD8
18600521 PB		5	09/25/2007	102.5	112.9	104.2	107.8
18607621 PB			09/26/2007	106.2	116.2	108.4	114.8
18650121 PB			10/03/2007	84.4	123.2	93.1	101.5
342749- 4		T1A 5'	09/25/2007	104.1	114.9	103.5	110.8
342749- 4 MS		T1A 5'	09/25/2007	107.0	114.0	104.1	110.6
342749- 4 MSD		T1A 5'	09/25/2007	106.0	114.9	107.4	110.9
342749- 5		T1B 5'	09/25/2007	102.4	112.7	103.0	110.1
342749- 6		T1C 5'	09/25/2007	99.4	112.6	101.8	112.5
342749- 10		T2A 5'	09/25/2007	103.1	117.0	100.6	112.7
342749- 11		T2B 5'	09/25/2007	107.0	118.6	103.7	112.5
342749- 12		T2C 5'	09/25/2007	106.6	116.0	106.8	110.6
342749- 14		T3B 10'	09/26/2007	107.1	113.9	106.3	110.3
342749- 17		T4 14'	10/03/2007	83.7	98.6	90.7	101.5
342749- 19		T5 5'	09/26/2007	105.1	118.5	107.3	109.6
342749- 21		T6 10'	09/26/2007	98.0	115.8	101.8	108.9
342749- 22		T3A 5'	09/26/2007	104.2	116.4	106.1	108.6
342749- 23		T3B 10'	09/26/2007	106.0	112.6	103.5	108.7
342749- 24		T3C 5'	09/26/2007	105.1	119.3	107.9	111.4
Test Tes	t Des	scription	Limits				
12DCED 1,2	-Dich	loroethane-d4	70 - 130				
		luorobenzene	70 - 130				
		luoromethane	70 - 130				
TOLD8 Tol	uene-	-d8	70 - 130				

SURROGATE RECOVERIES REPORT Job Number.: 342749 Re

Report Date .: 10/05/2007

CUSTOMER:	483648

PROJECT: WYATT A

ATTN: Charlie Durret

		: Volatile Organics : 186047 186118 18622		d Code Matrix			Prep Batch: Equipment Code: GCMSVOA03
Lab ID	DI	' Sample ID	Date	12DCED	BRFLBE	DBRFIM	TOLD8
LCS	192		09/26/2007	108.1	120.5	108.1	111.6
1B			09/26/2007	102.8	119.8	105.0	111.5
8604721	ICS		09/24/2007	92.5	110.1	108.1	102.8
8604721			09/24/2007	73.5	87.1	81.6	75.9
8611821			09/25/2007	92.0	103.7	95.5	94.6
8611821			09/25/2007	80.4	98.2	84.6	86.1
42749- 1		T1A 0-6"	09/24/2007	92.9	93.5	90.4	81.7
42749- 2		T1B 0-6"	09/24/2007	78.2	111.5	88.5	95.7
42749- 2		T1B 0-6"	09/26/2007	107.8	118.7	108.5	110.4
	MS	T1B 0-6"	09/26/2007	105.9	117.8	104.8	117.4
	MSD	T1B 0-6"	09/26/2007	106.4	120.0	104.2	115.0
42749- 2	1.00	T1C 0-6"	09/24/2007	76.5	85.4	80.7	74.4
	MS	T1C 0-6"		71.9	84.8	80.7	79.1
		TIC 0-6"	09/24/2007	76.9			79.1
	MSD		09/24/2007		85.7	85.1	
42749- 4		TIA 5'	09/24/2007	77.5	78.6	83.4	74.8
42749- 5		T1B 5'	09/24/2007	83.5	83.8	84.8	74.4
42749- 6		T1C 5'	09/24/2007	89.6	89.9	95.4	83.8
42749- 7		T2A 0-6"	09/24/2007	79.2	91.5	89.0	84.4
42749- 8		T2B 0-6"	09/25/2007	76.8	88.5	78.8	74.0
42749- 9		T2C 0-6"	09/24/2007	85.3	97.7	89.8	83.0
42749- 10		T2A 5'	09/24/2007	87.0	95.6	94.7	83.3
42749- 11		T2B 5'	09/24/2007	91.5	99.0	96.4	85.9
42749- 12		T2C 5'	09/24/2007	92.3	98.2	96.7	83.2
42749- 13		T3A 0-6"	09/24/2007	84.5	91.5	92.1	84.9
42749- 14		T3B 10'	09/24/2007	85.8	111.7	89.3	109.6
42749- 14		T3B 10'	09/26/2007	99.3	108.0	101.2	108.2
42749- 15		T3C 0-6"	09/24/2007	92.2	96.6	103.5	85.5
42749- 16		T4 0-6"	09/25/2007	81.5	79.2	85.3	122.2
42749- 16		T4 0-6"	09/26/2007	101.2	116.1	57.5A	111.3
42749- 16		T4 0-6"	09/27/2007	109.0	109.4	91.1	99.1
42749- 17		T4 14'	09/24/2007	91.3	115.2	96.2	84.1
42749- 18		T5 0-6"	09/24/2007	80.8	94.6	86.4	82.7
42749- 19		T5 5'	09/24/2007	89.0	94.6	96.2	83.1
42749- 20		T6 0-6"	09/25/2007	69.2	69.5	71.2	87.1
42749- 20		T6 0-6"	09/26/2007	104.3	120.5	104.1	113.3
42749- 21		T6 10'	09/25/2007	86.1	94.2	88.0	85.5
42749- 21	MS	T6 10'	09/25/2007	83.6	94.7	89.7	87.0
42749- 21		T6 10'	09/25/2007	75.5	84.3	77.6	77.0
42749- 22	1214	T3A 5'	09/25/2007	87.9	91.5	86.0	86.6
42749- 23		T3B 10'	09/25/2007	75.6	85.1	76.7	76.0
42749- 24		T3C 5'	09/25/2007	72.6	85.6	73.9	74.9
Test	Test De	escription	Limits				
2DCED		hloroethane-d4	61 - 130				
BRFLBE		ofluorobenzene	57 - 140				
BRFLM	Dibromo	fluoromethane	68 - 130				
POLD8	Toluene	-d8	50 - 130				

SURROGATE RECOVERIES REPORT Job Number.: 342749 Report Date .: 10/05/2007

CUSTOMER	CUSTOMER: 483648		PROJECT: W	YATT A		ATTN	I: Charlie Durret		
Method: Volatile Organics Batch(s): 186613			Metho Test		Prep Batch: Equipment Code: GCMSVOA0				
Lab ID		DT	Sample ID		Date	12DCED	BRFLBE	DBRFIM	TOLD8
1865282 343094- 343094-	1 MS		PENETRANT PENETRANT		10/03/2007 10/03/2007 10/03/2007	83.3 84.3 84.2	118.1 99.8 99.8	90.9 89.6 91.1	100.1 100.1 100.4
Test	Test	Des	cription	Limits	5				
12DCED BRFLBE			loroethane-d4 luorobenzene	70 - 13 70 - 13					

DBRFLM TOLD8 70 - 130 70 - 130 70 - 130 Dibromofluoromethane Toluene-d8

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/05/2007

REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field, (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.
- 4) For all USACE projects, the QC limits are based on "mean +/- 2 sigma", which are the warning limits.

General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reported as the final result.
- m-Cresol and p-Cresol co-elute. The result of the two is reported as either m&p-cresol or as p-cresol.
- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming dipheylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amcunt reported in the blank may be attributed to laboratory contamination.
- Trimethysilyl(Diazomethane) is used to esterify acid herbicides in Method SW-846 8151A.
 For Inorganic analyses, duplicate QC limits are determined as follows: If the sample result is less than or equal to 5 times the reporting limit, the RPD limit is equal to the reporting limit. If the sample result is greater than 5 times the reporting limit, the RPD limit is the method defined RPD.
- For TRRP reports, the header on the column RL is equivalent to a MQL/PQL.
- Results for LCS and MS/MSD recoveries listed in the report are reported as ug/L on-column values which are not corrected for variables such as sample volumes or weights extracted, final volume of extracts and dilutions. To correct QC on-column recoveries to reflect actual spiking volumes for soils, multiply the values reported for Diesel Range Organics and Semivolatiles by 33.3 and Gasoline Range Organics by 20. The 8260 and 1006 results will not require correction. The only corection required for water analysis is for method 1006 where the reported concentraiton must be multiplied by 0.1.
- Due to limitiation of the reporting software, results for the Method blank in the Semivolatile fraction are reported as "0". Which indicates there was no compound detected at the reporting limit for the compound reveiwed.

Explanation of Qualifiers:

- U This qualifier indicates that the analyte was analyzed but not detected.
- J (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the MDL.
- B (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
- N (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic charachterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

Explanation of General QC Outliers:

- A Matrix interference present in sample.
- a MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable ICS recoveries.
- b Target analyte was found in the method blank.
- M QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
- L LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were observed above the RL in the associated samples.
- G Marginal outlier within 1% of acceptance criteria.
- r RPD value is outside method acceptance criteria.
- C Poor RPD values observed due to the non-homogenous nature of the sample.

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- 0 Sample required dilution due to matrix interference.
- D Sample reported from a dilution.
- d Spike and/or surrogate diluted.
- E The reported concentration exceeds the instrument calibration.
- F The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
- H Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
- ${\bf q}$ See the subcontract final report for qualifier explanation.
- ${\tt W}$ The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
- K High recovery will not affect the quality of reported results.
- Z See case narrative.

Explanation of Organic QC Outliers:

- e Method blank analysis yielded phthalate concentrations above the RL. Phthlates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- S Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
- T Sample analysis yielded poor surrogate recovery.
- R The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
- I The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
- X Gaseous compound. In-house QC limits are advisory.
- Y Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
- f Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

- ${\tt Q}$ Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
- V The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
- e Serial dilution failed due to matrix interference.
- g Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery
- being below 85 percent. The correlation coefficent for the MSA is greater than or equal to 0.995.
- s BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
- 1 BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
- N Spiked sample recovery is not within control limits.
- n Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike
- recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
- * Duplicate analysis is not within control limits.

Abbreviations:

- Batch Designation given to identify a specific extraction, digestion, preparation, or analysis set.
- CCV Continuing Calibration Verification
- CRA Low level standard check GFAA, Mercury
- CRI Low level standard check ICP
- Dil Fac Dilution Factor Secondary dilution analysis
- DLFac Detection Limit Factor
- DU Duplicate
- EB Extraction Blank (TCLP, SPLP, etc.)
- ICAL Initial Calibration

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- Initial Calibration Blank ICB ICV - Initial Calibration Verification - Interference Check Sample A - ICP - Interference Check Sample B - ICP ISA ISB - Laboratory Control Duplicate - Laboratory Control Sample LCD LCS MB - Method Blank - Method Duplicate MD MDL - Method Detection Limit MOL - Method Quantitation Limit (TRRP) MS - Matrix Spike MSD - Matrix Spike Duplicate ND - Not Detected PB - Preparation Blank PREPF - Preparation Factor RL - Reporting Limit RPD - Relative Percent Difference RRF - Relative Response Factor - Retention Time RT SQL - Sample Quantitation Limit (TRRP) TIC - Tentatively Identified Compound

Method References:

- (1) EPA 600/4-79-020 Methods for the Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-94-111 Methods for the Determination of MEtals in Environmental Samples, Supplement I, May 1994.
- (3) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986; Update I July 1992; Update II, September 1994, Update IIA August 1993; Update IIB, January 1995; Update III, December 1996, Update IVA January 1998, Update IVB November 2000.
- (4) Standard Methods for the Examination of Water and Wastewater, 16th Edition (1985), 17th Edition (1989), 18th Edition (1992), 19th Edition (1995), 20th Edition (1998).
- (5) HACH Water Analysis Handbook 3rd Edition (1997).
- (6) Federal Register, July 1, 1990 (40 CFR Part 136 Appendix A).
- (7) Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Edition, January 1997.
- (9) Diagnosis and Improvement of Saline and Alkali Soils, Agriculture Handbook No. 60, United States Department of Agriculture, 1954.

LABORATORY CHRONICLE

Date: 10/05/2007

CUSTOMER: Tetra I	ech, Inc. PR	OJECT: WYATT	A		1	ATTN: Charlie Durret				
Lab ID: 342749-1	Client ID: T1A 0-6"	Date Re	cvd: 09/	/22/2005	Sample	Date: 09/20/20	007			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT		DATE/TIME A		DILUTION		
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984	LIGE DI	" (0)	09/24/2007	1000	DIDOILO		
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	0018	1.0000		
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720	1.0000		
SW-846 8015B	Total Extractable Petroleum Hydrocarbon			185984		09/25/2007	2125			
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	186215	100904		09/26/2007	1707	1.0000		
SW-846 8260B	Volatile Organics	1	186047			09/24/2007	1524	1.00000		
Lab ID: 342749-2	Client ID: T1B 0-6"	Date Re	cvd: 09/	22/2007	Sample	Date: 09/20/20	007			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME A	NALYZED	DILUTION		
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984			09/24/2007	1000			
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	0040	1.0000		
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720			
SW-846 8015B	Total Extractable Petroleum Hydrocarbon			185984		09/26/2007	1156	30		
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	186215	100004		09/26/2007	1756	250.00		
SW-846 8260B	Volatile Organics	1	186047			09/24/2007	2308	5.00000		
SW-846 8260B	Volatile Organics	1	186224			09/26/2007	1936	1.00000		
Lab ID: 342749-3	Client ID: T1C 0-6"	Date Re	cvd: 09	/22/2007	Sample	Date: 09/20/20	007			
METHOD	DESCRIPTION	RUN#		PREP BT	-	DATE/TIME A		DILUTION		
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984	LIGE DI	11 (0)	09/24/2007	1000	DIHOIIO		
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	0103	1.0000		
EPA 120.1		1	186141					1.0000		
	Specific Conductance @ 25 degrees C			105004		09/26/2007	1720			
SW-846 8015B	Total Extractable Petroleum Hydrocarbon			185984		09/25/2007	2253			
SW-846 8015B SW-846 8260B	Total Volatile Petroleum Hydrocarbons Volatile Organics	1	186215 186047			09/26/2007 09/24/2007	1732 1733	1.0000		
				100 10005						
Lab ID: 342749-4	Client ID: TIA 5'		cvd: 09/			Date: 09/20/20				
METHOD	DESCRIPTION	RUN#		PREP BT	#(S)	DATE/TIME A		DILUTION		
SW-846 1312	1312 SPLP Zero Headspace Extraction	1	186005			09/24/2007	1500			
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984			09/24/2007	1000			
EPA300.0 REV2.	Ion Chromatography Analysis	1	186078			09/25/2007	1522			
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	0125	1.0000		
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720			
SW-846 1312	Synthetic Precipitate Leachate Procedum	e 1	185998			09/24/2007	1500			
SW-846 8015B	Total Extractable Petroleum Hydrocarbon	s 1	186220	185984		09/25/2007	2337			
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	186215			09/25/2007	1904	1.0000		
SW-846 8260B	Volatile Organics	1	186047			09/24/2007	1707	1.00000		
SW-846 8260B	Volatile Organics	1	186090	186005		09/25/2007	1511	1.00000		
Lab ID: 342749-5	Client ID: T1B 5'	Date Re	cvd: 09/	/22/2007	Sample	Date: 09/20/20	007			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT		DATE/TIME A		DILUTION		
SW-846 1312	1312 SPLP Zero Headspace Extraction	1	186005			09/24/2007	1500			
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984			09/24/2007	1000			
EPA300.0 REV2.	Ion Chromatography Analysis	1	186078			09/25/2007	1538			
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	0148	1.0000		
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720	1.0000		
SW-846 1312	Synthetic Precipitate Leachate Procedur		185998			09/24/2007	1500			
				18500/			0021			
SW-846 8015B	Total Extractable Petroleum Hydrocarbon			185984		09/26/2007		1 0000		
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	186215			09/25/2007	1928	1.0000		
SW-846 8260B SW-846 8260B	Volatile Organics Volatile Organics	1	186047 186090	186005		09/24/2007 09/25/2007	1759 1629	1.00000		
Lab TD. 240740 C	Client ID: T1C 5'	Data Da	and . 00	122/2005	Comol-	Section 200	007			
Lab ID: 342749-6			cvd: 09/			Date: 09/20/2		DTURTO		
METHOD SW-846 1312	DESCRIPTION			PREP BT	#(3)	DATE/TIME A		DILUTION		
	1312 SPLP Zero Headspace Extraction	1	186005			09/24/2007	1500			

LABORATORY CHRONICLE

Date: 10/05/2007

CUSTOMER: Tetra Tech, Inc.		PROJECT: WYATT	A		ΓA	ATTN: Charlie Durret				
Lab ID: 342749-6	Client ID: T1C 5'	Data Pa	ecvd: 09/	/22/2005	Comple F	ato: 09/20/20	207			
						Date: 09/20/20		DITUTION		
METHOD	DESCRIPTION	RUN#		PREP BT #	F(S)	DATE/TIME AN		DILUTION		
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984			09/24/2007	1000			
EPA300.0 REV2.	Ion Chromatography Analysis	1	186078			09/25/2007	1625			
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	0210	1.0000		
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720			
SW-846 1312	Synthetic Precipitate Leachate Proce	dure 1	185998			09/24/2007	1500			
SW-846 8015B	Total Extractable Petroleum Hydrocar	bons 1	186220	185984		09/26/2007	0105			
SW-846 8015B	Total Volatile Petroleum Hydrocarbon	s 1	186215			09/25/2007	1952	1.0000		
SW-846 8260B	Volatile Organics	1	186047			09/24/2007	1825	1.00000		
SW-846 8260B	Volatile Organics	1	186090	186005		09/25/2007	1655	1.00000		
Lab ID: 342749-7	Client ID: T2A 0-6"	Date Re	cvd: 09/	/22/2007	Sample I	Date: 09/20/20	007			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #	(S)	DATE/TIME AN	VALYZED	DILUTION		
SW-846 3550B	Extraction (Ultrasonic) DRO	1	186054			09/25/2007	1000			
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	0233	1.0000		
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720	1.0000		
SW-846 8015B	Total Extractable Petroleum Hydrocar			186054		09/26/2007	1453			
SW-846 8015B	Total Volatile Petroleum Hydrocarbon		186215	1000014		09/25/2007	2155	1.0000		
SW-846 8260B	Volatile Organics	1	186047			09/24/2007	1850	1.00000		
Lab ID: 342749-8	Client ID: T2B 0-6"		cvd: 09,			Date: 09/20/20				
METHOD	DESCRIPTION			PREP BT #	ŧ(S)	DATE/TIME AN		DILUTION		
SW-846 3550B	Extraction (Ultrasonic) DRO	1	186054			09/25/2007	1000			
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	0255	1.0000		
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720			
SW-846 8015B	Total Extractable Petroleum Hydrocar	bons 1	186227	186054		09/26/2007	1537	20		
SW-846 8015B	Total Volatile Petroleum Hydrocarbon	s 1	186215			09/25/2007	2220	10.000		
SW-846 8260B	Volatile Organics	1	186118			09/25/2007	2249	1.00000		
Lab ID: 342749-9	Client ID: T2C 0-6"	Date Re	cvd: 09/	/22/2007	Sample D	Date: 09/20/20	007			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #		DATE/TIME AN		DILUTION		
SW-846 3550B	Extraction (Ultrasonic) DRO	1	186054			09/25/2007	1000			
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	0318	1.0000		
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720	1.0000		
SW-846 8015B	Total Extractable Petroleum Hydrocar			186054		09/27/2007	1034	5		
SW-846 8015B	Total Volatile Petroleum Hydrocarbon		186215	1000.34		09/25/2007	2245	1.0000		
		1								
SW-846 8260B	Volatile Organics	1	186047			09/24/2007	1916	1.00000		
Lab ID: 342749-10			cvd: 09/		· · · · · · · · · · · · · · · · · · ·	Date: 09/20/20		DILUTION		
METHOD	DESCRIPTION		BATCH#	PREP BT #	(3)	DATE/TIME AN		DILUTION		
SW-846 1312	1312 SPLP Zero Headspace Extraction	1	186005			09/24/2007	1500			
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984			09/24/2007	1000			
EPA300.0 REV2.	Ion Chromatography Analysis	1	186112			09/26/2007	0941			
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	0340	1.0000		
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720			
SW-846 1312	Synthetic Precipitate Leachate Proce	dure 1	185998			09/24/2007	1500			
SW-846 8015B	Total Extractable Petroleum Hydrocar	bons 1	186220	185984		09/26/2007	0149			
SW-846 8015B	Total Volatile Petroleum Hydrocarbon		186215			09/25/2007	2309	1.0000		
SW-846 8260B	Volatile Organics	1	186047			09/24/2007	1942	1.00000		
SW-846 8260B	Volatile Organics	1		186005		09/25/2007	1721	1.00000		
Lab ID: 342749-11	Client ID: T2B 5'	Date Re	cvd: 09/	/22/2007	Sample F	Date: 09/20/20	007			
METHOD	DESCRIPTION	RUN#		PREP BT #	-	DATE/TIME AN		DILUTION		
SW-846 1312	1312 SPLP Zero Headspace Extraction	1	186005	AANAA AMA 11	(0)	09/24/2007	1500	PIROTION		
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984			09/24/2007	1000			
JWT040 JJJJUD	EALLACTION (OTTASONIC) DRU	Ť	103904			03/24/200/				
EPA300.0 REV2.	Ion Chromatography Analysis	1	186112			09/26/2007	1028			

LABORATORY CHRONICLE

Date: 10/05/2007

CUSTOMER: Tetra T	ech, Inc.	PROJECT: WYATT	A		ATTN: Charlie Durret							
Lab ID: 342749-11	Client ID: T2B 5'	Date R	ecvd: 09/	/22/2007 Sam	ple Date: 09/20/2	007						
METHOD	DESCRIPTION	RUN#		PREP BT #(S)			DILUTION					
SW-846 9056			186137	PREF DI #(S)			1.0000					
	Ion Chromatography Analysis	1			09/26/2007	0555	1.0000					
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141		09/26/2007	1720						
SW-846 1312	Synthetic Precipitate Leachate Proced		185998	405004	09/24/2007	1500						
SW-846 8015B	Total Extractable Petroleum Hydrocarb			185984	09/25/2007	1957						
SW-846 8015B	Total Volatile Petroleum Hydrocarbons		186215		09/25/2007	2334	1.0000					
SW-846 8260B	Volatile Organics	1	186047		09/24/2007	2008	1.00000					
SW-846 8260B	Volatile Organics	1	186090	186005	09/25/2007	1747	1.00000					
Lab ID: 342749-12	Client ID: T2C 5'	Date Re	ecvd: 09/	22/2007 Sam	ple Date: 09/20/2	007						
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME A	NALYZED	DILUTION					
SW-846 1312	1312 SPLP Zero Headspace Extraction	1	186005		09/24/2007	1500						
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984		09/24/2007	1000						
EPA300.0 REV2.	Ion Chromatography Analysis	1	186112		09/26/2007	1044						
SW-846 9056	Ion Chromatography Analysis	1	186137		09/26/2007	0640	1.0000					
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141		09/26/2007	1720	1.0000					
SW-846 1312	Synthetic Precipitate Leachate Proced		185998		09/24/2007	1500						
SW-846 8015B	Total Extractable Petroleum Hydrocarb		186220	185984	09/26/2007	0233						
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	186215	100004	09/25/2007	2358	1.0000					
	Volatile Organics	1	186047			2033						
SW-846 8260B SW-846 8260B	Volatile Organics	1	186090	186005	09/24/2007 09/25/2007	1813	1.00000					
Lab ID: 342749-13			ecvd: 09/		ple Date: 09/20/2							
METHOD	DESCRIPTION		BATCH#	PREP BT #(S)	DATE/TIME A		DILUTION					
SW-846 3550B	Extraction (Ultrasonic) DRO	1	186054		09/25/2007	1000						
SW-846 9056	Ion Chromatography Analysis	1	186137		09/26/2007	0703	1.0000					
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141		09/26/2007	1720						
SW-846 8015B	Total Extractable Petroleum Hydrocarb	ons 1	186227	186054	09/26/2007	1706	20					
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	186215		09/26/2007	0023	1.0000					
SW-846 8260B	Volatile Organics	1	186047		09/24/2007	2059	1.00000					
Lab ID: 342749-14	Client ID: T3B 10'	Date Re	ecvd: 09/	/22/2007 Sam	ple Date: 09/20/2	007						
METHOD	DESCRIPTION			PREP BT #(S)	DATE/TIME A		DILUTION					
SW-846 1312	1312 SPLP Zero Headspace Extraction	1	186076		09/25/2007	1500	DINGITO					
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984		09/24/2007	1000						
EPA300.0 REV2.	Ion Chromatography Analysis	1	186112		09/26/2007	1130						
SW-846 9056	Ion Chromatography Analysis	1	186137		09/26/2007	0725	1.0000					
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			1720	1.0000					
	Synthetic Precipitate Leachate Proced		185998		09/26/2007	1500						
SW-846 1312	Synchetic Precipitate Leachate Proced	ure 1		105004	09/24/2007 09/26/2007		30					
SW-846 8015B	Total Extractable Petroleum Hydrocarb		186220	185984		0040						
SW-846 8015B	Total Volatile Petroleum Hydrocarbons		186215		09/27/2007	1217	250.00					
SW-846 8260B	Volatile Organics	1	186047		09/24/2007	2359	5.00000					
SW-846 8260B	Volatile Organics	1	186177		09/26/2007	1517	1.00000					
SW-846 8260B	Volatile Organics	1	186224		09/26/2007	2054	1.00000					
Lab ID: 342749-15	Client ID: T3C 0-6"	Date Re	ecvd: 09/	/22/2007 Sam	ple Date: 09/20/2	007						
METHOD	DESCRIPTION			PREP BT #(S)	DATE/TIME A		DILUTION					
SW-846 3550B	Extraction (Ultrasonic) DRO	1	186054		09/25/2007	1000						
SW-846 9056	Ion Chromatography Analysis	1	186137		09/26/2007	0940	1.0000					
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141		09/26/2007	1720	215112					
SW-846 8015B	Total Extractable Petroleum Hydrocarb			186054	09/26/2007	1324						
SW-846 8015B	Total Volatile Petroleum Hydrocarbons		186215	200001	09/27/2007	1129	1.0000					
SW-846 8260B	Volatile Organics	1	186047		09/24/2007	2125	1.00000					
Tab TD. 242740 16	Client ID: TA 0-6"	Data D	orde 00	/22/2005 8	ala Data, 00/20/2	007						
Lab ID: 342749-16			ecvd: 09/		ple Date: 09/20/2		DITIMITO					
TVIET LIEU 11 1	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME A	NALYZED	DILUTION					
METHOD SW-846 3550B	Extraction (Ultrasonic) DRO	1	186054		09/25/2007	1000						

LABORATORY CHRONICLE

Date: 10/05/2007

CUSTOMER: Tetra Te	ech, Inc. E	PROJECT: WYATT	A		1	ATTN: Charlie Durret						
Lab ID: 342749-16	Client ID: T4 0-6"	Data B	and 00	22/2005	Comple	Data: 00/20/2	007					
			ecvd: 09/			Date: 09/20/20		DILUTION				
METHOD	DESCRIPTION	RUN#		PREP BT	#(S)	DATE/TIME A		DILUTION				
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	1003	10.000				
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720					
SW-846 8015B	Total Extractable Petroleum Hydrocarbo	ns 1	186227	186054		09/27/2007	1034	40				
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	186215			09/27/2007	1242	250.00				
SW-846 8260B	Volatile Organics	1	186047			09/25/2007	0025	5.00000				
SW-846 8260B	Volatile Organics	1	186224			09/26/2007	2120	1.00000				
SW-846 8260B	Volatile Organics	1	186224			09/27/2007	1758	10				
Lab ID: 342749-17	Client ID: T4 14'	Date Re	ecvd: 09/	22/2007	Sample	Date: 09/20/20	007					
METHOD	DESCRIPTION	RUN#		PREP BT		DATE/TIME A		DILUTION				
				FREF DI	#(3)			DIDOITON				
SW-846 1312	1312 SPLP Zero Headspace Extraction	1	186501			10/02/2007	1500					
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984			09/24/2007	1000					
EPA300.0 REV2.	Ion Chromatography Analysis	1	186112			09/26/2007	1146	10				
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	1048	10.000				
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720					
SW-846 1312	Synthetic Precipitate Leachate Procedu	ire 1	185998			09/24/2007	1500					
SW-846 8015B	Total Extractable Petroleum Hydrocarbo		186220	185984		09/26/2007	1156	50				
				100004								
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	186215			09/27/2007	1406	250.00				
SW-846 8260B	Volatile Organics	1	186047			09/24/2007	2150	1.00000				
SW-846 8260B	Volatile Organics	1	186613	186501		10/03/2007	1548	1.00000				
Lab ID: 342749-18	Client ID: T5 0-6"	Date Re	ecvd: 09/			Date: 09/20/20						
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME A	NALYZED	DILUTION				
SW-846 3550B	Extraction (Ultrasonic) DRO	1	186054			09/25/2007	1000					
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	1155	1.0000				
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720	1.0000				
				100054				E				
SW-846 8015B	Total Extractable Petroleum Hydrocarbo			186054		09/27/2007	1118	5				
SW-846 8015B SW-846 8260B	Total Volatile Petroleum Hydrocarbons Volatile Organics	1	186215 186047			09/27/2007 09/24/2007	1153 2216	1.0000				
T-1 TD: 240740 10	Client TD: TE EL	Data D		00 /0005	Comple	Data 00/20/20	007					
Lab ID: 342749-19	Client ID: T5 5'		ecvd: 09/		and the second second	Date: 09/20/20		DITURDION				
METHOD	DESCRIPTION		BATCH#	PREP BT	# (S)	DATE/TIME A		DILUTION				
SW-846 1312	1312 SPLP Zero Headspace Extraction	1	186076			09/25/2007	1500					
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984			09/24/2007	1000					
EPA300.0 REV2.	Ion Chromatography Analysis	1	186112			09/26/2007	1201					
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	1218	10.000				
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720					
SW-846 1312	Synthetic Precipitate Leachate Procedu		185998			09/24/2007	1500					
				105004								
SW-846 8015B	Total Extractable Petroleum Hydrocarbo			185984		09/25/2007	2337	1 0000				
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	186215			09/26/2007	2225	1.0000				
SW-846 8260B	Volatile Organics	1	186047			09/24/2007	2242	1.00000				
SW-846 8260B	Volatile Organics	1	186177			09/26/2007	1701	1.00000				
Lab ID: 342749-20	Client ID: T6 0-6"	Date Re	ecvd: 09/	22/2007	Sample	Date: 09/20/2	007					
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT		DATE/TIME A		DILUTION				
SW-846 3550B	Extraction (Ultrasonic) DRO	1	186054			09/25/2007	1000					
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	1240	10.000				
								10.000				
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141	10005		09/26/2007	1720	20				
SW-846 8015B	Total Extractable Petroleum Hydrocarbo		186227	186054		09/26/2007	1706	20				
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	186215			09/27/2007	1330	250.00				
SW-846 8260B	Volatile Organics	1	186118			09/25/2007	2315	5.00000				
SW-846 8260B	Volatile Organics	1	186224			09/26/2007	2146	1.00000				
Lab ID: 342749-21	Client ID: T6 10'	Date Re	ecvd: 09/	22/2007	Sample	Date: 09/20/20	007					
METHOD	DESCRIPTION			PREP BT		DATE/TIME A		DILUTION				
SW-846 1312	1312 SPLP Zero Headspace Extraction	1	186076	TIME DI		09/25/2007	1500	DIDUTION				
	AND ALLE BOLD INCOOPAGE DALLAGELUI	1	100010			0010010001	1000					

LABORATORY CHRONICLE

Date: 10/05/2007

CUSTOMER: Tetra T	ech, Inc.	PROJECT: WYATT	A	_	A	ATTN: Charlie I	Durret	
Lab ID: 342749-21	Client ID: T6 10'	Date Re	cvd: 09/	22/2005	Sample	Date: 09/20/20	07	
METHOD	DESCRIPTION			PREP BT		DATE/TIME AN		DILUTION
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984	FIGE DI	# (5)	09/24/2007	1000	DIDUITOR
EPA300.0 REV2.		1	186112				1217	
	Ion Chromatography Analysis					09/26/2007		10 000
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	1348	10.000
EPA 120.1	Specific Conductance @ 25 degrees C		186141			09/26/2007	1720	
SW-846 1312	Synthetic Precipitate Leachate Proc		185998			09/24/2007	1500	
SW-846 8015B	Total Extractable Petroleum Hydroca			185984		09/26/2007	0021	Sec. Sec. Sec.
SW-846 8015B	Total Volatile Petroleum Hydrocarbo		186215			09/26/2007	2250	1.0000
SW-846 8260B	Volatile Organics	1	186118			09/25/2007	1504	1.00000
SW-846 8260B	Volatile Organics	1	186177			09/26/2007	1727	1.00000
Lab ID: 342749-22	Client ID: T3A 5'	Date Re	cvd: 09/	22/2007	Sample	Date: 09/20/20	007	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	# (S)	DATE/TIME AN	VALYZED	DILUTION
SW-846 1312	1312 SPLP Zero Headspace Extraction	1	186076			09/25/2007	1500	
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984			09/24/2007	1000	
EPA300.0 REV2.	Ion Chromatography Analysis	1	186112			09/26/2007	1233	10
SW-846 9056	Ion Chromatography Analysis	ĩ	186137			09/26/2007	1410	10.000
EPA 120.1	Specific Conductance @ 25 degrees C		186141			09/26/2007	1720	10.000
SW-846 1312	Synthetic Precipitate Leachate Proc		185998			09/24/2007	1500	
	Total Extractable Petroleum Hydroca			185984			0040	10
SW-846 8015B				100904		09/26/2007		1.0000
SW-846 8015B	Total Volatile Petroleum Hydrocarbo		186215			09/26/2007	2314	
SW-846 8260B	Volatile Organics	1	186118			09/25/2007	1530	1.00000
SW-846 8260B	Volatile Organics	1	186177			09/26/2007	1753	1.00000
Lab ID: 342749-23	Client ID: T3B 10'		cvd: 09/			Date: 09/20/20		
METHOD	DESCRIPTION		BATCH#	PREP BT	#(S)	DATE/TIME AN	VALYZED	DILUTION
SW-846 1312	1312 SPLP Zero Headspace Extraction	1	186076			09/25/2007	1500	
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984			09/24/2007	1000	
EPA300.0 REV2.	Ion Chromatography Analysis	1	186112			09/26/2007	1248	10
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	1433	10.000
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720	
SW-846 1312	Synthetic Precipitate Leachate Proc		185998			09/24/2007	1500	
SW-846 8015B	Total Extractable Petroleum Hydroca		186220	185984		09/26/2007	0149	
SW-846 8015B	Total Volatile Petroleum Hydrocarbo		186215			09/26/2007	2338	1.0000
SW-846 8260B	Volatile Organics	1	186118			09/25/2007	1648	1,00000
SW-846 8260B	Volatile Organics	1	186177			09/26/2007	1451	1.00000
Lab ID: 342749-24	Client ID: T3C 5'	Date Re	cvd: 09/	22/2007	Sample	Date: 09/20/20	007	
METHOD	DESCRIPTION			PREP BT	and the second se	DATE/TIME AN		DILUTION
SW-846 1312	1312 SPLP Zero Headspace Extraction		186076	arout the	. 101	09/25/2007	1500	
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984			09/24/2007	1000	
EPA300.0 REV2.		1	186112			09/26/2007	1304	10
SW-846 9056	Ion Chromatography Analysis	1						
	Ion Chromatography Analysis		186137			09/26/2007	1455	10.000
EPA 120.1	Specific Conductance @ 25 degrees C		186141			09/26/2007	1720	
SW-846 1312	Synthetic Precipitate Leachate Proc		185998	10500		09/24/2007	1500	
SW-846 8015B	Total Extractable Petroleum Hydroca			185984		09/26/2007	0233	1
SW-846 8015B	Total Volatile Petroleum Hydrocarbo		186215			09/27/2007	0003	1.0000
SW-846 8260B	Volatile Organics	1	186118			09/25/2007	1714	1.00000
SW-846 8260B	Volatile Organics	1	186177			09/26/2007	1819	1.00000

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	CUSTOMER	COMPANY: T-LUS	SEND REPORT TO: C	ADDRESS: 1703	m:21c	i	PHONE: 432-686-806	472-		14 0-		-0	V V	8	1C 5	ZA O	280	20 0-	DA S	MPLER: Owned	REQUIRED TURNAROUND*	1. RELINQUISHED BY:	SIGNATURE	PRINTED NAME/COMPANY	1. RECEIVED BY:	SIGNATURE:	PRINTED NAME/COMPANY:	
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Page 107 of 265

STL Houston 6310 Rothway Drive Houston, TX 77040

age 108 of 265 (000) (009-HZZZZZ REWARKS/PRECAUTIONS DATE TIME TIME DATE LAB JOB NO. 088888 439 242749 e AIRBILL NO : 5620 5380 RECORD Ο PRINTED NAME/COMPANY: **PRINTED NAME/COMPANY:** C ROUTINE X OTHER CUSTODY **3. RELINQUISHED BY:** X X **1. RECEIVED BY:** SIGNATURE: SIGNATURE: \boldsymbol{X} REQUEST HOD u O 22-1 CI 10 DAYS TIME S CHAIN Ŷ DATE DATE X **NUMBER OF CONTRINERS CONTAINER** | PRESERV 5 DAYS 1 FE Z 6310 Rothway Drive Houston, TX 77040 STL Houston PROJECT NAME/NUMBER: JUYJOS & E Bright PROJECT INFORMATION **BILLING INFORMATION** PRINTED NAME/COULDANTY: T.A. 4 5 **72 HOURS** Rechel PO NO: PRINTED NAME/COMPANY: Business SHIPWENT METHOD: SAMPLE enocethil 2. RELINQUISHED BY: 10 20 50 **1. RECEIVED BY:** 48 HOURS 10201 SAMPLE 105 5 SIGNATURE: SIGNATURE: hi o la Rol ADDRESS: 12007 BILL TO: SAMPLE 9/2dim PHONE: 5/24/87/17/17/14 localb 1070 24 HOURS FAX: 19/21/6 Sio) J DATE DATE TIME ALE 9/23/07 2570 R/Ndesuli-1 SAMPLE DESCRIPTION SAME DAY 432-666-6085 **CUSTOMER INFORMATION** X al - 8n6 ちとう D べん ħ Ż 5 S 2-0 PRINTED NAME/COMPANY: 4 PRINTED NAME/COMPANY - Office **REQUIRED TURNAROUND*** ò ζ I, RELINQUISHED BY: 132-1 ADDRESS: 1つっろ SEND REPORT TO: RECEIVED BY: COMPANY: ---SIGNATURE 1 ゥ SIGNATURE: SAMPLE NO. 202 A M SAMPLER4 3 Ľ PHONE: Ы, m ž

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rpjsckl	Job Sample Receipt Checklist Report	٧2
Job Number.: 342749 Location.: Customer Job ID: Project Number.: 99003817 Project Customer: Tetra Tech,Inc.	57216 Check List Number.: 1 Description.: Job Check List Date.: 09/24/2007 Description.: Conoco Phillips Contact.: Charlie Durret	Date of the Report: 09/24/2007 Project Manager: sgk
Questions ?	(Y/N) Comments	
Chain of Custody Received?	Y	
If "yes", completed properly?		
Custody seal on shipping container?		
If "yes", custody seal intact?	27	
Custody seals on sample containers?		
If "yes", custody seal intact?		
Samples chilled?		
Temperature of cooler acceptable? (
lf "no", is sample an air matrix		
Thermometer ID		
Samples received intact (good condi		
Volatile samples acceptable? (no he		
Correct containers used?	Y	
Adequate sample volume provided?		
Samples preserved correctly?	Y	
Samples received within holding-tim	ne?Y	
Agreement between COC and sample la	abels?Y	
Radioactivity at or below backgrour	nd levels?	
Additional		
Comments		
Sample Custodian Signature/Date	Y mt	

Page 1

APPENDIX F Email Correspondence

You replied on 12/3/2007 11:44 AM.

Durrett, Charles

From:	Trishia_Bad_Bear@nm.blm.gov [Trishia_Bad_Bear@nm.blm.gov]	Sent: Mon 12/3/2007 10:54 AM
То:	Durrett, Charles	
Cc:		
Subject:	Re: ConocoPhillips Wyatt A	
Attachmen	ts:	

Mr. Durrett,

I've reviewed your proposed work plan and don't see any concerns. Upon approval from NMOCD, please let me know when you plan on starting the dirtwork.

Thank you,

Trishia C. Bad Bear Natural Resource Specialist BLM-Hobbs Field Station 505.393.3612 office 505.390.2258 cell 505.393.4280 fax

> "Durrett, Charles" <Charles.Durrett@ To tetratech.com> <LWJohnson@state.nm.us>, <Trishia_Bad_Bear@nm.blm.gov> 12/03/2007 10:52 cc AM <mickey.d.garner@conocophillips.com > Subject ConocoPhillips Wyatt A

Wyatt A Federal Battery Lea County, New Mexico Unit E, Sec. 33, T17S, R33E OCD 1RP# 1518

Mr. Johnson and Ms. Bad Bear, have you had a chance to review the proposed work plan for ConocoPhillips Wyatt A Battery?

Charles Durrett | Office and Project Manager Main: 432.686.8081 | Fax: 432.686.8085 charles.durrett@tetratech.com

Tetra Tech | Complex World, Clear Solutions™ 1703 W. Industrial Ave. | Midland, TX 79701 | www.tetratech.com

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From: Durrett, Charles Sent: Wed 11/28/2007 6:39 AM To: LWJohnson@state.nm.us; Trishia_Bad_Bear@nm.blm.gov Cc: mickey.d.garner@conocophillips.com Subject:

Tetra Tech, Inc. is pleased to submit the attached findings report for a subsurface investigation at ConocoPhillips' Wyatt A Federal Battery crude oil release site. This work is in support of ConocoPhillips efforts to remediate a recent 21 barrel crude oil release onto an oil field road (4 x 1,100 feet) and on the back side of the battery.

If you concur with the recommendations in the report, ConocoPhillips has authorized Tetra Tech to commence work on this project immediately following receipt of your notification to proceed. Please contact me or Mr. Greg Pope, if you have any questions or require additional information.

Charles Durrett | Office and Project Manager Main: 432.686.8081 | Fax: 432.686.8085 charles.durrett@tetratech.com

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https://webmail.ttemi.com/exchange/cdurrett/Inbox/Re:%20ConocoPhillips%20Wyatt%20... 12/3/2007

Durrett, Charles								
From:	Johnson, Larry, EMNRD [larry.johnson@state.nm.us]	Sent: Tue 12/4/2007 2:23 PM						
To:	Durrett, Charles							
Cc:								
Subject:	RE: ConocoPhillips Wyatt A							
Attachmen	ts:							

Charlie,

I need to point out that the chloride is still 250. You need to change this in your work plan proposal. Proceed with the work.

Larry

From: Durrett, Charles [mailto:Charles.Durrett@tetratech.com]
Sent: Monday, December 03, 2007 10:52 AM
To: Johnson, Larry, EMNRD; Trishia_Bad_Bear@nm.blm.gov
Cc: mickey.d.garner@conocophillips.com
Subject: ConocoPhillips Wyatt A

Wyatt A Federal Battery

Lea County, New Mexico

Unit E, Sec. 33, T17S, R33E

OCD 1RP# 1518

Mr. Johnson and Ms. Bad Bear, haveyou had a chance to review the proposed work plan for ConocoPhillips Wyatt A Battery?

Charles Durrett | Office and Project Manager Main: 432.686.8081 | Fax: 432.686.8085 charles.durrett@tetratech.com

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From: Durrett, Charles Sent: Wed 11/28/2007 6:39 AM To: LWJohnson@state.nm.us; Trishia_Bad_Bear@nm.blm.gov Cc: mickey.d.garner@conocophillips.com Subject:

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If you concur with the recommendations in the report, ConocoPhillips has authorized Tetra Tech to commence work on this project immediately following receipt of your notification to proceed. Please contact me or Mr. Greg Pope, if you have any questions or require additional information.

Charles Durrett | Office and Project Manager Main: 432.686.8081 | Fax: 432.686.8085 charles.durrett@tetratech.com

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APPENDIX G Closure Report (Tetra Tech, September 8, 2008)



September 5, 2008

Mr. Larry Johnson New Mexico Oil Conservation Division 1625 N. French Dr. Hobbs, NM 88240

Ms. Trisha Bad Bear U.S. Bureau of Land Management 414 West Taylor Hobbs, NM 88240

RE: Wyatt A Federal Battery Request for Closure Lea County, New Mexico Unit E, Sec. 33, T17S, R33E OCD 1RP# 1518

Dear Mr. Johnson and Ms. Bad Bear:

Tetra Tech, Inc. (Tetra Tech) is pleased to submit this request for closure for ConocoPhillips' East Vacuum, Grayburg, San Andres Unit, Wyatt A Federal Battery crude oil release site (Site; Figure 1). This request is in support of ConocoPhillips remediation of a recent 21 barrel crude oil release onto an oil field road and in the battery (C141 attached). The Site is below and located approximately 0.4 miles southwest of Mescalero Ridge (32.79480N, 103.37433W). It is approximately 5.9 miles southeast of ConocoPhillips' Maljamar office. Mr. John Norris owns the surface while the U.S. Bureau of Land Management (BLM) administers the minerals.

Wyatt A is located in the Querecho Plains of eastern New Mexico. This area generally consists of a thin cover of Quaternary sand dunes overlying the undivided Triassic Upper Chinle Group.¹ The Pyote and Dune Series soil at the Site consists of very deep well-drained sand and sandy loam. Typically, the surface layer is yellowish red to dark reddish-brown fine sand. It is underlain by yellowish red sandy clay. Below this is light yellowish brown gravelly fine sandy loam.²

Exposure Pathway Analysis

Depth to water in the vicinity of the Site is estimated to be approximately 90 feet below ground surface (fbgs). This interpretation is based on potentiometric surface contours described by Nicholson and Clebsch¹ for groundwater conditions in Southern Lea County. The New Mexico Office of State Engineer's database³ did not yield any depth

¹ Nicholson Jr., A. and A. Clebsch, 1961. Geology and Ground-Water Conditions in Southern Lea County, New Mexico. USGS, GW Rpt 6, Socorro, NM. pp. 123.

² U.S. Department of Agriculture, Natural Resources Conservation Services. Web Soil Survey Database.

³ New Mexico Office of State Engineer. W.A.T.E.R.S. Database.



to groundwater information in this area. The United States Geological Survey's database⁴ only described groundwater conditions above Mescalero Ridge. Nicholson and Clebsch did indicate a well approximately 2.1 miles to the northwest that registered groundwater at 70 fbgs.

A water well (depth to water unknown) supplying fresh water to a stock pond is located approximately 0.8 miles northwest of the Site. There are dry playas in the area that briefly hold water following a rainfall event. The nearest playa is approximately 330 feet northwest of the Site.

Following the ranking criteria presented in "*Guidelines for Remediation of Leaks, Spills, and Releases*" promulgated on August 13, 1993 by the New Mexico Oil Conservation Division (NMOCD), this Site has the following score:

<u>Criteria</u>		Ranking <u>Score</u>
Depth to groundwater	<100 feet	10
Distance from water source	>1000 feet	0
Distance from domestic water source	>200 feet	0
Distance from surface water body	<1,000 feet	<u>10</u>
Total Ranking Score		20

The remediation action level for a ranking score of >19 is 10 parts per million (ppm) for benzene, 50 ppm for total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 100 ppm for total petroleum hydrocarbons (TPH).

Actions

Tetra Tech performed the following activities at Wyatt A Federal Battery:

- Beginning at sampling cell C-3 and east toward and including the battery, soil was excavated to a depth of approximately 3 to 4 feet or until the BTEX concentrations were below NMOCD action level of 10 ppm on a PID. Companion composite battery samples (sample cells C1-3) were submitted to a laboratory where they were analyzed for chloride (Method 300.0A), diesel and gasoline range hydrocarbons (TPH_{DRO} and TPH_{GRO}, Method 8015) and BTEX (Method 8260). The excavated material was hauled to a State approved disposal location.
- The road excavation sidewalls and floor (5 to 10 feet depth) were randomly screened every 50 feet using a PID, PetroFlag-TPH, and chloride field screening to determine that remediation levels have been achieved (PID reading < 10 ppm, chloride titration < 500 ppm).

⁴ United States Geological Survey. Groundwater Levels for the Nation Database.



Wyatt A Federal Battery Request for Closure 09/05/2008

- Random north and south sidewalls and floor road excavation samples (sample cells C 4-19) were submitted to a laboratory for analytical laboratory where they were analyzed for chloride (Method 300.0A), TPH_{DRO-GRO} (Method 8015) and BTEX (Method 8260) to confirm that these constituents have been removed to concentrations below remediation guidelines.
- Affected soil in the historic road bed was excavated and hauled to a State approved disposal location.
- In the battery area (C1-3), the remaining soil in the excavation was slightly domed (1 foot higher than the sides). The slight doming of the soil beneath a "liner" material will promote lateral drainage off of the geo-membrane after placement. The dome was hand groomed by removing any large sticks and smoothing the surface. A one foot deep anchor trench was constructed around the inside perimeter of the excavation and a 40-mil medium density polyethylene geo-membrane was installed over the domed area. The membrane was cut to fit into the perimeter trench and native soil was backfilled around the perimeter to hold the geo-membrane in-place. Native soil with no rocks or debris was backfilled over the membrane to meet surrounding surface grades. Four carsonite markers were set at the corners of the remediation area notifying interested parties that a subsurface structure was in-place. The inscription on each marker reads "CAUTION, SUBSURFACE STRUCTURE, Call Before Digging, MCA Unit 575-393-0130."

Findings

Excavations at the Site encountered sand and sandy loam. Typically, the surface layer is yellowish red to dark reddish-brown fine sand. It is underlain by yellowish red sandy clay. Below this was sandy clay interbedded with cliché.

Confirmation sample laboratory analyses of soils remaining below the buried water deflection structure (C 1-3) are below NMOCD recommended remediation limits for TPH and benzene (Table 1). Advancement of the east wall excavation was halted owing to road safety concerns. The PID reading of composite east wall soils was 8.6 ppm. Field chloride titration of soil from the east wall indicated a composite chloride concentration was 218 ppm.

Confirmation sample laboratory analyses indicate the soils remaining in the historic oil field road excavation are below NMOCD remediation standards (Table 1).

Conclusions

According to laboratory analysis of soils collected during an earlier investigation, TPH, BTEX, and chloride were detected in road and the battery. Exposure pathway analysis indicated a ranking score of "20." Therefore, the site-specific remediation levels are 100 ppm for TPH, 50 ppm for BTEX and 10 ppm for benzene. Based on laboratory analyses of soils remaining after excavation (Table 1), the impacts to soil around the battery and



Wyatt A Federal Battery Request for Closure 09/05/2008

within historic road area are below the NMOCD action levels for TPH and benzene. Chloride concentrations remaining in the battery area and historic oil field road are below pit rule requirements (19.15.17 NMAC, 500 mg/Kg).

Recommendations

The affected soil below the liner will be left in place until the battery is permanently closed in accordance with NMOCD and BLM rules for site abandonment. Tetra Tech recommends no further action be taken at the Wyatt A Site, and requests closure of 1RP-1518

If you concur with this recommendation or if you have any questions or require additional information, please contact me (432-686-8081) or Mr. Jesse Sosa (ConocoPhillips, 505-391-3126).

Sincerely,

Tetra Tech, Inc.

Charles Durrett Project Manager

Attachments: Table Figures C141 Photo Log Appendix

Cc: Mr. Jesse Sosa, ConocoPhillips Company

Table 1ConocoPhillips CompanyWyatt A Federal BatterySoil Laboratory Analysis4/30/2008

	Sample		Total Pet	roleum Hyd	rocarbons		Ethyl-		Xylenes	Total
Location	Location	Chloride	GRO	DRO	Total	Benzene	benzene	Toluene	Total	BTEX
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
C1-3	N	ND	ND	ND	ND	ND	ND	ND	ND	ND
	N	92.6	ND	ND	ND	ND	ND	ND	ND	ND
	N	145	ND	ND	ND	ND	ND	ND	ND	ND
	S	223	ND	ND	ND	ND	ND	ND	ND	ND
	В	445	ND	ND	ND	ND	ND	ND	ND	ND
C4	N	159	ND	15	15	ND	ND	ND	ND	ND
	S	29.7	ND	ND	ND	ND	ND	ND	ND	ND
	B-14'	82	ND	ND	ND	ND	ND	ND	ND	ND
C5	N	11.4	ND	ND	ND	ND	ND	ND	ND	ND
	S	199	ND	ND	ND	ND	ND	ND	ND	ND
	B-14'	121	ND	5.9	5.9	ND	ND	ND	ND	ND
C6	N	186	ND	6.5	6.5	ND	ND	ND	ND	ND
	S	229	ND	ND	ND	ND	ND	ND	ND	ND
	B-12'	80.8	ND	ND	ND	ND	ND	ND	ND	ND
C7	N	187	ND	ND	ND	ND	ND	ND	ND	ND
	S	236	ND	ND	ND	ND	ND	ND	ND	ND
	B-10'	133	ND	5.5	5.5	ND	ND	0.005	0.035	0.040
C8	N	155	ND	ND	ND	ND	ND	ND	ND	ND
	S	35.5	ND	ND	ND	ND	ND	ND	ND	ND
	B-9'	89.6	ND	ND	ND	ND	ND	ND	ND	ND
C9	N	128	ND	ND	ND	ND	ND	ND	ND	ND
	S	150	ND	ND	ND	ND	ND	ND	ND	ND
	B-8'	198	ND	ND	ND	ND	ND	ND	ND	ND
C10	N	16	ND	ND	ND	ND	ND	ND	ND	ND
	S	171	ND	ND	ND	ND	ND	ND	ND	ND
	B-8'	198	ND	ND	ND	ND	ND	ND	ND	ND
C11	N	144	ND	ND	ND	ND	ND	ND	ND	ND
	S	163	ND	ND	ND	ND	ND	ND	ND	ND
	B-9'	242	ND	ND	ND	ND	ND	ND	ND	ND
C12	N	125	ND	ND	ND	ND	ND	ND	ND	ND
	S	205	ND	ND	ND	ND	ND	ND	ND	ND
	B-9'	128	ND	16	16	ND	ND	ND	ND	ND
C13	N	72.5	ND	ND	ND	ND	ND	ND	ND	ND
	S	115	ND	9.2	9.2	ND	ND	ND	ND	ND
	B-12'	49.3	ND	ND	ND	ND	ND	ND	ND	ND
C14	N	76.2	ND	ND	ND	ND	ND	ND	ND	ND
	S	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B-8'	46.2	ND	ND	ND	ND	ND	ND	ND	ND
C15	N	255	ND	ND	ND	ND	ND	ND	ND	ND
	S	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B-8'	27.2	ND	ND	ND	ND	ND	ND	ND	ND
C16	N	5.31	ND	ND	ND	ND	ND	ND	ND	ND
	S	27.3	ND	ND	ND	ND	ND	ND	ND	ND
	B-8'	94.3	ND	ND	ND	ND	ND	ND	ND	ND

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Table 1 Continued

	Sample		Total Pet	Total Petroleum Hydrocarbons			Ethyl-			Total
Location	Location	Chloride (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	Total (mg/Kg)	Benzene (mg/Kg)	benzene (mg/Kg)	Toluene (mg/Kg)	Total (mg/Kg)	BTEX (mg/Kg)
C17	Ν	32.9	ND	ND	ND	ND	ND	ND	ND	ND
	S	5.27	ND	ND	ND	ND	ND	ND	ND	ND
	B-6'	149	ND	ND	ND	ND	ND	ND	ND	ND
C18	N	27.3	ND	ND	ND	ND	ND	ND	ND	ND
	S	46.4	ND	ND	ND	ND	ND	ND	ND	ND
	B-6'	ND	ND	ND	ND	ND	ND	ND	ND	ND
C19	N	31	ND	ND	ND	ND	ND	ND	ND	ND
	S	36.4	ND	ND	ND	ND	ND	ND	ND	ND
	B-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND
	W	14	ND	ND	ND	ND	ND	ND	ND	ND

N = North side of excavation

S = South side of excavation

B = Bottom of excavation

W = West

' = Feet

ND = Not detected at or above laboratory detection level

GRO = Gasoline range petroleum hydrocarbons

DRO = Diesel range petroleum hydrocarbons

mg/Kg = Milligrams per kilogram





Source: NRCS, Web Soil Survey. No scale.



 Figure 2.
 Wyatt A Federal Crude Oil Release Site and Sampling Locations.

East Vacuum,

Grayburg, San

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District I 1625 N. French District II	Dr., Hobbs, N	IM 88240				of New Mexico als and Natural Resources Revised October 1						
1301 W. Grand District III				00		ervation Div		Submit 2 Copies to appropriate District Office in accordance				
District IV	1000 C C F D C C F D D C C F C D C C F C C C C						is Dr.			with Rule 116 or	n back f form	
1220 S. St. Fran	cis Dr., Santa	Fe, NM 8/505) 	Sa	inta	Fe, NM 875	05				1 10/111	
			Rele	ease Notific	eatio	on and Co	orrective A	ction	-			
	<u> </u>				0	PERATOR		_ ([🛛 Initia	l Report 🔽 Final	Report	
Name of Co					107	Contact Mickey Garner Telephone No. 505.391.3158						
Facility Nar			o, wiidiai	nd, TX 79705-5		e Oil and Gas			<u> </u>			
Surface Owner State of New Mexico Mineral Owner BLM Lease No NM108507											 	
Surface Ow		n Norris	XICO	<u>1</u>					Lease INU	1414110307		
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Unit Letter E	Section 33	Township 17S	Range 33E	Feet from the	Nor	th/South Line	Feet from the	East/We	est Line	County Lea		
			L	atitude N 32.7	9480	Longit	ude W 103.67	433				
				NAT		E OF REL						
Type of Rele Crude Oil	ase				1	lume of Release bbl (21 oil, 0wa	-	1	Volume R (4oil, 0wa			
Source of Re	lease					te and Hour of				Hour of Discovery		
300 bbl Ste						9-2007 02:00	0		7-29-2007	07:30		
Was Immedia		es 🗌 No	🛛 Not	Required		YES, To Whom? at Richards NMOCD						
By Whom?					Da	te and Hour 7-	29-2007 17:52					
Was a Water	course Reac		Yes 🗵	No		f YES, Volume Impacting the Watercourse. N/A						
If a Watercou N/A	irse was Imp	pacted, Descr	ibe Fully.	¢								
Describe Cau The source					00 bb	l steel tank. A	vacuum truck	was cal	lled out t	o pick up free liquids.		
Describe Are	a Affected a	nd Cleanup A	Action Tal	cen.*			<u> </u>					
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I hereby certi		formation	ven above	is true and com	lete to	the best of my	knowledge and u	nderstand	I that pure	uant to NMOCD rules and	4	
regulations al	l operators	are required t	o report a	nd/or file certain i	elease	notifications a	nd perform correct	tive actio	ons for rele	eases which may endanger		
										eve the operator of liabilit , surface water, human he		
or the enviror	ment. In a	dition, NMC	CD accep							ompliance with any other	aiui	
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Signature:	8 7>	\sim	$ \rightarrow $)		ENVIRC District Supervis	Esc ,	\sim			
Printed Name	: Mickey (Garner				Approved by	District Supervis	or:	-ph	180		
Title: HSEF	R Lead					Approval Dat	e: 18.3.07		• xpiration I	Date: 10.3.07		
E-mail Addre	*********	.D.Garner@	conocoph	illips.com		Conditions of				Attached		
Date: 7-31	-2007		Phone:	505.391.3158		SUBMITT	n of FINAL	. C. 14	1			
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PHOTO LOG







Photo Log







View – West, Away From Battery and Down Historic Oil Field Road



View – East, Toward Battery and Up the Historic Oil Field Road



View – East, Toward Removed Battery (Excavating Oily Soil)



















View – East Along Restored Historic Oil Field Road (Subsurface Marker)











View – South Toward Restored Battery (Subsurface Marker)









APPENDIX Laboratory Analyses

79701-

ph: (432) 686-8081

fax:



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips

Certifi	Certificate of Analysis Number:									
<u>08041870</u>										
Report To:	Project Name:	COP Wyatt Federal A Tank Battery Rem								
Tetra Tech	Site:	Maljamar, NM								
Charlie Durrett	Site Address:									
1703 W Industrial Avenue										
Midland	PO Number:	WA5.CNM.0100								
TX	State:	New Mexico								

State Cert. No.:

Date Reported:

5/9/2008

This Report Contains A Total Of 40 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

5/9/2008

Date



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Case Narrative for: Conoco Phillips

Certificate of Analysis Number:

<u>08041870</u>

Report To:	Project Name: COP Wyatt Federal A Tank Battery Rem
Tetra Tech Charlie Durrett 1703 W Industrial Avenue	<u>Site:</u> Maljamar, NM <u>Site Address:</u>
Midland TX 79701- ph: (432) 686-8081 fax:	PO Number:WA5.CNM.0100State:New MexicoState Cert. No.:Jate Reported:5/9/2008

Per the Conoco Phillips TSM Revision 0, a copy of the internal chain of custody is to be included in final data package. However, due to LIMS limitations, this cannot be provided at this time.

Results for soils are reported on a dry-weight basis.

The samples submitted for Volatile Organics by SW846 Method 8260B and Gasoline Range Organics by SW846 Method 8015B analyses were received in a vessel that is not stipulated in Method 5035A; the samples were not preserved and/or analyzed within 48 hours of sample collection.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Betha

08041870 Page 1 5/9/2008

Date

Bethany A. Agarwal Senior Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.

Received by OCD: 2/12/2021 2:59:55 PM



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips Certificate of Analysis Number:

		<u>08041870</u>		
Report To:	Tetra Tech		Project Name:	COP Wyatt Federal A Tank Battery Rem
	Charlie Durrett		Site:	Maljamar, NM
	1703 W Industrial Avenue		Site Address:	
	Midland			
	тх		PO Number:	WA5.CNM.0100
	79701-		State:	New Mexico
	ph: (432) 686-8081 fax: (432) 686	-8085	State Cert. No.:	
Fax To:			Date Reported:	5/9/2008

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
C5-SW-S	08041870-01	Soil	4/24/2008 10:48:00 AM	4/30/2008 10:00:00 AM	278373	
C4-SW-S	08041870-02	Soil	4/28/2008 3:41:00 PM	4/30/2008 10:00:00 AM	278373	
C5-SW-N	08041870-03	Soil	4/28/2008 10:01:00 AM	4/30/2008 10:00:00 AM	278373	
C4-SW-N	08041870-04	Soil	4/28/2008 3:41:00 PM	4/30/2008 10:00:00 AM	278373	
C6-Bot-12'	08041870-05	Soil	4/28/2008 11:05:00 AM	4/30/2008 10:00:00 AM	278373	
C7-Bot-10'	08041870-06	Soil	4/28/2008 1:28:00 PM	4/30/2008 10:00:00 AM	278373	
C8-SW-N	08041870-07	Soil	4/28/2008 3:08:00 PM	4/30/2008 10:00:00 AM	278373	
C6-SW-N	08041870-08	Soil	4/28/2008 10:49:00 AM	4/30/2008 10:00:00 AM	278373	
C6-SW-S	08041870-09	Soil	4/28/2008 10:54:00 AM	4/30/2008 10:00:00 AM	278373	
C8-SW-S	08041870-10	Soil	4/28/2008 3:15:00 PM	4/30/2008 10:00:00 AM	278373	
C8-Bot-9'	08041870-11	Soil	4/28/2008 3:21:00 PM	4/30/2008 10:00:00 AM	278378	
C7-SW-S	08041870-12	Soil	4/28/2008 1:21:00 PM	4/30/2008 10:00:00 AM	278378	
C7-SW-N	08041870-13	Soil	4/28/2008 1:15:00 PM	4/30/2008 10:00:00 AM	278378	
C3-SW-3	08041870-14	Soil	4/24/2008 10:09:00 AM	4/30/2008 10:00:00 AM	278378	
C4-Bot-14'	08041870-15	Soil	4/23/2008 3:02:00 PM	4/30/2008 10:00:00 AM	278378	

-l Bethay Aga

Bethany A. Agarwal Senior Project Manager

Richard R. Reed Laboratory Director

Ted Yen Quality Assurance Officer

> 08041870 Page 2 5/9/2008 7:40:18 PM

> > .

5/9/2008 Date



HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C5-S	N-S		Collect	ed: C)4/24/2008 [·]	10:48	SPL San	nple ID): 0804	11870-01
			Site:	Mal	ljamar, NM					
Analyses/Method	Resu	t QUAL	Rep.Li	imit	Dil.	Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS				MCL	SV	V8015B	Uni	ts: mg/k	g-dry
Diesel Range Organics (C	10-C28) ND			5.3		1	05/05/08	20:39	NW	4418950
Surr: n-Pentacosane	73.6	;	% 20-	154		1	05/05/08	20:39	NW	4418950
Prep Method	Prep Date	Prep Initial	ls Prep Fac	tor						
SW3550B	05/03/2008 16:04	QMT	1.00							
GASOLINE RANGE OR	GANICS				MCL	SV	V8015B	Uni	ts: mg/k	g-dry
Gasoline Range Organics	ND		().11		1	05/01/08	14:39	SFE	4411500
Surr: 1,4-Difluorobenzer	ne 100)	% 63-	142		1	05/01/08	14:39	SFE	4411500
Surr: 4-Bromofluorobenz	zene 100)	% 50-	159		1	05/01/08	14:39	SFE	4411500
Prep Method	Prep Date	Prep Initial	ls Prep Fac	tor						
SW5030B	05/01/2008 14:04	SFE	1.00							
ION CHROMATOGRAP	НҮ				MCL	E300	.0 MOD	Uni	ts: mg/k	g-dry
Chloride	199)	2	21.4		4	05/02/08		-	4413420
PERCENT MOISTURE					MCL		D2216	Uni	ts: wt%	
Percent Moisture	6.51			0		1	05/01/08	10:48	ESK	4409272
VOLATILE ORGANICS	BY METHOD 8260	В			MCL	SV	V8260B	Uni	ts: ug/kg	g-dry
Benzene	ND)		5.4		1	05/03/08	11:58	JC	4414322
Ethylbenzene	ND)		5.4		1	05/03/08	11:58	JC	4414322
Toluene	ND)		5.4		1	05/03/08	11:58	JC	4414322
m,p-Xylene	ND)		5.4		1	05/03/08	11:58	JC	4414322
o-Xylene	ND)		5.4		1	05/03/08	11:58	JC	4414322
Xylenes,Total	ND	1		5.4		1	05/03/08	11:58	JC	4414322
Surr: 1,2-Dichloroethane	e-d4 89.8	}	% 64-	130		1	05/03/08	11:58	JC	4414322
Surr: 4-Bromofluorobenz	zene 95.8	}	% 62-	130		1	05/03/08	11:58	JC	4414322
Surr: Toluene-d8	106	5	% 70-	140		1	05/03/08	11:58	JC	4414322

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:12	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

08041870 Page 3 5/9/2008 7:40:31 PM



HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C4-S	W-S			Col	lect	ed: 04	4/28/20	08 15:41	SPL Sar	nple l	D: 0804	41870-02
				Sit	e:	Malj	amar, I	NM				
Analyses/Method	Re	sult	QUAL	R	ep.L	imit		Dil. Facto	or Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS						MCL	- 8	SW8015B	Ur	its: mg/k	g-dry
Diesel Range Organics (C	:10-C28)	ND				5.1		1	05/05/08	21:02	NW	4418951
Surr: n-Pentacosane	7	71.3		%	20-	154		1	05/05/08	21:02	NW	4418951
Prep Method	Prep Date		Prep Initials	Prep	Fac	tor						
SW3550B	05/03/2008 16:04		QMT	1.00								
GASOLINE RANGE OR	GANICS						MCL	- :	SW8015B	Ur	nits: mg/k	g-dry
Gasoline Range Organics		ND				0.1		1	05/01/08	15:07	SFE	4411501
Surr: 1,4-Difluorobenzer	ne g	99.3		%	63-	142		1	05/01/08	15:07	SFE	4411501
Surr: 4-Bromofluoroben	zene g	98.0		%	50-	159		1	05/01/08	15:07	SFE	4411501
Prep Method	Prep Date		Prep Initials	Prep	Fac	tor						
SW5030B	05/01/2008 14:05		SFE	1.00								
ION CHROMATOGRAF	РНΥ						MCL	. E3	00.0 MOD	Ur	nits: mg/k	g-dry
Chloride	2	29.7				5.1		1	05/02/08	23:15	A_E	4413423
PERCENT MOISTURE							MCL	-	D2216	Ur	its: wt%	
Percent Moisture	1	1.94				0		1	05/01/08	10:48	ESK	4409271
VOLATILE ORGANICS	BY METHOD 82	260E	3				MCL	- :	SW8260B	Ur	nits: ug/kg	g-dry
Benzene		ND				5.1		1	05/03/08	13:20	JC	4414325
Ethylbenzene		ND				5.1		1	05/03/08	13:20	JC	4414325
Toluene		ND				5.1		1	05/03/08	13:20	JC	4414325
m,p-Xylene		ND				5.1		1	05/03/08	13:20	JC	4414325
o-Xylene		ND				5.1		1	05/03/08	13:20	JC	4414325
Xylenes,Total		ND				5.1		1	05/03/08	13:20	JC	4414325
Surr: 1,2-Dichloroethane	e-d4 8	35.3		%	64	130		1	05/03/08	13:20	JC	4414325
Surr: 4-Bromofluoroben	zene 8	39.3		%	62-	130		1	05/03/08	13:20	JC	4414325
		101		%		140		1	05/03/08		JC	4414325

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:18	JC	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C5-S	SW-N			Col	lecte	ed: 04	4/28/2008 ′	10:01	SPL San	nple I	D: 08041	870-03
				Sit	e:	Malj	jamar, NM					
Analyses/Method		Result	QUAL	Re	ep.Li	mit	Dil.	Facto	r Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS						MCL	S	W8015B	Ur	nits: mg/kg	
Diesel Range Organics (C10-C28)	ND				5		1	05/05/08	21:24	NW	4418952
Surr: n-Pentacosane		70.1		%	20-	154		1	05/05/08	21:24	NW	4418952
Prep Method	Prep Date		Prep Initials	Prep	Fac	tor						
SW3550B	05/03/2008 16:04	ļ	QMT	1.00								
GASOLINE RANGE O	RGANICS						MCL	S	W8015B	Ur	its: mg/kg	
Gasoline Range Organics	8	ND				0.1		1	05/01/08	15:36	SFE	4411502
Surr: 1,4-Difluorobenze	ene	99.1		%	63-	142		1	05/01/08	15:36	SFE	4411502
Surr: 4-Bromofluorober	nzene	97.4		%	50-	159		1	05/01/08	15:36	SFE	4411502
Prep Method	Prep Date		Prep Initials	Prep	Fac	tor						
SW5030B	05/01/2008 14:05	5	SFE	1.00								
ION CHROMATOGRA	РНҮ						MCL	E30	0.0 MOD	Ur	nits: mg/kg	
Chloride		11.4				5		1	05/02/08		A_E	4413424
PERCENT MOISTURE							MCL		D2216	Ur	nits: wt%	
Percent Moisture		ND				0		1	05/01/08	10:48	ESK	4409270
VOLATILE ORGANICS	BY METHOD	8260E	3				MCL	S	W8260B	Ur	its: ug/kg	
Benzene		ND				5		1	05/03/08	13:48	JC	4414326
Ethylbenzene		ND				5		1	05/03/08	13:48	JC	4414326
Toluene		ND				5		1	05/03/08	13:48	JC	4414326
m,p-Xylene		ND				5		1	05/03/08	13:48	JC	4414326
o-Xylene		ND				5		1	05/03/08	13:48	JC	4414326
Xylenes,Total		ND				5		1	05/03/08	13:48	JC	4414326
Surr: 1,2-Dichloroethar	ne-d4	87.6		%	64-	130		1	05/03/08	13:48	JC	4414326
Surr: 4-Bromofluorober	nzene	91.6		%	62-	130		1	05/03/08	13:48	JC	4414326

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:20	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C4-S	SW-N			Col	lect	ed: 04	4/28/2008	15:41	SPL Sam	ple I	D: 080	41870-04
				Sit	te:	Malj	jamar, NM					
Analyses/Method	R	esult	QUAL	R	ep.L	imit	Dil.	Factor	Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS						MCL	SI	W8015B	Un	its: mg/k	g-dry
Diesel Range Organics (0	C10-C28)	15				5.3		1	05/05/08	21:46	NW	4418953
Surr: n-Pentacosane		70.4		%	20-	154		1	05/05/08	21:46	NW	4418953
Prep Method	Prep Date		Prep Initials	Prep	Fac	tor						
SW3550B	05/03/2008 16:04		QMT	1.00)							
GASOLINE RANGE O	RGANICS						MCL	SI	W8015B	Un	its: mg/k	g-dry
Gasoline Range Organics	6	ND			().11		1	05/01/08	16:05	SFE	4411503
Surr: 1,4-Difluorobenze	ene	101		%	63-	142		1	05/01/08	16:05	SFE	4411503
Surr: 4-Bromofluorober	nzene	98.2		%	50-	159		1	05/01/08	16:05	SFE	4411503
Prep Method	Prep Date		Prep Initials	Prep	Fac	tor						
SW5030B	05/01/2008 14:06		SFE	1.00								
ION CHROMATOGRA	РНҮ						MCL	E300	.0 MOD	Un	its: mg/k	g-dry
Chloride		159				10.5		2	05/02/08	23:48	A_E	4413425
PERCENT MOISTURE							MCL		D2216	Un	its: wt%	
Percent Moisture		5.1				0		1	05/01/08	10:48	ESK	4409269
VOLATILE ORGANICS	BY METHOD 8	260E	3				MCL	SI	W8260B	Un	its: ug/k	g-dry
Benzene		ND				5.3		1	05/03/08	14:16	JC	4414327
Ethylbenzene		ND				5.3		1	05/03/08	14:16	JC	4414327
Toluene		ND				5.3		1	05/03/08	14:16	JC	4414327
m,p-Xylene		ND				5.3		1	05/03/08	14:16	JC	4414327
o-Xylene		ND				5.3		1	05/03/08	14:16	JC	4414327
Xylenes,Total		ND				5.3		1	05/03/08	14:16	JC	4414327
Surr: 1,2-Dichloroethar	ne-d4	87.3		%	64-	130		1	05/03/08	14:16	JC	4414327
Surr: 4-Bromofluorober	nzene	93.2		%	62-	130		1	05/03/08	14:16	JC	4414327
									05/03/08		JC	4414327

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:22	JC	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C6-Bo	t-12'			Col	lected:	04/28/2008	11:0	5 SPL Sam	ple l	D: 0804	1870-05
				Sit	e: M	aljamar, NM	1				
Analyses/Method	Re	sult	QUAL	R	ep.Limit	Dil	l. Fac	tor Date Analy	/zed	Analyst	Seq. #
DIESEL RANGE ORGAN	NICS					MCL		SW8015B	Un	its: mg/k	g-dry
Diesel Range Organics (C1	0-C28) I	ND			5.3		1	05/05/08 2	2:08	NW	4418954
Surr: n-Pentacosane	7	5.5		%	20-154		1	05/05/08 2	22:08	NW	4418954
Prep Method P	rep Date		Prep Initials	Prep	Factor						
SW3550B 0	5/03/2008 16:04		QMT	1.00							
GASOLINE RANGE OR	GANICS					MCL		SW8015B	Un	its: mg/k	a-drv
Gasoline Range Organics		ND			0.11		1	05/01/08 1		SFE	4411572
Surr: 1,4-Difluorobenzen	e 9	9.9		%	63-142		1	05/01/08 1	7:33	SFE	4411572
Surr: 4-Bromofluorobenzo	ene 9	7.1		%	50-159		1	05/01/08 1	7:33	SFE	4411572
Prep Method P	rep Date		Prep Initials	Prer	Factor						
	5/01/2008 15:19		SFE	1.00							
ION CHROMATOGRAPH	17					MCL	F3	00.0 MOD	Un	its: mg/k	a-drv
Chloride		0.8			5.3		1	05/03/08			4413426
ION CHROMATOGRAPH	IY - SPLP					MCL		SW9056	Un	its: mg/L	
Chloride	-	.23			0.5		1	05/05/08 1			4418340
						Leesh Metherl	1	Lessbete Dete		Laash	luitiele.
						Leach Method		Leachate Date		Leach GF	initiais
						SW1312		05/01/2008		GF	
PERCENT MOISTURE						MCL		D2216		its: wt%	
Percent Moisture	5	.59			0		1	05/01/08 1	0:48	ESK	4409267
SPLP VOLATILE ORGA	NICS					MCL		SW8260B		its: ug/L	
Benzene	I	ND			5		1	05/02/08 2	20:51	LT	4413373
Ethylbenzene	I	ND			5		1	05/02/08 2	20:51	LT	4413373
Toluene		ND			5		1	05/02/08 2	20:51	LT	4413373
m,p-Xylene		ND			5		1	05/02/08 2	20:51	LT	4413373
o-Xylene		ND			5		1	05/02/08 2	20:51	LT	4413373
Xylenes,Total		ND			5		1	05/02/08 2	20:51	LT	4413373
Surr: 1,2-Dichloroethane-	d4 9	2.0		%	62-130		1	05/02/08 2	20:51	LT	4413373
Surr: 4-Bromofluorobenze	ene 9	0.0		%	70-130		1	05/02/08 2	20:51	LT	4413373
Surr: Toluene-d8	9	6.0		%	74-122		1	05/02/08 2	20:51	LT	4413373
						Leach Method		l eachate Date		Leach	L. 10 - L.

Leach Method	Leachate Date	Leach Initials
SW1312	05/01/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C6-Bot-12'			Col	ected: 04	1/28/2008 1	1:05	SPL Sar	nple I	D: 0804	1870-05
			Sit	e: Malj	amar, NM					
Analyses/Method	Result	QUAL	Re	ep.Limit	Dil. I	actor	Date Ana	lyzed	Analyst	Seq. #
VOLATILE ORGANICS BY MET	HOD 8260B				MCL	SV	V8260B	Un	its: ug/kg	-dry
Benzene	ND			5.3		1	05/03/08	14:43	JC	4414328
Ethylbenzene	ND			5.3		1	05/03/08	14:43	JC	4414328
Toluene	ND			5.3		1	05/03/08	14:43	JC	4414328
m,p-Xylene	ND			5.3		1	05/03/08	14:43	JC	4414328
o-Xylene	ND			5.3		1	05/03/08	14:43	JC	4414328
Xylenes,Total	ND			5.3		1	05/03/08	14:43	JC	4414328
Surr: 1,2-Dichloroethane-d4	89.5		%	64-130		1	05/03/08	14:43	JC	4414328
Surr: 4-Bromofluorobenzene	93.4		%	62-130		1	05/03/08	14:43	JC	4414328
Surr: Toluene-d8	103		%	70-140		1	05/03/08	14:43	JC	4414328

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:24	JC	1.01

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- ${\sf E}$ Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C7-Bo	t-10'			Col	ected	: 04/28/20	08 13:2	28 SPL Sam	ple l	D: 0804	1870-06
				Sit	e: N	laljamar, l	MM				
Analyses/Method	Res	ult	QUAL	Re	ep.Limi	t	Dil. Fac	ctor Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGAN	NICS					MCL		SW8015B	Un	its: mg/k	g-dry
Diesel Range Organics (C1	0-C28) 5	5.5			5.2	2	1	05/05/08	22:30	NW	4418955
Surr: n-Pentacosane	96	5.5		%	20-154	1	1	05/05/08	22:30	NW	4418955
Prep Method P	rep Date		Prep Initials	Prep	Factor						
SW3550B 0	5/03/2008 16:04		QMT	1.00							
GASOLINE RANGE OR	GANICS					MCL		SW8015B	Un	its: mg/k	g-dry
Gasoline Range Organics	N	ID			0.1		1	05/01/08	18:02	SFE	4411573
Surr: 1,4-Difluorobenzene	e 1(01		%	63-142	2	1	05/01/08	18:02	SFE	4411573
Surr: 4-Bromofluorobenze	ene 98	8.4		%	50-159	9	1	05/01/08	18:02	SFE	4411573
Prep Method P	rep Date		Prep Initials	Prep	Factor	7					
	5/01/2008 15:20		SFE	1.00							
ION CHROMATOGRAPH	ΗY					MCL	. E	300.0 MOD	Un	its: mg/k	g-dry
Chloride	1:	33			10.4	1	2	05/03/08		A_E	4413427
ION CHROMATOGRAPH	IY - SPLP					MCL		SW9056	Un	its: mg/L	
Chloride	6.	14			0.5	5	1	05/05/08	18:32	A_E	4418343
						Leach Meth	hod	Leachate Date	<u>,</u>	Leach	Initials
						SW1312	100	05/01/2008	<u>.</u>	GF	<u>initiais</u>
PERCENT MOISTURE						MCL	-	D2216	Un	its: wt%	
Percent Moisture	3.9	98			()	1	-			4409266
SPLP VOLATILE ORGA	NICS					MCL		SW8260B	Un	its: ug/L	
Benzene	N	ID			Ę	5	1	05/02/08		LT	4413372
Ethylbenzene	N	ID			Ę	5	1	05/02/08	20:24	LT	4413372
Toluene		5			Ę	5	1	05/02/08	20:24	LT	4413372
m,p-Xylene		20			Ę	5	1	05/02/08	20:24	LT	4413372
o-Xylene		15			Ę	5	1	05/02/08	20:24	LT	4413372
Xylenes,Total	:	35			Ę	5	1	05/02/08	20:24	LT	4413372
Surr: 1,2-Dichloroethane-	d4 92	2.0		%	62-130)	1	05/02/08	20:24	LT	4413372
Surr: 4-Bromofluorobenz	ene 94	.0		%	70-130)	1	05/02/08	20:24	LT	4413372
Surr: Toluene-d8	96	6.0		%	74-122	2	1	05/02/08	20:24	LT	4413372
						Leach Meth		Leachate Date		l each	Initiala

Leach Method	Leachate Date	Leach Initials		
SW1312	05/01/2008	GF		

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C7-Bot-10'			Col	ected: 04	1/28/2008 1	3:28	SPL Sar	nple I	D: 0804	08041870-06	
			Sit	e: Malj	amar, NM						
Analyses/Method	Result	QUAL	Re	p.Limit	Dil. I	Factor	Date Ana	lyzed	Analyst	Seq. #	
VOLATILE ORGANICS BY METHOD 8260B				MCL	SV	V8260B	Un	its: ug/kg	J-dry		
Benzene	ND			5.2		1	05/03/08	15:10	JC	4414329	
Ethylbenzene	ND			5.2		1	05/03/08	15:10	JC	4414329	
Toluene	ND			5.2		1	05/03/08	15:10	JC	4414329	
m,p-Xylene	ND			5.2		1	05/03/08	15:10	JC	4414329	
o-Xylene	ND			5.2		1	05/03/08	15:10	JC	4414329	
Xylenes,Total	ND			5.2		1	05/03/08	15:10	JC	4414329	
Surr: 1,2-Dichloroethane-d4	89.5		%	64-130		1	05/03/08	15:10	JC	4414329	
Surr: 4-Bromofluorobenzene	93.4		%	62-130		1	05/03/08	15:10	JC	4414329	
Surr: Toluene-d8	101		%	70-140		1	05/03/08	15:10	JC	4414329	

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:26	JC	1.01

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C8	3-SW-N			Col	lected	1: 04/	28/2008	15:08	SPL Sar	nple I	D: 080	041870-07
				Sit	e: N	/lalja	mar, NM					
Analyses/Method		Result	QUAL	R	ep.Lim	it	Dil	. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE OR	GANICS						MCL	SV	V8015B	Un	its: mg/	kg-dry
Diesel Range Organics	s (C10-C28)	ND			5.	2		1	05/05/08	22:52	NW	4418956
Surr: n-Pentacosane	9	69.6		%	20-15	4		1	05/05/08	22:52	NW	4418956
Prep Method	Prep Date		Prep Initials	Prep	Factor							
SW3550B	05/03/2008 16	6:04	QMT	1.00								
GASOLINE RANGE	ORGANICS						MCL	SV	V8015B	Un	its: mg/	kg-dry
Gasoline Range Organ	nics	ND			0.	1		1	05/01/08	18:30	SFE	4411574
Surr: 1,4-Difluorober	nzene	100		%	63-14	2		1	05/01/08	18:30	SFE	4411574
Surr: 4-Bromofluoro	benzene	98.4		%	50-15	9		1	05/01/08	18:30	SFE	4411574
Prep Method	Prep Date		Prep Initials	Prec	Factor							
SW5030B	05/01/2008 15	5:20	SFE	1.00		<u> </u>						
ION CHROMATOGR	APHY						MCL	E300	.0 MOD	Un	its: mg/	kq-dry
Chloride		155			10.	4		2	05/03/0			4413430
PERCENT MOISTUR	RE						MCL		D2216	Un	its: wt%	
Percent Moisture		4.29				0		1	05/01/08	10:48	ESK	4409265
VOLATILE ORGANI	CS BY METHO	DD 8260E	3				MCL	SV	V8260B	Un	its: ug/k	g-dry
Benzene		ND			5.	2		1	05/03/08	15:38	JC	4414330
Ethylbenzene		ND			5.	2		1	05/03/08	15:38	JC	4414330
Toluene		ND			5.	2		1	05/03/08	15:38	JC	4414330
m,p-Xylene		ND			5.	2		1	05/03/08	15:38	JC	4414330
o-Xylene		ND			5.	2		1	05/03/08	15:38	JC	4414330
Xylenes,Total		ND			5.	2		1	05/03/08	15:38	JC	4414330
Surr: 1,2-Dichloroeth	nane-d4	88.4		%	64-13	0		1	05/03/08	15:38	JC	4414330
Surr: 4-Bromofluoro	benzene	94.4		%	62-13	0		1	05/03/08	15:38	JC	4414330
Surr: Toluene-d8		102		%	70-14	0		1	05/03/08	15:38	JC	4414330
			I			_						

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:28	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C6-S	W-N		Collecte	d: 04/	/28/2008 1	0:49	SPL San	nple II	D: 080	41870-08
			Site:	Malja	mar, NM					
Analyses/Method	Resul	t QUAL	Rep.Lin	nit	Dil.	Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS				MCL	SV	V8015B	Un	its: mg/k	g-dry
Diesel Range Organics (C	(10-C28) 6.5		5	.2		1	05/05/08	23:15	NW	4418957
Surr: n-Pentacosane	110		% 20-1	54		1	05/05/08	23:15	NW	4418957
Prep Method	Prep Date	Prep Initials	Prep Facto	r						
	05/03/2008 16:04	QMT	1.00							
GASOLINE RANGE OR	RGANICS				MCL	SV	V8015B	Un	its: mg/k	g-dry
Gasoline Range Organics	ND		0	.1		1	05/01/08	18:59	SFE	4411575
Surr: 1,4-Difluorobenzer	ne 100		% 63-14	42		1	05/01/08	18:59	SFE	4411575
Surr: 4-Bromofluoroben	zene 97.1		% 50-1	59		1	05/01/08	18:59	SFE	4411575
Prep Method	Prep Date	Prep Initials	Prep Facto	r						
SW5030B	05/01/2008 15:21	SFE	1.00							
ION CHROMATOGRAF	РНҮ				MCL	E300	.0 MOD	Un	its: mg/k	g-dry
Chloride	186		10	.5		2	05/03/08			4413431
PERCENT MOISTURE					MCL		D2216	Un	its: wt%	
Percent Moisture	4.62			0		1	05/01/08	10:48	ESK	4409264
VOLATILE ORGANICS	BY METHOD 8260	В			MCL	SV	V8260B	Un	its: ug/k	g-dry
Benzene	ND		5	.3		1	05/04/08	14:10	JC	4416103
Ethylbenzene	ND		5	.3		1	05/04/08	14:10	JC	4416103
Toluene	ND		5	.3		1	05/04/08	14:10	JC	4416103
m,p-Xylene	ND		5	.3		1	05/04/08	14:10	JC	4416103
o-Xylene	ND		5	.3		1	05/04/08	14:10	JC	4416103
Xylenes,Total	ND		5	.3		1	05/04/08	14:10	JC	4416103
Surr: 1,2-Dichloroethane	e-d4 85.7		% 64-13	30		1	05/04/08	14:10	JC	4416103
Surr: 4-Bromofluoroben	zene 91.6		% 62-13	30		1	05/04/08	14:10	JC	4416103
Surr: Toluene-d8	106		% 70-14	40		1	05/04/08	14:10	JC	4416103
		r								

Prep Method	Prep Date	Prep Initials	Prep Factor	
SW5030B	05/01/2008 14:30	JC	1.00	

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C6-	SW-S			Col	lected:	04/28/2008	10:54	SPL San	nple I	D: 0804	1870-09
				Sit	e: Ma	aljamar, NM	l				
Analyses/Method		Result	QUAL	R	ep.Limit	Dil	. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS					MCL	SV	V8015B	Un	its: mg/k	g-dry
Diesel Range Organics	(C10-C28)	ND			5.3		1	05/05/08	23:37	NW	4418958
Surr: n-Pentacosane		85.2		%	20-154		1	05/05/08	23:37	NW	4418958
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3550B	05/03/2008 16:	04	QMT	1.00							
GASOLINE RANGE C	RGANICS					MCL	SV	V8015B	Un	its: mg/k	g-dry
Gasoline Range Organio	cs	ND			0.11		1	05/01/08	19:28	SFE	4411576
Surr: 1,4-Difluorobenz	zene	100		%	63-142		1	05/01/08	19:28	SFE	4411576
Surr: 4-Bromofluorobe	enzene	98.3		%	50-159		1	05/01/08	19:28	SFE	4411576
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	05/01/2008 15:	22	SFE	1.00							
ION CHROMATOGRA	APHY					MCL	E300	.0 MOD	Un	its: mg/k	g-dry
Chloride		229			21.1		4	05/03/08	3 1:43	A_E	4413432
PERCENT MOISTURI	E					MCL		D2216	Un	its: wt%	
Percent Moisture		5.35			0		1	05/01/08	10:48	ESK	4409263
VOLATILE ORGANIC	S BY METHO	D 8260E	3			MCL	SV	V8260B	Un	its: ug/kg	-dry
Benzene		ND			5.3		1	05/04/08	14:37	JC	4416104
Ethylbenzene		ND			5.3		1	05/04/08	14:37	JC	4416104
Toluene		ND			5.3		1	05/04/08	14:37	JC	4416104
m,p-Xylene		ND			5.3		1	05/04/08	14:37	JC	4416104
o-Xylene		ND			5.3		1	05/04/08	14:37	JC	4416104
Xylenes,Total		ND			5.3		1	05/04/08	14:37	JC	4416104
Surr: 1,2-Dichloroetha	ane-d4	87.5		%	64-130		1	05/04/08	14:37	JC	4416104
Surr: 4-Bromofluorobe		91.4		%	62-130		1	05/04/08	14:37	JC	4416104

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:36	JC	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C8-	SW-S			Col	lecte	ed: 04	1/28/2008	15:15	SPL San	nple I	D: 080	41870-10
				Sit	te:	Malj	amar, NN	1				
Analyses/Method	F	Result	QUAL	R	ep.Li	mit	Di	I. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS						MCL	SI	W8015B	Un	its: mg/k	g-dry
Diesel Range Organics	(C10-C28)	ND				5.2		1	05/05/08	23:59	NW	4418959
Surr: n-Pentacosane		80.1		%	20-	154		1	05/05/08	23:59	NW	4418959
Prep Method	Prep Date		Prep Initials	Prep	Fact	or						
SW3550B	05/03/2008 16:04		QMT	1.00)							
GASOLINE RANGE C	RGANICS						MCL	SI	W8015B	Un	its: mg/k	g-dry
Gasoline Range Organic	s	ND				0.1		1	05/01/08	19:56	SFE	4411577
Surr: 1,4-Difluorobenz	zene	99.6		%	63-	142		1	05/01/08	19:56	SFE	4411577
Surr: 4-Bromofluorobe	enzene	98.2		%	50-	159		1	05/01/08	19:56	SFE	4411577
Prep Method	Prep Date		Prep Initials	Prec	Fact	or						
SW5030B	05/01/2008 15:23		SFE	1.00								
ION CHROMATOGRA	APHY						MCL	E300	0.0 MOD	Un	its: mg/k	g-dry
Chloride		35.5				5.2		1	05/03/08			4414206
PERCENT MOISTURE	_						MCL		D2216	Un	its: wt%	
Percent Moisture		3.91				0		1	05/01/08	10:48	ESK	4409261
VOLATILE ORGANIC	S BY METHOD	8260E	3				MCL	SI	W8260B	Un	its: ug/k	g-dry
Benzene		ND				5.2		1	05/04/08	15:04	JC	4416105
Ethylbenzene		ND				5.2		1	05/04/08	15:04	JC	4416105
Toluene		ND				5.2		1	05/04/08	15:04	JC	4416105
m,p-Xylene		ND				5.2		1	05/04/08	15:04	JC	4416105
o-Xylene		ND				5.2		1	05/04/08	15:04	JC	4416105
Xylenes,Total		ND				5.2		1	05/04/08	15:04	JC	4416105
Surr: 1,2-Dichloroetha	ane-d4	89.6		%	64-	130		1	05/04/08	15:04	JC	4416105
Surr: 4-Bromofluorobe	enzene	93.6		%	62-	130		1	05/04/08	15:04	JC	4416105
Surr: Toluene-d8		106		%	70-	140		1	05/04/08	15:04	JC	4416105
	1		T									

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:38	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C8	3-Bot-9'			Col	ected:	04/28/2008	15:21	SPL Samp	le ID	: 0804	1870-11
				Sit	e: M	aljamar, NN	1				
Analyses/Method		Result	QUAL	Re	p.Limit	Di	I. Facto	r Date Analyz	ed	Analyst	Seq. #
DIESEL RANGE OR	GANICS					MCL	S	W8015B	Unit	s: mg/kg	g-dry
Diesel Range Organics	s (C10-C28)	ND			5.2		1	05/06/08 1	:06 N	IW	441896
Surr: n-Pentacosane	9	88.9		%	20-154		1	05/06/08 1	:06 N	IW	441896
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3550B	05/03/2008 1	6:04	QMT	1.00							
GASOLINE RANGE	ORGANICS					MCL	S	W8015B	Unit	s: mg/kg	g-dry
Gasoline Range Organ	nics	ND			0.1		1	05/01/08 20			4411578
Surr: 1,4-Difluorobe	nzene	99.2		%	63-142		1	05/01/08 20	:25 S	FE	4411578
Surr: 4-Bromofluoro	benzene	98.7		%	50-159		1	05/01/08 20	:25 S	FE	4411578
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	05/01/2008 1	5:23	SFE	1.00							
ION CHROMATOGR	APHY					MCL	E30	0.0 MOD	Unit	s: mg/kg	a-dry
Chloride		89.6			5.24		1	05/03/08 16			4414207
ION CHROMATOGR	APHY - SPLP)				MCL		SW9056	Unit	s: mg/L	
Chloride		3.38			0.5		1	05/05/08 18	:48 A	_E	441834
						Leach Method	1 L	_eachate Date		Leach	nitials
						SW1312		05/01/2008		GF	
PERCENT MOISTUR	RE					MCL		D2216	Unit	s: wt%	
Percent Moisture		4.49			0		1	05/01/08 10	:48 E	SK	4409260
SPLP VOLATILE OF	GANICS					MCL	S	W8260B	Unit	s: ug/L	
Benzene		ND			5		1	05/02/08 21	:18 l	T	4413374
Ethylbenzene		ND			5		1	05/02/08 21	:18 l	T	4413374
Toluene		ND			5		1	05/02/08 21	:18 l	T	4413374
m,p-Xylene		ND			5		1	05/02/08 21	:18 l	T	4413374
o-Xylene		ND			5		1	05/02/08 21	:18 l	T	4413374
Xylenes,Total		ND			5		1	05/02/08 21	:18 I	T	4413374
Surr: 1,2-Dichloroet	nane-d4	92.0		%	62-130		1	05/02/08 21	:18 I	T	4413374
Surr: 4-Bromofluoro	benzene	90.0		%	70-130		1	05/02/08 21	:18 I	T	4413374
Surr: Toluene-d8		96.0		%	74-122		1	05/02/08 21	:18 I	T	4413374
						Leach Method	1 L	_eachate Date		Leach	nitials
								5/04/0000		05	

Leach Method	Leachate Date	Leach Initials
SW1312	05/01/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C8-Bot-9'		Col	lected: 04	4/28/2008 15:21	SPL Sar	nple II	D: 0804	08041870-11	
			Sit	e: Malj	amar, NM				
Analyses/Method	Result	QUAL	Re	ep.Limit	Dil. Fact	or Date Ana	lyzed	Analyst	Seq. #
VOLATILE ORGANICS BY MET	HOD 8260B				MCL	SW8260B	Un	its: ug/kg	J-dry
Benzene	ND			5.2	1	05/03/08	16:06	JC	4414331
Ethylbenzene	ND			5.2	1	05/03/08	16:06	JC	4414331
Toluene	ND			5.2	1	05/03/08	16:06	JC	4414331
m,p-Xylene	ND			5.2	1	05/03/08	16:06	JC	4414331
o-Xylene	ND			5.2	1	05/03/08	16:06	JC	4414331
Xylenes,Total	ND			5.2	1	05/03/08	16:06	JC	4414331
Surr: 1,2-Dichloroethane-d4	87.8		%	64-130	1	05/03/08	16:06	JC	4414331
Surr: 4-Bromofluorobenzene	93.8		%	62-130	1	05/03/08	16:06	JC	4414331
Surr: Toluene-d8	104		%	70-140	1	05/03/08	16:06	JC	4414331

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:40	JC	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C7-	SW-S			Col	lected	1: 0	4/28/2008	3 13:21	SPL San	nple I	D: 0804	41870-12
				Sit	e: I	Mal	jamar, NM	И				
Analyses/Method	F	Result	QUAL	R	ep.Lim	nit	D	il. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS						MCL	SV	V8015B	Un	its: mg/k	g-dry
Diesel Range Organics	(C10-C28)	ND			5	.3		1	05/06/08	8 1:28	NW	4418962
Surr: n-Pentacosane		95.1		%	20-15	54		1	05/06/08	8 1:28	NW	4418962
Prep Method	Prep Date		Prep Initials	Prep	Facto	ſ						
SW3550B	05/03/2008 16:04		QMT	1.00								
GASOLINE RANGE C	RGANICS						MCL	SV	W8015B	Un	its: mg/k	g-dry
Gasoline Range Organic	cs	ND			0.1	1		1	05/01/08	20:54	SFE	4411579
Surr: 1,4-Difluorobenz	zene	99.4		%	63-14	12		1	05/01/08	20:54	SFE	4411579
Surr: 4-Bromofluorobe	enzene	97.7		%	50-15	59		1	05/01/08	20:54	SFE	4411579
Prep Method	Prep Date		Prep Initials	Prep	Facto	r						
SW5030B	05/01/2008 15:24		SFE	1.00								
ION CHROMATOGRA	APHY						MCL	E300	.0 MOD	Un	its: mg/k	g-dry
Chloride		236			21	.1		4	05/03/08	17:40	A_E	4414210
PERCENT MOISTUR	E						MCL		D2216	Un	its: wt%	
Percent Moisture		5.41				0		1	05/01/08	10:48	ESK	4409258
VOLATILE ORGANIC	S BY METHOD	8260E	3				MCL	SV	V8260B	Un	its: ug/kg	j-dry
Benzene		ND			5	.3		1	05/03/08	16:33	JC	4414332
Ethylbenzene		ND			5	.3		1	05/03/08	16:33	JC	4414332
Toluene		ND			5	.3		1	05/03/08	16:33	JC	4414332
m,p-Xylene		ND			5	.3		1	05/03/08	16:33	JC	4414332
o-Xylene		ND			5	.3		1	05/03/08	16:33	JC	4414332
Xylenes,Total		ND			5	.3		1	05/03/08	16:33	JC	4414332
Surr: 1,2-Dichloroetha	ane-d4	89.3		%	64-13	30		1	05/03/08	16:33	JC	4414332
Surr: 4-Bromofluorobe	enzene	91.3		%	62-13	30		1	05/03/08	16:33	JC	4414332
Surr: Toluene-d8		103		%	70-14	10		1	05/03/08	16:33	JC	4414332

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:42	JC	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C7	7-SW-N			Col	lected:	04/28/2008	13:15	SPL San	nple I	D: 0804	41870-13
				Sit	e: Ma	aljamar, NN	I				
Analyses/Method		Result	QUAL	Re	ep.Limit	Di	I. Factor	Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE OR	GANICS					MCL	SV	V8015B	Un	its: mg/k	g-dry
Diesel Range Organics	s (C10-C28)	ND			5.3		1	05/06/08	3 1:50	NW	4418963
Surr: n-Pentacosane	9	94.4		%	20-154		1	05/06/08	8 1:50	NW	4418963
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3550B	05/03/2008 16	:04	QMT	1.00							
GASOLINE RANGE	ORGANICS					MCL	SV	V8015B	Un	its: mg/k	g-dry
Gasoline Range Organ	iics	ND			0.11		1	05/01/08	21:23	SFE	4411580
Surr: 1,4-Difluorober	nzene	101		%	63-142		1	05/01/08	21:23	SFE	4411580
Surr: 4-Bromofluoro	penzene	97.1		%	50-159		1	05/01/08	21:23	SFE	4411580
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	05/01/2008 15	:25	SFE	1.00							
ION CHROMATOGR	APHY					MCL	E300	.0 MOD	Un	its: mg/k	g-dry
Chloride		187			21.2		4	05/03/08	17:56	A_E	4414211
PERCENT MOISTUR	RE					MCL		D2216	Un	its: wt%	
Percent Moisture		5.62			0		1	05/01/08	10:48	ESK	4409257
VOLATILE ORGANI	СЅ ВҮ МЕТНО	D 8260E	3			MCL	SV	V8260B	Un	its: ug/kg	g-dry
Benzene		ND			5.3		1	05/04/08	15:31	JC	4416106
Ethylbenzene		ND			5.3		1	05/04/08	15:31	JC	4416106
Toluene		ND			5.3		1	05/04/08	15:31	JC	4416106
m,p-Xylene		ND			5.3		1	05/04/08	15:31	JC	4416106
o-Xylene		ND			5.3		1	05/04/08	15:31	JC	4416106
Xylenes,Total		ND			5.3		1	05/04/08	15:31	JC	4416106
Surr: 1,2-Dichloroeth	nane-d4	88.5		%	64-130		1	05/04/08	15:31	JC	4416106
Surr: 4-Bromofluoro	penzene	92.6		%	62-130		1	05/04/08	15:31	JC	4416106
Surr: Toluene-d8		105		%	70-140		1	05/04/08	15:31	JC	4416106

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:44	JC	0.99

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C3-	-SW-3			Col	lect	ed: (04/24/2008	10:09	SPL Sar	nple I	D: 080	41870-14
				Sit	te:	Ма	ljamar, NM	I				
Analyses/Method	Re	sult	QUAL	R	ep.Li	imit	Dil	. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORG	BANICS						MCL	SI	N8015B	Un	its: mg/	kg-dry
Diesel Range Organics	(C10-C28)	ND				5.3		1	05/06/08	3 2:12	NW	4418964
Surr: n-Pentacosane	1	100		%	20-	154		1	05/06/08	3 2:12	NW	4418964
Prep Method	Prep Date		Prep Initials	Prep	Fac	tor						
SW3550B	05/03/2008 16:04		QMT	1.00)							
GASOLINE RANGE	ORGANICS						MCL	SI	N8015B	Un	its: mg/	kg-dry
Gasoline Range Organi	CS	ND			C).11		1	05/01/08	21:52	SFE	4411581
Surr: 1,4-Difluoroben:	zene 9	9.7		%	63-	142		1	05/01/08	21:52	SFE	4411581
Surr: 4-Bromofluorob	enzene 9	7.3		%	50-	159		1	05/01/08	21:52	SFE	4411581
Prep Method	Prep Date		Prep Initials	Prep	Fac	tor						
SW5030B	05/01/2008 15:25		SFE	1.00								
ION CHROMATOGR	APHY						MCL	E300	.0 MOD	Un	its: mg/	kg-dry
Chloride	2	223			2	21.2		4	05/03/08	18:13	A_E	4414212
PERCENT MOISTUR	E						MCL		D2216	Un	its: wt%	
Percent Moisture	5	.51				0		1	05/01/08	10:48	ESK	4409256
VOLATILE ORGANIC	S BY METHOD 82	60E	3				MCL	SI	N8260B	Un	its: ug/k	g-dry
Benzene		ND				5.3		1	05/04/08	15:58	JC	4416107
Ethylbenzene		ND				5.3		1	05/04/08	15:58	JC	4416107
Toluene		ND				5.3		1	05/04/08	15:58	JC	4416107
m,p-Xylene		ND				5.3		1	05/04/08	15:58	JC	4416107
o-Xylene		ND				5.3		1	05/04/08	15:58	JC	4416107
Xylenes,Total		ND				5.3		1	05/04/08	15:58	JC	4416107
Surr: 1,2-Dichloroetha	ane-d4 9	1.6		%	64-	130		1	05/04/08	15:58	JC	4416107
Surr: 4-Bromofluorob	enzene 9	3.6		%	62-	130		1	05/04/08	15:58	JC	4416107
Surr: Toluene-d8	1	102		%	70-	140		1	05/04/08	15:58	JC	4416107

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:46	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C4-Bo	ot-14'		Col	ected:	04/23/2008	15:02	SPL Sam	ple I	D: 0804	1870-15
			Sit	e: Ma	aljamar, NN	1				
Analyses/Method	Result	t QUAL	Re	ep.Limit	Di	I. Factor	Date Analy	/zed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS				MCL	S	W8015B	Uni	its: mg/k	g-dry
Diesel Range Organics (C	10-C28) ND			5.4		1	05/05/08 1	8:26	NW	4419041
Surr: n-Pentacosane	78.9		%	20-154		1	05/05/08 1	8:26	NW	4419041
Prep Method	Prep Date	Prep Initials	Prep	Factor						
	05/04/2008 14:27	QMT	1.00							
GASOLINE RANGE OR	GANICS				MCL	S	W8015B	Uni	its: mg/k	g-dry
Gasoline Range Organics	ND			0.11		1	05/02/08		-	4411586
Surr: 1,4-Difluorobenzer	ne 99.9		%	63-142		1	05/02/08	0:15	SFE	4411586
Surr: 4-Bromofluorobenz	zene 96.9		%	50-159		1	05/02/08	0:15	SFE	4411586
Prep Method	Prep Date	Prep Initials	Prep	Factor						
	05/01/2008 14:07	SFE	1.00							
ION CHROMATOGRAP	ΉY				MCL	E300	0.0 MOD	Uni	its: mg/k	a-drv
Chloride	82			5.38		1	05/03/08 1			4414213
ION CHROMATOGRAP	HY - SPLP				MCL		SW9056	Uni	its: mg/L	
Chloride	2.62			0.5		1	05/05/08 1			441834
					Leach Method	4 1	eachate Date		Leach	Initials
					SW1312		5/01/2008		GF	
PERCENT MOISTURE					MCL		D2216	Uni	its: wt%	
Percent Moisture	7.03			0	_	1	05/01/08 1	0:48	ESK	440925
SPLP VOLATILE ORGA	ANICS				MCL	S	W8260B	Uni	its: ug/L	
Benzene	ND			5		1	05/02/08 1		LT	441337
Ethylbenzene	ND			5		1	05/02/08 1	9:58	LT	4413371
Toluene	ND			5		1	05/02/08 1	9:58	LT	4413371
m,p-Xylene	ND			5		1	05/02/08 1	9:58	LT	441337 <i>°</i>
o-Xylene	ND			5		1	05/02/08 1	9:58	LT	441337 <i>°</i>
Xylenes,Total	ND			5		1	05/02/08 1	9:58	LT	441337 <i>°</i>
Surr: 1,2-Dichloroethane	e-d4 92.0		%	62-130		1	05/02/08 1	9:58	LT	441337 <i>°</i>
Surr: 4-Bromofluorobenz	zene 88.0		%	70-130		1	05/02/08 1	9:58	LT	441337 <i>′</i>
Surr: Toluene-d8	94.0		%	74-122		1	05/02/08 1	9:58	LT	4413371
				1	Leach Methor	4	eachate Date		l each	Initials

Leach Method	Leachate Date	Leach Initials
SW1312	05/01/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C4-Bot-14'			Col	ected: 04	1/23/2008 15:02	2 SPL Sar	nple II	D: 0804	08041870-15	
			Sit	e: Malj	amar, NM					
Analyses/Method	Result	QUAL	Re	ep.Limit	Dil. Facto	or Date Ana	lyzed	Analyst	Seq. #	
VOLATILE ORGANICS BY MET	HOD 8260B				MCL	SW8260B	Un	its: ug/kg	J-dry	
Benzene	ND			5.4	1	05/04/08	12:48	JC	4416100	
Ethylbenzene	ND			5.4	1	05/04/08	12:48	JC	4416100	
Toluene	ND			5.4	1	05/04/08	12:48	JC	4416100	
m,p-Xylene	ND			5.4	1	05/04/08	12:48	JC	4416100	
o-Xylene	ND			5.4	1	05/04/08	12:48	JC	4416100	
Xylenes,Total	ND			5.4	1	05/04/08	12:48	JC	4416100	
Surr: 1,2-Dichloroethane-d4	88.2		%	64-130	1	05/04/08	12:48	JC	4416100	
Surr: 4-Bromofluorobenzene	92.2		%	62-130	1	05/04/08	12:48	JC	4416100	
Surr: Toluene-d8	102		%	70-140	1	05/04/08	12:48	JC	4416100	

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:48	JC	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/\!V}}\xspace$ - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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Quality Control Documentation

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Conoco Phillips

COP Wyatt Federal A Tank Battery Remediation

Analysis: Method:	Diesel Range Organic SW8015B	S				WorkOrder: Lab Batch ID:	08041870 78466
	Metho	od Blank			Samples in Analyti	cal Batch:	
RunID: HP_Z_08	80505C-4418865	Units:	mg/kg		Lab Sample ID	Client Sar	nple ID
Analysis Date:	05/05/2008 16:13	Analyst:	NW		08041870-01A	C5-SW-S	
Preparation Date:	05/03/2008 16:04	Prep By:		lethod SW3550B	08041870-02A	C4-SW-S	
					08041870-03A	C5-SW-N	
	A		Decili	Dara L'anti	08041870-04A	C4-SW-N	
	Analyte	Result	Rep Limit	08041870-05A	C6-Bot-12		
	el Range Organics (C10-C28 rr: n-Pentacosane)	<u>ND</u> 93.5		08041870-06A	C7-Bot-10	
		Į	00.0	20101	08041870-07A	C8-SW-N	
					08041870-08A	C6-SW-N	
					08041870-09A	C6-SW-S	
					08041870-10A	C8-SW-S	
					08041870-11A	C8-Bot-9'	
					08041870-12A	C7-SW-S	
					08041870-13A	C7-SW-N	
					08041870-14A	C3-SW-3	

Laboratory Control Sample (LCS)

RunID:	HP_Z_080505C-4418866	Units:	mg/kg
Analysis Date:	05/05/2008 16:35	Analyst:	NW
Preparation Date:	05/03/2008 16:04	Prep By:	QMT Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	66.6	66.6	100	57	150
Surr: n-Pentacosane	1.66	1.65	99.4	20	154

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08041869-01		
RunID:	HP_Z_080505C-4418943	Units:	mg/kg
Analysis Date:	05/05/2008 17:19	Analyst:	NW
Preparation Date:	05/03/2008 16:04	Prep By:	QMT Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	ND	66.6	54.9	82.4	66.6	50.5	75.8	8.44	50	21	175

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

Quality Control Report

COP Wyatt Federal A Tank Battery Remediation

Analysis: Method:	Diesel Range Orga SW8015B	nics				WorkOrder: Lab Batch ID:			08041870 78466				
	Matrix Spike (MS) / Matrix Spike Duplicate (MSD)												
	Sar Rur Ana Pre	05/05/	869-01 080505C-4418 2008 17:19 2008 16:04	W3550B									
	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	
Surr: n-Pent	tacosane	ND	1.66	1.36	82.1	1.66	1.26	76.2	7.48	30	20	154	

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

E - Estimated Value exceeds calibration curve

MI - Matrix Interference D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

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Conoco Phillips

COP Wyatt Federal A Tank Battery Remediation

Samples in Analytical Batch:
Samples in Analytical Batch.
Lab Sample ID Client Sample ID
08041870-15A C4-Bot-14'
3550B

Analyte	Result	Rep Limit
Diesel Range Organics (C10-C28)	ND	5.0
Surr: n-Pentacosane	90.1	20-154

Quality Control Report

Laboratory Control Sample (LCS)

RunID:	
Analysis Date:	
Preparation Date:	

HP_Z_080505D-4419037 05/05/2008 16:35 05/04/2008 14:27

' Units: mg/kg Analyst: NW Prep By: QMT Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit	
Diesel Range Organics (C10-C28)	66.6	57.2	85.9	57	150	
Surr: n-Pentacosane	1.66	1.38	83.3	20	154	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050091-02		
RunID:	HP_Z_080505D-4419191	Units:	mg/kg
Analysis Date:	05/06/2008 9:56	Analyst:	NW
Preparation Date:	05/04/2008 14:27	Prep By:	QMT Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	7.10	66.6	53.6	69.8	66.6	60.5	80.1	12.1	50	21	175
Surr: n-Pentacosane	ND	1.66	1.05	63.4	1.66	1.05	63.2	0.247	30	20	154

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips

COP Wyatt Federal A Tank Battery Remediation

Analysis: Method:						WorkOrder: Lab Batch ID:	08041870 R235948
	Method Blank D: HP_S_080501B-4411499 Units: mg/kg sis Date: 05/01/2008 12:14 Analyst: SFE aration Date: 05/01/2008 12:14 Prep By: Method Analyte Result Gasoline Range Organics ND Surr: 1,4-Difluorobenzene				Samples in Analytic	cal Batch:	
RunID: HP_S	_080501B-4411499	Units:	mg/kg		Lab Sample ID	Client Sar	nple ID
Analysis Date:	05/01/2008 12:14	Analyst:	SFE		08041870-01B	C5-SW-S	
Preparation Dat	e: 05/01/2008 12:14	Prep By:	ľ	/lethod	08041870-02B	C4-SW-S	
					08041870-03B	C5-SW-N	
	A a aluta		Desult	Den Limit	08041870-04B	C4-SW-N	
	,			<u> </u>	08041870-05B	C6-Bot-12	
6					08041870-06B	C7-Bot-10	
					08041870-07B	C8-SW-N	
					08041870-08B	C6-SW-N	
					08041870-09B	C6-SW-S	
					08041870-10B	C8-SW-S	
					08041870-11B	C8-Bot-9'	
					08041870-12B	C7-SW-S	
					08041870-13B	C7-SW-N	
					08041870-14B	C3-SW-3	
					08041870-15B	C4-Bot-14	

	Laboratory Cont	rol Samp	<u>e (LCS)</u>
RunID:	HP_S_080501B-4411498	Units:	mg/kg

Analysis Date:	05/01/2008 11:45	Analyst:	SFE
Preparation Date:	05/01/2008 11:45	Prep By:	Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	1.05	105	70	130
Surr: 1,4-Difluorobenzene	0.100	0.107	107	63	142
Surr: 4-Bromofluorobenzene	0.100	0.0995	99.5	50	159

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08041870-14		
RunID:	HP_S_080501B-4411584	Units:	mg/kg-dry
Analysis Date:	05/01/2008 23:18	Analyst:	SFE
Preparation Date:	05/01/2008 15:26	Prep By:	SFE Method SW5030B

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unre

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt Federal A Tank Battery Remediation

Analysis: Method:	Gasoline Range SW8015B	Organics						WorkOrder: Lab Batch II		41870 35948		
	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit		High Limit
Gasoline Range	Organics	ND	1.06	1.00	94.8	1.06	0.970	91.6	3.38	50	26	147
Surr: 1,4-Diflu	Jorobenzene	ND	0.106	0.109	103	0.106	0.110	104	0.771	30	63	142
Surr: 4-Bromo	ofluorobenzene	ND	0.106	0.106	100	0.106	0.105	98.9	1.11	30	50	159

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

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Conoco Phillips

COP Wyatt Federal A Tank Battery Remediation

Analysis: Method:	Volatile Organics by SW8260B	Method 826	60B			WorkOrder: Lab Batch ID:	08041870 78480
	Meth	nod Blank			Samples in Analy	tical Batch:	
RunID: Q_080	503A-4414321	Units:	ug/kg		Lab Sample ID	Client San	nple ID
Analysis Date:	05/03/2008 11:30	Analyst:	JC		08041870-01B	C5-SW-S	
-					08041870-02B	C4-SW-S	
					08041870-03B	C5-SW-N	
	A		Desite	D	08041870-04B	C4-SW-N	
Da	Analyte			Rep Limit	08041870-05B	C6-Bot-12'	
	nzene nylbenzene		ND ND	5.0 5.0	08041870-06B	C7-Bot-10'	
	luene		ND	5.0	08041870-07B	C8-SW-N	
m,	p-Xylene		ND	5.0	08041870-11B	C8-Bot-9'	
0->	Kylene		ND	5.0			
Xyl	lenes,Total		ND	5.0	08041870-12B	C7-SW-S	
	Surr: 1,2-Dichloroethane-d4		84.0	64-130			
	Surr: 4-Bromofluorobenzene		94.0	62-130			
:	Surr: Toluene-d8		102.0	70-140			

Laboratory Control Sample (LCS)

RunID:	Q_080503A-4414320	Units:	ug/kg
Analysis Date:	05/03/2008 11:03	Analyst:	JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	18.0	90.0	66	142
Ethylbenzene	20.0	20.0	100	35	175
Toluene	20.0	19.0	95.0	59	139
m,p-Xylene	40.0	39.0	97.5	35	175
o-Xylene	20.0	20.0	100	35	175
Xylenes,Total	60	59	98	35	175
Surr: 1,2-Dichloroethane-d4	50.0	41	82.0	64	130
Surr: 4-Bromofluorobenzene	50.0	47	94.0	62	130
Surr: Toluene-d8	50.0	53	106	70	140

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08041870-01			
RunID:	Q_080503A-4414323	Units:	ug/k	g-dry
Analysis Date:	05/03/2008 12:25	Analyst:	JC	
Preparation Date:	05/01/2008 14:14	Prep By:	JC	Method SW5030B

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

 $\mathsf{B/V}$ - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips

COP Wyatt Federal A Tank Battery Remediation

Analysis: Method:	Volatile Organics SW8260B	s by Method 826	0B					WorkOrder: Lab Batch I		41870		
	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene		ND	21.2	19.3	90.9	21.5	18.2	84.5	5.71	21	66	142
Ethylbenzene		ND	21.2	19.3	90.9	21.5	19.3	89.5	0	30	35	175
Toluene		ND	21.2	19.3	90.9	21.5	19.3	89.5	0	21	59	139
m,p-Xylene		ND	42.4	40.6	96.0	43	39.6	91.9	2.67	30	35	175
o-Xylene		ND	21.2	20.3	96.0	21.5	20.3	94.4	0	30	35	175
Xylenes,Total		ND	63.5	60.9	96.0	64.6	59.9	92.8	1.77	30	35	175
Surr: 1,2-Dic	hloroethane-d4	ND	53	46	86.9	53.8	47.1	87.5	2.30	30	64	130
Surr: 4-Brom	ofluorobenzene	ND	53	50.3	94.9	53.8	52.4	97.4	4.17	30	62	130
Surr: Toluene	e-d8	ND	53	54.6	103	53.8	56.7	105	3.85	30	70	140

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt Federal A Tank Battery Remediation

Analysis: Method:	Volatile Organics by SW8260B	Method 826	60B			WorkOrder: Lab Batch ID:	08041870 78520
	Meth	nod Blank			Samples in Analytic	cal Batch:	
RunID: Q_0	080504A-4416099	Units:	ug/kg		Lab Sample ID	Client San	nple ID
Analysis Date	05/04/2008 12:20	Analyst:	JC		08041870-08B	C6-SW-N	
					08041870-09B	C6-SW-S	
					08041870-10B	C8-SW-S	
ſ				<u> </u>	08041870-13B	C7-SW-N	
	Analyte			Rep Limit	08041870-14B	C3-SW-3	
	Benzene		ND	5.0			
	Ethylbenzene		ND	5.0	08041870-15B	C4-Bot-14'	
	Toluene		ND	5.0			
	m,p-Xylene		ND	5.0			
	o-Xylene		ND	5.0			
	Xylenes,Total		ND				
	Surr: 1,2-Dichloroethane-d4		86.0				
	Surr: 4-Bromofluorobenzene		90.0				
	Surr: Toluene-d8		102.0				

Laborator	Control Sample	(LCS)

RunID:	Q_080504A-4416098	Units:	ug/kg
Analysis Date:	05/04/2008 11:21	Analyst:	JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	18.0	90.0	66	142
Ethylbenzene	20.0	19.0	95.0	35	175
Toluene	20.0	20.0	100	59	139
m,p-Xylene	40.0	39.0	97.5	35	175
o-Xylene	20.0	20.0	100	35	175
Xylenes,Total	60	59	98	35	175
Surr: 1,2-Dichloroethane-d4	50.0	42	84.0	64	130
Surr: 4-Bromofluorobenzene	50.0	48	96.0	62	130
Surr: Toluene-d8	50.0	53	106	70	140

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08041870-15			
RunID:	Q_080504A-4416101	Units:	ug/k	g-dry
Analysis Date:	05/04/2008 13:15	Analyst:	JC	
Preparation Date:	05/01/2008 14:50	Prep By:	JC	Method SW5030B

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips

COP Wyatt Federal A Tank Battery Remediation

Analysis: Method:	Volatile Organics SW8260B	by Method 826	0B					WorkOrder: Lab Batch ID)41870 520		
	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene		ND	21.7	19.4	89.1	21.7	19.4	89.1	0	21	66	142
Ethylbenzene		ND	21.7	20.4	94.1	21.7	20.4	94.1	0	30	35	175
Toluene		ND	21.7	20.4	94.1	21.7	20.4	94.1	0	21	59	139
m,p-Xylene		ND	43.5	40.9	94.1	43.5	41.9	96.5	2.60	30	35	175
o-Xylene		ND	21.7	20.4	94.1	21.7	20.4	94.1	0	30	35	175
Xylenes,Total		ND	65.2	61.3	94.0	65.2	62.3	95.7	1.74	30	35	175
Surr: 1,2-Dich	nloroethane-d4	ND	54.3	47.3	87.1	54.3	47.3	87.1	0	30	64	130
Surr: 4-Bromo	ofluorobenzene	ND	54.3	53.8	99.0	54.3	53.8	99.0	0	30	62	130
Surr: Toluene	-d8	ND	54.3	55.9	103	54.3	55.9	103	0	30	70	140

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips

COP Wyatt Federal A Tank Battery Remediation

Method:	SPLP Volatile Organ SW8260B	ics							«Order: Batch ID:	08041870 R236077
	Meth	od Blank				Samp	les in Analy	tical Batcl	n:	
RunID: N_0	80502D-4413368	Units:	ug/L			Lab S	ample ID		Client Sam	ple ID
Analysis Date:	05/02/2008 12:50	Analyst:	LT				870-05A		C6-Bot-12'	
2		,					870-06A		C7-Bot-10'	
							870-11A		C8-Bot-9'	
г					-		870-15A		C4-Bot-14'	
	Analyte		Result	Rep Lim						
	Benzene		ND							
	Ethylbenzene Toluene		ND ND							
	m,p-Xylene		ND							
,	o-Xylene		ND	5.	2					
-	Xylenes,Total		ND							
	Surr: 1,2-Dichloroethane-d4		92.0							
-	Surr: 4-Bromofluorobenzene Surr: Toluene-d8		<u>90.0</u> 96.0							
L			00.0							
	Leach	ate Blank								
RunID:	N_080502D-4413367	Units:	ug/L							
Analysis Date:	05/02/2008 12:24	Analyst:	LT							
Г										
-	Analyte		Result	Rep Lim						
	Benzene		ND	5.	D					
	Benzene Ethylbenzene		ND ND	5. 5.	2					
	Benzene		ND	5. 5. 5.						
	Benzene Ethylbenzene Toluene m.p-Xylene o-Xylene		ND ND ND ND ND	5. 5. 5. 5. 5.	2 2 2 2 2 2					
	Benzene Ethylbenzene Toluene m.p-Xylene o-Xylene Xylenes,Total		ND ND ND ND ND	5. 5. 5. 5. 5.	2 2 2 2 2 2 2 2					
	Benzene Ethylbenzene Toluene m.p-Xylene o-Xylene Xylenes,Total Surr: 1,2-Dichloroethane-d4		ND ND ND ND ND 92.0	5. 5. 5. 5. 5. 62-13						
	Benzene Ethylbenzene Toluene m.p-Xylene o-Xylene Xylenes,Total		ND ND ND ND ND	5. 5. 5. 5. 5. 62-13 70-13	2 2 2 2 2 2 2 2 2 2 2 2 2					
	Benzene Ethylbenzene Toluene m.p-Xylene o-Xylene Xylenes,Total Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene		ND ND ND ND 92.0 90.0 94.0	5. 5. 5. 5. 5. 62-13 70-13 74-12	2 2 2 2 2 2 2 2	Sample (L(<u>CS)</u>			
	Benzene Ethylbenzene Toluene m.p-Xylene o-Xylene Xylenes,Total Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Toluene-d8		ND ND ND ND 92.0 90.0 94.0 La	5. 5. 5. 5. 5. 62-13 70-13 74-12 boratory	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
	Benzene Ethylbenzene Toluene m.p-Xylene o-Xylene Xylenes,Total Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Toluene-d8 RunID:		ND ND ND 92.0 90.0 94.0 La N_080502	5. 5. 5. 5. 5. 62-13 70-13 74-12 boratory	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	nits: u	g/L			
	Benzene Ethylbenzene Toluene m.p-Xylene o-Xylene Xylenes,Total Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Toluene-d8		ND ND ND ND 92.0 90.0 94.0 La	5. 5. 5. 5. 5. 62-13 70-13 74-12 boratory	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		g/L			
	Benzene Ethylbenzene Toluene m.p-Xylene o-Xylene Xylenes,Total Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Toluene-d8 RunID:		ND ND ND 92.0 90.0 94.0 La N_080502	5. 5. 5. 5. 5. 62-13 70-13 74-12 boratory	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	nits: u	g/L			
	Benzene Ethylbenzene Toluene m.p-Xylene o-Xylene Xylenes,Total Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Toluene-d8 RunID:		ND ND ND 92.0 90.0 94.0 La N_080502	5. 5. 5. 5. 5. 62-13 70-13 74-12 boratory	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	nits: u	g/L			
	Benzene Ethylbenzene Toluene m.p-Xylene o-Xylene Xylenes,Total Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Toluene-d8 RunID:	s Date:	ND ND ND 92.0 94.0 La N_080502 05/02/20	5. 5. 5. 5. 5. 62-13 70-13 74-12 boratory	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	nits: uq nalyst: L ⁻	g/L T	Lower	Upper	
	Benzene Ethylbenzene Toluene m.p-Xylene o-Xylene Xylenes,Total Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Toluene-d8 RunID:		ND ND ND 92.0 94.0 La N_080502 05/02/20	5. 5. 5. 5. 5. 62-13 70-13 74-12 boratory	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	nits: u	g/L	Lower Limit	Upper Limit	
	Benzene Ethylbenzene Toluene m.p-Xylene o-Xylene Svglene,Total Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 RunID: Analysi	s Date:	ND ND ND 92.0 94.0 La N_080502 05/02/20	5. 5. 5. 5. 5. 62-13 70-13 74-12 boratory	5 Control S Control S Spike Added	nits: ut nalyst: L ⁻ Result	g/L T Percent Recovery	Limit	Limit	
	Benzene Ethylbenzene Toluene m,p-Xylene o-Xylene Xylenes,Total Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Toluene-d8 RunID: Analysi Benzene	s Date: Analy	ND ND ND 92.0 94.0 La N_080502 05/02/20	5. 5. 5. 5. 5. 62-13 70-13 74-12 boratory	Spike Added 200	hits: ug halyst: L ⁻ Result 19.0	g/L T Percent Recovery 95.0	Limit 76	Limit 126	
	Benzene Ethylbenzene Toluene m,p-Xylene o-Xylenes,Total Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Toluene-d8 RunID: Analysi Benzene Ethylbenz	s Date: Analy	ND ND ND 92.0 94.0 La N_080502 05/02/20	5. 5. 5. 5. 5. 62-13 70-13 74-12 boratory	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nits: ug nalyst: L ⁻ Result <u>19.0</u> 16.0	g/L T Percent Recovery 95.0 80.0	Limit 76 67	Limit 126 122	
	Benzene Ethylbenzene Toluene m.p-Xylene o-Xylenes,Total Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 RunID: Analysi Benzene Ethylbenz Toluene	s Date: Analy ene	ND ND ND 92.0 94.0 La N_080502 05/02/20	5. 5. 5. 5. 5. 62-13 70-13 74-12 boratory	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hits: us halyst: L Result 19.0 16.0 18.0	g/L T Percent Recovery 95.0 80.0 90.0	Limit 76 67 70	Limit 126 122 131	
	Benzene Ethylbenzene Toluene m,p-Xylene o-Xylenes,Total Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Toluene-d8 RunID: Analysi Benzene Ethylbenz	s Date: Analy ene	ND ND ND 92.0 94.0 La N_080502 05/02/20	5. 5. 5. 5. 5. 62-13 70-13 74-12 boratory	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nits: ug nalyst: L ⁻ Result <u>19.0</u> 16.0	g/L T Percent Recovery 95.0 80.0 90.0 85.0	Limit 76 67 70 72	Limit 126 122 131 150	

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

 $\mathsf{B/V}$ - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

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TNTC - Too numerous to count

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips

COP Wyatt Federal A Tank Battery Remediation

Analysis: Method:	SPLP Volatile Organics SW8260B				WorkOrder: Lab Batch ID:	08041870 R236077	
		Laboratory Cor	ntrol Sample	<u>e (LCS)</u>			
	RunID:	N_080502D-4413366	Units:	ug/L			
	Analysis Date:	05/02/2008 10:52	Analyst:	LT			

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Xylenes,Total	60	52	87	72	150
Surr: 1,2-Dichloroethane-d4	50.0	47	94.0	62	130
Surr: 4-Bromofluorobenzene	50.0	51	102	70	130
Surr: Toluene-d8	50.0	48	96.0	74	122

Matrix Spike (MS)

Sample Spiked:	08041857-01		
RunID:	N_080502D-4413370	Units:	ug/L
Analysis Date:	05/02/2008 15:57	Analyst:	LT

Analyte	Sample Result	Spike Added	MS Result	MS % Recovery	Low Limit	High Limit
Benzene	ND	20	21.0	105	76	127
Ethylbenzene	ND	20	17.0	85.0	35	175
Toluene	ND	20	19.0	95.0	70	131
m,p-Xylene	ND	40	36.0	90.0	35	175
o-Xylene	ND	20	19.0	95.0	35	175
Xylenes,Total	ND	60	55	92	35	175
Surr: 1,2-Dichloroethane-d4	ND	50	46	92.0	62	130
Surr: 4-Bromofluorobenzene	ND	50	49	98.0	70	130
Surr: Toluene-d8	ND	50	47	94.0	74	122

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Reco

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips

COP Wyatt Federal A Tank Battery Remediation

Analysis: Method:	PERCENT MOISTURE D2216		WorkOrder: Lab Batch ID:	08041870 R235818A
		Samples in Analytica	l Batch:	
		Lab Sample ID	Client Sar	nple ID
		08041870-06A	C7-Bot-10	
		08041870-07A	C8-SW-N	
		08041870-08A	C6-SW-N	
		08041870-09A	C6-SW-S	
		08041870-10A	C8-SW-S	
		08041870-11A	C8-Bot-9'	
		08041870-12A	C7-SW-S	
		08041870-13A	C7-SW-N	
		08041870-14A	C3-SW-3	
		08041870-15A	C4-Bot-14	

Sample Duplicate

Original Sample:	08041870-09		
RunID:	WET_080501A-4409263	Units:	wt%
Analysis Date:	05/01/2008 10:48	Analyst:	ESK

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	5.35	5.364	0.255	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips

COP Wyatt Federal A Tank Battery Remediation

PERCENT MOISTURE D2216		WorkOrder: Lab Batch ID:	08041870 R235818B
	Samples in Analytica	I Batch:	
	Lab Sample ID	Client Sar	nple ID
	08041870-01A	C5-SW-S	
	08041870-02A	C4-SW-S	
	08041870-03A	C5-SW-N	
	08041870-04A	C4-SW-N	
	08041870-05A	C6-Bot-12	
•		D2216 Samples in Analytica Lab Sample ID 08041870-01A 08041870-02A 08041870-03A 08041870-04A	D2216 Lab Batch ID: Samples in Analytical Batch: Lab Sample ID Client Sam 08041870-01A C5-SW-S 08041870-02A C4-SW-S 08041870-03A C5-SW-N 08041870-04A C4-SW-N

	Sample Duplicate					
Original Sample:	08041900-06					
RunID:	WET_080501A-4409276	Units:	wt%			
Analysis Date:	05/01/2008 10:48	Analyst:	ESK			

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	19.9	20.06	0.996	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

nk D - Recovery Unreportable due to Dilution * - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

ration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt Federal A Tank Battery Remediation

Analysis: Method:	Ion Chromatography E300.0 MOD	,			WorkOrder: Lab Batch ID:	08041870 R236079D
	Meth	od Blank		Samples in Analytic	cal Batch:	
RunID: IC1_0805	502B-4413418	Units:	mg/kg	Lab Sample ID	Client Sa	nple ID
Analysis Date:	05/02/2008 21:53	Analyst:	A_E	08041870-01A	C5-SW-S	
				08041870-02A	C4-SW-S	
				08041870-03A	C5-SW-N	
	Analita		Desult Des Limit	08041870-04A	C4-SW-N	
Chlor	Analyte		Result Rep Limit	08041870-05A	C6-Bot-12	1
Chio	nde		ND 5.0	08041870-06A	C7-Bot-10	1
				08041870-07A	C8-SW-N	
				08041870-08A	C6-SW-N	
				08041870-09A	C6-SW-S	

Laboratory Control Sample (LCS)

RunID:	IC1_080502B-4413419	Units:	mg/kg
Analysis Date:	05/02/2008 22:09	Analyst:	A_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	100.0	92.69	92.69	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08041870-01		
RunID:	IC1_080502B-4413421	Units:	mg/kg-dry
Analysis Date:	05/02/2008 22:42	Analyst:	A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	199.2	427.9	590.6	91.48	427.9	587.3	90.71	0.5648	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

eeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

Quality Control Report

Analysis: Method:	Ion Chromatography E300.0 MOD	y			WorkOrder: Lab Batch ID:	08041870 R236132
	Meth	hod Blank		Samples in Analytic	al Batch:	
RunID: IC1_080	503A-4414202	Units:	mg/kg	Lab Sample ID	Client Sa	<u>mple ID</u>
Analysis Date:	05/03/2008 15:28	Analyst:	A_E	08041870-10A	C8-SW-S	
				08041870-11A	C8-Bot-9'	
				08041870-12A	C7-SW-S	
	Analita		Deput Dep Limit	08041870-13A	C7-SW-N	
Chlo	Analyte		Result Rep Limit	08041870-14A	C3-SW-3	
Chic	inde		ND 5.0	08041870-15A	C4-Bot-14	1

Laboratory Control Sample (LCS)

RunID:	IC1_080503A-4414203
Analysis Date:	05/03/2008 15:45

3

Units: mg/kg Analyst: A_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	100.0	91.05	91.05	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08041870-11		
RunID:	IC1_080503A-4414208	Units:	mg/kg-dry
Analysis Date:	05/03/2008 17:07	Analyst:	ΑE

	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Ch	loride	89.63	104.7	185.0	91.11	104.7	185.5	91.55	0.2487	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

08041870 Page 37

5/9/2008 7:40:41 PM

Quality Control Report

Conoco Phillips

COP Wyatt Federal A Tank Battery Remediation

Analysis: Method:	Ion Chromatography SW9056	- SPLP				WorkOrder: Lab Batch ID:	08041870 R236361
	Meth	od Blank		Sa	mples in Analyt	ical Batch:	
RunID: IC1_080	505A-4418335	Units:	mg/L	La	b Sample ID	Client Sam	nple ID
Analysis Date:	05/05/2008 16:20	Analyst:	A_E		041870-05A	C6-Bot-12'	
				08	041870-06A	C7-Bot-10'	
				08	041870-11A	C8-Bot-9'	
	Analyte		Result Rep Limit	08	041870-15A	C4-Bot-14'	
Chlo			ND 0.50				
RunID:	<u>Leach</u> IC1_080505A-4418336	ate Blank Units:	mg/L				
Analysis Date:	05/05/2008 16:36	Analyst:	A_E				
Leach Date:	05/01/2008 0:00	Leach By	y: GF Method SW13	12			
	Analyte		Result Rep Limit				
Chlo	ride		ND 0.50				
			Laboratory Con	trol Sample	<u>(LCS)</u>		
	RunID:		IC1_080505A-4418337	Units:	mg/L		
	Analysis	Date:	05/05/2008 16:53	Analyst:	A_E		

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	10.00	9.096	90.96	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08041870-05		
RunID:	IC1_080505A-4418341	Units:	mg/L
Analysis Date:	05/05/2008 17:59	Analyst:	A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	3.229	10	12.76	95.28	10	12.76	95.36	0.06269	20	80	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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5/9/2008 7:40:41 PM

Sample Receipt Checklist And Chain of Custody

08041870 Page 39 5/9/2008 7:40:42 PM



HOUSTON LABORATORY

8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Sample Receipt Checklist

Dat	rkorder: e and Time Received: nperature:	08041870 4/30/2008 10:00:00 AM 4.0°C			Received E Carrier nar Chilled by:	ne:	RE Fedex-Standa Water Ice	rd Overnight
1.	Shipping container/co	oler in good condition?	Yes		No 🗌		Not Present	
2.	Custody seals intact o	on shippping container/cooler?	Yes		No 🗌		Not Present	
3.	Custody seals intact o	on sample bottles?	Yes		No 🗌		Not Present	
4.	Chain of custody pres	ent?	Yes	\checkmark	No 🗌			
5.	Chain of custody sign	ed when relinquished and received?	Yes		No 🗌			
6.	Chain of custody agre	es with sample labels?	Yes		No 🗌			
7.	Samples in proper cor	ntainer/bottle?	Yes		No 🗌			
8.	Sample containers inta	act?	Yes		No 🗌			
9.	Sufficient sample volu	me for indicated test?	Yes	\checkmark	No 🗌			
10.	All samples received v	within holding time?	Yes		No 🗌			
11.	Container/Temp Blank	temperature in compliance?	Yes		No 🗌			
12.	Water - VOA vials have	e zero headspace?	Yes		No 🗌	VOA Via	als Not Present	
13.	Water - Preservation c	checked upon receipt (except VOA*)?	Yes		No 🗌		Not Applicable	
	*VOA Preservation Ch	ecked After Sample Analysis						
	SPL Representativ Client Name Contacte		Cont	act Date & T	ime:			
	Non Conformance Issues:							
	Client Instructions:							

	e	Analysis Kenneet	k ennest \mathcal{X}	Chain a	Constraints	<i>;</i>	,					
			w manha		I CUUSTON	a chain of custody Record	q			/ X. /		-
Client Name: / ctra Teach				matrix bottle	bottle	size m	nrpc	7				page 1 of
-	Industrial d.	4	 	lic			_	7	Ke	Kequested Analysis	Analys	S
Phone/Fax: 432 646 8081		432 691 4045	:)=() T	Sthe glas	Jəy: RIA=		()~				
Client Contact: Charles Durrett Kinisicharles Jurretto	vett Email:	therter dur	t,	- 19			.1	pe				
Project Name/No.: 1158646010	<u>و</u>	tet	66 . 10 . 1	<u> </u>	le I	X 2	əqıc	9				
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N-M-10	12368	15:41	×			<u>├</u>				-	+	_
C6-Bot-12	H/2-8/08	11:05	×			 				-		
27-Bot-10'	4/2-5/08	82:21	×		 	 					×	×
C8-5W-N	1/28/08	15:08	×. 		 				╾┿╴		×	×
26-5W-N	1/28/14	57:01	< >							-+ + -+	_	
-6-54-5	1/28/08	اہ : ح								+-	- -	+
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Client Name:				matrix bottle	ottle size	te pres.	Ś			3 5	acto
Address: Phone/day.				lio=(lass	rial Vial		. <u> </u>				3
Client Contact:	Hansil-				=0t 0=x	ר ב נוסבי					
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28-Bot-9'	1/28/05	15:21						> :	<u>× </u>	4	-
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Client/Consultant Remarks:				Laboratory remarks:	narks:				_		
Requested TAT	Special Keperi	opecial Reporting Requirements Results:	ents Result	ts: Pax J		P.J.O.A	Special I	betection I	Special Detection Limits (specify):	city):	
Contract	Standard QC	Standard QC Level 3 QC Level 4 QC	J Level 4 QC	-						•	
24hr 🛄 Standard 🛄	1. Relinquíshed by Sampler:	d by Sampler: /	1	1ºH			time		2. Received by:		
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Requested Analysis

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1 459 Hughes Drive Traverse City, MI 49686 (231) 947-5777

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500 Ambassador Caffery Parkway Scott, LA 70583 (337) 237-4775

Description Description D

Jntact? Ice? Temp:

PM review (initial):

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Conoco Phillips

Certificate of A	nalysis Number:	
<u>080</u>	<u>50489</u>	
Report To:	Project Name:	COP Wyatt A
Tetra Tech	Site:	Maljamar, NM
Charlie Durrett	Site Address:	
1703 W Industrial Avenue		
Midland	PO Number:	WA5.CNM.0100
TX	State:	New Mexico
79701-	State Cert. No .:	
ph: (432) 686-8081 fax:	Date Reported:	5/14/08

This Report Contains A Total Of 85 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

Date



Case Narrative for: Conoco Phillips

Certificate of Analysis Number:

<u>08050489</u>

Report To:	Project Name: COP Wyatt A
Tetra Tech	<u>Site:</u> Maljamar, NM
Charlie Durrett	Site Address:
1703 W Industrial Avenue	
Midland TX 79701-	PO Number: WA5.CNM.0100 <u>State:</u> New Mexico <u>State Cert. No.:</u>
ph: (432) 686-8081 fax:	Date Reported: 5/14/08

At the time of sample receipt, it was noted that no analyses were selected for chain of custody 278379. Per our conversation on May 13, 2008, SPL revised the chain of custody per your instructions. Also per your instructions, the site location "Maljamar, NM" was used.

Two sets of trip blanks were received with the samples but were not listed on the chain of custody. Per our conversation on May 13, 2008 SPL, Inc. did not analyze the trip blanks.

Per the Conoco Phillips TSM Revision 0, a copy of the internal chain of custody is to be included in final data package. However, due to LIMS limitations, this cannot be provided at this time.

Results for soils are reported on a dry-weight basis.

The samples submitted for Volatilke Organics by SW846 Method 8260B and Gasoline Range Organics by SW846 Method 8015B analyses were received in a vessel that is not stipulated in Method 5035A; the samples were not preserved and/or analyzed within 48 hours of sample collection.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Your sample ID "C17-Bot-6" (SPL ID:08050489-28) was randomly selected for use in SPL's quality control program for the Ion Chromatography SPLP analysis by SW846 Method SW8056. The Matrix Spike Duplicate (MSD) recoveries were outside of the advisable quality control limits for Chloride (Batch ID:R237442) due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

08050489 Page 1 5/14/08

Date

Bethany A. Agarwal Senior Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.

Released to Imaging: 1/26/2022 11:49:49 AM

Received by OCD: 2/12/2021 2:59:55 PM





HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips

		Certific	ate of Analysis Nur	nber:	
			<u>08050489</u>		
Report To:	Tetra Tech			Project Name:	COP Wyatt A
	Charlie Durrett			Site:	Maljamar, NM
	1703 W Industrial Avenu	Ie		Site Address:	
	Midland				
	тх			PO Number:	WA5.CNM.0100
	79701-			State:	New Mexico
	ph: (432) 686-8081	fax: (432) 686-8085		State Cert. No .:	
Fax To:				Date Reported:	5/14/08

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
C14-SW-S	08050489-01	Soil	5/1/08 10:43:00 AM	5/7/08 10:00:00 AM	278377	
C2-SW-N	08050489-02	Soil	4/30/08 7:17:00 AM	5/7/08 10:00:00 AM	278377	
C3-SW-N	08050489-03	Soil	4/30/08 7:26:00 AM	5/7/08 10:00:00 AM	278377	
C13-SW-S	08050489-04	Soil	4/30/08 11:00:00 AM	5/7/08 10:00:00 AM	278377	
C5-Bot-14'	08050489-05	Soil	4/30/08 9:12:00 AM	5/7/08 10:00:00 AM	278377	
C11-SW-N	08050489-06	Soil	4/29/08 3:11:00 PM	5/7/08 10:00:00 AM	278377	
C12-SW-N	08050489-07	Soil	4/29/08 3:59:00 PM	5/7/08 10:00:00 AM	278377	
C12-SW-S	08050489-08	Soil	4/29/08 4:04:00 PM	5/7/08 10:00:00 AM	278377	
C12-Bot-9'	08050489-09	Soil	4/29/08 4:13:00 PM	5/7/08 10:00:00 AM	278377	
C10-SW-N	08050489-10	Soil	4/29/08 2:11:00 PM	5/7/08 10:00:00 AM	278377	
C19-SW-N	08050489-11	Soil	5/2/08 1:22:00 PM	5/7/08 10:00:00 AM	278376	
C18-Bot-6'	08050489-12	Soil	5/2/08 12:51:00 PM	5/7/08 10:00:00 AM	278376	
C17-SW-S	08050489-13	Soil	5/2/08 10:37:00 AM	5/7/08 10:00:00 AM	278376	
C14-Bot-8'	08050489-14	Soil	5/1/08 10:43:00 AM	5/7/08 10:00:00 AM	278376	
C15-SW-N	08050489-15	Soil	5/1/08 11:07:00 AM	5/7/08 10:00:00 AM	278376	
C13-SW-N	08050489-16	Soil	4/30/08 11:33:00 AM	5/7/08 10:00:00 AM	278376	
C14-SW-N	08050489-17	Soil	5/1/08 9:50:00 AM	5/7/08 10:00:00 AM	278376	
C15-SW-S	08050489-18	Soil	5/1/08 11:11:00 AM	5/7/08 10:00:00 AM	278376	
C13-Bot-12'	08050489-19	Soil	5/1/08 10:01:00 AM	5/7/08 10:00:00 AM	278376	
C15-Bot-8'	08050489-20	Soil	5/1/08 11:17:00 AM	5/7/08 10:00:00 AM	278376	
C19-SW-W	08050489-21	Soil	5/2/08 1:56:00 PM	5/7/08 10:00:00 AM	278375	
C17-SW-N	08050489-22	Soil	5/2/08 10:31:00 AM	5/7/08 10:00:00 AM	278375	
C16-Bot-8'	08050489-23	Soil	5/2/08 9:51:00 AM	5/7/08 10:00:00 AM	278375	
C16-SW-S	08050489-24	Soil	5/2/08 9:24:00 AM	5/7/08 10:00:00 AM	278375	

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Bethany A. Agarwal Senior Project Manager

5/14/08 Date

Richard R. Reed Laboratory Director

Ted Yen Quality Assurance Officer

Received by OCD: 2/12/2021 2:59:55 PM



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips

		Certifi	cate of Analysis Nur	nber:	
			<u>08050489</u>		
Report To:	Tetra Tech			Project Name:	COP Wyatt A
	Charlie Durrett			Site:	Maljamar, NM
	1703 W Industrial Avenu	e		Site Address:	
	Midland				
	тх			PO Number:	WA5.CNM.0100
	79701-			State:	New Mexico
	ph: (432) 686-8081	fax: (432) 686-8085		State Cert. No .:	
<u>Fax To:</u>				Date Reported:	5/14/08

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
C16-SW-N	08050489-25	Soil	5/2/08 9:15:00 AM	5/7/08 10:00:00 AM	278375	
C18-SW-S	08050489-26	Soil	5/2/08 12:42:00 PM	5/7/08 10:00:00 AM	278375	
C18-SW-N	08050489-27	Soil	5/2/08 12:35:00 PM	5/7/08 10:00:00 AM	278375	
C17-Bot-6'	08050489-28	Soil	5/2/08 10:42:00 AM	5/7/08 10:00:00 AM	278375	
C19-Bot-5'	08050489-29	Soil	5/2/08 1:41:00 PM	5/7/08 10:00:00 AM	278375	
C19-SW-5	08050489-30	Soil	5/2/08 1:33:00 PM	5/7/08 10:00:00 AM	278375	
C11-Bot-9'	08050489-31	Soil	4/29/08 3:28:00 PM	5/7/08 10:00:00 AM	278376	
C11-Bot-9'	08050489-31	Soil	4/29/08 3:28:00 PM	5/7/08 10:00:00 AM	278379	
C10-Bot-8'	08050489-32	Soil	4/29/08 2:20:00 PM	5/7/08 10:00:00 AM	278376	
C10-Bot-8'	08050489-32	Soil	4/29/08 2:20:00 PM	5/7/08 10:00:00 AM	278379	
C11-SW-S	08050489-33	Soil	4/29/08 3:23:00 PM	5/7/08 10:00:00 AM	278379	
C9-SW-S	08050489-34	Soil	4/29/08 1:00:00 PM	5/7/08 10:00:00 AM	278379	
C9-SW-N	08050489-35	Soil	4/29/08 1:09:00 PM	5/7/08 10:00:00 AM	278379	
C9-Bot-8'	08050489-36	Soil	4/29/08 1:13:00 PM	5/7/08 10:00:00 AM	278376	
C9-Bot-8'	08050489-36	Soil	4/29/08 1:13:00 PM	5/7/08 10:00:00 AM	278379	
C10-SW-S	08050489-37	Soil	4/29/08 2:01:00 PM	5/7/08 10:00:00 AM	278379	
Trip Blank #1	08050489-38	Water	5/1/08	5/7/08 10:00:00 AM		\checkmark
Trip Blank #2	08050489-39	Water	5/1/08	5/7/08 10:00:00 AM		\checkmark

-l Bethay Aga

Bethany A. Agarwal Senior Project Manager

Richard R. Reed Laboratory Director

Ted Yen Quality Assurance Officer

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5/14/08 Date

Released to Imaging: 1/26/2022 11:49:49 AM



HOUSTON, TX 77054

(713) 660-0901

Collected: 05/01/2008 10:43 08050489-01 Client Sample ID: C14-SW-S SPL Sample ID: Site: Maljamar, NM Result QUAL Analyses/Method Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND Diesel Range Organics (C10-C28) 1 05/11/08 1:27 NW 4433527 6.2 Surr: n-Pentacosane 112 1 05/11/08 1:27 4433527 % 20-154 NW Prep Method Prep Date Prep Initials Prep Factor 05/09/2008 11:23 QMT SW3550B 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/09/08 6:04 SFE Gasoline Range Organics 0.12 1 4428517 Surr: 1,4-Difluorobenzene 63-142 4428517 97.7 % 1 05/09/08 6:04 SFE 50-159 4428517 Surr: 4-Bromofluorobenzene 103 % 1 05/09/08 6:04 SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 12:46 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride ND 6.22 05/09/08 22:17 A_E 4428748 1 PERCENT MOISTURE MCL D2216 Units: wt% Percent Moisture 19.6 0 1 05/08/08 13:22 ESK 4424915 **VOLATILE ORGANICS BY METHOD 8260B** MCL SW8260B Units: ug/kg-dry Benzene ND 6.2 1 05/09/08 9:50 JC 4429005 Ethylbenzene ND 6.2 05/09/08 9:50 JC 4429005 1 Toluene 4429005 ND 6.2 1 05/09/08 9:50 JC m,p-Xylene ND 6.2 1 05/09/08 9:50 JC 4429005 o-Xylene ND 6.2 1 05/09/08 9:50 JC 4429005 Xylenes,Total ND 6.2 1 05/09/08 9:50 JC 4429005 Surr: 1,2-Dichloroethane-d4 % 64-130 1 JC 4429005 86.3 05/09/08 9:50 Surr: 4-Bromofluorobenzene 94.4 % 62-130 1 05/09/08 9:50 JC 4429005 Surr: Toluene-d8 70-140 05/09/08 9:50 4429005 102 % 1 JC

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:10	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C2-S	W-N			Col	lecte	ed: 04	/30/2008	3 7:17	SPL Sar	nple II	D: 0805	50489-02
				Sit	e:	Malja	ımar, NN	Λ				
Analyses/Method	Res	ult	QUAL	Re	ep.Li	mit	D	il. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS						MCL	S	W8015B	Un	its: mg/kg	g-dry
Diesel Range Organics (C	10-C28) N	ID				5.6		1	05/11/0	8 1:49	NW	4433528
Surr: n-Pentacosane	72	.7		%	20-	154		1	05/11/0	8 1:49	NW	4433528
Prep Method	Prep Date		Prep Initials	Prep	Fac	or						
	05/09/2008 11:23		QMT	1.00								
GASOLINE RANGE OR	GANICS						MCL	S	W8015B	Un	its: mg/k	g-dry
Gasoline Range Organics	N	ID			C	.11		1	05/09/0	8 7:29	SFE	4428520
Surr: 1,4-Difluorobenzer	ne 97	.1		%	63-	142		1	05/09/0	8 7:29	SFE	4428520
Surr: 4-Bromofluoroben:	zene 10)2		%	50-	159		1	05/09/0	8 7:29	SFE	4428520
Prep Method	Prep Date		Prep Initials	Prep	Fac	or						
	05/08/2008 12:50		SFE	1.00								
ION CHROMATOGRAP	НҮ						MCL	E300	0.0 MOD	Un	its: mg/k	g-dry
Chloride	92	.6			1	1.2		2	05/09/08			4428749
PERCENT MOISTURE							MCL		D2216	Un	its: wt%	
Percent Moisture	10	.4				0		1	05/08/08	13:22	ESK	4424914
VOLATILE ORGANICS	BY METHOD 8260)B					MCL	S	W8260B	Un	its: ug/kg	-dry
Benzene	N	ID				5.6		1	05/09/08	13:57	JC	4429008
Ethylbenzene	N	ID				5.6		1	05/09/08	13:57	JC	4429008
Toluene	N	ID				5.6		1	05/09/08	13:57	JC	4429008
m,p-Xylene	N	ID				5.6		1	05/09/08	13:57	JC	4429008
o-Xylene	N	ID				5.6		1	05/09/08	13:57	JC	4429008
Xylenes,Total	N	ID				5.6		1	05/09/08	13:57	JC	4429008
Surr: 1,2-Dichloroethane	e-d4 89	.1		%	64-	130		1	05/09/08	13:57	JC	4429008
Surr: 4-Bromofluoroben:	zene 91	.1		%	62-	130		1	05/09/08	13:57	JC	4429008
Surr: Toluene-d8)5		%	70-			1	05/09/08		JC	4429008

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:16	JC	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C3	-SW-N			Col	lected:	04/30/200	8 7:26	SPL San	nple II	D: 0805	0489-03
				Sit	e: Ma	iljamar, NI	M				
Analyses/Method		Result	QUAL	R	ep.Limit	[Dil. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORG	SANICS					MCL	SV	V8015B	Un	its: mg/kg	g-dry
Diesel Range Organics	(C10-C28)	ND			5.2		1	05/11/08	3 2:12	NW	4433529
Surr: n-Pentacosane		92.4		%	20-154		1	05/11/08	3 2:12	NW	4433529
Prep Method	Prep Date		Prep Initials	Prer	Factor						
SW3550B	05/09/2008 11	:23	QMT	1.00							
GASOLINE RANGE	ORGANICS					MCL	SV	V8015B	Un	its: mg/kg	g-dry
Gasoline Range Organi	cs	ND			0.1		1	05/09/08		SFE	4428521
Surr: 1,4-Difluoroben	izene	95.7		%	63-142		1	05/09/08	3 7:57	SFE	4428521
Surr: 4-Bromofluorob	enzene	102		%	50-159		1	05/09/08	3 7:57	SFE	4428521
Prep Method	Prep Date		Prep Initials	Prer	Factor						
SW5030B	05/08/2008 12	:51	SFE	1.00							
ION CHROMATOGRA	APHY					MCL	E300	.0 MOD	Un	its: mg/kg	a-drv
Chloride		145			10.5		2	05/09/08			4428754
PERCENT MOISTUR	E					MCL		D2216	Un	its: wt%	
Percent Moisture		4.38			0		1	05/08/08	13:22	ESK	4424913
VOLATILE ORGANIC	S BY METHO) 8260B				MCL	SV	V8260B	Un	its: ug/kg	-dry
Benzene		ND			5.3		1	05/09/08		JC	4429009
Ethylbenzene		ND			5.3		1	05/09/08	14:24	JC	4429009
Toluene		ND			5.3		1	05/09/08	14:24	JC	4429009
m,p-Xylene		ND			5.3		1	05/09/08	14:24	JC	4429009
o-Xylene		ND			5.3		1	05/09/08	14:24	JC	4429009
Xylenes,Total		ND			5.3		1	05/09/08	14:24	JC	4429009
Surr: 1,2-Dichloroeth	ane-d4	87.5		%	64-130		1	05/09/08	14:24	JC	4429009
Surr: 4-Bromofluorob	enzene	89.5		%	62-130		1	05/09/08	14:24	JC	4429009
Surr: Toluene-d8		101		%	70-140		1	05/09/08	14:24	JC	4429009
Dreve Mathard	Dran Data		Dren Initiale								

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:18	JC	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C13-SW-S Collected: 04/30/2008 11:00 08050489-04 SPL Sample ID: Site: Maljamar, NM Result QUAL Rep.Limit Dil. Factor Analyst Analyses/Method Date Analyzed Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry Diesel Range Organics (C10-C28) 9.2 1 05/11/08 2:34 NW 4433530 5.1 Surr: n-Pentacosane 109 20-154 1 05/11/08 2:34 NW 4433530 % Prep Method Prep Date Prep Initials Prep Factor SW3550B 05/09/2008 11:23 QMT 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/09/08 8:25 SFE 4428522 Gasoline Range Organics 0.1 1 4428522 Surr: 1,4-Difluorobenzene 94.4 % 63-142 1 05/09/08 8:25 SFE 50-159 1 05/09/08 8:25 SFE 4428522 Surr: 4-Bromofluorobenzene 103 % Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 12:52 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride 115 10.3 2 05/10/08 0:12 A_E 4428755 PERCENT MOISTURE MCL D2216 Units: wt% Percent Moisture 2.67 0 1 05/08/08 13:22 ESK 4424912 VOLATILE ORGANICS BY METHOD 8260B MCI SW8260B Units: ua/ka-drv

			ONOLOOD	onits. ug	nguny
Benzene	ND	5.1	05/09/08	14:52 JC	4429010
Ethylbenzene	ND	5.1	05/09/08	14:52 JC	4429010
Toluene	ND	5.1	05/09/08	14:52 JC	4429010
m,p-Xylene	ND	5.1	05/09/08	14:52 JC	4429010
o-Xylene	ND	5.1	05/09/08	14:52 JC	4429010
Xylenes,Total	ND	5.1	05/09/08	14:52 JC	4429010
Surr: 1,2-Dichloroethane-d4	94.2	% 64-130	05/09/08	14:52 JC	4429010
Surr: 4-Bromofluorobenzene	90.2	% 62-130	05/09/08	14:52 JC	4429010
Surr: Toluene-d8	102	% 70-140	05/09/08	14:52 JC	4429010

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:20	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C5	5-Bot-14'			Col	lected:	04/30/2008 9	9:12	SPL Sam	ple II	D: 080	50489-05
				Sit	e: M	aljamar, NM					
Analyses/Method		Result	QUAL	Re	ep.Limit	Dil.	Fact	or Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE OR	GANICS					MCL	;	SW8015B	Un	its: mg/k	g-dry
Diesel Range Organics	s (C10-C28)	5.9			5.2		1	05/11/08	2:57	NW	4433531
Surr: n-Pentacosane)	78.0		%	20-154		1	05/11/08	2:57	NW	4433531
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3550B	05/09/2008 1	1:23	QMT	1.00							
GASOLINE RANGE	ORGANICS					MCL		SW8015B	Un	its: mg/k	g-dry
Gasoline Range Organ	ics	ND			0.1		1	05/09/08			4428523
Surr: 1,4-Difluorober	nzene	97.4		%	63-142		1	05/09/08	8:54	SFE	4428523
Surr: 4-Bromofluoro	oenzene	105		%	50-159		1	05/09/08	8:54	SFE	4428523
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	05/08/2008 12	2:52	SFE	1.00							
ION CHROMATOGR	APHY					MCL	E3	00.0 MOD	Un	its: mg/k	q-dry
Chloride		121			10.3		2	05/10/08			4428756
ION CHROMATOGR	APHY - SPLP					MCL		SW9056	Un	its: mg/L	
Chloride		7.18			0.5		1	05/13/08	1:31	A_E	4433890
						Leach Method		Leachate Date	•	Leach	Initials
						SW1312		05/09/2008	•	GF	
PERCENT MOISTUR	E					MCL		D2216	Un	its: wt%	
Percent Moisture		3.17			0		1	05/08/08 ′	13:22	ESK	4424911
SPLP VOLATILE OR	GANICS					MCL	:	SW8260B	Un	its: ug/L	
Benzene		ND			5		1	05/10/08	16:29	LT	4429937
Ethylbenzene		ND			5		1	05/10/08	16:29	LT	4429937
Toluene		ND			5		1	05/10/08	16:29	LT	4429937
m,p-Xylene		ND			5		1	05/10/08	16:29	LT	4429937
o-Xylene		ND			5		1	05/10/08 [·]	16:29	LT	4429937
Xylenes,Total		ND			5		1	05/10/08	16:29	LT	4429937
Surr: 1,2-Dichloroeth	nane-d4	102		%	62-130		1	05/10/08	16:29	LT	4429937
Surr: 4-Bromofluoro	penzene	90.0		%	70-130		1	05/10/08	16:29	LT	4429937
Surr: Toluene-d8		94.0		%	74-122		1	05/10/08	16:29	LT	4429937
						Leach Method		Leachate Date	•	Leach	Initials
						CW4040		05/00/0000	•	05	

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C5-Bot-14'			Colle	Collected: 04/30/2008 9:12			nple II): 0805	08050489-05	
			Site	: Malj	amar, NM					
Analyses/Method	Result	QUAL	Re	p.Limit	Dil. Factor	Date Ana	lyzed	Analyst	Seq. #	
VOLATILE ORGANICS BY METH	IOD 8260B				MCL S	V8260B	Un	its: ug/kg	-dry	
Benzene	ND			5.2	1	05/09/08	15:20	JC	4429011	
Ethylbenzene	ND			5.2	1	05/09/08	15:20	JC	4429011	
Toluene	ND			5.2	1	05/09/08	15:20	JC	4429011	
m,p-Xylene	ND			5.2	1	05/09/08	15:20	JC	4429011	
o-Xylene	ND			5.2	1	05/09/08	15:20	JC	4429011	
Xylenes,Total	ND			5.2	1	05/09/08	15:20	JC	4429011	
Surr: 1,2-Dichloroethane-d4	94.2		%	64-130	1	05/09/08	15:20	JC	4429011	
Surr: 4-Bromofluorobenzene	94.2		%	62-130	1	05/09/08	15:20	JC	4429011	
Surr: Toluene-d8	106		%	70-140	1	05/09/08	15:20	JC	4429011	

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:22	JC	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C	11-SW-N			Coll	ected:	04/29/2008	15:11	SPL Sam	nple II	D: 0805	0489-06
				Sit	e: Ma	ljamar, NM					
Analyses/Method		Result	QUAL	Re	ep.Limit	Dil	. Factor	Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE OR	GANICS					MCL	SV	V8015B	Un	its: mg/kg	g-dry
Diesel Range Organics	s (C10-C28)	ND			5.2		1	05/11/08	3 3:19	NW	4433532
Surr: n-Pentacosane	e	72.9		%	20-154		1	05/11/08	3 3:19	NW	4433532
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3550B	05/09/2008 1	1:23	QMT	1.00							
GASOLINE RANGE	ORGANICS					MCL	SV	V8015B	Un	its: mg/kg	g-dry
Gasoline Range Orgar	nics	ND			0.1		1	05/09/08	3 9:22	SFE	4428524
Surr: 1,4-Difluorobe	nzene	97.1		%	63-142		1	05/09/08	3 9:22	SFE	4428524
Surr: 4-Bromofluoro	benzene	104		%	50-159		1	05/09/08	3 9:22	SFE	4428524
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	05/08/2008 1	2:53	SFE	1.00							
ION CHROMATOGR	APHY					MCL	E300	.0 MOD	Un	its: mg/kg	g-dry
Chloride		144			10.4		2	05/10/08			4428757
PERCENT MOISTUR	RE					MCL		D2216	Un	its: wt%	
Percent Moisture		3.93			0		1	05/08/08	13:22	ESK	4424910
VOLATILE ORGANI	CS BY METHO	D 8260B				MCL	SV	V8260B	Un	its: ug/kg	-dry
Benzene		ND			5.2		1	05/09/08	15:48	JC	4429012
Ethylbenzene		ND			5.2		1	05/09/08	15:48	JC	4429012
Toluene		ND			5.2		1	05/09/08	15:48	JC	4429012
m,p-Xylene		ND			5.2		1	05/09/08	15:48	JC	4429012
o-Xylene		ND			5.2		1	05/09/08	15:48	JC	4429012
Xylenes,Total		ND			5.2		1	05/09/08	15:48	JC	4429012
Surr: 1,2-Dichloroet	hane-d4	84.2		%	64-130		1	05/09/08	15:48	JC	4429012
				0/	00 400		1	05/09/08	15.48	JC	4429012
Surr: 4-Bromofluoro	benzene	94.2		%	62-130		I	03/03/00	10.40	50	4423012

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:24	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C12-	SW-N			Col	lected:	04/29/2008	8 15:59	SPL San	nple II	D: 0805	08050489-07	
				Sit	e: Ma	aljamar, NN	N					
Analyses/Method		Result	QUAL	R	ep.Limit	C	Dil. Factor	Date Ana	lyzed	Analyst	Seq. #	
DIESEL RANGE ORGA	NICS					MCL	SV	V8015B	Un	its: mg/k	g-dry	
Diesel Range Organics (C	C10-C28)	ND			5.2		1	05/11/08	8 3:42	NW	4433533	
Surr: n-Pentacosane		45.8		%	20-154		1	05/11/08	8 3:42	NW	4433533	
Prep Method	Prep Date		Prep Initials	Prep	Factor							
SW3550B	05/09/2008 11:2	3	QMT	1.00								
GASOLINE RANGE OF	RGANICS					MCL	SV	V8015B	Un	its: mg/k	g-dry	
Gasoline Range Organics	5	ND			0.1		1	05/09/08	10:47	SFE	4428527	
Surr: 1,4-Difluorobenze	ene	98.0		%	63-142		1	05/09/08	10:47	SFE	4428527	
Surr: 4-Bromofluorober	nzene	102		%	50-159		1	05/09/08	10:47	SFE	4428527	
Prep Method	Prep Date		Prep Initials	Prep	Factor							
SW5030B	05/08/2008 12:5	4	SFE	1.00								
ION CHROMATOGRAF	РНΥ					MCL	E300	.0 MOD	Un	its: mg/k	g-dry	
Chloride		125			10.4		2	05/10/08	8 1:01	A_E	4428758	
PERCENT MOISTURE						MCL		D2216	Un	its: wt%		
Percent Moisture		4.08			0		1	05/08/08	13:22	ESK	4424909	
VOLATILE ORGANICS	BY METHOD	8260B				MCL	SV	V8260B	Un	its: ug/kg	J-dry	
Benzene		ND			5.2		1	05/10/08	8 1:12	JC	4429746	
Ethylbenzene		ND			5.2		1	05/10/08	8 1:12	JC	4429746	
Toluene		ND			5.2		1	05/10/08	8 1:12	JC	4429746	
m,p-Xylene		ND			5.2		1	05/10/08	8 1:12	JC	4429746	
o-Xylene		ND			5.2		1	05/10/08	8 1:12	JC	4429746	
Xylenes,Total		ND			5.2		1	05/10/08	8 1:12	JC	4429746	
Surr: 1,2-Dichloroethan	ne-d4	86.0		%	64-130		1	05/10/08	8 1:12	JC	4429746	
Surr: 4-Bromofluorober	nzene	94.0		%	62-130		1	05/10/08	8 1:12	JC	4429746	
Surr: Toluene-d8		100		%	70-140		1	05/10/08		JC	4429746	

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:26	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C1	2-SW-S			Col	lected: ()4/29/2008	16:04	SPL Sam	ple ID): 0805	0489-08
				Sit	e: Mal	ljamar, NM	I				
Analyses/Method		Result	QUAL	R	ep.Limit	Di	I. Factor	Date Analy	/zed	Analyst	Seq. #
DIESEL RANGE ORG	SANICS					MCL	SV	N8015B	Uni	its: mg/kg	g-dry
Diesel Range Organics	(C10-C28)	ND			5.2		1	05/12/08	4:55	NW	4434362
Surr: n-Pentacosane		94.2		%	20-154		1	05/12/08	4:55	NW	4434362
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3550B	05/10/2008 1	6:38	QMT	1.00							
GASOLINE RANGE	ORGANICS					MCL	SV	W8015B	Uni	ts: mg/kg	g-dry
Gasoline Range Organi	cs	ND			0.1		1	05/09/08 2	1:15	SFE	4428528
Surr: 1,4-Difluoroben	izene	97.1		%	63-142		1	05/09/08 1	1:15	SFE	4428528
Surr: 4-Bromofluorob	enzene	103		%	50-159		1	05/09/08	1:15	SFE	4428528
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	05/08/2008 1	2:55	SFE	1.00							
ION CHROMATOGRA	APHY					MCL	E300	.0 MOD	Uni	ts: mg/kg	g-dry
Chloride		205			20.9		4	05/10/08	1:18	A_E	4428759
PERCENT MOISTUR	E					MCL		D2216	Uni	ts: wt%	
Percent Moisture		4.29			0		1	05/08/08 2	3:22	ESK	4424908
VOLATILE ORGANIC	S BY METHO	DD 8260B				MCL	SV	N8260B	Uni	its: ug/kg	-dry
Benzene		ND			5.2		1	05/10/08	1:40	JC	4429747
Ethylbenzene		ND			5.2		1	05/10/08	1:40	JC	4429747
Toluene		ND			5.2		1	05/10/08	1:40	JC	4429747
m,p-Xylene		ND			5.2		1	05/10/08	1:40	JC	4429747
o-Xylene		ND			5.2		1	05/10/08	1:40	JC	4429747
Xylenes,Total		ND			5.2		1	05/10/08	1:40	JC	4429747
Surr: 1,2-Dichloroeth	ane-d4	86.2		%	64-130		1	05/10/08	1:40	JC	4429747
Surr: 4-Bromofluorob	enzene	96.2		%	62-130		1	05/10/08	1:40	JC	4429747
Surr: Toluene-d8		96.2		%	70-140		1	05/10/08	1:40	JC	4429747

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:28	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C12-B	ot-9'		Colle	ected:	04/29/2008	3 16:13	SPL Sam	nple I	D: 0805	0489-09
			Site	e: Ma	aljamar, NN	Λ				
Analyses/Method	Result	QUAL	Re	p.Limit	D	il. Factor	Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGAN	lics				MCL	SI	N8015B	Ur	its: mg/kg	g-dry
Diesel Range Organics (C1	0-C28) 16			5.2		1	05/12/08		NW	4434365
Surr: n-Pentacosane	90.2		%	20-154		1	05/12/08	16:01	NW	4434365
Prep Method F	Prep Date	Prep Initials	Prep	Factor						
SW3550B 0	5/10/2008 16:38	QMT	1.00							
GASOLINE RANGE ORC	GANICS				MCL	SI	N8015B	Ur	nits: mg/kg	q-dry
Gasoline Range Organics	ND			0.1		1	05/09/08	11:44	SFE	4428529
Surr: 1,4-Difluorobenzen	e 97.5		%	63-142		1	05/09/08	11:44	SFE	4428529
Surr: 4-Bromofluorobenz	ene 102		%	50-159		1	05/09/08	11:44	SFE	4428529
Prep Method F	Prep Date	Prep Initials	Prep	Factor						
	05/08/2008 12:56	SFE	1.00							
ION CHROMATOGRAPH	IY				MCL	E300	.0 MOD	Ur	nits: mg/kg	n-drv
Chloride	128			10.3	moe	2	05/10/08			4428760
ION CHROMATOGRAPH					MCL		SW9056	Un	nits: mg/L	
Chloride	6.51			0.5	WICL	1	05/13/08			4433893
									_	
				L.	Leach Metho	<u>d L</u>	eachate Date	2	<u>Leach</u>	nitials
					SW1312	0	5/09/2008		GF	
PERCENT MOISTURE					MCL		D2216	Ur	nits: wt%	
Percent Moisture	3.28			0		1	05/08/08	13:22	ESK	4424907
SPLP VOLATILE ORGA	NICS				MCL	SI	N8260B		its: ug/L	
Benzene	ND			5		1	05/10/08	16:55	LT	4429938
Ethylbenzene	ND			5		1	05/10/08	16:55	LT	4429938
Toluene	ND			5		1	05/10/08	16:55	LT	4429938
m,p-Xylene	ND			5		1	05/10/08	16:55	LT	4429938
o-Xylene	ND			5		1	05/10/08	16:55	LT	4429938
Xylenes,Total	ND			5		1	05/10/08	16:55	LT	4429938
Surr: 1,2-Dichloroethane	-d4 100		%	62-130		1	05/10/08	16:55	LT	4429938
Surr: 4-Bromofluorobenz	ene 90.0		%	70-130		1	05/10/08	16:55	LT	4429938
Surr: Toluene-d8						1		16:55	LT	4429938

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C12-Bot-9'			Collec	ted: 04	4/29/2008	16:13	SPL Sam	ole ID	: 0805	0489-09
			Site:	Malj	amar, NM					
Analyses/Method	Result	QUAL	Rep.	∟imit	Dil	Factor	Date Analy	zed	Analyst	Seq. #
VOLATILE ORGANICS BY METH	IOD 8260B				MCL	S	W8260B	Uni	ts: ug/kg	-dry
Benzene	ND			5.1		1	05/10/08	2:09	JC	4429748
Ethylbenzene	ND			5.1		1	05/10/08	2:09	JC	4429748
Toluene	ND			5.1		1	05/10/08	2:09	JC	4429748
m,p-Xylene	ND			5.1		1	05/10/08	2:09	JC	4429748
o-Xylene	ND			5.1		1	05/10/08	2:09	JC	4429748
Xylenes,Total	ND			5.1		1	05/10/08	2:09	JC	4429748
Surr: 1,2-Dichloroethane-d4	84.8		% 64	1-130		1	05/10/08	2:09	JC	4429748
Surr: 4-Bromofluorobenzene	97.0		% 62	2-130		1	05/10/08	2:09	JC	4429748
Surr: Toluene-d8	105		% 70)-140		1	05/10/08	2:09	JC	4429748

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:30	JC	0.99

Qualifiers:

ND/U - Not Detected at the Reporting Limit

- B/V Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C10	0-SW-N			Col	lected: 0	04/29/2008	14:11	SPL San	nple II	D: 0805	50489-10
				Sit	e: Mal	ljamar, NM					
Analyses/Method		Result	QUAL	R	ep.Limit	Dil	. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS					MCL	SV	V8015B	Un	its: mg/k	g-dry
Diesel Range Organics	(C10-C28)	ND			5.6		1	05/12/08	16:24	NW	4434366
Surr: n-Pentacosane		99.3		%	20-154		1	05/12/08	16:24	NW	4434366
Prep Method	Prep Date		Prep Initials	<u>Prep</u>	Factor						
SW3550B	05/10/2008 1	6:38	QMT	1.00							
GASOLINE RANGE C	RGANICS					MCL	SV	W8015B	Un	its: mg/k	g-dry
Gasoline Range Organi	CS	ND			0.11		1	05/09/08	12:12	SFE	4428530
Surr: 1,4-Difluoroben	zene	97.2		%	63-142		1	05/09/08	12:12	SFE	4428530
Surr: 4-Bromofluorob	enzene	106		%	50-159		1	05/09/08	12:12	SFE	4428530
Prep Method	Prep Date		Prep Initials	s Prep	Factor						
SW5030B	05/08/2008 1	2:57	SFE	1.00							
ION CHROMATOGRA	PHY					MCL	E300	.0 MOD	Un	its: mg/k	g-dry
Chloride		16			5.64		1	05/10/08	8 1:51	A_E	4428761
PERCENT MOISTURI						MCL		D2216	Un	its: wt%	
Percent Moisture		11.3			0		1	05/08/08	13:22	ESK	4424906
VOLATILE ORGANIC	S BY METHO	D 8260B				MCL	SV	V8260B	Un	its: ug/kg	J-dry
Benzene		ND			5.7		1	05/10/08	8 2:38	JC	4429749
Ethylbenzene		ND			5.7		1	05/10/08	8 2:38	JC	4429749
Toluene		ND			5.7		1	05/10/08	8 2:38	JC	4429749
m,p-Xylene		ND			5.7		1	05/10/08	8 2:38	JC	4429749
o-Xylene		ND			5.7		1	05/10/08	8 2:38	JC	4429749
Xylenes,Total		ND			5.7		1	05/10/08	8 2:38	JC	4429749
Surr: 1,2-Dichloroetha	ane-d4	89.3		%	64-130		1	05/10/08	8 2:38	JC	4429749
Surr: 4-Bromofluorob	007000	97.2		%	62-130		1	05/10/08	8 2:38	JC	4429749
Surr: 4-Bromofluorob	enzene	51.2		/0	02-100						

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:32	JC	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C19	9-SW-N			Coll	ected: 0	5/02/2008	13:22	SPL San	nple II	D: 0805	0489-11
				Sit	e: Malj	jamar, NM					
Analyses/Method		Result	QUAL	Re	ep.Limit	Dil	. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS					MCL	SV	V8015B	Un	its: mg/kg	g-dry
Diesel Range Organics	(C10-C28)	ND			5.6		1	05/12/08	16:46	NW	4434367
Surr: n-Pentacosane		111		%	20-154		1	05/12/08	16:46	NW	4434367
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3550B	05/10/2008 1	6:38	QMT	1.00							
GASOLINE RANGE C	RGANICS					MCL	SV	V8015B	Un	its: mg/kg	g-dry
Gasoline Range Organi	cs	ND			0.11		1	05/09/08	12:41	SFE	4428531
Surr: 1,4-Difluoroben:	zene	97.4		%	63-142		1	05/09/08	12:41	SFE	4428531
Surr: 4-Bromofluorob	enzene	106		%	50-159		1	05/09/08	12:41	SFE	442853
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	05/08/2008 1	2:58	SFE	1.00							
ION CHROMATOGRA	PHY					MCL	E300	.0 MOD	Un	its: mg/kg	g-dry
Chloride		31			5.6		1	05/10/08			4428766
PERCENT MOISTUR						MCL		D2216	Un	its: wt%	
Percent Moisture		10.7			0		1	05/08/08	13:22	ESK	4424904
VOLATILE ORGANIC	S BY METHO	D 8260B				MCL	SV	V8260B	Un	its: ug/kg	-dry
Benzene		ND			5.6		1	05/10/08	3 3:06	JC	4429750
Ethylbenzene		ND			5.6		1	05/10/08	3 3:06	JC	4429750
Toluene		ND			5.6		1	05/10/08	3 3:06	JC	4429750
m,p-Xylene		ND			5.6		1	05/10/08	3 3:06	JC	4429750
o-Xylene		ND			5.6		1	05/10/08	3 3:06	JC	4429750
Xylenes,Total		ND			5.6		1	05/10/08	3 3:06	JC	4429750
Surr: 1,2-Dichloroetha	ane-d4	83.8		%	64-130		1	05/10/08	3 3:06	JC	4429750
Surr: 4-Bromofluorob		95.8		%	62-130		1	05/10/08	3 3:06	JC	4429750
	enzene	95.0		/0	02-100						

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:34	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Collected: 05/02/2008 12:51 08050489-12 Client Sample ID: C18-Bot-6 SPL Sample ID: Site: Maljamar, NM Result QUAL Analyses/Method Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND Diesel Range Organics (C10-C28) 05/12/08 17:58 NW 4434369 5.1 1 Surr: n-Pentacosane 90.7 05/12/08 17:58 NW 4434369 % 20-154 1 Prep Method Prep Date Prep Initials Prep Factor 05/10/2008 16:38 QMT SW3550B 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/09/08 13:19 SFE 4428532 Gasoline Range Organics 0.1 1 63-142 05/09/08 13:19 4428532 Surr: 1,4-Difluorobenzene 99.4 % 1 SFE 4428532 Surr: 4-Bromofluorobenzene 100 % 50-159 1 05/09/08 13:19 SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 12:58 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride ND 5.11 05/10/08 3:29 A_E 4428767 1 **ION CHROMATOGRAPHY - SPLP** MCL SW9056 Units: mg/L Chloride ND 0.5 1 05/13/08 2:36 A_E 4433894 Leach Method Leachate Date Leach Initials SW1312 05/09/2008 GF PERCENT MOISTURE MCL D2216 Units: wt% 0 Percent Moisture 2.09 1 05/08/08 13:22 ESK 4424903 SPLP VOLATILE ORGANICS MCL SW8260B Units: ug/L ND 4429939 5 Benzene 1 05/10/08 17:21 LT 5 4429939 Ethylbenzene ND 1 05/10/08 17:21 LT Toluene ND 5 1 05/10/08 17:21 LT 4429939 m,p-Xylene ND 5 1 05/10/08 17:21 LT 4429939 5 4429939 o-Xylene ND 1 05/10/08 17:21 LT ND 5 4429939 Xylenes,Total 1 05/10/08 17:21 I T Surr: 1,2-Dichloroethane-d4 100 % 62-130 1 05/10/08 17:21 LT 4429939

%

%

70-130

74-122

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

05/10/08 17:21

05/10/08 17:21

LT

I T

1

1

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank

92.0

96.0

- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- ${\sf E}$ Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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4429939

4429939

Surr: 4-Bromofluorobenzene

Surr: Toluene-d8



HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C18-Bot-6'		Col	lected: 05	5/02/2008 12:5	51 SPL Sa	SPL Sample ID:		08050489-12	
			Sit	e: Malj	amar, NM				
Analyses/Method	Result	QUAL	R	ep.Limit	Dil. Fac	ctor Date Ana	alyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METH	IOD 8260B				MCL	SW8260B	Un	its: ug/kg	-dry
Benzene	ND			5.1	1	05/10/0	08 3:35	JC	4429751
Ethylbenzene	ND			5.1	1	05/10/0	08 3:35	JC	4429751
Toluene	ND			5.1	1	05/10/0	08 3:35	JC	4429751
m,p-Xylene	ND			5.1	1	05/10/0	08 3:35	JC	4429751
o-Xylene	ND			5.1	1	05/10/0	08 3:35	JC	4429751
Xylenes,Total	ND			5.1	1	05/10/0	08 3:35	JC	4429751
Surr: 1,2-Dichloroethane-d4	87.6		%	64-130	1	05/10/0	08 3:35	JC	4429751
Surr: 4-Bromofluorobenzene	97.6		%	62-130	1	05/10/0	08 3:35	JC	4429751
Surr: Toluene-d8	104		%	70-140	1	05/10/0	08 3:35	JC	4429751

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:36	JC	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Collected: 05/02/2008 10:37 08050489-13 Client Sample ID: C17-SW-S SPL Sample ID: Site: Maljamar, NM Result QUAL Analyses/Method Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND Diesel Range Organics (C10-C28) 05/12/08 18:20 NW 4434370 5.1 1 Surr: n-Pentacosane 89.9 05/12/08 18:20 4434370 % 20-154 1 NW Prep Method Prep Date Prep Initials Prep Factor 05/10/2008 16:38 QMT SW3550B 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 4428533 Gasoline Range Organics 0.1 1 05/09/08 13:47 SFE 63-142 05/09/08 13:47 4428533 Surr: 1,4-Difluorobenzene 100 % 1 SFE 4428533 Surr: 4-Bromofluorobenzene 101 % 50-159 1 05/09/08 13:47 SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 12:59 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride 5.27 5.11 05/10/08 3:46 A_E 4428768 1 PERCENT MOISTURE MCL D2216 Units: wt% Percent Moisture 2.16 0 1 05/08/08 13:22 ESK 4424902 **VOLATILE ORGANICS BY METHOD 8260B** MCL SW8260B Units: ug/kg-dry Benzene ND 5.2 1 05/10/08 4:04 JC 4429752 ND 4429752 Ethylbenzene 5.2 1 05/10/08 4:04 JC Toluene 4429752 ND 5.2 1 05/10/08 4:04 JC 4429752 m,p-Xylene ND 5.2 1 05/10/08 4:04 JC 4429752 o-Xylene ND 5.2 1 05/10/08 4:04 JC Xylenes,Total ND 5.2 1 05/10/08 4:04 JC 4429752 Surr: 1,2-Dichloroethane-d4 % 64-130 1 05/10/08 4:04 JC 4429752 89.1 Surr: 4-Bromofluorobenzene 97.0 % 62-130 1 05/10/08 4:04 JC 4429752

70-140

%

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:38	JC	1.01

111

Qualifiers:

Surr: Toluene-d8

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

05/10/08 4:04

1

JC

4429752

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C14-B	ot-8'		Colle	cted:	05/01/2008	10:43	SPL Sam	nple II	D: 0805	60489-14
			Site	: Ma	aljamar, NM					
Analyses/Method	Resul	t QUAL	Rep	o.Limit	Dil	. Factor	· Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGAN	lics				MCL	S	W8015B	Un	its: mg/kg	g-dry
Diesel Range Organics (C1	0-C28) ND			5.2		1	05/12/08		NW	4434371
Surr: n-Pentacosane	93.1		%	20-154		1	05/12/08	18:43	NW	4434371
Prep Method F	Prep Date	Prep Initials	Prep F	actor						
SW3550B 0	05/10/2008 16:38	QMT	1.00							
GASOLINE RANGE ORC	GANICS				MCL	S	W8015B	Un	its: mg/kg	g-dry
Gasoline Range Organics	ND	1		0.1		1	05/09/08	14:16	SFE	4428534
Surr: 1,4-Difluorobenzen	e 98.7		%	63-142		1	05/09/08	14:16	SFE	4428534
Surr: 4-Bromofluorobenz	ene 98.4		%	50-159		1	05/09/08	14:16	SFE	4428534
Prep Method F	Prep Date	Prep Initials	Prep F	actor						
	05/08/2008 13:00	SFE	1.00							
ION CHROMATOGRAPH	IY				MCL	E300	0.0 MOD	Un	its: mg/kg	a-drv
Chloride	46.2			5.18		1	05/10/08			4428769
ION CHROMATOGRAPH	IY - SPLP				MCL		SW9056	Un	its: mg/L	
Chloride	2.93			0.5		1	05/13/08			4433897
					Leach Method	1	eachate Date		Leach	Initials
					SW1312		5/09/2008	2	GF	<u>initiais</u>
PERCENT MOISTURE					MCL		D2216	Un	its: wt%	
Percent Moisture	3.45			0		1	05/08/08			4424901
SPLP VOLATILE ORGA	NICS				MCL	S	W8260B	Un	its: ug/L	
Benzene	ND	1		5		1	05/10/08		LT	4429940
Ethylbenzene	ND			5		1	05/10/08	17:47	LT	4429940
Toluene	ND			5		1	05/10/08	17:47	LT	4429940
m,p-Xylene	ND			5		1	05/10/08	17:47	LT	4429940
o-Xylene	ND			5		1	05/10/08	17:47	LT	4429940
Xylenes,Total	ND			5		1	05/10/08	17:47	LT	4429940
Surr: 1,2-Dichloroethane	-d4 98.0		%	62-130		1	05/10/08	17:47	LT	4429940
Surr: 4-Bromofluorobenz	ene 88.0		%	70-130		1	05/10/08	17:47	LT	4429940
Surr: Toluene-d8	96.0		%	74-122		1	05/10/08	17:47	LT	4429940
					Leach Method		eachate Date		l each	le itie le

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C14-Bot-8'			Collected: 05/01/2008 10:43			SPL Sam	SPL Sample ID:		08050489-14	
			Sit	e: Malja	amar, NM					
Analyses/Method	Result	QUAL	R	ep.Limit	Dil. Fact	or Date Anal	yzed	Analyst	Seq. #	
VOLATILE ORGANICS BY METH	IOD 8260B				MCL	SW8260B	Un	its: ug/kg	-dry	
Benzene	ND			5.2	1	05/10/08	4:33	JC	4429753	
Ethylbenzene	ND			5.2	1	05/10/08	4:33	JC	4429753	
Toluene	ND			5.2	1	05/10/08	4:33	JC	4429753	
m,p-Xylene	ND			5.2	1	05/10/08	4:33	JC	4429753	
o-Xylene	ND			5.2	1	05/10/08	4:33	JC	4429753	
Xylenes,Total	ND			5.2	1	05/10/08	4:33	JC	4429753	
Surr: 1,2-Dichloroethane-d4	84.3		%	64-130	1	05/10/08	4:33	JC	4429753	
Surr: 4-Bromofluorobenzene	98.4		%	62-130	1	05/10/08	4:33	JC	4429753	
Surr: Toluene-d8	102		%	70-140	1	05/10/08	4:33	JC	4429753	

Prep Method	Prep Date	Prep Initials	Prep Factor	
SW5030B	05/08/2008 15:40	JC	1.00	

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- ${\sf E}$ Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C15-SW-N			Coll	ected: 0	5/01/2008	11:07	SPL Sam	ple ID	D: 0805	0489-15
			Sit	e: Malj	amar, NM					
Analyses/Method	Result	QUAL	Re	ep.Limit	Dil	. Factor	Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	SV	V8015B	Un	its: mg/kg	J-dry
Diesel Range Organics (C10-C28)	ND			5.2		1	05/12/08	19:05	NW	4434372
Surr: n-Pentacosane	87.5		%	20-154		1	05/12/08	19:05	NW	4434372
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW3550B 05/10/2008	16:38	QMT	1.00							
GASOLINE RANGE ORGANICS					MCL	SV	V8015B	Un	its: mg/kg	J-dry
Gasoline Range Organics	ND			0.1		1	05/09/08	14:44	SFE	4428535
Surr: 1,4-Difluorobenzene	98.5		%	63-142		1	05/09/08	14:44	SFE	4428535
Surr: 4-Bromofluorobenzene	98.6		%	50-159		1	05/09/08	14:44	SFE	4428535
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW5030B 05/08/2008	13:01	SFE	1.00							
ION CHROMATOGRAPHY					MCL	E300	.0 MOD	Un	its: mg/kg	j-dry
Chloride	255			20.9		4	05/10/08	4:19	A_E	4428770
PERCENT MOISTURE					MCL		D2216	Un	its: wt%	
Percent Moisture	4.1			0		1	05/08/08	13:22	ESK	4424900
VOLATILE ORGANICS BY METHO	OD 8260B				MCL	SV	V8260B	Un	its: ug/kg	-dry
Benzene	ND			5.2		1	05/10/08	5:00	JC	4429754
Ethylbenzene	ND			5.2		1	05/10/08	5:00	JC	4429754
Toluene	ND			5.2		1	05/10/08	5:00	JC	4429754
m,p-Xylene	ND			5.2		1	05/10/08	5:00	JC	4429754
o-Xylene	ND			5.2		1	05/10/08	5:00	JC	4429754
Xylenes,Total	ND			5.2		1	05/10/08	5:00	JC	4429754
Surr: 1,2-Dichloroethane-d4	92.7		%	64-130		1	05/10/08	5:00	JC	4429754
Surr: 4-Bromofluorobenzene	92.7		%	62-130		1	05/10/08	5:00	JC	4429754
Surr: 4-Bromofluorobenzene	52.1		70	02-130						

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:42	JC	0.99

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Clier	nt Sample ID: C1	3-SW-N			Coll	ected: 0	4/30/2008	11:33	SPL Sar	nple II	D: 080	50489-16
					Site	e: Malj	jamar, NM					
Analy	/ses/Method		Result	QUAL	Re	ep.Limit	Di	I. Factor	Date Ana	lyzed	Analyst	Seq. #
DIES	EL RANGE OR	GANICS					MCL	SV	V8015B	Un	its: mg/k	g-dry
Die	sel Range Organics	s (C10-C28)	ND			5.2		1	05/12/08	19:27	NW	4434373
5	Surr: n-Pentacosane	9	93.7		%	20-154		1	05/12/08	19:27	NW	4434373
	Prep Method	Prep Date		Prep Initials	Prep	Factor						
	SW3550B	05/10/2008	16:38	QMT	1.00							
GAS	OLINE RANGE	ORGANICS					MCL	SV	W8015B	Un	its: mg/k	g-dry
Ga	soline Range Organ	ics	ND			0.1		1	05/09/08	15:13	SFE	4428536
5	Surr: 1,4-Difluorober	nzene	99.2		%	63-142		1	05/09/08	15:13	SFE	4428536
S	Surr: 4-Bromofluorot	oenzene	101		%	50-159		1	05/09/08	15:13	SFE	4428536
	Prep Method	Prep Date		Prep Initials	Prep	Factor						
	SW5030B	05/08/2008	13:02	SFE	1.00							
ION	CHROMATOGR	APHY					MCL	E300	.0 MOD	Un	its: mg/k	g-dry
Chl	oride		72.5			5.18		1	05/10/0	8 5:41	A_E	4428775
PER	CENT MOISTUR	E					MCL		D2216	Un	its: wt%	
Per	cent Moisture		3.48			0		1	05/08/08	13:22	ESK	4424899
VOL	ATILE ORGANIC	S BY METH	OD 8260B				MCL	SV	V8260B	Un	its: ug/kg	g-dry
Ber	nzene		ND			5.1		1	05/10/08	17:02	JC	4429765
Eth	ylbenzene		ND			5.1		1	05/10/08	17:02	JC	4429765
Tol	uene		ND			5.1		1	05/10/08	17:02	JC	4429765
m,p	-Xylene		ND			5.1		1	05/10/08	17:02	JC	4429765
0-X	ylene		ND			5.1		1	05/10/08	17:02	JC	4429765
Xyle	enes,Total		ND			5.1		1	05/10/08	17:02	JC	4429765
5	Surr: 1,2-Dichloroeth	nane-d4	88.7		%	64-130		1	05/10/08	17:02	JC	4429765
5	Surr: 4-Bromofluoro	penzene	94.8		%	62-130		1	05/10/08	17:02	JC	4429765
5	Surr: Toluene-d8		101		%	70-140		1	05/10/08	17:02	JC	4429765

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:44	JC	0.99

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C14-SW-N Collected: 05/01/2008 9:50 08050489-17 SPL Sample ID: Site: Maljamar, NM Result QUAL Rep.Limit Dil. Factor Analyst Analyses/Method Date Analyzed Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry Diesel Range Organics (C10-C28) ND 5.2 1 05/12/08 19:50 NW 4434374 Surr: n-Pentacosane 92.3 1 05/12/08 19:50 NW 4434374 % 20-154 Prep Method Prep Date Prep Initials Prep Factor SW3550B 05/10/2008 16:38 QMT 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/09/08 16:38 SFE 4428539 Gasoline Range Organics 0.1 1 98.5 4428539 Surr: 1,4-Difluorobenzene % 63-142 1 05/09/08 16:38 SFE 102 50-159 1 05/09/08 16:38 4428539 Surr: 4-Bromofluorobenzene % SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 13:02 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride 76.2 5.18 05/10/08 5:57 A_E 4428776 1 PERCENT MOISTURE MCL D2216 Units: wt% Percent Moisture 3.45 0 1 05/08/08 13:22 ESK 4424898 **VOLATILE ORGANICS BY METHOD 8260B** MCL SW8260B Units: ug/kg-dry Benzene ND 5.2 1 05/10/08 5:28 JC 4429755

Ethylbenzene	ND	5.2	1	05/10/08 5:28 JC	4429755
Toluene	ND	5.2	1	05/10/08 5:28 JC	4429755
m,p-Xylene	ND	5.2	1	05/10/08 5:28 JC	4429755
o-Xylene	ND	5.2	1	05/10/08 5:28 JC	4429755
Xylenes,Total	ND	5.2	1	05/10/08 5:28 JC	4429755
Surr: 1,2-Dichloroethane-d4	91.8	% 64-130	1	05/10/08 5:28 JC	4429755
Surr: 4-Bromofluorobenzene	95.8	% 62-130	1	05/10/08 5:28 JC	4429755
Surr: Toluene-d8	99.8	% 70-140	1	05/10/08 5:28 JC	4429755

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:50	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C15	5-SW-S			Col	lected: 0	5/01/2008	11:11	SPL Sam	nple II): 0805	0489-18
				Sit	e: Malj	amar, NM					
Analyses/Method		Result	QUAL	R	ep.Limit	Dil	. Factor	Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS					MCL	SV	V8015B	Un	its: mg/kg	g-dry
Diesel Range Organics ((C10-C28)	ND			5.1		1	05/12/08	20:12	NW	4434375
Surr: n-Pentacosane		88.2		%	20-154		1	05/12/08	20:12	NW	4434375
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3550B	05/10/2008 16:3	8	QMT	1.00							
GASOLINE RANGE O	RGANICS					MCL	SV	V8015B	Un	its: mg/kg	g-dry
Gasoline Range Organic	s	ND			0.1		1	05/09/08	17:07	SFE	4428540
Surr: 1,4-Difluorobenz	zene	99.2		%	63-142		1	05/09/08	17:07	SFE	4428540
Surr: 4-Bromofluorobe	enzene	99.1		%	50-159		1	05/09/08	17:07	SFE	4428540
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	05/08/2008 13:0	3	SFE	1.00							
ION CHROMATOGRA	РНҮ					MCL	E300	.0 MOD	Un	its: mg/kg	q-dry
Chloride		ND			5.14		1	05/10/08			4428777
PERCENT MOISTURE						MCL		D2216	Un	its: wt%	
Percent Moisture		2.68			0		1	05/08/08	13:22	ESK	4424897
VOLATILE ORGANICS	S BY METHOD	8260B				MCL	SV	V8260B	Un	its: ug/kg	-dry
Benzene		ND			5.1		1	05/10/08	3 5:55	JC	4429756
Ethylbenzene		ND			5.1		1	05/10/08	3 5:55	JC	4429756
Toluene		ND			5.1		1	05/10/08	3 5:55	JC	4429756
m,p-Xylene		ND			5.1		1	05/10/08	3 5:55	JC	4429756
o-Xylene		ND			5.1		1	05/10/08	3 5:55	JC	4429756
Xylenes,Total		ND			5.1		1	05/10/08	3 5:55	JC	4429756
Surr: 1,2-Dichloroetha	ne-d4	80.0		%	64-130		1	05/10/08	3 5:55	JC	4429756
								05/40/00		JC	4429756
Surr: 4-Bromofluorobe	enzene	98.0		%	62-130		1	05/10/08	5:55	JC	4429750

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:52	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C13-B	ot-12'			Col	lected:	05/01/2008	10:01	SPL Sample	e ID:	0805	0489-19
				Sit	e: M	aljamar, NM					
Analyses/Method	Re	sult	QUAL	Re	ep.Limit	Dil	. Facto	or Date Analyze	ed An	alyst	Seq. #
DIESEL RANGE ORGAN	lics					MCL	\$	SW8015B	Units:	mg/kg	j-dry
Diesel Range Organics (C1	0-C28)	ND			5.2		1	05/12/08 20:	34 NW	1	4434376
Surr: n-Pentacosane	g	1.8		%	20-154		1	05/12/08 20:	34 NW	1	4434376
Prep Method F	Prep Date		Prep Initials	Prep	Factor						
SW3550B 0	5/10/2008 16:38		QMT	1.00							
GASOLINE RANGE OR	GANICS					MCL	\$	SW8015B	Units:	mg/kg	j-dry
Gasoline Range Organics		ND			0.1		1	05/09/08 17:	35 SFE		4428541
Surr: 1,4-Difluorobenzen	e g	8.4		%	63-142		1	05/09/08 17:	35 SFE		4428541
Surr: 4-Bromofluorobenz	ene -	102		%	50-159		1	05/09/08 17:	35 SFE		4428541
Prep Method F	Prep Date		Prep Initials	Prep	Factor						
	5/08/2008 13:04		SFE	1.00							
ION CHROMATOGRAPH	IY					MCL	E3(00.0 MOD	Units:	mg/kg	J-dry
Chloride	4	9.3			5.18		1	05/10/08 6:			4428778
ION CHROMATOGRAPH	IY - SPLP					MCL		SW9056	Units:	mg/L	
Chloride		23			2		4	05/13/08 18:	08 A_E		4436214
						Leach Method		Leachate Date		Leach I	nitials
						SW1312		05/09/2008		GF	
PERCENT MOISTURE						MCL		D2216	Units:	wt%	
Percent Moisture	3	.47			0		1	05/08/08 13:	22 ESł	<	4424896
SPLP VOLATILE ORGA	NICS					MCL	\$	SW8260B	Units:	ug/L	
Benzene		ND			5		1	05/10/08 18:	13 LT		4429941
Ethylbenzene		ND			5		1	05/10/08 18:	13 LT		4429941
Toluene		ND			5		1	05/10/08 18:	13 LT		4429941
m,p-Xylene		ND			5		1	05/10/08 18:	13 LT		4429941
o-Xylene		ND			5		1	05/10/08 18:	13 LT		4429941
Xylenes,Total		ND			5		1	05/10/08 18:	13 LT		4429941
Surr: 1,2-Dichloroethane	-d4	100		%	62-130		1	05/10/08 18:	13 LT		4429941
Surr: 4-Bromofluorobenz	ene g	0.0		%	70-130		1	05/10/08 18:	13 LT		4429941
Surr: Toluene-d8	g	4.0		%	74-122		1	05/10/08 18:	13 LT		4429941
						Leach Method		Leachate Date		Leach I	nitials

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C13-Bot-12'		Col	lected: 05	5/01/2008	10:01	SPL San	nple II	D: 0805	08050489-19	
			Sit	e: Malja	amar, NM					
Analyses/Method	Result	QUAL	R	ep.Limit	Dil	. Factor	Date Anal	yzed	Analyst	Seq. #
VOLATILE ORGANICS BY METH	IOD 8260B				MCL	SV	V8260B	Un	its: ug/kg	-dry
Benzene	ND			5.2		1	05/10/08	3 6:24	JC	4429757
Ethylbenzene	ND			5.2		1	05/10/08	8 6:24	JC	4429757
Toluene	ND			5.2		1	05/10/08	8 6:24	JC	4429757
m,p-Xylene	ND			5.2		1	05/10/08	8 6:24	JC	4429757
o-Xylene	ND			5.2		1	05/10/08	3 6:24	JC	4429757
Xylenes,Total	ND			5.2		1	05/10/08	8 6:24	JC	4429757
Surr: 1,2-Dichloroethane-d4	88.4		%	64-130		1	05/10/08	8 6:24	JC	4429757
Surr: 4-Bromofluorobenzene	92.4		%	62-130		1	05/10/08	8 6:24	JC	4429757
Surr: Toluene-d8	100		%	70-140		1	05/10/08	8 6:24	JC	4429757

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:54	JC	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- ${\sf E}$ Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(740) 000 0004

(713) 660-0901

Client Sample ID: C15-B	ot-8'		Col	lected:	05/01/2008	11:17	SPL Sam	ple ID:	0805	0489-20
			Sit	e: Ma	aljamar, NM					
Analyses/Method	Res	ult QUAL	Re	ep.Limit	Dil.	Facto	r Date Analy	zed /	Analyst	Seq. #
DIESEL RANGE ORGAN	lics				MCL	S	W8015B	Units	: mg/kg	g-dry
Diesel Range Organics (C1	0-C28) N	D		5.2		1	05/12/08 2	0:57 N	W	4434377
Surr: n-Pentacosane	89	.5	%	20-154		1	05/12/08 2	0:57 N	W	4434377
Prep Method F	Prep Date	Prep Initials	s Prep	Factor						
SW3550B 0	5/10/2008 16:38	QMT	1.00							
GASOLINE RANGE ORG	GANICS				MCL	S	W8015B	Units	: mg/kg	g-dry
Gasoline Range Organics	Ν	D		0.1		1	05/09/08 1	8:05 S	ΞE	4428542
Surr: 1,4-Difluorobenzen	e 99	.8	%	63-142		1	05/09/08 1	8:05 S	FΕ	4428542
Surr: 4-Bromofluorobenz	ene 98	.6	%	50-159		1	05/09/08 1	8:05 S	FΕ	4428542
Prep Method F	Prep Date	Prep Initials	s Prep	Factor						
	5/08/2008 13:04	SFE	1.00							
ION CHROMATOGRAPH	IY				MCL	E30	0.0 MOD	Units	: mg/kg	g-dry
Chloride	27	2		5.18		1	05/10/08	6:46 A	E	4428779
ION CHROMATOGRAPH	IY - SPLP				MCL		SW9056	Units	: mg/L	
Chloride	1	7		0.5		1	05/13/08	3:59 A	E	4433898
					Leach Method	L	eachate Date		Leach	nitials
					SW1312		5/09/2008		GF	
PERCENT MOISTURE					MCL		D2216	Units	s: wt%	
Percent Moisture	3	5		0		1	05/08/08 1	3:22 E	SK	4424895
SPLP VOLATILE ORGA	NICS				MCL	S	W8260B	Units	: ug/L	
Benzene	Ν	D		5		1	05/10/08 1	8:39 L	Т	4429942
Ethylbenzene	Ν	D		5		1	05/10/08 1	8:39 L	Т	4429942
Toluene	Ν	D		5		1	05/10/08 1	8:39 L	Т	4429942
m,p-Xylene	Ν	D		5		1	05/10/08 1	8:39 L	Т	4429942
o-Xylene	Ν	D		5		1	05/10/08 1	8:39 L	Т	4429942
Xylenes,Total	Ν	D		5		1	05/10/08 1	8:39 L	Т	4429942
Surr: 1,2-Dichloroethane	-d4 98	.0	%	62-130		1	05/10/08 1	8:39 L	Т	4429942
Surr: 4-Bromofluorobenz	ene 90	.0	%	70-130		1	05/10/08 1	8:39 L	Т	4429942
Surr: Toluene-d8	96	.0	%	74-122		1	05/10/08 1	8:39 L	Т	4429942
					Leach Method	1	eachate Date		Leach	nitiale

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C15-Bot-8 Collected: 05/01/2008 11:17 08050489-20 SPL Sample ID: Site: Maljamar, NM Analyses/Method Result QUAL Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **VOLATILE ORGANICS BY METHOD 8260B** MCL SW8260B Units: ug/kg-dry Benzene ND 5.1 1 05/08/08 17:31 E_G 4426521 Ethylbenzene ND 5.1 1 05/08/08 17:31 E_G 4426521 05/08/08 17:31 E_G Toluene ND 1 4426521 5.1 m,p-Xylene ND 4426521 5.1 1 05/08/08 17:31 E_G o-Xylene ND 5.1 1 05/08/08 17:31 E_G 4426521 Xylenes,Total ND 5.1 1 05/08/08 17:31 E_G 4426521 Surr: 1,2-Dichloroethane-d4 86.7 4426521 % 64-130 1 05/08/08 17:31 E_G Surr: 4-Bromofluorobenzene 92.7 % 62-130 1 05/08/08 17:31 E_G 4426521 Surr: Toluene-d8 103 % 70-140 1 05/08/08 17:31 E_G 4426521

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:56	E_G	0.99

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C19	9-SW-W			Col	lected	d: 0	5/02/2008	13:56	SPL Sar	nple I	D: 0805	50489-21
				Sit	e:	Malj	amar, NM					
Analyses/Method	R	lesult	QUAL	R	ep.Lin	nit	Dil	. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS						MCL	SV	V8015B	Ur	its: mg/k	g-dry
Diesel Range Organics	(C10-C28)	ND			5	.6		1	05/12/08	21:20	NW	4434378
Surr: n-Pentacosane		112		%	20-1	54		1	05/12/08	21:20	NW	4434378
Prep Method	Prep Date		Prep Initials	Prep	Facto	r						
SW3550B	05/10/2008 16:38		QMT	1.00								
GASOLINE RANGE O	RGANICS						MCL	SV	V8015B	Ur	its: mg/k	g-dry
Gasoline Range Organic	S	ND			0.1	11		1	05/09/08	19:59	SFE	4428569
Surr: 1,4-Difluorobenz	zene	100		%	63-14	42		1	05/09/08	19:59	SFE	4428569
Surr: 4-Bromofluorobe	enzene	99.0		%	50-1	59		1	05/09/08	19:59	SFE	4428569
Prep Method	Prep Date		Prep Initials	Prep	Facto	r						
SW5030B	05/08/2008 13:09		SFE	1.00								
ION CHROMATOGRA	РНҮ						MCL	E300	.0 MOD	Ur	its: mg/k	g-dry
Chloride		14			5.5	59		1	05/10/08	12:59	A_E	4432607
PERCENT MOISTURE							MCL		D2216	Ur	its: wt%	
Percent Moisture		10.6				0		1	05/08/08	13:22	ESK	4424893
VOLATILE ORGANIC	S BY METHOD 82	260B					MCL	SV	V8260B	Ur	nits: ug/kg	g-dry
Benzene		ND			5	.5		1	05/08/08	17:57	E_G	4426522
Ethylbenzene		ND			5	.5		1	05/08/08	17:57	E_G	4426522
Toluene		ND			5	.5		1	05/08/08	17:57	E_G	4426522
m,p-Xylene		ND			5	.5		1	05/08/08	17:57	E_G	4426522
o-Xylene		ND			5	.5		1	05/08/08	17:57	E_G	4426522
Xylenes,Total		ND			5	.5		1	05/08/08	17:57	E_G	4426522
Surr: 1,2-Dichloroetha	ane-d4	82.8		%	64-13	30		1	05/08/08	17:57	E_G	4426522
Surr: 4-Bromofluorobe	enzene	90.9		%	62-13	30		1	05/08/08	17:57	E_G	4426522
Surr: Toluene-d8		103		%	70-14	40		1	05/08/08	17:57	E_G	4426522
			T									

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:58	E_G	0.99

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C1	7-SW-N			Col	lecte	ed: (05/02/2008	10:31	SPL San	nple I	D: 0805	50489-22
				Sit	e:	Ма	ljamar, NM	l				
Analyses/Method	R	esult	QUAL	R	ep.Li	mit	Di	I. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS						MCL	SV	V8015B	Ur	its: mg/kg	g-dry
Diesel Range Organics	(C10-C28)	ND				5.1		1	05/12/08	22:27	NW	4434380
Surr: n-Pentacosane		94.9		%	20-	154		1	05/12/08	22:27	NW	4434380
Prep Method	Prep Date		Prep Initials	Prep	Fact	tor						
SW3550B	05/10/2008 16:38		QMT	1.00)							
GASOLINE RANGE C	RGANICS						MCL	SV	V8015B	Ur	its: mg/k	g-dry
Gasoline Range Organi	CS	ND				0.1		1	05/09/08	20:27	SFE	4428570
Surr: 1,4-Difluoroben	zene	101		%	63-	142		1	05/09/08	20:27	SFE	4428570
Surr: 4-Bromofluorob	enzene	102		%	50-	159		1	05/09/08	20:27	SFE	4428570
Prep Method	Prep Date		Prep Initials	Prep	Fact	tor						
SW5030B	05/08/2008 13:10		SFE	1.00								
ION CHROMATOGRA	NPHY						MCL	E300	.0 MOD	Ur	its: mg/kg	g-dry
Chloride		32.9			5	5.07		1	05/10/08			4432608
PERCENT MOISTURI	E						MCL		D2216	Ur	its: wt%	
Percent Moisture		1.37				0		1	05/08/08	13:22	ESK	4424892
VOLATILE ORGANIC	S BY METHOD 82	60B					MCL	SV	V8260B	Ur	nits: ug/kg	J-dry
Benzene		ND				5		1	05/08/08	18:23	E_G	4426523
Ethylbenzene		ND				5		1	05/08/08	18:23	E_G	4426523
Toluene		ND				5		1	05/08/08	18:23	E_G	4426523
m,p-Xylene		ND				5		1	05/08/08	18:23	E_G	4426523
o-Xylene		ND				5		1	05/08/08	18:23	E_G	4426523
Xylenes,Total		ND				5		1	05/08/08	18:23	E_G	4426523
Surr: 1,2-Dichloroetha	ane-d4	84.5		%	64-	130		1	05/08/08	18:23	E_G	4426523
Surr: 4-Bromofluorob	enzene	94.6		%	62-	130		1	05/08/08	18:23	E_G	4426523
Surr: Toluene-d8		101		%	70-	140		1	05/08/08	18:23	E_G	4426523
			1	-1								

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:00	E_G	0.99

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(740) 000 0004

(713) 660-0901

Client Sample ID: C16-B	Bot-8'			Col	lected:	05/02/2008	8 9:51	SPL Sam	ple II	D: 0805	0489-23
				Sit	e: M	aljamar, NN	N				
Analyses/Method	Res	ult	QUAL	Re	ep.Limit	C	Dil. Fac	tor Date Analy	yzed	Analyst	Seq. #
DIESEL RANGE ORGAN	NICS					MCL		SW8015B	Un	its: mg/kg	g-dry
Diesel Range Organics (C1	10-C28) N	ID			6.4		1	05/12/08 2	22:49	NW	4434381
Surr: n-Pentacosane	12	27		%	20-154		1	05/12/08 2	22:49	NW	4434381
Prep Method F	Prep Date		Prep Initials	Prep	Factor]					
)5/10/2008 16:38		QMT	1.00							
GASOLINE RANGE OR	GANICS					MCL		SW8015B	Un	its: mg/k	a-drv
Gasoline Range Organics		ID			0.13		1	05/09/08 2			4428573
Surr: 1,4-Difluorobenzen	e 98	5.7		%	63-142		1	05/09/08 2	21:53	SFE	4428573
Surr: 4-Bromofluorobenz		9.9		%	50-159		1	05/09/08 2	21:53	SFE	4428573
Prep Method F	Prep Date		Prep Initials	Prep	Factor]					
)5/08/2008 13:12		SFE	1.00	1 40101						
ION CHROMATOGRAPH	łY			·		MCL	E3	00.0 MOD	Un	its: mg/k	a-drv
Chloride	94	.3			6.4		1	05/10/08			4432609
ION CHROMATOGRAPH	IY - SPLP					MCL		SW9056	Un	its: mg/L	
Chloride	6.7	78			0.5		1	05/13/08			4433899
						Leach Metho	d	Leachate Date		Leach	Initials
						SW1312		05/09/2008		GF	
										-	
PERCENT MOISTURE Percent Moisture	21	9			0	MCL	1	D2216		its: wt%	4424891
		.0			0					-	112100
SPLP VOLATILE ORGA		_				MCL		SW8260B		its: ug/L	
Benzene		ID			5		1	05/10/08		LT	4429943
Ethylbenzene		ID			5		1	05/10/08		LT	4429943
Toluene		ID			5		1	05/10/08		LT	4429943
m,p-Xylene		ID			5		1	05/10/08		LT	4429943
o-Xylene		ID			5		1	05/10/08			4429943
Xylenes,Total		ID		<u> </u>	5		1	05/10/08			4429943
Surr: 1,2-Dichloroethane				%	62-130		1	05/10/08 1		LT	4429943
Surr: 4-Bromofluorobenz		-		%	70-130		1	05/10/08		LT	4429943
Surr: Toluene-d8	96	5.0		%	74-122		1	05/10/08 1	19:04	LT	4429943
						Leach Metho	hd	Leachate Date		l each	Initials

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C16-Bot-8'			Colle	ected: 05	5/02/2008 9:51	SPL Sar	nple II	D: 0805	50489-23
			Site	: Malja	amar, NM				
Analyses/Method	Result	QUAL	Re	p.Limit	Dil. Facto	r Date Ana	lyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METH	IOD 8260B				MCL S	W8260B	Un	its: ug/kg	g-dry
Benzene	ND			6.4	1	05/08/08	18:49	E_G	4426524
Ethylbenzene	ND			6.4	1	05/08/08	18:49	E_G	4426524
Toluene	ND			6.4	1	05/08/08	18:49	E_G	4426524
m,p-Xylene	ND			6.4	1	05/08/08	18:49	E_G	4426524
o-Xylene	ND			6.4	1	05/08/08	18:49	E_G	4426524
Xylenes,Total	ND			6.4	1	05/08/08	18:49	E_G	4426524
Surr: 1,2-Dichloroethane-d4	84.5		%	64-130	1	05/08/08	18:49	E_G	4426524
Surr: 4-Bromofluorobenzene	92.6		%	62-130	1	05/08/08	18:49	E_G	4426524
Surr: Toluene-d8	103		%	70-140	1	05/08/08	18:49	E_G	4426524

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:02	E_G	0.99

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C16	6-SW-S			Col	lecte	d: 05/	/02/2008	9:24	SPL Sar	nple I	D: 0805	50489-24
				Sit	e:	Malja	mar, NM					
Analyses/Method		Result	QUAL	R	ep.Lin	nit	Di	I. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS						MCL	SI	N8015B	Ur	its: mg/k	g-dry
Diesel Range Organics	(C10-C28)	ND			5	.2		1	05/12/08	23:11	NW	4434382
Surr: n-Pentacosane		93.9		%	20-1	54		1	05/12/08	23:11	NW	4434382
Prep Method	Prep Date		Prep Initials	Prep	Facto	r						
SW3550B	05/10/2008 16:3	8	QMT	1.00								
GASOLINE RANGE O	RGANICS						MCL	SI	N8015B	Ur	its: mg/k	g-dry
Gasoline Range Organic	cs	ND			0	.1		1	05/09/08	22:21	SFE	4428574
Surr: 1,4-Difluorobenz	zene	100		%	63-1	12		1	05/09/08	22:21	SFE	4428574
Surr: 4-Bromofluorobe	enzene	98.4		%	50-1	59		1	05/09/08	22:21	SFE	4428574
Prep Method	Prep Date		Prep Initials	Prec	Facto	r						
SW5030B	05/08/2008 13:1	3	SFE	1.00								
ION CHROMATOGRA	PHY						MCL	E300	.0 MOD	Ur	its: mg/k	a-dry
Chloride		27.3			5.2	21		1	05/10/08			4432610
PERCENT MOISTURE							MCL		D2216	Ur	its: wt%	
Percent Moisture		3.97				0		1	05/08/08	13:22	ESK	4424890
VOLATILE ORGANIC	S BY METHOD	8260B					MCL	SI	N8260B	Ur	its: ug/kg	-dry
Benzene		ND			5	.2		1	05/08/08			4426525
Ethylbenzene		ND			5	.2		1	05/08/08	19:16	E_G	4426525
Toluene		ND			5	.2		1	05/08/08	19:16	E_G	4426525
m,p-Xylene		ND			5	.2		1	05/08/08	19:16	E_G	4426525
o-Xylene		ND			5	.2		1	05/08/08	19:16	E_G	4426525
Xylenes,Total		ND			5	.2		1	05/08/08	19:16	E_G	4426525
Surr: 1,2-Dichloroetha	ane-d4	86.7		%	64-1	30		1	05/08/08	19:16	E_G	4426525
Surr: 4-Bromofluorobe	enzene	92.7		%	62-1	30		1	05/08/08	19:16	E_G	4426525
						40			05/08/08			4426525

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:04	E_G	0.99

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C16	6-SW-N			Col	lecte	d: 0	5/02/2008 9	9:15	SPL San	nple I	D: 0805	50489-25
				Sit	e:	Mal	jamar, NM					
Analyses/Method		Result	QUAL	R	ep.Lir	nit	Dil.	Factor	Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS						MCL	SV	V8015B	Ur	its: mg/k	g-dry
Diesel Range Organics	(C10-C28)	ND			Ę	5.1		1	05/12/08	23:34	NW	4434383
Surr: n-Pentacosane		89.3		%	20-1	54		1	05/12/08	23:34	NW	4434383
Prep Method	Prep Date		Prep Initials	Prep	Facto	<u>or</u>						
SW3550B	05/10/2008 16:38		QMT	1.00								
GASOLINE RANGE C	RGANICS						MCL	SV	V8015B	Ur	its: mg/k	g-dry
Gasoline Range Organi	cs	ND			().1		1	05/09/08	22:50	SFE	4428575
Surr: 1,4-Difluoroben:	zene	99.3		%	63-1	42		1	05/09/08	22:50	SFE	4428575
Surr: 4-Bromofluorob	enzene	101		%	50-1	59		1	05/09/08	22:50	SFE	4428575
Prep Method	Prep Date		Prep Initials	Prep	Facto	or						
SW5030B	05/08/2008 13:14		SFE	1.00								
ION CHROMATOGRA	PHY						MCL	E300	.0 MOD	Ur	its: mg/k	g-dry
Chloride		5.31			5.	13		1	05/10/08	14:05	A_E	4432611
PERCENT MOISTURE							MCL		D2216	Ur	its: wt%	
Percent Moisture		2.56				0		1	05/08/08	13:22	ESK	4424889
VOLATILE ORGANIC	S BY METHOD 8	260B					MCL	SV	V8260B	Ur	its: ug/kg	J-dry
Benzene		ND			Ę	5.2		1	05/08/08	19:42	E_G	4426526
Ethylbenzene		ND			Ę	5.2		1	05/08/08	19:42	E_G	4426526
Toluene		ND			Ę	5.2		1	05/08/08	19:42	E_G	4426526
m,p-Xylene		ND			Ę	5.2		1	05/08/08	19:42	E_G	4426526
o-Xylene		ND			Ę	5.2		1	05/08/08	19:42	E_G	4426526
Xylenes,Total		ND			Ę	5.2		1	05/08/08	19:42	E_G	4426526
Surr: 1,2-Dichloroetha	ane-d4	83.7		%	64-1	30		1	05/08/08	19:42	E_G	4426526
Surr: 4-Bromofluorob	enzene	89.6		%	62-1	30		1	05/08/08	19:42	E_G	4426526
Surr: Toluene-d8		104		%	70-1	40		1	05/08/08	19:42	E_G	4426526

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:06	E_G	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C18-S	SW-S			Col	lected:	05/02/2	008 1	2:42	SPL San	nple I	D: 0805	50489-26
				Sit	e: Ma	aljamar,	NM					
Analyses/Method	Re	sult	QUAL	R	ep.Limit		Dil.	Factor	Date Anal	lyzed	Analyst	Seq. #
DIESEL RANGE ORGAN	NICS					MC	Ľ	SV	V8015B	Ur	its: mg/k	g-dry
Diesel Range Organics (C	10-C28)	ND			5.3			1	05/12/08	23:56	NW	4434384
Surr: n-Pentacosane	9	2.2		%	20-154			1	05/12/08	23:56	NW	4434384
Prep Method	Prep Date		Prep Initials	Prep	Factor							
	05/10/2008 16:38		QMT	1.00								
GASOLINE RANGE OR	GANICS					MC	L	SV	V8015B	Ur	its: mg/k	g-dry
Gasoline Range Organics		ND			0.11			1	05/09/08	23:18	SFE	4428576
Surr: 1,4-Difluorobenzer	ne 9	8.6		%	63-142			1	05/09/08	23:18	SFE	4428576
Surr: 4-Bromofluorobenz	zene 9	8.5		%	50-159			1	05/09/08	23:18	SFE	4428576
Prep Method	Prep Date		Prep Initials	Prep	Factor							
	05/08/2008 13:15		SFE	1.00								
ION CHROMATOGRAPI	НҮ					MC	Ľ	E300	.0 MOD	Ur	its: mg/k	g-dry
Chloride		6.4			5.26			1	05/10/08			4432612
PERCENT MOISTURE						MC	Ľ		D2216	Ur	its: wt%	
Percent Moisture	5	.02			0			1	05/08/08	13:22	ESK	4424888
VOLATILE ORGANICS	BY METHOD 826	60B				MC	L.	SV	V8260B	Ur	its: ug/kg	J-dry
Benzene		ND			5.2			1	05/08/08	20:08	E_G	4426527
Ethylbenzene		ND			5.2			1	05/08/08	20:08	E_G	4426527
Toluene		ND			5.2			1	05/08/08	20:08	E_G	4426527
m,p-Xylene		ND			5.2			1	05/08/08	20:08	E_G	4426527
o-Xylene		ND			5.2			1	05/08/08	20:08	E_G	4426527
Xylenes,Total		ND			5.2			1	05/08/08	20:08	E_G	4426527
Surr: 1,2-Dichloroethane	e-d4 8	6.7		%	64-130			1	05/08/08	20:08	E_G	4426527
Surr: 4-Bromofluorobenz	zene 9	0.7		%	62-130			1	05/08/08	20:08	E_G	4426527
Surr: Toluene-d8		103		%	70-140			1	05/08/08	20:08	E_G	4426527
		100	D	/0	70-140]		1	00/00/00	20.00	0	- 4

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:08	E_G	0.99

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C18	3-SW-N			Col	lected: 0	5/02/2008	12:35	SPL Sam	ple ID	: 0805	0489-27
				Sit	e: Malj	jamar, NM					
Analyses/Method		Result	QUAL	Re	ep.Limit	Dil	. Factor	Date Analy	/zed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS					MCL	SV	V8015B	Unit	ts: mg/kg	g-dry
Diesel Range Organics	(C10-C28)	ND			5.5		1	05/13/08	0:19 I	NW	4434385
Surr: n-Pentacosane		111		%	20-154		1	05/13/08	0:19	W	4434385
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3550B	05/10/2008 16:38	3	QMT	1.00							
GASOLINE RANGE O	RGANICS					MCL	SV	V8015B	Unit	ts: mg/kg	g-dry
Gasoline Range Organic	cs	ND			0.11		1	05/10/08	0:43 \$	SFE	4428579
Surr: 1,4-Difluorobenz	zene	99.5		%	63-142		1	05/10/08	0:43 \$	SFE	4428579
Surr: 4-Bromofluorobe	enzene	97.2		%	50-159		1	05/10/08	0:43 \$	SFE	4428579
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	05/08/2008 13:15	5	SFE	1.00							
ION CHROMATOGRA	PHY					MCL	E300	.0 MOD	Unit	ts: mg/kg	g-dry
Chloride		27.3			5.5		1	05/10/08 1			4432613
PERCENT MOISTURE						MCL		D2216	Unit	ts: wt%	
Percent Moisture		9.06			0		1	05/08/08 1	13:22 E	ESK	4424887
VOLATILE ORGANIC	S BY METHOD	3260B				MCL	SV	V8260B	Unit	ts: ug/kg	-dry
Benzene		ND			5.5		1	05/08/08 2	20:34 E	E_G	4426528
Ethylbenzene		ND			5.5		1	05/08/08 2	20:34 E	_G	4426528
Toluene		ND			5.5		1	05/08/08 2	20:34 E	E_G	4426528
m,p-Xylene		ND			5.5		1	05/08/08 2	20:34 E	_G	4426528
o-Xylene		ND			5.5		1	05/08/08 2	20:34 E	_G	4426528
Xylenes,Total		ND			5.5		1	05/08/08 2	20:34 E	_G	4426528
Surr: 1,2-Dichloroetha	ane-d4	86.2		%	64-130		1	05/08/08 2	20:34 E	_G	4426528
								05/08/08 2	0.04 5		4426528
Surr: 4-Bromofluorobe	enzene	92.2		%	62-130		1	05/08/08 2	20:34 E	=_G	4420020

Prep Method	Prep Date	Prep Initials	Prep Factor		
SW5030B	05/08/2008 16:10	E_G	1.00		

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Collected: 05/02/2008 10:42 08050489-28 Client Sample ID: C17-Bot-6 SPL Sample ID: Site: Maljamar, NM Result QUAL Analyses/Method Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/13/08 2:33 NW Diesel Range Organics (C10-C28) 1 4433766 5.4 Surr: n-Pentacosane 76.7 1 05/13/08 2:33 NW 4433766 % 20-154 Prep Method Prep Date Prep Initials Prep Factor 05/10/2008 17:52 QMT SW3550B 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/10/08 1:12 SFE 4428580 Gasoline Range Organics 0.11 1 63-142 4428580 Surr: 1,4-Difluorobenzene 98.8 % 1 05/10/08 1:12 SFE 50-159 4428580 Surr: 4-Bromofluorobenzene 101 % 1 05/10/08 1:12 SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 13:16 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride 149 5.38 05/10/08 14:54 A_E 4432614 1 **ION CHROMATOGRAPHY - SPLP** MCL SW9056 Units: mg/L Chloride 45.3 2 4 05/13/08 17:19 A_E 4436211 Leach Method Leachate Date Leach Initials SW1312 05/09/2008 GF PERCENT MOISTURE MCL D2216 Units: wt% 0 Percent Moisture 7.14 1 05/08/08 13:22 ESK 4424886 SPLP VOLATILE ORGANICS MCL SW8260B Units: ug/L ND 4429944 5 Benzene 1 05/10/08 19:30 LT 5 4429944 Ethylbenzene ND 1 05/10/08 19:30 LT Toluene ND 5 1 05/10/08 19:30 LT 4429944 m,p-Xylene ND 5 1 05/10/08 19:30 LT 4429944 4429944 o-Xylene ND 5 1 05/10/08 19:30 LT ND 5 4429944 Xylenes,Total 1 05/10/08 19:30 I T Surr: 1,2-Dichloroethane-d4 98.0 % 62-130 1 05/10/08 19:30 LT 4429944 Surr: 4-Bromofluorobenzene 90.0 % 70-130 1 05/10/08 19:30 LT 4429944 Surr: Toluene-d8 96.0 74-122 1 05/10/08 19:30 LT 4429944 %

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- ${\sf E}$ Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C17-Bot-6'			Col	lected: 05	5/02/2008 10:42	2 SPL Sam	nple IC): 0805	0489-28
			Sit	e: Malja	amar, NM				
Analyses/Method	Result	QUAL	R	ep.Limit	Dil. Fact	or Date Anal	yzed	Analyst	Seq. #
VOLATILE ORGANICS BY METH	IOD 8260B				MCL	SW8260B	Un	its: ug/kg	-dry
Benzene	ND			5.4	1	05/08/08	21:00	E_G	4426606
Ethylbenzene	ND			5.4	1	05/08/08	21:00	E_G	4426606
Toluene	ND			5.4	1	05/08/08	21:00	E_G	4426606
m,p-Xylene	ND			5.4	1	05/08/08	21:00	E_G	4426606
o-Xylene	ND			5.4	1	05/08/08	21:00	E_G	4426606
Xylenes,Total	ND			5.4	1	05/08/08	21:00	E_G	4426606
Surr: 1,2-Dichloroethane-d4	86.2		%	64-130	1	05/08/08	21:00	E_G	4426606
Surr: 4-Bromofluorobenzene	92.2		%	62-130	1	05/08/08	21:00	E_G	4426606
Surr: Toluene-d8	104		%	70-140	1	05/08/08	21:00	E_G	4426606

Prep Method	Prep Date	Prep Initials	Prep Factor	
SW5030B	05/08/2008 16:12	E_G	1.00	

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(742) 660 0001

(713) 660-0901

Client Sample ID: C19-B	Bot-5'			Coll	lected:	05/02/2008 1	3:41	SPL Sam	ple IC): 080	50489-29
				Sit	e: Ma	aljamar, NM					
Analyses/Method	R	esult	QUAL	Re	ep.Limit	Dil.	Fact	or Date Analy	yzed	Analyst	Seq. #
DIESEL RANGE ORGAN	NICS					MCL	;	SW8015B	Un	its: mg/l	kg-dry
Diesel Range Organics (C1	10-C28)	ND			5.2		1	05/13/08		NW	4433767
Surr: n-Pentacosane		72.7		%	20-154		1	05/13/08	2:55	NW	4433767
Prep Method F	Prep Date		Prep Initials	Prep	Factor						
SW3550B 0	05/10/2008 17:52		QMT	1.00							
GASOLINE RANGE OR	GANICS					MCL	:	SW8015B	Un	its: mg/l	kg-dry
Gasoline Range Organics		ND			0.1		1	05/10/08	1:40	SFE	4428581
Surr: 1,4-Difluorobenzen	е	100		%	63-142		1	05/10/08	1:40	SFE	4428581
Surr: 4-Bromofluorobenz	ene	99.0		%	50-159		1	05/10/08	1:40	SFE	4428581
Prep Method F	Prep Date		Prep Initials	Prep	Factor						
	05/08/2008 13:17		SFE	1.00							
ION CHROMATOGRAPH	ΗY					MCL	E3	00.0 MOD	Un	its: mg/l	kq-dry
Chloride		ND			5.18		1	05/12/08 2			4433823
ION CHROMATOGRAPH	IY - SPLP					MCL		SW9056	Un	its: mg/l	_
Chloride		8.82			0.5		1	05/13/08	4:48	A_E	4433900
						Leach Method		Leachate Date		Leach	n Initials
						SW1312		05/09/2008		GF	
PERCENT MOISTURE						MCL		D2216	Un	its: wt%	
Percent Moisture		3.44			0		1	05/08/08			4424885
SPLP VOLATILE ORGA	NICS					MCL	;	SW8260B	Un	its: ug/L	
Benzene		ND			5		1	05/10/08		LT	4429945
Ethylbenzene		ND			5		1	05/10/08	19:56	LT	4429945
Toluene		ND			5		1	05/10/08	19:56	LT	4429945
m,p-Xylene		ND			5		1	05/10/08	19:56	LT	4429945
o-Xylene		ND			5		1	05/10/08	19:56	LT	4429945
Xylenes,Total		ND			5		1	05/10/08	19:56	LT	4429945
Surr: 1,2-Dichloroethane	-d4	100		%	62-130		1	05/10/08	19:56	LT	4429945
Surr: 4-Bromofluorobenz	ene	90.0		%	70-130		1	05/10/08	19:56	LT	4429945
Surr: Toluene-d8		94.0		%	74-122		1	05/10/08 -	19:56	LT	4429945
						Leach Method		Leachate Date		Lanak	Initials

Leach Method	Leachate Date	Leach Initials		
SW1312	05/09/2008	GF		

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C19-Bot-5'		Col	Collected: 05/02/2008 13:41			SPL Sample ID:		08050489-29	
			Sit	e: Malja	amar, NM				
Analyses/Method	Result	QUAL	R	ep.Limit	Dil. Fact	or Date Ana	lyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METH	IOD 8260B				MCL	SW8260B	Un	its: ug/kg	-dry
Benzene	ND			5.2	1	05/08/08	21:26	E_G	4426530
Ethylbenzene	ND			5.2	1	05/08/08	21:26	E_G	4426530
Toluene	ND			5.2	1	05/08/08	21:26	E_G	4426530
m,p-Xylene	ND			5.2	1	05/08/08	21:26	E_G	4426530
o-Xylene	ND			5.2	1	05/08/08	21:26	E_G	4426530
Xylenes,Total	ND			5.2	1	05/08/08	21:26	E_G	4426530
Surr: 1,2-Dichloroethane-d4	87.1		%	64-130	1	05/08/08	21:26	E_G	4426530
Surr: 4-Bromofluorobenzene	91.1		%	62-130	1	05/08/08	21:26	E_G	4426530
Surr: Toluene-d8	101		%	70-140	1	05/08/08	21:26	E_G	4426530

Prep Method	Prep Date	Prep Initials	Prep Factor	
SW5030B	05/08/2008 16:14	E_G	1.01	

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- ${\sf E}$ Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C1	9-SW-5			Col	lected: (05/02/2008	3 13:33	SPL San	nple I	D: 0805	0489-30
				Sit	e: Ma	ljamar, NN	1				
Analyses/Method		Result	QUAL	Re	ep.Limit	D	il. Factor	Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORG	SANICS					MCL	SV	V8015B	Ur	nits: mg/kg	J-dry
Diesel Range Organics	(C10-C28)	ND			5.2		1	05/13/08	3:18	NW	4433768
Surr: n-Pentacosane		69.6		%	20-154		1	05/13/08	3:18	NW	4433768
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3550B	05/10/2008 17	:52	QMT	1.00							
GASOLINE RANGE	ORGANICS					MCL	SV	V8015B	Ur	nits: mg/kg	g-dry
Gasoline Range Organi	cs	ND			0.1		1	05/10/08	3 2:09	SFE	4428582
Surr: 1,4-Difluoroben	zene	98.2		%	63-142		1	05/10/08	3 2:09	SFE	4428582
Surr: 4-Bromofluorob	enzene	98.0		%	50-159		1	05/10/08	3 2:09	SFE	4428582
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	05/08/2008 13	:18	SFE	1.00							
ION CHROMATOGRA	APHY					MCL	E300	.0 MOD	Ur	nits: mg/kg	a-dry
Chloride		36.4			5.2		1	05/12/08			4433824
PERCENT MOISTUR	E					MCL		D2216	Ur	nits: wt%	
Percent Moisture		3.85			0		1	05/08/08	13:22	ESK	4424884
VOLATILE ORGANIC	S BY METHO	0 8260B				MCL	SV	V8260B	Ur	nits: ug/kg	-dry
Benzene		ND			5.2		1	05/08/08	21:52	E_G	4426531
Ethylbenzene		ND			5.2		1	05/08/08	21:52	E_G	4426531
Toluene		ND			5.2		1	05/08/08	21:52	E_G	4426531
m,p-Xylene		ND			5.2		1	05/08/08	21:52	E_G	4426531
o-Xylene		ND			5.2		1	05/08/08	21:52	E_G	4426531
Xylenes,Total		ND			5.2		1	05/08/08	21:52	E_G	4426531
Surr: 1,2-Dichloroeth	ane-d4	88.0		%	64-130		1	05/08/08	21:52	E_G	4426531
Surr: 4-Bromofluorob	enzene	88.0		%	62-130		1	05/08/08	21:52	E_G	4426531
Surr: Toluene-d8		100		%	70-140		1	05/08/08	21:52	E_G	4426531
Pren Method	Pron Date		Pron Initials	Drop	Factor						

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:16	E_G	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

08050489-31 Client Sample ID: C11-Bot-9 Collected: 04/29/2008 15:28 SPL Sample ID: Site: Maljamar, NM Result QUAL Analyses/Method Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/13/08 3:40 Diesel Range Organics (C10-C28) 1 NW 4433769 5.2 Surr: n-Pentacosane 73.3 1 05/13/08 3:40 4433769 % 20-154 NW Prep Method Prep Date Prep Initials Prep Factor 05/10/2008 17:52 QMT SW3550B 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/10/08 2:37 4428583 Gasoline Range Organics 0.1 1 SFE 63-142 4428583 Surr: 1,4-Difluorobenzene 98.4 % 1 05/10/08 2:37 SFE 97.5 4428583 Surr: 4-Bromofluorobenzene % 50-159 1 05/10/08 2:37 SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 13:19 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride 242 21 4 05/12/08 21:40 A_E 4433825 **ION CHROMATOGRAPHY - SPLP** MCL SW9056 Units: mg/L Chloride 60.9 2 4 05/13/08 18:24 A_E 4436215 Leach Method Leachate Date Leach Initials SW1312 05/09/2008 GF PERCENT MOISTURE MCL D2216 Units: wt% 0 Percent Moisture 4.6 1 05/08/08 13:22 ESK 4424882 SPLP VOLATILE ORGANICS MCL SW8260B Units: ug/L ND 5 05/10/08 20:22 4429946 Benzene 1 LT 5 4429946 Ethylbenzene ND 1 05/10/08 20:22 LT Toluene ND 5 1 05/10/08 20:22 LT 4429946 m,p-Xylene ND 5 1 05/10/08 20:22 LT 4429946 4429946 o-Xylene ND 5 1 05/10/08 20:22 LT 05/10/08 20:22 ND 5 4429946 Xylenes,Total 1 I T Surr: 1,2-Dichloroethane-d4 100 % 62-130 1 05/10/08 20:22 LT 4429946 Surr: 4-Bromofluorobenzene 90.0 % 70-130 1 05/10/08 20:22 LT 4429946 Surr: Toluene-d8 96.0 74-122 1 05/10/08 20:22 4429946 % I T

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C11-Bot-9 Collected: 04/29/2008 15:28 08050489-31 SPL Sample ID: Site: Maljamar, NM Analyses/Method Result QUAL Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **VOLATILE ORGANICS BY METHOD 8260B** MCL SW8260B Units: ug/kg-dry Benzene ND 5.2 1 05/08/08 22:18 E_G 4426532 Ethylbenzene ND 5.2 1 05/08/08 22:18 E_G 4426532 05/08/08 22:18 E_G 4426532 Toluene ND 5.2 1 m,p-Xylene ND 4426532 5.2 1 05/08/08 22:18 E_G o-Xylene ND 5.2 1 05/08/08 22:18 E_G 4426532 Xylenes,Total ND 5.2 1 05/08/08 22:18 E_G 4426532 Surr: 1,2-Dichloroethane-d4 05/08/08 22:18 E_G 4426532 84.5 % 64-130 1 Surr: 4-Bromofluorobenzene 90.5 % 62-130 1 05/08/08 22:18 E_G 4426532 Surr: Toluene-d8 103 % 70-140 1 05/08/08 22:18 E_G 4426532

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:18	E_G	0.99

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

08050489-32 Client Sample ID: C10-Bot-8 Collected: 04/29/2008 14:20 SPL Sample ID: Site: Maljamar, NM Result QUAL Analyses/Method Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND Diesel Range Organics (C10-C28) 1 05/13/08 5:10 NW 4433773 5.2 Surr: n-Pentacosane 82.3 1 05/13/08 5:10 NW 4433773 % 20-154 Prep Method Prep Date Prep Initials Prep Factor 05/10/2008 17:52 QMT SW3550B 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/10/08 3:06 SFE 4428584 Gasoline Range Organics 0.1 1 63-142 4428584 Surr: 1,4-Difluorobenzene 98.9 % 1 05/10/08 3:06 SFE 4428584 Surr: 4-Bromofluorobenzene 100 % 50-159 1 05/10/08 3:06 SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 16:52 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride 198 20.9 4 05/12/08 21:57 A_E 4433826 **ION CHROMATOGRAPHY - SPLP** MCL SW9056 Units: mg/L Chloride 63.6 2 4 05/13/08 18:41 A_E 4436216 Leach Method Leachate Date Leach Initials SW1312 05/09/2008 GF PERCENT MOISTURE MCL D2216 Units: wt% 0 Percent Moisture 4.5 1 05/08/08 13:22 ESK 4424881 SPLP VOLATILE ORGANICS MCL SW8260B Units: ug/L ND 4429947 5 05/10/08 20:48 Benzene 1 LT 5 4429947 Ethylbenzene ND 1 05/10/08 20:48 LT Toluene ND 5 1 05/10/08 20:48 LT 4429947 m,p-Xylene ND 5 1 05/10/08 20:48 LT 4429947 4429947 o-Xylene ND 5 1 05/10/08 20:48 LT ND 5 4429947 Xylenes,Total 1 05/10/08 20:48 I T Surr: 1,2-Dichloroethane-d4 102 % 62-130 1 05/10/08 20:48 LT 4429947 Surr: 4-Bromofluorobenzene 92.0 % 70-130 1 05/10/08 20:48 LT 4429947 Surr: Toluene-d8 94.0 74-122 1 05/10/08 20:48 LT 4429947 %

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C10-Bot-8'			Coll	Collected: 04/29/2008 14:20			SPL Sample ID:		08050489-32	
			Site	e: Malja	amar, NM					
Analyses/Method	Result	QUAL	Re	p.Limit	Dil. Facto	r Date Anal	lyzed	Analyst	Seq. #	
VOLATILE ORGANICS BY METH	IOD 8260B				MCL S	W8260B	Un	its: ug/kg	J-dry	
Benzene	ND			5.3	1	05/09/08	20:32	E_G	4429068	
Ethylbenzene	ND			5.3	1	05/09/08	20:32	E_G	4429068	
Toluene	ND			5.3	1	05/09/08	20:32	E_G	4429068	
m,p-Xylene	ND			5.3	1	05/09/08	20:32	E_G	4429068	
o-Xylene	ND			5.3	1	05/09/08	20:32	E_G	4429068	
Xylenes,Total	ND			5.3	1	05/09/08	20:32	E_G	4429068	
Surr: 1,2-Dichloroethane-d4	89.1		%	64-130	1	05/09/08	20:32	E_G	4429068	
Surr: 4-Bromofluorobenzene	93.1		%	62-130	1	05/09/08	20:32	E_G	4429068	
Surr: Toluene-d8	103		%	70-140	1	05/09/08	20:32	E_G	4429068	

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:24	E_G	1.01

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C11-	-SW-S			Col	lected	1: 04/	/29/2008	15:23	SPL San	nple II	D: 0805	0489-33
				Sit	e: I	Malja	mar, NM					
Analyses/Method	Re	esult	QUAL	Re	ep.Lim	nit	Dil	. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS						MCL	SV	V8015B	Un	its: mg/kg	g-dry
Diesel Range Organics (C10-C28)	ND			5	.2		1	05/13/08	8 5:32	NW	4433777
Surr: n-Pentacosane	!	96.9		%	20-15	54		1	05/13/08	8 5:32	NW	4433777
Prep Method	Prep Date		Prep Initials	Prep	Facto	r						
SW3550B	05/10/2008 17:52		QMT	1.00		_						
GASOLINE RANGE OF	RGANICS						MCL	SV	V8015B	Un	its: mg/kg	g-dry
Gasoline Range Organics	3	ND			0	.1		1	05/10/08	8 3:34	SFE	4428585
Surr: 1,4-Difluorobenze	ene	100		%	63-14	12		1	05/10/08	8 3:34	SFE	4428585
Surr: 4-Bromofluorober	nzene	98.9		%	50-15	59		1	05/10/08	8 3:34	SFE	4428585
Prep Method	Prep Date		Prep Initials	Prep	Facto	r						
SW5030B	05/08/2008 13:20		SFE	1.00								
ION CHROMATOGRAF	РНҮ						MCL	E300	.0 MOD	Un	its: mg/k	g-dry
Chloride		163			20	.9		4	05/12/08	22:13	A_E	4433827
PERCENT MOISTURE							MCL		D2216	Un	its: wt%	
Percent Moisture		4.48				0		1	05/08/08	13:22	ESK	4424880
VOLATILE ORGANICS	BY METHOD 82	60B					MCL	SV	V8260B	Un	its: ug/kg	-dry
Benzene		ND			5	.3		1	05/09/08	20:58	E_G	4429070
Ethylbenzene		ND			5	.3		1	05/09/08	20:58	E_G	4429070
Toluene		ND			5	.3		1	05/09/08	20:58	E_G	4429070
m,p-Xylene		ND			5	.3		1	05/09/08	20:58	E_G	4429070
o-Xylene		ND			5	.3		1	05/09/08	20:58	E_G	4429070
Xylenes,Total		ND			5	.3		1	05/09/08	20:58	E_G	4429070
Surr: 1,2-Dichloroethar	ne-d4	85.5		%	64-13	30		1	05/09/08	20:58	E_G	4429070
Surr: 4-Bromofluorober		89.5		%	62-13	30		1	05/09/08	20:58	E_G	4429070
Sun: 4-Biomonuorober	nzene	09.0		/0	02 10							

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:26	E_G	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C9	-SW-S			Col	lected: 0	4/29/2008	13:00	SPL Sam	ple IC): 0805	0489-34
				Sit	e: Malj	jamar, NM					
Analyses/Method		Result	QUAL	R	ep.Limit	Dil	. Factor	Date Analy	/zed	Analyst	Seq. #
DIESEL RANGE ORC	SANICS					MCL	SV	V8015B	Uni	its: mg/kg	j-dry
Diesel Range Organics	(C10-C28)	ND			5.3		1	05/13/08		NW	4433778
Surr: n-Pentacosane		81.7		%	20-154		1	05/13/08	5:55	NW	4433778
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3550B	05/10/2008 1	7:52	QMT	1.00	-						
GASOLINE RANGE	ORGANICS					MCL	SV	V8015B	Uni	its: mg/kg	j-dry
Gasoline Range Organ	ics	ND			0.11		1	05/10/08			4428586
Surr: 1,4-Difluorober	izene	100		%	63-142		1	05/10/08	4:02	SFE	4428586
Surr: 4-Bromofluorot	oenzene	98.7		%	50-159		1	05/10/08	4:02	SFE	4428586
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	05/08/2008 13	3:21	SFE	1.00							
ION CHROMATOGR	APHY					MCL	E300	.0 MOD	Uni	its: mg/kg	ı-drv
Chloride		150			21.1		4	05/12/08 2			4433828
PERCENT MOISTUR	E					MCL		D2216	Uni	its: wt%	
Percent Moisture		5.28			0		1	05/08/08 1	3:22	ESK	4424879
VOLATILE ORGANIC	S BY METHO	D 8260B				MCL	SV	V8260B	Uni	its: ug/kg	-dry
Benzene		ND			5.3		1	05/09/08 2	21:24	E_G	4429072
Ethylbenzene		ND			5.3		1	05/09/08 2	21:24	E_G	4429072
Toluene		ND			5.3		1	05/09/08 2	21:24	E_G	4429072
m,p-Xylene		ND			5.3		1	05/09/08 2	21:24	E_G	4429072
o-Xylene		ND			5.3		1	05/09/08 2	21:24	E_G	4429072
Xylenes,Total		ND			5.3		1	05/09/08 2	21:24	E_G	4429072
Surr: 1,2-Dichloroeth	nane-d4	87.8		%	64-130		1	05/09/08 2	21:24	E_G	4429072
Surr: 4-Bromofluorot	benzene	91.8		%	62-130		1	05/09/08 2	21:24	E_G	4429072
Surr: Toluene-d8		102		%	70-140		1	05/09/08 2	21:24	E_G	4429072
Deep Mathad	Deen Dete		Duen Initiale	D	= .						

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:28	E_G	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

08050489-35 Client Sample ID: C9-SW-N Collected: 04/29/2008 13:09 SPL Sample ID: Site: Maljamar, NM Result QUAL Analyses/Method Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND Diesel Range Organics (C10-C28) 1 05/13/08 6:17 NW 4433779 5.3 Surr: n-Pentacosane 102 1 05/13/08 6:17 NW 4433779 % 20-154 Prep Method Prep Date Prep Initials Prep Factor 05/10/2008 17:52 QMT SW3550B 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/10/08 4:31 SFE 4428587 Gasoline Range Organics 0.11 1 63-142 4428587 Surr: 1,4-Difluorobenzene 99.3 % 1 05/10/08 4:31 SFE 50-159 4428587 Surr: 4-Bromofluorobenzene 98.0 % 1 05/10/08 4:31 SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 13:22 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride 128 21.1 4 05/12/08 22:46 A_E 4433829 PERCENT MOISTURE MCL D2216 Units: wt% Percent Moisture 5.34 0 1 05/08/08 13:22 ESK 4424878 **VOLATILE ORGANICS BY METHOD 8260B** MCL SW8260B Units: ug/kg-dry Benzene ND 5.3 1 05/09/08 21:50 E_G 4429074 4429074 Ethylbenzene ND 5.3 1 05/09/08 21:50 E_G Toluene 4429074 ND 5.3 1 05/09/08 21:50 E_G 4429074 m,p-Xylene ND 5.3 1 05/09/08 21:50 E_G o-Xylene ND 5.3 1 05/09/08 21:50 E_G 4429074 Xylenes,Total ND 5.3 1 05/09/08 21:50 E_G 4429074 Surr: 1,2-Dichloroethane-d4 % 64-130 1 05/09/08 21:50 E_G 4429074 85.8 Surr: 4-Bromofluorobenzene 89.8 % 62-130 1 05/09/08 21:50 E_G 4429074 Surr: Toluene-d8 70-140 05/09/08 21:50 E_G 4429074 104 % 1

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:30	E_G	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(740) 000 0004

(713) 660-0901

Client Sample ID: C9-Bo	ot-8'		Col	lected:	04/29/2008	3:13	SPL Sample	ID: (8050489-36
			Sit	e: M	aljamar, NM				
Analyses/Method	Resi	ılt QUAL	R	ep.Limit	Dil.	Facto	or Date Analyze	d Anal	yst Seq. #
DIESEL RANGE ORGAN	NICS				MCL	S	SW8015B U	Jnits: m	g/kg-dry
Diesel Range Organics (C1	10-C28) N	D		5.2		1	05/13/08 6:4	0 NW	4433780
Surr: n-Pentacosane	97.	7	%	20-154		1	05/13/08 6:4	0 NW	4433780
Prep Method F	Prep Date	Prep Initials	s Prep	Factor					
SW3550B 0	05/10/2008 17:52	QMT	1.00						
GASOLINE RANGE OR	GANICS				MCL	S	SW8015B U	Jnits: m	g/kg-dry
Gasoline Range Organics	Ν	D		0.1		1	05/10/08 4:5	9 SFE	4428588
Surr: 1,4-Difluorobenzen	e 10	0	%	63-142		1	05/10/08 4:5	9 SFE	4428588
Surr: 4-Bromofluorobenz	ene 98.	8	%	50-159		1	05/10/08 4:5	9 SFE	4428588
Prep Method F	Prep Date	Prep Initials	s Prep	Factor					
	5/08/2008 13:22	SFE	1.00						
ION CHROMATOGRAPH	łY				MCL	E30	0.0 MOD U	Jnits: m	g/kg-dry
Chloride	19	8		21		4	05/12/08 23:0		4433830
ION CHROMATOGRAPH	IY - SPLP				MCL		SW9056 U	Jnits: m	g/L
Chloride	59.	3		2		4	05/13/08 18:5	7 A_E	4436217
					Leach Method		Leachate Date	Le	ach Initials
					SW1312		05/09/2008	GI	
PERCENT MOISTURE					MCL		D2216 U	Jnits: w	t%
Percent Moisture	4.6	9		0		1	05/08/08 13:2	2 ESK	4424877
SPLP VOLATILE ORGA	NICS				MCL	S	W8260B U	Jnits: u	g/L
Benzene	Ν	D		5		1	05/10/08 21:1	4 LT	4429948
Ethylbenzene	Ν	D		5		1	05/10/08 21:1	4 LT	4429948
Toluene	N	D		5		1	05/10/08 21:1	4 LT	4429948
m,p-Xylene	N	D		5		1	05/10/08 21:1	4 LT	4429948
o-Xylene	N	D		5		1	05/10/08 21:1	4 LT	4429948
Xylenes,Total	N	D		5		1	05/10/08 21:1	4 LT	4429948
Surr: 1,2-Dichloroethane	-d4 10	0	%	62-130		1	05/10/08 21:1	4 LT	4429948
Surr: 4-Bromofluorobenz	ene 90.	0	%	70-130		1	05/10/08 21:1	4 LT	4429948
Surr: Toluene-d8	96.	0	%	74-122		1	05/10/08 21:1	4 LT	4429948
					Leach Method		Leachate Date	le	ach Initials

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C9-Bot-8'			Collected: 04/29/2008 13:13			13 S	SPL Sample ID:			08050489-36	
			Site:	Malja	amar, NM						
Analyses/Method	Result	QUAL	Rep.	Limit	Dil. Fa	ctor [Date Ana	lyzed	Analyst	Seq. #	
VOLATILE ORGANICS BY METI	HOD 8260B				MCL	SW8	260B	Un	its: ug/k	g-dry	
Benzene	ND			5.2	1		05/09/08	22:16	E_G	4429076	
Ethylbenzene	ND			5.2	1		05/09/08	22:16	E_G	4429076	
Toluene	ND			5.2	1		05/09/08	22:16	E_G	4429076	
m,p-Xylene	ND			5.2	1		05/09/08	22:16	E_G	4429076	
o-Xylene	ND			5.2	1		05/09/08	22:16	E_G	4429076	
Xylenes,Total	ND			5.2	1		05/09/08	22:16	E_G	4429076	
Surr: 1,2-Dichloroethane-d4	84.7		% 64	4-130	1		05/09/08	22:16	E_G	4429076	
Surr: 4-Bromofluorobenzene	90.7		% 62	2-130	1		05/09/08	22:16	E_G	4429076	
Surr: Toluene-d8	103		% 70)-140	1		05/09/08	22:16	E_G	4429076	

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:32	E_G	0.99

Qualifiers:

ND/U - Not Detected at the Reporting Limit

- $\ensuremath{\mathsf{B/V}}\xspace$ Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

08050489-37 Client Sample ID: C10-SW-S Collected: 04/29/2008 14:01 SPL Sample ID: Site: Maljamar, NM Result QUAL Analyses/Method Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND Diesel Range Organics (C10-C28) 1 05/13/08 4:03 NW 4433770 5.2 Surr: n-Pentacosane 78.8 1 05/13/08 4:03 NW 4433770 % 20-154 Prep Method Prep Date Prep Initials Prep Factor 05/10/2008 17:52 QMT SW3550B 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/10/08 6:24 SFE 4428591 Gasoline Range Organics 0.1 1 63-142 Surr: 1,4-Difluorobenzene 100 % 1 05/10/08 6:24 SFE 4428591 4428591 Surr: 4-Bromofluorobenzene 99.1 % 50-159 1 05/10/08 6:24 SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 13:23 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride 171 21 4 05/12/08 23:19 A_E 4433831 PERCENT MOISTURE MCL D2216 Units: wt% Percent Moisture 4.67 0 1 05/08/08 13:22 ESK 4424876 **VOLATILE ORGANICS BY METHOD 8260B** MCL SW8260B Units: ug/kg-dry Benzene ND 5.3 1 05/09/08 22:42 E_G 4429078 4429078 Ethylbenzene ND 5.3 1 05/09/08 22:42 E_G Toluene 05/09/08 22:42 E_G 4429078 ND 5.3 1 4429078 m,p-Xylene ND 5.3 1 05/09/08 22:42 E_G o-Xylene ND 5.3 1 05/09/08 22:42 E_G 4429078 Xylenes,Total ND 5.3 1 05/09/08 22:42 E_G 4429078 Surr: 1,2-Dichloroethane-d4 % 64-130 1 05/09/08 22:42 E_G 4429078 89.3 Surr: 4-Bromofluorobenzene 91.3 % 62-130 1 05/09/08 22:42 E_G 4429078 Surr: Toluene-d8 70-140 05/09/08 22:42 E_G 4429078 103 % 1

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:34	E_G	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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Quality Control Documentation

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Conoco Phillips

COP Wyatt A

Analysis: Method:	Diesel Range Organio SW8015B	s			WorkOrder: Lab Batch ID:	08050489 78759
	Metho	od Blank		Samples in Analyti	cal Batch:	
RunID: HP_Z_08	0510D-4433525	Units:	mg/kg	Lab Sample ID	Client Sar	nple ID
Analysis Date:	05/11/2008 0:42	Analyst:	NW	08050489-01B	C14-SW-5	6
Preparation Date:	05/09/2008 11:23	Prep By:	QMT Method SW3550B	08050489-02B	C2-SW-N	
				08050489-03B	C3-SW-N	
	Analita		Decult Dec Limit	08050489-04B	C13-SW-5	8
Di	Analyte	N	Result Rep Limit	08050489-05B	C5-Bot-14	,
	I Range Organics (C10-C28 rr: n-Pentacosane	3)	ND 5.0 107.3 20-154	08050489-06B	C11-SW-N	J
				08050489-07B	C12-SW-N	J

Laboratory Control Sample (LCS)

RunID:	
Analysis Date:	
Preparation Date	Э

Date: 05/11/2008 1:05 on Date: 05/09/2008 11:23

HP_Z_080510D-4433526

Units: mg/kg Analyst: NW Prep By: QMT Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	66.6	63.8	95.7	57	150
Surr: n-Pentacosane	1.66	1.77	106	20	154

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050254-01		
RunID:	HP_Z_080510D-4433538	Units:	mg/kg
Analysis Date:	05/11/2008 13:06	Analyst:	NW
Preparation Date:	05/09/2008 11:23	Prep By:	QMT Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	771	66.6	3960	N/C	66.6	10500	N/C	N/C	50	21	175
Surr: n-Pentacosane	ND	1.66	D	D	1.66	D	D	D	30	20	154

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips

COP Wyatt A

Analysis: Method:	Diesel Range Organics SW8015B				WorkOrder: Lab Batch ID:	08050489 78831
	Method	Blank		Samples in Analytic	al Batch:	
RunID: HP_Z_0 Analysis Date: Preparation Date:	<u>Method</u> 080512B-4434360 05/12/2008 14:11	Blank Units: Analyst: Prep By:	mg/kg NW QMT Method SW3550B Result Rep Limit ND 5.0 83.2 20-154	Samples in Analytic Lab Sample ID 08050489-08B 08050489-09B 08050489-10B 08050489-11B 08050489-12B 08050489-13B 08050489-13B 08050489-15B 08050489-16B 08050489-17B 08050489-18B 08050489-19B 08050489-20B 08050489-21B		i <mark>ple ID</mark>
				08050489-22B 08050489-23B 08050489-24B 08050489-25B 08050489-26B 08050489-27B	C17-SW-N C16-Bot-8' C16-SW-S C16-SW-N C18-SW-S C18-SW-N	

Laboratory Control Sample (LCS)

RunID: Analysis Date: Preparation Date:

HP_Z_080512B-4434361 05/12/2008 14:33 05/10/2008 16:38 Units: mg/kg Analyst: NW Prep By: QMT Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	66.6	53.2	79.8	57	150
Surr: n-Pentacosane	1.66	1.71	103	20	154

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

	Sample Spiked: RunID: Analysis Date: Preparation Date:	08050489-08 HP_Z_080512B-4434363 05/12/2008 15:17 05/10/2008 16:38	Units: Analyst: Prep By:	mg/kg-dry NW QMT Method SW3550B				
Qualifiers:	ND/U - Not Detected at the Reporti		ыер ву. MI - Matrix II					
Quaimers.	B/V - Analyte detected in the assoc	0	D - Recovery Unreportable due to Dilution					
	J - Estimated value between MDL a	ind PQL	* - Recovery Outside Advisable QC Limits					
	E - Estimated Value exceeds calibration curve							
	N/C - Not Calculated - Sample cond	amount of spike added. Control limits do not apply.						
	TNTC - Too numerous to count			08050489 Page				
OC results pres	ented on the OC Summary Report have	been rounded RPD and r	percent reco	very values				

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

08050489

78831

Conoco Phillips COP Wyatt A

Analysis:	Diesel Range Organics	WorkOrder:
Method:	SW8015B	Lab Batch ID:

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	ND	69.6	58.0	83.4	69.6	54.9	78.9	5.58	50	21	175
Surr: n-Pentacosane	ND	1.73	1.7	98.0	1.73	1.61	92.9	5.28	30	20	154

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt A

Analysis: Method:	Diesel Range Organics SW8015B	6			WorkOrder: Lab Batch ID:	08050489 78834
	Metho	d Blank		Samples in Analytic	cal Batch:	
RunID: HP_Z_0	080513B-4433764	Units:	mg/kg	Lab Sample ID	Client San	nple ID
Analysis Date:	05/13/2008 1:48	Analyst:	NW	08050489-28B	C17-Bot-6'	-
Preparation Date:	05/10/2008 17:52	Prep By:	QMT Method SW3550B	08050489-29B	C19-Bot-5'	
				08050489-30B	C19-SW-5	
[Analyta		Result Rep Limit	08050489-31B	C11-Bot-9'	
Dio	Analyte sel Range Organics (C10-C28)		Result Rep Limit	08050489-32B	C10-Bot-8'	
	Surr: n-Pentacosane		89.5 20-154	08050489-33B	C11-SW-S	
				08050489-34B	C9-SW-S	
				08050489-35B	C9-SW-N	
				08050489-36B	C9-Bot-8'	
				08050489-37B	C10-SW-S	

Laboratory Control Sample (LCS)

RunID:
Analysis Date:
Preparation Date:

HP_Z_080513B-4433765 05/13/2008 2:10 05/10/2008 17:52

Units: mg/kg NW Analyst: Prep By: QMT Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	66.6	53.9	80.9	57	150
Surr: n-Pentacosane	1.66	1.26	75.9	20	154

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-37		
RunID:	HP_Z_080513B-4433771	Units:	mg/kg-dry
Analysis Date:	05/13/2008 4:25	Analyst:	NW
Preparation Date:	05/10/2008 17:52	Prep By:	QMT Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	ND	69.9	46.8	62.0	69.9	50.4	67.1	7.27	50	21	175
Surr: n-Pentacosane	ND	1.74	1.07	61.4	1.74	1.18	68.0	10.3	30	20	154

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

B/V - Analyte detected in the associated Method Blank * - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

Analysis: Method:	Gasoline Range Orga SW8015B	anics				WorkOrder: Lab Batch ID:	08050489 R236970
	Meth	od Blank			Samples in Analyti	cal Batch:	
RunID: HP_F	R_080509A-4428516	Units:	mg/kg		Lab Sample ID	Client San	nple ID
Analysis Date:	05/09/2008 5:35	Analyst:	SFE		08050489-01A	C14-SW-S	
Preparation Dat	te: 05/09/2008 5:35	Prep By:	N	lethod	08050489-02A	C2-SW-N	
					08050489-03A	C3-SW-N	
_	A 1.			D	08050489-04A	C13-SW-S	
	Analyte			Rep Limit	08050489-05A	C5-Bot-14'	
G	Basoline Range Organics Surr: 1,4-Difluorobenzene		ND 96.6	0.10 63-142	08050489-06A	C11-SW-N	
	Surr: 4-Bromofluorobenzene		106.1	50-159	08050489-07A	C12-SW-N	
					08050489-08A	C12-SW-S	
					08050489-09A	C12-Bot-9'	
					08050489-10A	C10-SW-N	
					08050489-11A	C19-SW-N	
					08050489-12A	C18-Bot-6'	
					08050489-13A	C17-SW-S	
					08050489-14A	C14-Bot-8'	
					08050489-15A	C15-SW-N	
					08050489-16A	C13-SW-N	
					08050489-17A	C14-SW-N	
					08050489-18A	C15-SW-S	
					08050489-19A	C13-Bot-12	2'
					08050489-20A	C15-Bot-8'	

Laboratory Control Sample (LCS)

RunID:	HP_R_080509A-4428515	Units:	mg/kg
Analysis Date:	05/09/2008 5:07	Analyst:	SFE
Preparation Date:	05/09/2008 5:07	Prep By:	Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	1.04	104	70	130
Surr: 1,4-Difluorobenzene	0.100	0.0945	94.5	63	142
Surr: 4-Bromofluorobenzene	0.100	0.108	108	50	159

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

- B/V Analyte detected in the associated Method Blank
- J Estimated value between MDL and PQL

E - Estimated Value exceeds calibration curve

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt A

Analysis: Method:	Gasoline Rar SW8015B	nge Organics					WorkOrder: Lab Batch ID:			08050489 R236970		
		Sample Spiked: RunID: Analysis Date: Preparation Date:	05/09/2	489-01 080509A-44285 2008 6:32 2008 12:47	Analys	st: SF	g/kg-dry E E Method S	W5030B				
	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit

Gasoline Range Organics	ND	1.24	1.19	95.5	1.24	1.24	100	4.68	50	26	147
Surr: 1,4-Difluorobenzene	ND	0.124	0.118	95.2	0.124	0.129	104	8.84	30	63	142
Surr: 4-Bromofluorobenzene	ND	0.124	0.134	108	0.124	0.134	108	0.186	30	50	159

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

k D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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C9-SW-N

C9-Bot-8'

C10-SW-S

Conoco Phillips COP Wyatt A

				•••,				
Analysis: Method:	Gasoline Range Org SW8015B	anics	WorkOrder: Lab Batch ID:	08050489 R236972				
	Meth	nod Blank			Samples in Analyt	ical Batch:		
RunID: HP_R_080509B-4428568		Units:	mg/kg		Lab Sample ID	nple ID		
Analysis Date:	05/09/2008 19:30	Analyst:	SFE		08050489-21A	C19-SW-V	V	
Preparation Date:	05/09/2008 19:30	Prep By:	Method		08050489-22A	C17-SW-N	I	
					08050489-23A	C16-Bot-8		
	A 1.		D <i>V</i>		08050489-24A	C16-SW-S	;	
	Analyte Gasoline Range Organics Surr: 1.4-Difluorobenzene		Result ND 98.7	Rep Limit	08050489-25A	C16-SW-N	1	
					08050489-26A	C18-SW-S	5	
	urr: 4-Bromofluorobenzene		90.7		08050489-27A	C18-SW-N		
					08050489-28A	C17-Bot-6		
					08050489-29A	C19-Bot-5		
					08050489-30A	C19-SW-5		
					08050489-31A	C11-Bot-9		
					08050489-32A	C10-Bot-8		
					08050489-33A	C11-SW-S	;	
					08050489-34A	C9-SW-S		

Laboratory Control Sample (LCS)

08050489-35A

08050489-36A

08050489-37A

RunID:	HP_R_080509B-4428567	Units:	mg/kg
Analysis Date:	05/09/2008 19:02	Analyst:	SFE
Preparation Date:	05/09/2008 19:02	Prep By:	Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	0.974	97.4	70	130
Surr: 1,4-Difluorobenzene	0.100	0.104	104	63	142
Surr: 4-Bromofluorobenzene	0.100	0.103	103	50	159

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-22		
RunID:	HP_R_080509B-4428571	Units:	mg/kg-dry
Analysis Date:	05/09/2008 20:56	Analyst:	SFE
Preparation Date:	05/08/2008 13:11	Prep By:	SFE Method SW5030B

Qualifiers:	ND/U - Not Detected at the Reporting Limit	MI - Matrix Interference
	B/V - Analyte detected in the associated Method Blank	D - Recovery Unreportable due to Dilution
	J - Estimated value between MDL and PQL	* - Recovery Outside Advisable QC Limits
	E - Estimated Value exceeds calibration curve	

50 100 00

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt A

Analysis: Method:	Gasoline Range Organics SW8015B									050489 36972		
	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Rang	e Organics	ND	1.01	0.955	94.2	1.01	0.954	94.1	0.149	50	26	147
Surr: 1,4-Dif	fluorobenzene	ND	0.101	0.105	104	0.101	0.105	104	0	30	63	142
Surr: 4-Bron	nofluorobenzene	ND	0.101	0.103	102	0.101	0.102	101	0.691	30	50	159

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips COP Wyatt A

Analysis: Method:	Volatile Organics by SW8260B	Method 826	60B			WorkOrder: Lab Batch ID:	08050489 78755			
	Meth	od Blank		Samples in Analyt	Samples in Analytical Batch:					
RunID: L_0	80508B-4426517	Units:	ug/kg		Lab Sample ID	Client Sam	ple ID			
Analysis Date	: 05/08/2008 14:02	Analyst:	E_G		08050489-20A	C15-Bot-8'				
					08050489-21A	C19-SW-W	I			
					08050489-22A	C17-SW-N				
ſ	A 1.		.	D 1 · · ·	08050489-23A	C16-Bot-8'				
-	Analyte			Rep Limit	08050489-24A	C16-SW-S				
	Benzene		ND ND	5.0 5.0	08050489-25A	C16-SW-N				
	Ethylbenzene Toluene		ND ND	5.0	08050489-26A	C18-SW-S				
-	m,p-Xylene		ND	5.0	08050489-27A	C18-SW-N				
	o-Xylene		ND	5.0						
	Xylenes,Total		ND	5.0	08050489-28A	C17-Bot-6'				
	Surr: 1,2-Dichloroethane-d4		86.0	64-130	08050489-29A	C19-Bot-5'				
-	Surr: 4-Bromofluorobenzene		94.0	62-130	08050489-30A	C19-SW-5				
	Surr: Toluene-d8		102.0	70-140	08050489-31A	C11-Bot-9'				

Laboratory Control Sample (LCS)

RunID:	L 080508B-4426516	Units:	ua/ka
RuffiD.	L_000300D-4420310	Units.	ug/kg
Analysis Date:	05/08/2008 13:22	Analyst:	E_G

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	21.0	105	66	142
Ethylbenzene	20.0	24.0	120	35	175
Toluene	20.0	25.0	125	59	139
m,p-Xylene	40.0	50.0	125	35	175
o-Xylene	20.0	25.0	125	35	175
Xylenes,Total	60	75	120	35	175
Surr: 1,2-Dichloroethane-d4	50.0	42	84.0	64	130
Surr: 4-Bromofluorobenzene	50.0	49	98.0	62	130
Surr: Toluene-d8	50.0	51	102	70	140

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

	Sample Spiked: RunID: Analysis Date: Preparation Date:	08050451-01 L_080508B-4426519 05/08/2008 14:54 05/08/2008 13:22	Units: Analyst: Prep By:	ug/kg E_G E_G Method SW5030B				
Qualifiers: ND/U - Not Detected at the Reporting Limit			MI - Matrix I					
	B/V - Analyte detected in the assoc		D - Recovery Unreportable due to Dilution					
	J - Estimated value between MDL a	and PQL	* - Recovery Outside Advisable QC Limits					
	E - Estimated Value exceeds calibred	ation curve						
	N/C - Not Calculated - Sample con	centration is greater tha	n 4 times the a	amount of spike added. Control limits do not apply.				
	TNTC - Too numerous to count	080	08050489 Page 62					
	QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.							



Conoco Phillips

COP Wyatt A

Analysis: Method:	Volatile Organics SW8260B	by Method 826	0B					WorkOrder: Lab Batch ID)50489 '55		
	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene		ND	20	16.0	79.8	20	16.0	80.2	0	21	66	142
Ethylbenzene		ND	20	18.0	89.8	20	18.0	90.2	0	30	35	175
Toluene		ND	20	18.0	89.8	20	18.0	90.2	0	21	59	139
m,p-Xylene		ND	40.1	37.0	92.3	39.9	36.0	90.2	2.74	30	35	175
o-Xylene		ND	20	18.0	89.8	20	18.0	90.2	0	30	35	175
Xylenes,Total		ND	60	55	91	60	54	90	1.8	30	35	175
Surr: 1,2-Dicł	nloroethane-d4	ND	50.1	46	91.8	49.9	46.0	92.2	0	30	64	130
Surr: 4-Brome	ofluorobenzene	ND	50.1	51	102	49.9	50.0	100	1.98	30	62	130
Surr: Toluene	e-d8	ND	50.1	50	99.8	49.9	50.0	100	0	30	70	140

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

hk D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt A

Analysis: Method:	Volatile Organics by SW8260B	/ Method 826	0B			WorkOrder: Lab Batch ID:	08050489 78804
	Met	hod Blank			Samples in Analytic	al Batch:	
RunID: L	_080509A-4429066	Units:	ug/kg		Lab Sample ID	Client San	nple ID
Analysis Date: 05/09/2008 20:06 Ana		Analyst:	E_G		08050489-32A	C10-Bot-8'	
-		-			08050489-33A	C11-SW-S	;
					08050489-34A	C9-SW-S	
					08050489-35A	C9-SW-N	
	Analyte			Rep Limit	08050489-36A	C9-Bot-8'	
	Benzene		ND	5.0			
	Ethylbenzene		ND	5.0	08050489-37A	C10-SW-S	i
	Toluene		ND	5.0			
	m,p-Xylene		ND	5.0			
	o-Xylene		ND	5.0			
	Xylenes,Total		ND	5.0			
	Surr: 1,2-Dichloroethane-d4		84.0	64-130			
	Surr: 4-Bromofluorobenzene		94.0	62-130			
	Surr: Toluene-d8		104.0	70-140			

Laborator	y Control Sample	(LCS)

RunID:	L_080509A-4429064	Units:	ug/kg
Analysis Date:	05/09/2008 19:40	Analyst:	E_G

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	20.0	100	66	142
Ethylbenzene	20.0	22.0	110	35	175
Toluene	20.0	27.0	135	59	139
m,p-Xylene	40.0	44.0	110	35	175
o-Xylene	20.0	22.0	110	35	175
Xylenes,Total	60	66	110	35	175
Surr: 1,2-Dichloroethane-d4	50.0	44	88.0	64	130
Surr: 4-Bromofluorobenzene	50.0	50	100	62	130
Surr: Toluene-d8	50.0	51	102	70	140

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050274-49		
RunID:	L_080509A-4429081	Units:	ug/kg-dry
Analysis Date:	05/09/2008 23:34	Analyst:	E_G
Preparation Date:	05/08/2008 16:24	Prep By:	E_G Method SW5030B

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt A

Analysis:Volatile OrganicsMethod:SW8260B	by Method 826	Method 8260B					WorkOrder: Lab Batch ID	08050489 : 78804			
Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	325	25.8	312	N/C	25.9	299	N/C	N/C	21	66	142
Ethylbenzene	702	25.8	715	N/C	25.9	559	N/C	N/C	30	35	175
Toluene	15.6	25.8	33.8	70.7	25.9	31.2	60.4	8.00	21	59	139
m,p-Xylene	29.9	51.5	67.6	73.2	51.7	55.9	50.3	18.9	30	35	175
o-Xylene	ND	25.8	20.8	70.7	25.9	18.2	60.4	13.3	30	35	175
Xylenes,Total	32.5	77.3	88.4	72.4	77.6	74.1	53.7	17.6	30	35	175
Surr: 1,2-Dichloroethane-d4	ND	64.4	54.6	84.8	64.6	58.5	90.5	6.90	30	64	130
Surr: 4-Bromofluorobenzene	ND	64.4	72.8	113	64.6	70.2	109	3.64	30	62	130
Surr: Toluene-d8	ND	64.4	65	101	64.6	63.7	98.6	2.02	30	70	140

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

k D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt A

Analysis: Method:		Volatile Organics by SW8260B	Method 826	60B			WorkOrder: Lab Batch ID:	08050489 78811
		Meth	nod Blank			Samples in Analytic	cal Batch:	
RunID: 0	Q_08050)9A-4429004	Units:	ug/kg		Lab Sample ID	Client San	nple ID
Analysis D	ate:	05/09/2008 8:49	Analyst:	JC		08050489-01A	C14-SW-S	
-						08050489-02A	C2-SW-N	
						08050489-03A	C3-SW-N	
						08050489-04A	C13-SW-S	
		Analyte		Result	Rep Limit	08050489-05A	C5-Bot-14'	
	Benz	zene		ND	5.0			
	Ethyl	benzene		ND	5.0	08050489-06A	C11-SW-N	
	Tolue	ene		ND	5.0			
	m,p-)	Xylene		ND	5.0			
	o-Xyl	lene		ND	5.0			
	Xyler	nes,Total		ND	5.0			
	Su	urr: 1,2-Dichloroethane-d4		88.0	64-130			
	Su	Irr: 4-Bromofluorobenzene		92.0	62-130			
	Su	ırr: Toluene-d8		102.0	70-140			

Laboratory	Control	Sample	(LCS)

RunID:	Q_080509A-4429003	Units:	ug/kg
Analysis Date:	05/09/2008 8:21	Analyst:	JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	20.0	100	66	142
Ethylbenzene	20.0	22.0	110	35	175
Toluene	20.0	23.0	115	59	139
m,p-Xylene	40.0	48.0	120	35	175
o-Xylene	20.0	24.0	120	35	175
Xylenes,Total	60	72	120	35	175
Surr: 1,2-Dichloroethane-d4	50.0	43	86.0	64	130
Surr: 4-Bromofluorobenzene	50.0	51	102	62	130
Surr: Toluene-d8	50.0	53	106	70	140

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-01			
RunID:	Q_080509A-4429006	Units:	ug/k	g-dry
Analysis Date:	05/09/2008 10:17	Analyst:	JC	
Preparation Date:	05/08/2008 15:12	Prep By:	JC	Method SW5030B

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt A

Analysis: Volatile Organics by Method 8260B Method: SW8260B					WorkOrder: Lab Batch ID	08050489 : 78811					
Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	25	22.4	89.5	24.9	21.1	85.0	5.71	21	66	142
Ethylbenzene	ND	25	24.9	99.4	24.9	24.9	100	0	30	35	175
Toluene	ND	25	26.1	104	24.9	24.9	100	4.88	21	59	139
m,p-Xylene	ND	50.1	53.5	107	49.8	52.2	105	2.35	30	35	175
o-Xylene	ND	25	26.1	104	24.9	26.1	105	0	30	35	175
Xylenes,Total	ND	75.1	79.6	106	74.6	78.3	105	1.57	30	35	175
Surr: 1,2-Dichloroethane-d4	ND	62.6	52.2	83.5	62.2	54.7	88.0	4.65	30	64	130
Surr: 4-Bromofluorobenzene	e ND	62.6	62.2	99.4	62.2	65.9	106	5.83	30	62	130
Surr: Toluene-d8	ND	62.6	65.9	105	62.2	67.2	108	1.87	30	70	140

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Analysis:



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

08050489

Conoco Phillips

	COP Wyatt A	
Volatile Organics by Method 8260B		WorkOrder:
SW8260B		Lab Batch ID:

Method:	SW8260B					Lab Batch ID: 78813	
	Meth	nod Blank			Samples in Analytic	al Batch:	
RunID: Q	_080510A-4429745	Units:	ug/kg		Lab Sample ID	Client Sample ID	
Analysis Dat	e: 05/10/2008 0:44	Analyst:	JC		08050489-07A	C12-SW-N	
					08050489-08A	C12-SW-S	
					08050489-09A	C12-Bot-9'	
	• • • •				08050489-10A	C10-SW-N	
	Analyte			Rep Limit	08050489-11A	C19-SW-N	
	Benzene Ethylbenzene		ND ND	5.0 5.0	08050489-12A	C18-Bot-6'	
	Toluene		ND	5.0	08050489-13A	C17-SW-S	
	m,p-Xylene		ND	5.0	08050489-14A	C14-Bot-8'	
	o-Xylene		ND	5.0	08050489-15A	C15-SW-N	
	Xylenes,Total		ND	5.0			
	Surr: 1,2-Dichloroethane-d4		82.0	64-130	08050489-17A	C14-SW-N	
	Surr: 4-Bromofluorobenzene		100.0		08050489-18A	C15-SW-S	
	Surr: Toluene-d8		104.0	70-140	08050489-19A	C13-Bot-12'	

Laboratory Control Sample (LCS)

RunID:	Q_080510A-4429744	Units:	ug/kg
Analysis Date:	05/10/2008 0:15	Analyst:	JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	19.0	95.0	66	142
Ethylbenzene	20.0	21.0	105	35	175
Toluene	20.0	21.0	105	59	139
m,p-Xylene	40.0	43.0	108	35	175
o-Xylene	20.0	22.0	110	35	175
Xylenes,Total	60	65	110	35	175
Surr: 1,2-Dichloroethane-d4	50.0	41	82.0	64	130
Surr: 4-Bromofluorobenzene	50.0	48	96.0	62	130
Surr: Toluene-d8	50.0	53	106	70	140

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

	Sample Spiked: RunID: Analysis Date: Preparation Date:	08041877-05 Q_080510A-4429759 05/10/2008 8:16 05/09/2008 12:50	Units: Analyst: Prep By:	ug/kg JC JC	0	SW5030B		
Qualifiers:	ND/U - Not Detected at the Reporti	ng Limit	MI - Matrix In	nterfer	ence			
	B/V - Analyte detected in the assoc	iated Method Blank	D - Recovery	/ Unre	eportable of	due to Dilution		
	J - Estimated value between MDL a	and PQL	* - Recovery	Outsi	de Advisa	able QC Limits		
	E - Estimated Value exceeds calibr	ation curve						
	N/C - Not Calculated - Sample cond	centration is greater tha	n 4 times the ar	mount	of spike	added. Control	limits do not app	oly.
	TNTC - Too numerous to count							08050489 Page 68
•	ented on the QC Summary Report have e SPL LIMS system are derived from QC		•					5/14/08 4:53:20 PN



Conoco Phillips

COP Wyatt A

Analysis: Method:	Volatile Organics SW8260B	by Method 826	0B					WorkOrder: Lab Batch ID		50489 13		
	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene		ND	20	18.0	90.2	19.8	17.0	85.9	5.71	21	66	142
Ethylbenzene		ND	20	20.0	100	19.8	20.0	101	0	30	35	175
Toluene		ND	20	21.0	105	19.8	20.0	101	4.88	21	59	139
m,p-Xylene		ND	39.9	42.0	105	39.6	40.0	101	4.88	30	35	175
o-Xylene		ND	20	21.0	105	19.8	21.0	106	0	30	35	175
Xylenes,Total		ND	60	63	110	59	61	100	3.2	30	35	175
Surr: 1,2-Dich	nloroethane-d4	ND	49.9	48	96.2	49.5	44.0	88.9	8.70	30	64	130
Surr: 4-Bromo	ofluorobenzene	ND	49.9	50	100	49.5	51.0	103	1.98	30	62	130
Surr: Toluene	e-d8	ND	49.9	52	104	49.5	52.0	105	0	30	70	140

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

nk D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

Conoco Phillips

COP Wyatt A

Analysis: Method:	Volatile Organics by SW8260B	Method 826	DB		WorkOrder: Lab Batch ID:	08050489 78851
	Meth	od Blank		Samples in Analytica	al Batch:	
RunID: Q_0805	10D-4429764	Units:	ug/kg	Lab Sample ID	Client Sar	nple ID
Analysis Date:	05/10/2008 16:34	Analyst:	JC	08050489-16A	C13-SW-N	N

Analyte	Result	Rep Limit
Benzene	ND	5.0
Ethylbenzene	ND	5.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	86.0	64-130
Surr: 4-Bromofluorobenzene	96.0	62-130
Surr: Toluene-d8	94.0	70-140

L	aboratory Contro	ol Sample ((LCS)
Q_0805	10D-4429763	Units:	ug/kg

RunID:	Q_080510D-4429763	Units:	ug/k
Analysis Date:	05/10/2008 16:07	Analyst:	JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	22.0	110	66	142
Ethylbenzene	20.0	23.0	115	35	175
Toluene	20.0	24.0	120	59	139
m,p-Xylene	40.0	46.0	115	35	175
o-Xylene	20.0	23.0	115	35	175
Xylenes,Total	60	69	120	35	175
Surr: 1,2-Dichloroethane-d4	50.0	39	78.0	64	130
Surr: 4-Bromofluorobenzene	50.0	51	102	62	130
Surr: Toluene-d8	50.0	52	104	70	140

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-16			
RunID:	Q_080510D-4429766	Units:	ug/k	g-dry
Analysis Date:	05/10/2008 17:30	Analyst:	JC	
Preparation Date:	05/08/2008 15:46	Prep By:	JC	Method SW5030B

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt A

Analysis: Volatile Organic Method: SW8260B	s by Method 826	0B					WorkOrder: Lab Batch ID:		50489 51		
Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20.7	18.6	90.0	20.6	19.7	95.4	5.41	21	66	142
Ethylbenzene	ND	20.7	19.7	95.0	20.6	19.7	95.4	0	30	35	175
Toluene	ND	20.7	19.7	95.0	20.6	18.6	90.4	5.41	21	59	139
m,p-Xylene	ND	41.4	39.4	95.0	41.3	41.4	100	5.13	30	35	175
o-Xylene	ND	20.7	20.7	100	20.6	20.7	100	0	30	35	175
Xylenes,Total	ND	62.2	60.1	96.7	61.9	62.1	100	3.39	30	35	175
Surr: 1,2-Dichloroethane-d4	ND	51.8	41.4	80.0	51.6	48.7	94.4	16.1	30	64	130
Surr: 4-Bromofluorobenzene	ND	51.8	51.8	100	51.6	50.8	98.4	2.02	30	62	130
Surr: Toluene-d8	ND	51.8	50.8	98.0	51.6	46.6	90.4	8.51	30	70	140

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

				C	OP Wyat	t A				
Analysis: Method:	SPLP Volat SW8260B	ile Organics							Order: Batch ID:	08050489 R237059
		Method Blank				Samp	les in Analyt	tical Batch	ו:	
RunID: N_	080510C-4429933	Units:	ug/L			Lab S	ample ID		Client San	nple ID
Analysis Date	e: 05/10/2008	12:34 Analyst:	LT)489-05B		C5-Bot-14'	
, , , , , , , , , , , , , , , , , , , ,		,)489-09B		C12-Bot-9'	
						08050)489-12B		C18-Bot-6'	
					_)489-14B		C14-Bot-8'	
		nalyte		Rep Limi)489-19B		C13-Bot-12	
	Benzene Ethylbenzene		ND ND	<u>5.(</u> 5.()489-20B		C15-Bot-8'	
	Toluene		ND	5.0)489-23B		C16-Bot-8'	
	m,p-Xylene		ND	5.0	0)489-28B		C17-Bot-6'	
	o-Xylene		ND ND	<u>5.0</u> 5.0)489-29B		C19-Bot-5'	
	Xylenes,Total Surr: 1,2-Dichloroe	thane-d4	96.0	62-130)489-31B		C11-Bot-9'	
	Surr: 4-Bromofluor		92.0	70-130)489-32B		C10-Bot-8'	
	Surr: Toluene-d8		96.0	74-122	2)489-36B		C9-Bot-8'	
		Leachate Blank								
RunID:	N_080510C-4	1429934 Units:	ug/L							
Analysis Dat	e: 05/10/2008	13:00 Analyst:	LT							
		, and you								
each Date:	05/09/2008	0:00 Leach B	y: GF Me	ethod S	W1312					
	Ar	nalyte	Result F	Rep Limi	t					
	Benzene		ND	5.0	0					
	Ethylbenzene		ND	5.0						
	Toluene m,p-Xylene		ND ND	<u> </u>						
	o-Xylene		ND	5.0						
	Xylenes,Total		ND	5.0						
	Surr: 1,2-Dichloroe Surr: 4-Bromofluor		96.0 90.0	62-130 70-130						
	Surr: Toluene-d8	Oberizene	90.0	70-130						
			Lab	oratory	Control S	Sample (LO	<u>CS)</u>			
		RunID:	N_080510C	2-4429932	2 Ur	nits: ug	g/L			
		Analysis Date:	05/10/2008	8 11:57		alyst: L	-			
		Analy	te		Spike	Result	Percent Recovery	Lower Limit	Upper Limit	
		Bonzono			Added	24.0		۲6 Limit		
		Benzene			20.0	21.0	105		126	
		Ethylbenzene			20.0	16.0	80.0	67	122	
		Toluene			20.0	19.0	95.0	70	131	
		m,p-Xylene			40.0	34.0	85.0	72	150	
		o-Xylene			20.0	18.0	90.0	78	141	
Qualifiers:		Detected at the Report	-			- Matrix Inte				
	B/V - Analy	te detected in the asso	ciated Meth	od Blank		•	Unreportable			
	J - Estimate	ed value between MDL	and PQL		* -	Recovery C	Outside Advisa	able QC Li	mits	
	E - Estimat	ed Value exceeds calib	ration curve	9						
	N/C - Not C	alculated - Sample cor	centration i	is greater	r than 4 tin	nes the am	ount of spike	added. Co	ntrol limits do	o not apply.
	TNTC - To	o numerous to count								08050489 Page
QC results	presented on the QC	Summary Report have	been round	ded. RPI) and perc	ent recove	erv values			5/14/08 4:53:22

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt A

Analysis: Method:	SPLP Volatile Organics SW8260B				WorkOrder: Lab Batch ID:	08050489 R237059	
		Laboratory Cor	trol Sample	<u>e (LCS)</u>			
	RunID:	N_080510C-4429932	Units:	ug/L			
	Analysis Date:	05/10/2008 11:57	Analyst:	LT			

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Xylenes,Total	60	52	87	72	150
Surr: 1,2-Dichloroethane-d4	50.0	46	92.0	62	130
Surr: 4-Bromofluorobenzene	50.0	50	100	70	130
Surr: Toluene-d8	50.0	50	100	74	122

Matrix Spike (MS)

Sample Spiked:	08050406-01		
RunID:	N_080510C-4429936	Units:	ug/L
Analysis Date:	05/10/2008 14:45	Analyst:	LT

Analyte	Sample Result	Spike Added	MS Result	MS % Recovery	Low Limit	High Limit
Benzene	10000	200	10000	N/C	76	127
Ethylbenzene	54.0	200	230	88.0	35	175
Toluene	5500	200	5500	N/C	70	131
m,p-Xylene	210	400	550	85.0	35	175
o-Xylene	100	200	280	90.0	35	175
Xylenes,Total	310	600	830	87	35	175
Surr: 1,2-Dichloroethane-d4	ND	500	500	100	62	130
Surr: 4-Bromofluorobenzene	ND	500	500	100	70	130
Surr: Toluene-d8	ND	500	490	98.0	74	122

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips COP Wyatt A

Analysis: Method:	PERCENT MOISTURE D2216		WorkOrder: Lab Batch ID:	08050489 R236760A
		Samples in Analytic	al Batch:	
		Lab Sample ID	Client Sar	nple ID
		08050489-31B	C11-Bot-9	,
		08050489-32B	C10-Bot-8	,
		08050489-33B	C11-SW-5	8
		08050489-34B	C9-SW-S	
		08050489-35B	C9-SW-N	
		08050489-36B	C9-Bot-8'	
		08050489-37B	C10-SW-5	3

Sample Duplicate

Original Sample:	08050489-37		
RunID:	WET_080508E-4424876	Units:	wt%
Analysis Date:	05/08/2008 13:22	Analyst:	ESK

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	4.67	4.671	0	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips COP Wyatt A

Analysis:	PERCENT MOISTURE		WorkOrder:	08050489	
Method:	D2216		Lab Batch ID:	R236760B	
		Samples in Analytic	al Batch:		
		Lab Sample ID	Client Sar	nple ID	
		08050489-21B	C19-SW-\	N	
		08050489-22B	C17-SW-1	N	
		08050489-23B	C16-Bot-8	1	
		08050489-24B	C16-SW-5	8	
		08050489-25B	C16-SW-1	N	
		08050489-26B	C18-SW-5	6	
		08050489-27B	C18-SW-1	N	
		08050489-28B	C17-Bot-6	1	
		08050489-29B	C19-Bot-5	1	
		08050489-30B	C19-SW-5	5	

Sample Duplicate

Original Sample:	08050489-30		
RunID:	WET_080508E-4424884	Units:	wt%
Analysis Date:	05/08/2008 13:22	Analyst:	ESK

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	3.85	4.006	3.92	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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C13-Bot-12'

C15-Bot-8'

Conoco Phillips COP Wyatt A

		••••			
Analysis:	PERCENT MOISTURE		WorkOrder:	08050489	
Method:	D2216		Lab Batch ID:	R236760C	
		Samples in Analyti	ical Batch:		
		Lab Sample ID	Client Sar	nple ID	
		08050489-11B	C19-SW-N	1	
		08050489-12B	C18-Bot-6		
		08050489-13B	C17-SW-S	3	
		08050489-14B	C14-Bot-8		
		08050489-15B	C15-SW-N	1	
		08050489-16B	C13-SW-N	1	
		08050489-17B	C14-SW-N	1	
		08050489-18B	C15-SW-S	3	

Sample Duplicate

08050489-19B

08050489-20B

Original Sample:	08050489-20		
RunID:	WET_080508E-4424895	Units:	wt%
Analysis Date:	05/08/2008 13:22	Analyst:	ESK

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	3.5	3.515	0.363	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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C10-SW-N

Conoco Phillips COP Wyatt A

PERCENT MOISTURE		WorkOrder:	08050489	
D2216		Lab Batch ID:	R236760D	
	Samples in Analytic	al Batch:		
	Lab Sample ID	Client San	nple ID	
	08050489-01B	C14-SW-S	6	
	08050489-02B	C2-SW-N		
	08050489-03B	C3-SW-N		
	08050489-04B	C13-SW-S	5	
	08050489-05B	C5-Bot-14'		
	08050489-06B	C11-SW-N	l	
	08050489-07B	C12-SW-N	l	
	08050489-08B	C12-SW-S	5	
	08050489-09B	C12-Bot-9'		
		D2216 Samples in Analytic Lab Sample ID 08050489-01B 08050489-02B 08050489-02B 08050489-03B 08050489-04B 08050489-05B 08050489-06B 08050489-07B 08050489-08B	D2216 Lab Batch ID: Samples in Analytical Batch: Lab Sample ID Client Sam 08050489-01B C14-SW-S 08050489-02B C2-SW-N 08050489-03B C3-SW-N 08050489-04B C13-SW-S 08050489-05B C5-Bot-14' 08050489-06B C11-SW-N 08050489-07B C12-SW-N 08050489-08B C12-SW-N	D2216 Lab Batch ID: R236760D Samples in Analytical Batch: Lab Sample ID Client Sample ID 08050489-01B C14-SW-S 08050489-02B C2-SW-N 08050489-03B C3-SW-N 08050489-04B C13-SW-S 08050489-05B C5-Bot-14' 08050489-06B C11-SW-N 08050489-07B C12-SW-N 08050489-08B C12-SW-S

Sample Duplicate

08050489-10B

Original Sample:	08050489-10		
RunID:	WET_080508E-4424906	Units:	wt%
Analysis Date:	05/08/2008 13:22	Analyst:	ESK

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	11.3	11.26	0.664	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

 $\ensuremath{\mathsf{B/V}}\xspace$ - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt A

Analysis: Method:	lon Chromatography E300.0 MOD	,				WorkOrder: Lab Batch ID:	08050489 R236985F
	Meth	od Blank		Sa	mples in Analyti	cal Batch:	
RunID: IC1_080	0509D-4428746	Units:	mg/kg	La	b Sample ID	Client San	nple ID
Analysis Date:	05/09/2008 21:44	Analyst:	A_E	08	050489-01B	C14-SW-S	
				08	050489-02B	C2-SW-N	
				08	050489-03B	C3-SW-N	
	A		Deve It Deve Linet	08	050489-04B	C13-SW-S	;
Chi	Analyte		Result Rep Limit ND 5.0	08	050489-05B	C5-Bot-14'	
Chic	Shae		ND 5.0	08	050489-06B	C11-SW-N	l
				08	050489-07B	C12-SW-N	l
				08	050489-08B	C12-SW-S	5
				08	050489-09B	C12-Bot-9'	
				08	050489-10B	C10-SW-N	1
			Laboratory Con	trol Sample	(LCS)		
	RunID: Analysi		IC1_080509D-4428747 05/09/2008 22:00	Units: Analyst:	mg/kg A_E		

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	100.0	94.08	94.08	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-02		
RunID:	IC1_080509D-4428752	Units:	mg/kg-dry
Analysis Date:	05/09/2008 23:23	Analyst:	A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	92.61	223.2	290.7	88.75	223.2	287.6	87.36	1.073	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt A

Analysis: Method:	lon Chromatography E300.0 MOD				WorkOrder: Lab Batch ID:	08050489 R236985G
-	Metho	od Blank		Samples in Analyti	cal Batch:	
RunID: IC1_080	509D-4428764	Units:	mg/kg	Lab Sample ID	Client Sar	nple ID
Analysis Date:	05/10/2008 2:40	Analyst:	A_E	08050489-11B	C19-SW-N	1
-		-		08050489-12B	C18-Bot-6	
				08050489-13B	C17-SW-S	6
	A		Develo Development	08050489-14B	C14-Bot-8	
Chia	Analyte		Result Rep Limit	08050489-15B	C15-SW-N	1
Chlo	inde		ND 5.0	08050489-16B	C13-SW-N	l
				08050489-17B	C14-SW-N	l
				08050489-18B	C15-SW-S	6
				08050489-19B	C13-Bot-12	2'
				08050489-20B	C15-Bot-8	
			Laboratory Contro	I Sample (LCS)		

RunID:	IC1_080509D-4428765	Units:	mg/kg
Analysis Date:	05/10/2008 2:56	Analyst:	A_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	100.0	93.90	93.90	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-15		
RunID:	IC1_080509D-4428771	Units:	mg/kg-dry
Analysis Date:	05/10/2008 4:35	Analyst:	A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	255.0	417.1	650.1	94.72	417.1	650.2	94.75	0.01604	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unrep

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt A

Analysis: Method:	lon Chromatograph E300.0 MOD	у							Order: Batch ID:	0805048 R23721		
	Met	hod Blank				Samp	les in Analy	tical Batch	n:			
RunID: IC1_08	0510A-4432603	Units:	mg/kg			Lab S	ample ID		Client Sa	ample ID		
Analysis Date:	05/10/2008 11:53	Analyst:	A_E)489-21B		C19-SW-	-W		
-		-				08050)489-22B		C17-SW-	-N		
						08050)489-23B		C16-Bot-	8'		
	Analista		Decult	Denlimi	•	08050)489-24B		C16-SW-	-S		
Chi	Analyte		Result N	Rep Limi		08050)489-25B		C16-SW-	N		
Chi	onde		INL	5 5.0	5	08050)489-26B		C18-SW-	-S		
						08050)489-27B		C18-SW-	-N		
						08050)489-28B		C17-Bot-	6'		
		Analy	te		Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit			
	Chloride				100.0	90.55	90.55		120			
	Chionae	M - 4 - 1-1	· Cuilte //					00	120			
		<u>iviatrix</u>	spike (I	MS) / Matr	IX SPIKE L	uplicate	<u>(IVI SD)</u>					
		ple Spiked:	08050	489-28								
	Run	ID:	IC1_08	0510A-4432	2615 L	Inits:	mg/kg-dry					
	Anal	ysis Date:	05/10/	2008 15:1	1 A	nalyst:	A_E					
	Analyte	Sample	MS	MS	MS	% MS	D MSD	D MSI		RPD RPI	D Low	High

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	148.6	107.7	267.3	110.2	107.7	267.3	110.2	0.02417	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Reco

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt A

Analysis: Method:	lon Chromatography E300.0 MOD	,			WorkOrder: Lab Batch ID:	08050489 R237291
	Meth	od Blank		Samples in Analytic	al Batch:	
RunID: IC1_080	0512A-4433819	Units:	mg/kg	Lab Sample ID	Client Sar	nple ID
Analysis Date:	05/12/2008 20:02	Analyst:	A_E	08050489-29B	C19-Bot-5	-
				08050489-30B	C19-SW-5	
				08050489-31B	C11-Bot-9	
	A seals to		Desult Des Limit	08050489-32B	C10-Bot-8	
Chi	Analyte		Result Rep Limit	08050489-33B	C11-SW-S	6
Crit	Jude		ND 5.0	08050489-34B	C9-SW-S	
				08050489-35B	C9-SW-N	
				08050489-36B	C9-Bot-8'	
				08050489-37B	C10-SW-S	6

Laboratory Control Sample (LCS)

RunID:	IC1_080512A-4433820	Units:	mg/kg
Analysis Date:	05/12/2008 20:18	Analyst:	A_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	100.0	100.6	100.6	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-37		
RunID:	IC1_080512A-4433834	Units:	mg/kg-dry
Analysis Date:	05/13/2008 0:08	Analyst:	A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	171.0	419.6	579.9	97.44	419.6	594.5	100.9	2.487	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unrepe

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution
 * - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

pration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Conoco Phillips

COP Wyatt A

Method:	Ion Chromatograph SW9056	y - SPLP						WorkOrder Lab Batch I		050489 37293S		
	Me	thod Blank			5	Samples	in Analytical	Batch:				
RunID: IC1_080	0512B-4433887	Units:	mg/L		L	.ab Samp	ole ID	Clien	t Sample II	D		
Analysis Date:	05/13/2008 0:41	Analyst:	A_E			8050489			ot-14'			
					C	8050489	-09B	C12-	Bot-9'			
					C	8050489	-12B	C18-	Bot-6'			
	Analyte		Result Re	əp Limit		8050489			Bot-8'			
Chle	oride		ND	0.50		8050489			Bot-8'			
)8050489)8050489			Bot-8' Bot-5'			
					L L	00000409	-290	019-	DUI-0			
	Lead	hate Blank										
RunID:	IC1_080512B-4433888	Units:	mg/L									
Analysis Date:	05/13/2008 0:58	Analyst:	A_E									
	00, 10, 2000 0100	, manyou										
Leach Date:	05/09/2008 0:00	Leach By	: GF Meth	nod SW13	312							
	Analyte		Result Re	ep Limit								
Chle	oride		ND	0.50								
			Labor	ratory Co	ntrol Samp	<u>le (LCS)</u>						
		Analyte	9		pike Res dded			wer Uppe mit Limit				
	Chloride				10.00 1	0.33	103.3	85 1	15			
		Matrix	Spike (MS)	/ Matrix S	Spike Duplic	cate (MS	<u>D)</u>					
	Sar				Spike Dupli	cate (MS	<u>D)</u>					
	San Run	ple Spiked:	Spike (MS) 08050489- IC1_080512	-05								
	Run	ple Spiked:	08050489-	-05 2B-4433891		mg/l	_					
	Run	iple Spiked: ID:	08050489- IC1_080512	-05 2B-4433891	Units:	mg/l	_					
	Run	iple Spiked: ID:	08050489 IC1_080512 05/13/2008	-05 2B-4433891 8 1:47	I Units: Analys	mg/l st: A_E	-					
	Run	nple Spiked: ID: lysis Date: Sample	08050489- IC1_080512 05/13/2008	-05 2B-4433891 8 1:47 MS	Units: Analys MS %	mg/l st: A_E MSD	- MSD	MSD %	RPD	RPD	Low	-
,	Run Ana	nple Spiked: ID: lysis Date:	08050489- IC1_080512 05/13/2008	-05 2B-4433891 8 1:47	I Units: Analys	mg/l st: A_E	-	MSD % Recovery	RPD	RPD Limit		-
	Run Ana	nple Spiked: ID: lysis Date: Sample Result	08050489- IC1_080512 05/13/2008 MS Spike I Added	-05 2B-4433891 8 1:47 MS Result	Units: Analys MS % Recovery	mg/l st: A_E MSD Spike Added	MSD Result	Recovery		Limit	Limit	Limi
	Run Ana	nple Spiked: ID: lysis Date: Sample	08050489- IC1_080512 05/13/2008 MS Spike	-05 2B-4433891 8 1:47 MS	Units: Analys MS %	mg/l st: A_E MSD Spike	- MSD		RPD 6.743	Limit	Limit	High Limit
Chloride	Run Ana	nple Spiked: ID: Iysis Date: Sample Result 7.175	08050489- IC1_080512 05/13/2008 MS Spike Added 10	-05 2B-4433891 8 1:47 MS Result	MS % Recovery	mg/l st: A_E MSD Spike Added 10	MSD Result 16.65	Recovery		Limit	Limit	Limi
	Run Analyte ND/U - Not Detected	nple Spiked: ID: Iysis Date: Sample Result 7.175	08050489- IC1_080512 05/13/2008 MS Spike I Added 10 ng Limit	-05 2B-4433891 8 1:47 MS Result 17.81	MS % Recovery 106.4	mg/l st: A_E MSD Spike Added 10	MSD Result 16.65 ence	Recovery 94.77		Limit	Limit	Limi
Chloride	Run Ana	aple Spiked: ID: Iysis Date: Sample Result 7.175 d at the Reporti ed in the assoc	08050489- IC1_080512 05/13/2008 MS Spike I Added 10 ng Limit iated Methoo	-05 2B-4433891 8 1:47 MS Result 17.81	MS % Recovery 106.4 MI - Matr D - Reco	mg/l st: A_E MSD Spike Added 10	MSD Result 16.65 ence eportable due	Recovery 94.77		Limit	Limit	Limi
Chloride	Run Analyte ND/U - Not Detected B/V - Analyte detect	aple Spiked: ID: IVsis Date: Sample Result 7.175 d at the Reporti ed in the assoc between MDL a	08050489- IC1_080512 05/13/2008 MS Spike I Added 10 ng Limit iated Methoo and PQL	-05 2B-4433891 8 1:47 MS Result 17.81	MS % Recovery 106.4 MI - Matr D - Reco	mg/l st: A_E MSD Spike Added 10	MSD Result 16.65 ence	Recovery 94.77		Limit	Limit	Limi

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Released to Imaging: 1/26/2022 11:49:49 AM



Conoco Phillips

COP Wyatt A

Analysis: Method:	Ion Chromatography SW9056	- SPLP					WorkOrder: Lab Batch ID:	08050489 R237442
	Meth	od Blank			Sa	amples in Analyt	tical Batch:	
RunID: IC1_080	0513A-4436206	Units:	mg/L		La	ab Sample ID	Client San	nple ID
Analysis Date:	05/13/2008 15:57	Analyst:	A_E			8050489-19B	C13-Bot-12	
					08	8050489-28B	C17-Bot-6'	
					08	8050489-31B	C11-Bot-9'	
	Analyta		Decult	Don Limit	80	8050489-32B	C10-Bot-8'	
Chl	Analyte		Result ND	Rep Limit	30	8050489-36B	C9-Bot-8'	
Chi				0.50				
	Leach	ate Blank						
RunID:	IC1_080513A-4436207	Units:	mg/L					
Analysis Date:	05/13/2008 16:13	Analyst:	A_E					
Leach Date:	05/09/2008 0:00	Leach By	y:GFI	Method SW13	12			
	Analyte		Result	Rep Limit				
Chlo	oride		ND					
			<u>La</u>	aboratory Con	trol Sample	<u>e (LCS)</u>		
	RunID:		IC1_0805	13A-4436208	Units:	mg/L		
	Analysis	s Date:	05/13/20	08 16:29	Analyst:	A_E		

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	10.00	10.61	106.1	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-28		
RunID:	IC1_080513A-4436212	Units:	mg/L
Analysis Date:	05/13/2008 17:35	Analyst:	A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	45.27	40	87.22	104.9	40	97.88	131.5 *	11.52	20	80	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Sample Receipt Checklist And Chain of Custody

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HOUSTON LABORATORY

8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Sample Receipt Checklist

Wo	rkorder:	08050489		Received By:	RE
Dat	e and Time Received:	5/7/08 10:00:00 AM		Carrier name:	SPL
Ten	nperature:	2.5°C		Chilled by:	Water Ice
1.	Shipping container/co	oler in good condition?	Yes 🗹	No 🗌	Not Present
2.	Custody seals intact o	n shippping container/cooler?	Yes 🔽	No 🗌	Not Present
3.	Custody seals intact o	n sample bottles?	Yes	No 🗌	Not Present
4.	Chain of custody pres	ent?	Yes 🔽	No 🗌	
5.	Chain of custody sign	ed when relinquished and received?	Yes 🔽	No 🗌	
6.	1.Client did not mark a	es with sample labels? analysis on page 4 of chain of custody. 2. p Blanks not listed on chain.	Yes 🗌	No 🗹	
7.	Samples in proper cor	ntainer/bottle?	Yes 🗹	No 🗌	
8.	Sample containers int	act?	Yes 🔽	No 🗌	
9.	Sufficient sample volu	me for indicated test?	Yes 🗹	No 🗌	
10.	All samples received v	vithin holding time?	Yes 🔽	No 🗌	
11.	Container/Temp Blank	temperature in compliance?	Yes 🗹	No 🗌	
12.	Water - VOA vials have	e zero headspace?	Yes		Vials Not Present
13.	Water - Preservation of	hecked upon receipt (except VOA*)?	Yes	No 🗌	Not Applicable
	*VOA Preservation Ch	ecked After Sample Analysis			
	SPL Representativ	/e: Agarwal, Bethany A.	Contact Date &	& Time: 5/13/08 8:42:0	00 AM
	Client Name Contacte	ed: Charlie Durrett			
	Non Conformance Issues:				
1	Client Instructions: Re day	vised chain at SPL per cleint instructions vi /s.	a phone call. Do not a	nalyze the trip blanks p	er clietn request. TAT needed is 7

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	ou by: 🗸	/ -	dau		tinu			Received	by:						
5. Refinquish	ed by:			/				1.		-	1				
4 8880 Interchange Drive			- 67	108		200	6.1	TX	WF Cal	NUT	(
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Traverse City MI 49686 (231) 947-5777

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	17963
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	None	1/26/2022

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