

TETRATECH, INC.

August 11, 2008

Ms. Sherry Bonham NM Oil Conservation Division 1301 W. Grand Ave. Artesia, NM 882310 Mr. Paul Evans US Bureau of Land Management 620 E. Greene St. Carlsbad, NM 88220

RE:

Loco Hills Truck Loading Station Findings Report

Eddy County, New Mexico Sec. 29, T17S, R30E Tetra Tech Project No.8640024 2RP-154

Dear Ms. Bonham and Mr. Evans:

On behalf of ConocoPhillips Pipe Line Company (CPPL), Tetra Tech, Inc. (Tetra Tech) is pleased to submit this findings report describing remediation activities at CPPL's Loco Hills Truck Loading Station (Site; Figure 1). This work was performed in support of CPPL's efforts to delineate and remediate a recent 95 barrel crude oil release at the Site (C141 attached). The Site is located approximately 1 mile southwest of Loco Hills in Eddy County, New Mexico (32° 48.49098N, 103° 59.598W). The Bureau of Land Management is the land administrator.

The Site is located immediately north of the western portion of the Delaware Basin. The area is underlain by Guadalupian age formations, which contains a thick sequence of sandstones, shales, siltstone, and evaporites¹. In the immediate vicinity of the Site, topography is nearly level to moderately undulating. The Kermit-Berino soil complex at the Site is loamy fine sand overlying fractured indurated caliche. ²

Exposure Pathway Analysis

Depth to water in the vicinity of the Site is estimated at over 100 feet below ground surface (fbgs). This interpretation is based potentiometric surface contours (330 fbgs) described by Hiss¹ for aquifer systems in northern Eddy County. The New Mexico Office of State Engineer's database and the United States Geological Survey's database^{3,4} did not yield any depth to groundwater information in this area. The U.S. Geological Survey, 1955 topographic map, 1:24,000 scale, entitled "Red Lake SE New Mexico" identifies a windmill approximately 4.6 miles

Hiss. W.L.1980. Movement of Ground Water in Permian Guadalupian Aquifer Systems, Southeastern New Mexico and Western Texas. In New Mexico Geological Society 31st Field Conference publication entitled "Trans-Pecos Region Southeastern New Mexico and West Texas." Pp 289 – 294.

² U.S. Department of Agriculture, Natural Resources Conservation Services. Webb 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.

northwest of the Site. No information is available on the depth of water at this location. The nearest surface water body is a playa, located approximately 800 feet west 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 (OCD), this Site has the following score:

<u>Criteria</u>		Ranking <u>Score</u>
Depth to groundwater	>100 feet	0
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		10

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 1,000 ppm for total petroleum hydrocarbons (TPH).

Scope of Work

Approximately 2,400 cubic yards of oily soil was excavated in the affected area (Figure 2) and placed on 20-mil plastic. Soil samples were collected from the base of the excavation and three side walls (north, west and south). The east side extended into the pump area and this area was excavated by hand. The samples 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 diesel and gasoline range TPH (TPHDRO and TPHGRO, Method 8015B), and BTEX (Method 8021) and BTEX toxic characteristic leaching procedure analysis (TCLP, Method 1311/8260B).

For disposal purposes, aliquot samples were collected from two oily soil piles and composited into 6 samples. These samples 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 TPHDRO and TPHGRO (Method 8015B), and BTEX TCLP analysis (Method 1311/8260B). Since concentrations of TPH and BTEX were higher in the smaller oily soil pile the sample from this pile was also analyzed for hazardous characteristics corrosivity (Method SW9045D), reactivity (Methods SW 7.3.3.2 and 7.3.4.2), and metals (mercury, and arsenic barium, cadmium, chromium, lead, selenium and silver; Methods SW 7471A and 6020A, respectively), TCLP analysis for the metals was also performed (Method 1311/SW 7470A and /SW 6010B). All samples from both oily piles were combined and analyzed for ignitability (Method ASTM D92-01).

Findings

Excavations advanced during the investigation at the Site encountered reddish sandy dune soil. Summaries of subsurface soil conditions are presented in Table 1. A complete analytical report is presented in the Appendix.



Ms. Bonham and Mr. Evans August 11, 2008 Page 3

Confirmation sample laboratory analyses indicate the remaining soils in the excavation are below OCD remediation standards (Table 1).

Table 1 ConocoPhillips Pipe Line Company

Loco Hills Truck Loading Station **Excavation Confirmation Analyses** 5/29/2008

			Total Pet	roleum Hyd	ure Volatile	ure Volatile Organics (8021B/1311)				
Location	Moisture (%)	Chloride (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	Total (mg/Kg)	Benzene (mg/Kg)	Ethyl- benzene (mg/Kg)	Toluene (mg/Kg)	Xylenes Total (mg/Kg)	Total BTEX (mg/Kg)
SW-N	2 43	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-S	3.75	ND	ND	ND	ND	ND	0.042	0.029	0.090	0.161
SW-W	4 63	11 2	ND	6 10	6.10	ND	ND	ND	ND	ND
Bottom (D-15)	10 2	30.9	ND	ND	ND	ND	ND	ND	ND	ND

mg/Kg = Milligrams per kilogram

ND = Not detected at or above laboratory detection level

GRO = Gasoline range petroleum hydrocarbons

DRO = Diesel range petroleum hydrocarbons

The environmental conditions of two oily soil stockpiles are presented in Tables 2 and 3. TPH concentrations ranged from 1,301.9 to 4,297 milligrams per kilogram (mg/Kg). concentrations were not detected in any of the samples collected. Total BTEX ranged from nondetect to 0.16 milligrams per liter (mg/L).

Table 2 ConocoPhillips Pipe Line Company

Loco Hills Truck Loading Station **Excavated Soils Analyses** 7/01/2008

	Total Pe	troleum Hyd	drocarbons	Tox	cic Charact	teristic Leaching Procedure			
Location	GRO (mg/Kg)	DRO (mg/Kg)	Total (mg/Kg)	Benzene (mg/L)	Ethyl- benzene (mg/L)	Toluene (mg/L)	Xylenes Total (mg/L)	Total BTEX (mg/L)	
E-SIDE	2.2	1,500	1,502.2	ND	ND	ND	ND	ND	
TOP	190.0	3,000	3,190.0	ND	0.04	0.03	0.09	0.16	
N-SIDE	8.4	3,600	3,608.4	ND	ND	ND	0.01	0.01	
S-SIDE	1.9	1,300	1,301.9	ND	ND	ND	ND	ND	
W-SIDE	26 0	4,100	4,126.0	ND	0.01	0.04	0.03	0.08	
SMALL PILE	97.0	4,200	4,297.0	ND	0.04	0.04	0 07	0.15	

ft = Feet

mg/Kg = Milligrams per kilogram

mg/L = Milligrams per liter

Toxic Characteristic Leaching Procedure, 40 CFR §261.24.

GRO = Gasoline range petroleum hydrocarbons

DRO = Diesel range petroleum hydrocarbons

ND = Not detected at or above laboratory detection leve



Table 3 ConocoPhillips Pipe Line Company

Loco Hills Truck Loading Station Excavated Soils Hazardous Characterization Analyses 7/01/2008

Constituent	Units	Result	Limits						
Total Petroleum I	lydrocarbo	ns							
GRO	mg/Kg	97							
DRO	mg/Kg	4,200							
Total	mg/Kg	4,297	1,000						
Toxic Characteris	tic Leachin	g Procedure (TCLP)						
Benzene	mg/L	ND	0.5						
Ethylbenzene	mg/L	0.04							
Toluene	mg/L	0.039							
Xylenes Total	mg/L	0.065							
Total BTEX	mg/L	0.144							
TCLP RCRA 8 Metals									
Arsenic	mg/L	ND	5.0						
Barium	mg/L	1.2	100.0						
Cadmium	mg/L	ND	1.0						
Chromium	mg/L	ND	5.0						
Lead	mg/L	ND	5.0						
Mercury	mg/L	ND	0.2						
Selenium	mg/L	ND	1.0						
Silver	mg/L	ND	5.0						
Reactivity									
Cyanate	mg/Kg	ND	Reacts with Water						
Sulfate	mg/Kg	ND	Reacts with Water						
Ignitability	°F	>212	<140						
Corrosivity	pH units	7.5	< 2 or > 12.5						

TCLP = Toxic Characteristic Leaching Procedure, 40 CFR §261.24.

RCRA = Resource Conservation and Recovery Act

mg/Kg = Milligrams per kilogram

mg/L = Milligrams per liter

° F = Degrees Fahrenheit

ND = Not detected at or above laboratory detection level

Conclusions

Exposure pathway analysis indicated a ranking score of "10." Therefore, the site-specific remediation levels are 1,000 mg/Kg for TPH, 50 mg/Kg for BTEX and 10 mg/Kg for benzene. Based on laboratory analyses presented in Table 1, the soil remaining in the excavation is below the OCD action level for TPH and benzene. Hazardous characteristic analyses (Table 3) indicated all constituents examined were below action levels. Laboratory analyses indicate these soils can be safety hauled to and disposed of at a State approved disposal location.

Recommendations

Tetra Tech recommends the following actions be taken at the Loco Hills Site:

- Both piles of excavated soil will be combined and hauled to a State approved disposal location for disposal.
- Backfill will be returned to the excavation and adjacent soil will be used to cover the backfill.
- BLM seed mix # 2 will be applied and soil will be back dragged over the seed.
- 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 OCD's review and ultimate closure of this voluntary remediation.

If you concur with these recommendations, ConocoPhillips has authorized Tetra Tech to complete this work immediately following receipt of your notification to proceed. Please contact me (432-686-8081) or Mr. Thomas Lacki (ConocoPhillips, 432-368-1315), if you have any questions or require additional information.

Sincerely,

Tetra Tech, Inc.

Digitally signed by Charles Durrett
DN: CN = Charles Durrett, C = US, O = Tetra Tech
Date 2008 08.11 11 00 24 -05'00'

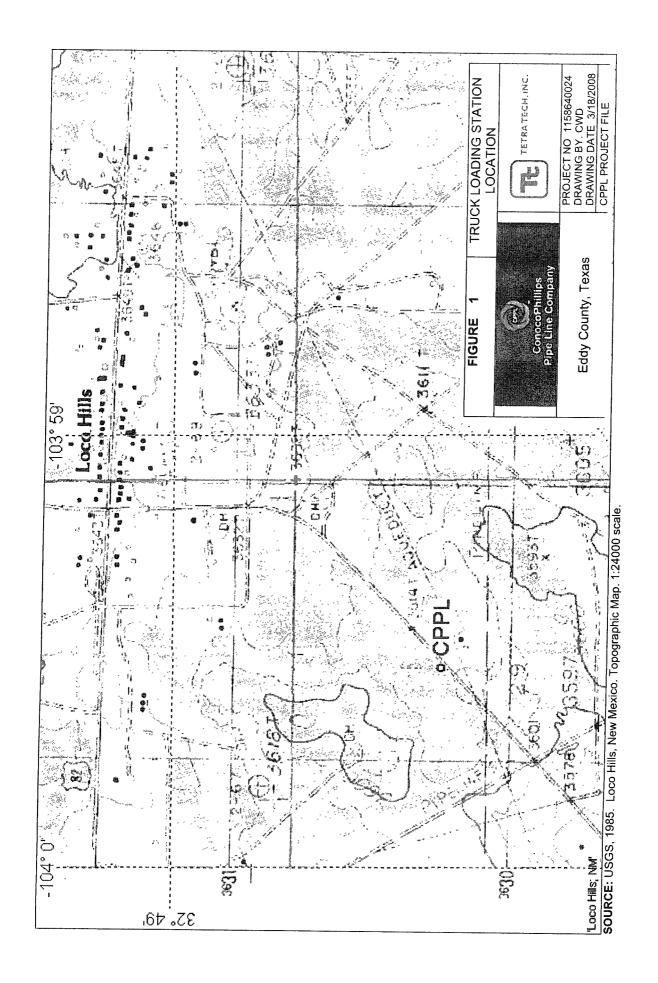
Charles Durrett Project Manager

Attachments:

Figure

Form C-141 Release Notification and Corrective Action

Appendix: Laboratory Analytical Reports



<u>District 1</u> 1625 N French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue. Artesia. NM 88210
District III 1000 Rio Brazos Road, Aztec, NM 87410

State of New Mexico Energy Minerals and Natural Resources 17 2008

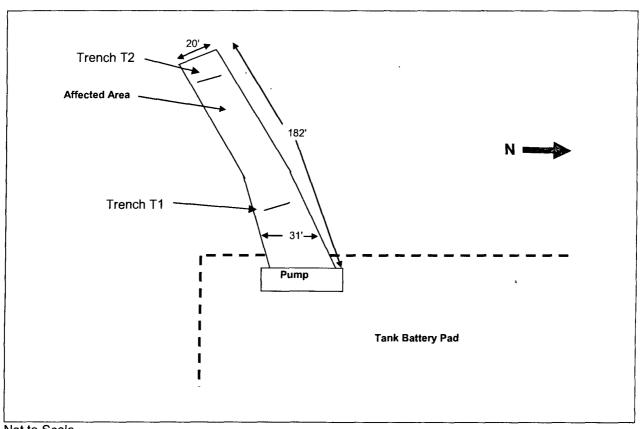
Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Form C-141

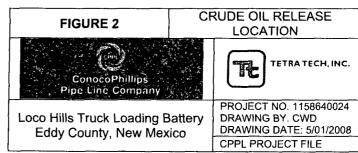
Revised October 10, 2003

Oil Conservation Division OCD-ARTESIA 1220 South St. Francis Dr. District IV 1220 S. St. Francis Dr. Santa Fe, NM 87505 Canta Ea NIM 97505

			* **	S	ama i	e, NIVI 8/	503					
JEB 08044	133180		Rele	ease Notific	catio	n and Co	orrective A	ction				
n Sed Dag	943303			25899	35	OPERA	TOR			ial Report	П	Final Repor
			lips pipe I	ine Company	1	Contact - K			2			
Address - 4	1001 East 4	12 nd Street -	Odessa.	Tx. 79762			No. – 575/391-8	262				
Facility Na							e – Sour Crude		ction site			
				Mineral (Vo. NM 10	10/7	
Surface Ow Interior, Bu				Millerar	JWHEI	·			Lease	NO. INIVI IC	1807	
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		NSouth Line	Feet from the	East/W	est Line	County		
D	29	17S	30E	130 feet	Nortl	nwest	160 feet	West		Eddy		
<u> </u>			1							,		
	LatitudeN32 48.491_ LongitudeW103 59.598 NATURE OF RELEASE											
Type of Rele	ace - Crade	oil		IVAI	UNE		Release – 97 bbls	,	Volume I	Recovered -		
Source of Re			on pulsation	n dampner			lour of Occurrence					- 02/27/08 -
						02/27/08 -	04:50 to 05:17 Pl		05:17 PM			02/2//00
Was Immedia	ate Notice G		,	M. [] M. D		If YES, To				· · · · · · · · · · · · · · · · · · ·	an n	
77.07				No Not Re			control center, N					
By Whom? K contacted the		contacted the	control cer	nter and Thomas	Lacki		our: NMOCD wa m. respectively. (I					
Was a Water		hed?					lume Impacting th			ione reach u	III O I	0 p.m)
			Yes 🏻	No		NA NA	tumo nipuoting ti				,	
If a Watercou	rse was Imp	acted, Descri	be Fully.*									
NA Describe Caus A bolt sheared to pull crude f	l off of a cla	mp holding a	n end cap o	on a suction puls	ation da	ampner for a P	D pump resulting Station The relea	in a fant	ail spray o	of crude oil.	The plours.	ump is used
of way out on to no oil was r extent of the c submitted to y I hereby certify regulations all public health o should their op	Describe Area Affected and Cleanup Action Taken * The impact area is approximately 20 feet wide by 125 feet long and extends from the pipe line right of way out on to land owned by the Bureau of Land Management. Vacuum trucks were dispatched to the location; however, due to the dry sandy soil little to no oil was reclaimed. ConocoPhillips is currently working with TetraTech to develop a sampling plan to delineate the extent of the release. Once the extent of the contamination is known, a remediation plan will be developed to address the issues. Both the sampling and remediation plans will be submitted to your office for approval prior to implementation. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other.											
Signature: OIL CONSERVATION DIVISION												
Printed Name: Thomas Lacki Approved by District Supervisor: TGum by Sb												
Title Environn	nental Coord	dinator			A	Approval Date.	4-2-08	- 1	piration D			
E-mail Address	s: thomas.lac	cki@conocop	hillips con	1		Conditions of A	Approval: REMI	EDIAT	TION	Attached	4	
Date 3/12/0		Phone	: (432) 368	3-1315		WORK	Approval: NEMI Plan Du	ie 5	1-2-19	X	_	1



Not to Scale



APPENDIX Laboratory Analyses

Report 08070257
TPH_{DRO-GRO}
TCLP Volatile Organics
Corrosivity
Total Metals
Reactivity

Report 08071643 TCLP Metals

Report 08080253 Ignitability



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

Conoco Phillips

Certificate of Analysis Number:

08070257

Project Name:

CPPL Loco Hills

Tetra Tech

Site:

Loco Hills, NM

Charlie Durrett

Site Address:

1703 W Industrial Avenue

PO Number:

WO#4509610900

Midland TX

Report To:

State:

New Mexico

TX 79701-

.

State Cert. No.:

Date Reported:

7/21/2008

ph: (432) 686-8081

fax:

Date Re

This Report Contains A Total Of 26 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments



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

Case Narrative for: **Conoco Phillips**

Certificate of Analysis Number:

08070257

Report To:

CPPL Loco Hills Project Name:

Site: Loco Hills, NM

Charlie Durrett

Tetra Tech

1703 W Industrial Avenue

Site Address:

PO Number:

WO#4509610900

Midland

TX

State:

New Mexico

79701ph: (432) 686-8081 State Cert. No.:

Date Reported: 7/21/2008

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 Purgeable Aromatics by SW846 Method 8021B 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

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

08070257 Page 1

7/21/2008

Date



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

Conoco Phillips

Certificate of Analysis Number:

08070257

Report To:

Tetra Tech

Charlie Durrett

1703 W Industrial Avenue

Midland

TX 79701-

ph: (432) 686-8081

fax: (432) 686-8085

Project Name:

CPPL Loco Hilis

Loco Hills, NM

Site Address:

PO Number:

Site:

WO#4509610900

State:

New Mexico

State Cert. No.:

Date Reported: 7

7/21/2008

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
ESIDE	08070257-01	Soil	7/1/2008 10.30 ⁻ 00 AM	7/3/2008 9:30 00 AM	278382	
TOP	08070257-02	Soil	7/1/2008 10:35:00 AM	7/3/2008 9.30:00 AM	278382	
N SIDE	08070257-03	Soil	7/1/2008 10:40:00 AM	7/3/2008 9:30 ⁻ 00 AM	278382	
SSIDE	08070257-04	Soil	7/1/2008 10:45·00 AM	7/3/2008 9·30·00 AM	278382	
W-SIDE	08070257-05	Soil	7/1/2008 10:50:00 AM	7/3/2008 9.30 00 AM	278382	
SMALL PILE	08070257-06	Soil	7/1/2008 10:55:00 AM	7/3/2008 9:30·00 AM	278382	

Bethany A. Agarwal Semor Project Manager 7/21/2008

Date

Richard R. Reed Laboratory Director

Ted Yen
Quality Assurance Officer



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

Client Sample ID: E-SIDE Collected: 07/01/2008 10:30 SPL Sample ID: 08070257-01

Client Sample ID:E-S	IDE			Co	nectea:	07/01/20	00 10:3	SPL Sa	mpie	טוט: טוט:	/025/-01
				Si	te: Lo	oco Hills	, NM				
Analyses/Method	F	Result	QUAL	R	ep.Limit		Dil. Fac	ctor Date An	alyzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS					MCI	L	SW8015B	Uı	nits: mg/k	g-dry
Diesel Range Organics (C10-C28)	1500			100		20	07/08/08	3 11:26	NW	. 4553589
Surr: n-Pentacosane		D	*	%	20-154		20	07/08/08	3 11.26	NW	4553589
Prep Method	Prep Date		Prep Initials	Pre	o Factor						
SW3550B	07/05/2008 15 20		QMT	1.00)						
GASOLINE RANGE O	RGANICS					MCI		SW8015B	Ur	nits: mg/k	g-dry
Gasoline Range Organic	S	2.2			0 52		1	07/05/08	21.16	NMa	4550431
Surr: 1,4-Dıfluorobenze	ene	104		%	63-142		1	07/05/08	21:16	NMa	4550431
Surr 4-Bromofluorobe	nzene	142		%	50-159		1	07/05/08	21 16	NMa	4550431
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	07/04/2008 16 48		XML	5 00							
PERCENT MOISTURE						MCI	-	D2216	Ur	nits: wt%	
Percent Moisture		3.28			0		1	07/03/08	18.27	ESK	4545380
TCLP VOLATILE ORG	ANICS					MCL	•	SW8260B	Ur	nits: ug/L	
Benzene		ND			5	500	1	07/06/08	10:01	LT	4548860
Ethylbenzene		ND			5		1	07/06/08	10.01	LT	4548860
Toluene		ND			5		1	07/06/08	10.01	LT	4548860
m,p-Xylene		ND			5		1	07/06/08	10 01	LT	4548860
o-Xylene		ND			5		1	07/06/08	10:01	LT	4548860
Xylenes,Total		ND			5		1	07/06/08	10.01	LT	4548860
Surr: 1,2-Dichloroethan	ne-d4	92.0		%	62-130		1	07/06/08	10 01	LT	4548860
Surr: 4-Bromofluorober	nzene	104		%	70-130		1	07/06/08	10.01	LT	4548860
Surr Toluene-d8		100		%	74-122		1	07/06/08	10:01	LT	4548860

Leach Method	Leachate Date	Leach Initials
SW 1311	07/04/2008	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

08070257 Page 3 7/21/2008 1 19 49 PM



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

Client Sample ID: TOP Collected: 07/01/2008 10.35 SPL Sample ID: 08070257-02

			Sit	e: Loc	o Hills, NM					
Analyses/Method	Result	QUAL	R	ep.Limit	Dil. Fa	actor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	SV	V8015B	Un	nits: mg/kg	g-dry
Diesel Range Organics (C10-C28)	3000			200	4	0	07/08/08	13:10	NW	4553593
Surr n-Pentacosane	D	*	%	20-154	41	0	07/08/08	13.10	NW	4553593

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	07/05/2008 15 20	QMT	1 00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/	kg-dry
Gasoline Range Organics	190		10	100	07/05/08 2	23.41 NMa	4552004
Surr 1,4-Difluorobenzene	104	%	63-142	100	07/05/08 2	23.41 NMa	4552004
Surr: 4-Bromofluorobenzene	145	%	50-159	100	07/05/08 2	23 41 NMa	4552004

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	07/04/2008 17:06	XML	1.00

PERCENT MOISTURE				MCL		D2216	Unit	s: wt%	
Percent Moisture	0.693		0		1	07/03/08	18.27 E	SK	4545379
TCLP VOLATILE ORGANICS				MCL		SW8260B	Unit	s: ug/L	
Benzene	ND		5	500	1	07/06/08	9 [.] 35 L	.T	4548859
Ethylbenzene	41		5		1	07/06/08	9.35 L	.T	4548859
Toluene	30		5		1	07/06/08	9 [.] 35 L	.T	4548859
m,p-Xylene	58		5		1	07/06/08	9:35 L	т.	4548859
o-Xylene	35		5		1	07/06/08	9:35 L	T	4548859
Xylenes,Total	93		5		1	07/06/08	9 [.] 35 L	т.	4548859
Surr: 1,2-Dichloroethane-d4	100	%	62-130		1	07/06/08	9:35 L	T	4548859
Surr: 4-Bromofluorobenzene	106	%	70-130		1	07/06/08	9 [.] 35 L	T	4548859
Surr: Toluene-d8	98.0	%	74-122	***************************************	1	07/06/08	9.35 L	T	4548859

Leach Method	Leachate Date	Leach Initials
SW 1311	07/04/2008	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

08070257 Page 4 7/21/2008 1 19 49 PM



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

Client Sample ID: N-SIDE Collected: 07/01/2008 10:40 SPL Sample ID: 08070257-03

Site:	Loco	Hills,	NM
-------	------	--------	----

Analyses/Method	Resu	ılt	QUAL	R	ep.Limit	Dil.	. Facto	or Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORGAN	ics					MCL	5	W8015B	Ur	nits: mg/kg	j-dry
Diesel Range Organics (C1	D-C28) 360	0			500		100	07/08/08	13 [.] 36	NW	4553594
Surr: n-Pentacosane		כ	*	%	20-154		100	07/08/08	13.36	NW	4553594
Prep Method P	rep Date	F	Prep Initials	Prep	Factor						

SW3550B	07/05/2008 15.20	QMT	1 00			,		
GASOLINE RANGE	ORGANICS			MCL	SV	V8015B	Units: mg/	 kg-dry
0 5 5					4	07/05/00 0/	0.47 1194	400

Gasoline Range Organics	8.4			0.5	1	1	07/05/08 20	47 NMa	4552002
Surr 1,4-Difluorobenzene	120		%	63-142	1	1	07/05/08 20.	47 NMa	
Surr. 4-Bromofluorobenzene	160MI	*	%	50-159	1	1	07/05/08 20:	47 NMa	4552002

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	07/04/2008 16:46	XML	5 00

PERCENT MOISTURE				MCL		D2216	Ur	nits: wt%	
Percent Moisture	0.603		0		1	07/03/08	18.27	ESK	4545378
TCLP VOLATILE ORGANICS				MCL		SW8260B	Ur	nits: ug/L	
Benzene	ND		5	500	1	07/06/08	9.09	LT	4548858
Ethylbenzene	ND		5		1	07/06/08	9:09	LT	4548858
Toluene	ND		5		1	07/06/08	9.09	LT	4548858
m,p-Xylene	6		5		1	07/06/08	9 09	LT	4548858
o-Xylene	ND		5		1	07/06/08	9.09	LT	4548858
Xylenes,Total	6		5		1	07/06/08	9:09	LT	4548858
Surr. 1,2-Dichloroethane-d4	96.0	%	62-130		1	07/06/08	9:09	LT	4548858
Surr: 4-Bromofluorobenzene	102	%	70-130		1	07/06/08	9:09	LT	4548858
Surr. Toluene-d8	98 0	%	74-122		1	07/06/08	9:09	LT	4548858

Į	Leach Method	Leachate Date	Leach Initials
	SW 1311	07/04/2008	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

08070257 Page 5 7/21/2008 1 19 49 PM



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

Client Sample ID:S-SIDE	Collected: 07/01/2008 10:45	SPL Sample ID:	08070257-04

Client Sample ID:S-S	IDE			Coll	ected:	07/01/20	008 10:4	5 SPL Sar	nple	ID: 080	70257-04
				Site	e: Lo	co Hills,	, NM				
Analyses/Method	1	Result	QUAL	Re	p.Limit		Dìl. Fac	tor Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS					MCL		SW8015B	Uı	nits: mg/k	g-dry
Diesel Range Organics (C10-C28)	1300			110		20	07/08/08	12 44	NW	4553592
Surr. n-Pentacosane	<u> </u>	D	*	%	20-154		20	07/08/08	12 [.] 44	NW	4553592
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3550B	07/05/2008 15 20		QMT	1 00							
GASOLINE RANGE O	RGANICS					MCL		SW8015B	Ur	nits: mg/k	g-dry
Gasoline Range Organics	S	19			0.53		1	07/05/08	21.45	NMa	4550256
Surr 1,4-Difluorobenze	ene	101		%	63-142		1	07/05/08	21.45	NMa	4550256
Surr 4-Bromofluorober	nzene	129		%	50-159		1	07/05/08	21:45	NMa	4550256
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	07/04/2008 16 42		XML	5.00							
PERCENT MOISTURE						MCL		D2216	Ur	its: wt%	
Percent Moisture		5.08			0		1	07/03/08	18·27	ESK	4545377
TCLP VOLATILE ORG	ANICS					MCL	-	SW8260B	Ur	its: ug/L	
Benzene	_	ND			5	500	1	07/06/08	8·43	LT	4548857
Ethylbenzene	110	ND			5	*-*	1	07/06/08	8.43	LT	4548857
Toluene		ND			5		1	07/06/08	8:43	LT	4548857
m,p-Xylene		ND			5		1	07/06/08	8 43	LT	4548857
o-Xylene		ND			5		1	07/06/08	8.43	LT	4548857
Xylenes,Total		ND			5		1	07/06/08	8.43	LT	4548857
Surr: 1,2-Dichloroethan	ie-d4	96.0		%	62-130		1	07/06/08	8.43	LT	4548857
Surr: 4-Bromofluoroben	nzene	104		%	70-130		1	07/06/08	8:43	LT	4548857
Surr Toluene-d8		100		%	74-122		1	07/06/08	8 43	LT	4548857

Leach Method	Leachate Date	Leach Initials
SW 1311	07/04/2008	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

08070257 Page 6 7/21/2008 1 19 49 PM



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

	 		Site:	Loco Hills	, NM		
nalyses/Method	Result	QUAL	Rep.L	imit	Dil. Factor	Date Analyzed	Analyst

Analyses/Method	Kesuit	QUAL	кер	Limit	U	III. Fac	tor Date Ana	Iyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS	-				MCL		SW8015B	Ur	its: mg/kg	g-dry
Diesel Range Organics (C10-C28)	4100			510		100	07/08/08	14.02	NW	4553595
Surr: n-Pentacosane	D	*	% 2	20-154		100	07/08/08	14 02	NW	4553595

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	07/05/2008 15·20	QMT	1.00

GASOLINE RANGE ORGANICS					MCL		SW8015B	Un	its: mg/k	(g-dry
Gasoline Range Organics	26		 	0 51		1	07/05/08 22	.14	NMa	4550257
Surr: 1,4-Difluorobenzene	106		%	63-142		1	07/05/08 22	:14	NMa	4550257
Surr. 4-Bromofluorobenzene	173MI	*	%	50-159		1	07/05/08 22	:14	NMa	4550257

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	07/04/2008 16:39	XML	5 00

PERCENT MOISTURE				MCL		D2216	Ur	nits: wt%	
Percent Moisture	2 03		0		1	07/03/08	18:27	ESK	4545376
TCLP VOLATILE ORGANICS				MCL		SW8260B	Ur	nits: ug/L	
Benzene	ND		5	500	1	07/06/08	8.17	LT	4548856
Ethylbenzene	11		5		1	07/06/08	8:17	LT	4548856
Toluene	35		5		1	07/06/08	8:17	LT	4548856
m,p-Xylene	19		5		1	07/06/08	8 17	LT	4548856
o-Xylene	14		5		1	07/06/08	8:17	LT	4548856
Xylenes,Total	33		5		1	07/06/08	8:17	LT .	4548856
Surr 1,2-Dichloroethane-d4	94 0	%	62-130		1	07/06/08	8:17	LT	4548856
Surr: 4-Bromofluorobenzene	98 0	%	70-130		1	07/06/08	8.17	LT	4548856
Surr: Toluene-d8	98.0	%	74-122		1	07/06/08	8.17	LT	4548856

Leach Method	Leachate Date	Leach Initials
SW 1311	07/04/2008	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

08070257 Page 7 7/21/2008 1 19 50 PM



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

Client Sample ID:S	MALL PILE			Collected:	07/01/20	08 10:55	SPL Sar	nple ID:	08070257-06
				Site: Lo	co Hills,	NM	· 		
Analyses/Method		Result	QUAL	Rep.Limit		Dil. Fact	or Date Ana	lyzed Ar	alyst Seq. #
CORROSIVITY					MCL		SW9045D	Units:	pH Units
Corrosivity		7 5		0 1		1	07/07/08	11.40 PAG	455060
DIESEL RANGE OR	GANICS				MCL		SW8015B	Units:	mg/kg-dry
Diesel Range Organic	s (C10-C28)	4200	· · · · · · · · · · · · · · · · · · ·	510		100		14:28 NW	
Surr: n-Pentacosan	e	D	*	% 20-154		100	07/08/08	14.28 NW	455359
Prep Method	Prep Date		Prep Initials	Prep Factor					
SW3550B	07/05/2008 15:2	<u> </u>	QMT	1 00					
			QWI	1100					
GASOLINE RANGE					MCL		SW8015B		mg/kg-dry
Gasoline Range Organ		97		10		100		23 ⁻ 12 NMa	
Surr: 1,4-Difluorobe		102		% 63-142		100		23:12 NMa	
Surr 4-Bromofluoro	benzene	147		% 50-159		100	07/05/08	23.12 NMa	455200
Prep Method	Prep Date		Prep Initials	Prep Factor					
SW5030B	07/04/2008 17:0	9	XML.	1.00					
IGNITABILITY MOD	IFIED OPEN CUI			77.	MCL	AST	M D92-01	Units:	°F
Ignitability		135		20		1	07/07/08		455003
MERCURY, TOTAL					MCL		SW7471A	Units:	mg/kg-dry
Mercury		0.0586		0 0308		1		22 13 CMC	
			I						
Prep Method	Prep Date		Prep Initials	Prep Factor					
SW7471A	07/07/2008 17:0	0	СМС	1.00					
METALS BY METHO	DD 6020, TOTAL	,			MCL		SW6020A		mg/kg-dry
Arsenic		2.49		0.513		1		1.26 AL_F	
Barium		82 6		0 513		1		15 18 AL_F	
Cadmium		ND		0.513		1		1:26 AL_F	
Chromium		5.47		0.513		1		1:26 AL_F	
Lead		3 52		0.513		1		1 26 AL_F	
Selenium		ND		0 513		1		18 [.] 43 AL_F	
Silver		0.939		0.513		1	07/17/08	18 [.] 43 AL_F	4573134
Prep Method	Prep Date		Prep Initials	Prep Factor					
SW3050B	07/07/2008 9:55		DDW	1 00					
PERCENT MOISTUR	E				MCL	***************************************	D2216	Units: v	vt%
Percent Moisture		25		0		1		8.27 ESK	4545375
REACTIVE CYANIDE	-SOLID				MCL	S	W7.3.3.2	Units: r	ng/kg-dry
Reactive Cyanide	_ 	ND		1.03		1	07/07/08 1		4549971

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

08070257 Page 8 7/21/2008 1 19 50 PM



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

Client Sample ID: SMALL PILE

Collected: 07/01/2008 10.55

SPL Sample ID:

08070257-06

Site:	Loco	Hills.	NM
Oile.		riiiio,	14141

					· · · · · · · · · · · · · · · · · · ·					
Analyses/Method	Result	QUAL	R	ep.Limit		Dil. Fact	or Date Anal	yzed	Analyst	Seq. #
REACTIVE SULFIDE - SOLID				-	MCL		SW7.3.4.2	Ur	nits: mg/kg	g-dry
Reactive Sulfide	ND			10 3		1	07/07/08	15 30	ESK	4550464
TCLP VOLATILE ORGANICS					MCL	:	SW8260B	Ur	its: ug/L	
Benzene	ND			5	500	1	07/06/08	7.51	LT	4548855
Ethylbenzene	40			5		1	07/06/08	7 51	LT	4548855
Toluene	39	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		5		1	07/06/08	7:51	LT	4548855
m,p-Xylene	42			5		1	07/06/08	7.51	LT	4548855
o-Xylene	23			5		1	07/06/08	7 51	LT	4548855
Xylenes,Total	65			5		1	07/06/08	7:51	LT	4548855
Surr: 1,2-Dichloroethane-d4	96 0		%	62-130		1	07/06/08	7:51	LT	4548855
Surr 4-Bromofluorobenzene	104		%	70-130		1	07/06/08	7:51	LT	4548855
Surr: Toluene-d8	98 0		%	74-122		1	07/06/08	7:51	LT	4548855

Leach Method	Leachate Date	Leach Initials
SW1311	07/04/2008	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

08070257 Page 9 7/21/2008 1 19 50 PM

Quality Control Documentation



8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Conoco Phillips CPPL Loco Hills

Analysis:

Diesel Range Organics

Method:

RunID:

SW8015B

WorkOrder:

08070257

Lab Batch ID:

81295

Method Blank

HP_V_080707A-4553587

Units.

mg/kg

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date

07/08/2008 10 35

Analyst⁻

NW

08070257-01A

E-SIDE

Preparation Date.

07/05/2008 15 20

Prep By:

08070257-02A

TOP

QMT Method SW3550B

08070257-03A

N-SIDE S-SIDE

Analyte Diesel Range Organics (C10-C28) Surr. n-Pentacosane

Rep Limit Result ND 5.0

08070257-04A 08070257-05A 08070257-06A

W-SIDE SMALL PILE

Laboratory Control Sample (LCS)

RunID:

HP_V_080707A-4553588

Units:

mg/kg

Analysis Date.

Preparation Date

07/08/2008 11 01

Analyst: NW

07/05/2008 15:20

Prep By. QMT Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	66 6	63.2	94.9	57	150
Surr: n-Pentacosane	1 66	1 66	100	20	154

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

Sample Spiked

08070257-01

RunID:

HP_V_080707A-4553590

Units.

mg/kg-dry

Analysis Date: Preparation Date: 07/08/2008 11:52

Analyst. NW

07/05/2008 15:20

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)	1520	68 9	3400	N/C	68.9	3700	N/C	N/C	50	21	175
Surr. n-Pentacosane	ND	1.72	D	D	1 72	D	D	D	30	20	154

Cualifiers:

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

08070257 Page 11

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.



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

Conoco Phillips **CPPL Loco Hills**

Analysis:

Gasoline Range Organics

Method:

RunID

SW8015B

WorkOrder:

08070257

Lab Batch ID:

R244079

Method Blank

HP_O_080705A-4550233

Units:

mg/kg

Lab Sample ID

Client Sample ID

Analysis Date Preparation Date:

07/05/2008 9 43 07/05/2008 9:43 Analyst³ Prep By NMa Method

08070257-01A 08070257-02A E-SIDE TOP

08070257-03A 08070257-04A

Samples in Analytical Batch:

N-SIDE S-SIDE

Rep Limit Analyte Result Gasoline Range Organics 0.10 ND 102 1 Surr. 1,4-Difluorobenzene 63-142 Surr 4-Bromofluorobenzene 50-159 90.1

08070257-05A 08070257-06A

W-SIDE SMALL PILE

Methanolic Preparation Blank

FlunID.

HP_O_080705A-4550234

Units

mg/kg Analyst⁻ NMa

Analysis Date: Preparation Date. 07/05/2008 10:11 07/05/2008 10.11

Prep By.

Method SW5030B

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	25
Surr: 1,4-Difluorobenzene	101.6	63-142
Surr 4-Bromofluorobenzene	89 7	50-159

Laboratory Control Sample (LCS)

RunID:

HP_O_080705A-4550232

Units mg/kg

Analysis Date.

07/05/2008 9:14

Analyst. NMa

Preparation Date:

07/05/2008 9:14

Prep By:

Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	1 06	106	70	130
Surr: 1,4-Difluorobenzene	0.100	0.106	106	63	142
Surr: 4-Bromofluorobenzene	0.100	0.095	95 0	50	159

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

Sample Spiked:

RunID:

08070246-08

HP_O_080705A-4550428

Units:

mg/kg-dry

Analysis Date

07/05/2008 13:05

Analyst:

Preparation Date

07/02/2008 14:45

Prep By

Field Method SW5035A

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 * - Recovery Outside Advisable QC Limits

J - Estimated value between MDL and PQL 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

08070257 Page 12

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.



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

Conoco Phillips CPPL Loco Hills

Analysis: Method: **Gasoline Range Organics**

SW8015B

WorkOrder:

08070257

Lab Batch ID:

R244079

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	0.841	0 772	91 7	0.83	0 793	95 5	2.74	50	26	147
Surr: 1,4-Difluorobenzene	ND	0.0841	0 0875	104	0.083	0 0864	104	1.25	30	63	142
Surr 4-Bromofluorobenzene	ND	0 0841	0 0789	93.8	0.083	0.0762	91.8	3.44	30	50	159

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

08070257 Page 13

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.



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

Conoco Phillips CPPL Loco Hills

Analysis:

FlunID.

Metals by Method 6020, Total

Method:

SW6020A

WorkOrder:

08070257

Lab Batch ID:

81323A-I

Method Blank

ICPMS2_080717A-4573131

Units:

mg/kg

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date

07/17/2008 18:30

Analyst

AL_H

08070257-06A

SMALL PILE

Freparation Date

07/07/2008 9:55

Prep By:

DD Method SW3050B

Analyte	Result	Rep Limit
Selenium	ND	0.5
Silver	ND	0.5

Laboratory Control Sample (LCS)

RunID.

ICPMS2_080717A-4573132 Units:

mg/kg

Analysis Date:

07/17/2008 18:36

AL H

Analyst:

Preparation Date:

07/07/2008 9.55

DD Method SW3050B Prep By

Analyte	Spike `Added	Result	Percent Recovery	Lower Limit	Upper Limit
Selenium	82 90	73 87	89.11	76	124
Silver	80.00	90.91	113.6	61	139

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

Sample Spiked.

08070257-06

RunID:

ICPMS2_080717A-4573135 Units:

mg/kg-dry

Analysis Date:

07/17/2008 18.49

Analyst: AL H

Preparation Date

07/07/2008 9.55

Prep By: DD Method SW3050B

- Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Selenium	ND	10.26	8 799	84.32	10.26	8 244	78.91	6.511	20	75	125
Silver	0 9389	10 26	12.23	110.0	10.26	11 88	106 6	2 894	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

08070257 Page 14

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.



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

Conoco Phillips CPPL Loco Hills

Analysis:

Metals by Method 6020, Total

Method:

RunID.

SW6020A

WorkOrder:

08070257

Lab Batch ID:

81323C-I

Method Blank

ICPMS2 080718A-4575106

mg/kg

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Ånalysis Date¹

07/18/2008 15 05

Analyst¹

08070257-06A

SMALL PILE

Preparation Date:

07/07/2008 9 55

Prep By.

Units

DD Method SW3050B

Rep Limit Analyte Result 0 5 Barium

Laboratory Control Sample (LCS)

RunID.

ICPMS2_080718A-4575107 Units.

mg/kg

Analysis Date:

07/18/2008 15:11

Analyst: AL H

Preparation Date: 07/07/2008 9:55 Prep By. DD Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Barium	156.0	146.7	94.04	82	119

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

Sample Spiked.

08070257-06

RunID.

ICPMS2_080718A-4575426 Units:

mg/kg-dry

Analysis Date:

07/18/2008 16:59

Analyst: AL_H

Preparation Date

07/07/2008 9:55

Prep By.

DD Method SW3050B

	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Ва	rium	82 56	10 26	106.5	N/C	10.26	107 8	N/C	N/C	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

08070257 Page 15

7/21/2008 1 19 53 PM

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



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

Conoco Phillips CPPL Loco Hills

Analysis:

KunID.

Metals by Method 6020, Total

Method:

SW6020A

WorkOrder:

08070257

Lab Batch ID:

81323-I

Method Blank

ICPMS2_080716A-4570765

Units:

mg/kg

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Ånalvsis Date

07/17/2008 1 12

Analyst

08070257-06A

SMALL PILE

Preparation Date.

07/07/2008 9.55

Prep By

DD Method SW3050B

Analyte	Result	Rep Limit
Arsenic	ND	0.5
Cadmium	ND	0.5
Chromium	ND ND	0.5
Lead	ND	0 5

Laboratory Control Sample (LCS)

RunID

ICPMS2_080716A-4570766 Units 07/17/2008 1.19

Analyst:

mg/kg. AL H

Analysis Date: Preparation Date:

07/07/2008 9:55

Prep By:

DD Method SW3050B

Analyte		Spike Added			Lower Limit	Upper Limit
Arsenic		80.90	65.74	81 26	79	121
Cadmium		233.0	248 1	106 5	81	119
Chromium		60 80	65.01	106 9	78	121
Lead		76.80	68 51	89.21	81	120

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

Sample Spiked:

08070257-06

RuniD:

ICPMS2_080716A-4570768 Units:

mg/kg-dry

Analysis Date.

07/17/2008 1:32

AL H

Preparation Date. 07/07/2008 9:55

Analyst⁻

Prep By: DD Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Arsenic	2.490	10.26	11 46	87.42	10.26	11 26	85.52	1.716	20	75	125
Cadmium	ND	10.26	10.18	98.71	10.26	10.03	97.21	1.522	20	75	125
Chromium	5 471	10 26	16.31	105.7	10.26	16 19	104.6	0.6942	20	75	125
Lead	3.522	10.26	12.76	90 06	10.26	12 81	90 56	0 4011	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

08070257 Page 16

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.



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

Conoco Phillips CPPL Loco Hills

Analysis: Method:

FlunID.

Mercury, Total

SW7471A

WorkOrder:

08070257

Lab Batch ID:

81365

Method Blank

HGLC_080707B-4551616

Units.

mg/kg

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date.

07/07/2008 21:35

Analyst

CMC

08070257-06A

SMALL PILE

Preparation Date:

07/07/2008 17:00

Prep By

CMC Method SW7471A

Analyte	Result	Rep Limit
Mercury	ND	0 03

Laboratory Control Sample (LCS)

RunID:

HGLC_080707B-4551617

Units:

mg/kg

Analysis Date. Preparation Date:

07/07/2008 21:38 07/07/2008 17:00

CMC Analyst.

Prep By CMC Method SW7471A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit	
Mercury	3.600	3.519	97.74	68	132	

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

Sample Spiked:

08061895-06

RunID.

HGLC_080707B-4551619

Units.

mg/kg-dry

Analysis Date

07/07/2008 21:43

Analyst: CMC

Preparation Date 07/07/2008 17.00 Prep By

CMC Method SW7471A

	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Мє	rcury	ND	0.3589	0 3986	107.8	0 3589	0.4075	110.3	2.205		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

08070257 Page 17

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.



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

Conoco Phillips CPPL Loco Hills

Analysis:

TCLP Volatile Organics

Analyto

Method:

ŔunID.

Analysis Date

SW8260B

07/06/2008 6:07

WorkOrder:

08070257

Lab Batch ID:

R243970

<u>Met</u>	<u>hod</u>	BI	<u>ank</u>
------------	------------	----	------------

N_080706C-4548847

Units: Analyst. ug/L

Popult Pop Limit

LT

Lab Sample ID 08070257-01A

Samples in Analytical Batch:

Client Sample ID

08070257-02A 08070257-03A E-SIDE TOP N-SIDE

08070257-04A 08070257-05A

S-SIDE W-SIDE

08070257-06A

SMALL PILE

Allalyte	1 (Coult	Liveb ruint
Benzene	ND	5.0
Ethylbenzene	ND	50
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	DN	5.0
Surr: 1,2-Dichloroethane-d4	92.0	62-130
Surr: 4-Bromofluorobenzene	100 0	70-130

Leachate Blank

RuniD:

N_080706C-4548840

Units:

ug/L

96.0

Analysis Date:

07/06/2008 5 41

Surr: Toluene-d8

Analyst: LT

Leach Date:

07/04/2008 0:00

Leach By: GF Method SW1311

74-122

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	88.0	62-130
Surr 4-Bromofluorobenzene	100.0	70-130
Surr Toluene-d8	98.0	74-122

Laboratory Control Sample (LCS)

RunID:

N 080706C-4548837

Units:

Analysis Date:

07/06/2008 4:23

Analyst⁻ LT

ug/L

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	21.0	105	76	126
Ethylbenzene	20.0	20 0	100	67	122
Toluene	20.0	21.0	105	70	131
m,p-Xylene	40 0	42.0	105	72	150
o-Xylene	20.0	22 0	110	78	141

Clualifiers:

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

08070257 Page 18

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



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

Conoco Phillips CPPL Loco Hills

Analysis: Method:

TCLP Volatile Organics

SW8260B

WorkOrder:

08070257

Lab Batch ID:

R243970

Laboratory Control Sample (LCS)

RunID

N_080706C-4548837

Units:

Analysis Date:

07/06/2008 4 23

ug/L Analyst

LT

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Xylenes,Total	60	64	110	72	150
Surr: 1,2-Dichloroethane-d4	50 0	45	90.0	62	130
Surr 4-Bromofluorobenzene	50.0	54	108	70	130
Surr Toluene-d8	50.0	50	100	74	122

Matrix Spike (MS)

Sample Spiked

08070030-01

RunID:

N_080706C-4548854

Units:

ug/L

Analysis Date:

07/06/2008 7:25

Analyst: LT

Analyte	Sample Result	Spike Added	MS Result	MS % Recovery	Low Limit	High Limit
Benzene	ND ND	200	190	95.0	76	127
Ethylbenzene	ND	200	180	90.0	35	175
Toluene	ND	200	190	95 0	70	131
m,p-Xylene·	ND	400	390	97.5	35	175
o-Xylene	ND	200	190	95.0	35	175
Xylenes,Total	ND	600	580	97	35	175
Surr: 1,2-Dichloroethane-d4	ND	500	480	96.0	62	130
Surr: 4-Bromofluorobenzene	ND	500	520	104	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

08070257 Page 19

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.



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

Conoco Phillips CPPL Loco Hills

Analysis:

PERCENT MOISTURE

Method:

D2216

WorkOrder:

08070257

Lab Batch ID:

R243812A

Samples in Analytical Batch:

Lab Sample ID		Client Sample ID
	08070257-01A	E-SIDE
	08070257-02A	TOP
	08070257-03A	N-SIDE
	08070257-04A	S-SIDE
	08070257-05A	W-SIDE
	08070257-06A	SMALL PILE

Sample Duplicate

Original Sample.

08070257-06

RunID:

WET_080703W-4545375

Units.

wt%

Analysis Date:

07/03/2008 18.27

Analyst: **ESK**

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	2.5	2 492	0.156	20

Cualifiers:

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

08070257 Page 20

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.



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

Conoco Phillips CPPL Loco Hills

Analysis:

Reactive Cyanide-Solid

Method:

SW7.3.3.2

07/07/2008 13 00

WorkOrder:

08070257

Lab Batch ID:

R244047

Method Blank

Units.

Analyst

Samples in Analytical Batch:

RunID

Analysis Date:

WET_080707J-4549960

mg/kg **ESK**

Lab Sample ID 08070257-06A

Client Sample ID

SMALL PILE

Analyte Result Rep Limit ND Reactive Cyanide

Laboratory Control Sample (LCS)

RuniD⁻

WET_080707J-4549961

Units:

mg/kg

Analysis Date:

07/07/2008 13.00

ESK Analyst⁻

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Reactive Cyanide	2.000	0.4310	21 55	5	50

Sample Duplicate

Original Sample:

08070249-01

RunID:

WET_080707J-4549964

Units:

mg/kg

Analysis Date:

07/07/2008 13 00

Analyst:

ESK

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Reactive Cyanide	ND	ND	0	20

Clualifiers:

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

08070257 Page 21

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.



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

Conoco Phillips CPPL Loco Hills

Analysis: Method: Ignitability Modified Open Cup

ASTM D92-01

WorkOrder:

08070257

Lab Batch ID:

R244066

Samples in Analytical Batch:

Lab Sample ID

Client Sample ID

08070257-06A

SMALL PILE

Laboratory Control Sample (LCS)

RunID.

WET 080707L-4550028

Units:

°F

Analysis Date:

07/07/2008 14:00

Analyst GF

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Ignitability	81.00	81.00	100.0	97 5	102 5

Sample Duplicate

Original Sample:

08070249-03

WET_080707L-4550034

Units.

٥F

Analysis Date:

RuniD.

07/07/2008 14 00

Analyst: GF

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Ignitability	212	212	0	20

Cualifiers:

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

08070257 Page 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



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

Conoco Phillips CPPL Loco Hills

Analysis: Method:

ŔunID.

Analysis Date.

Reactive Sulfide - Solid

07/07/2008 15 30

SW7.3.4.2

WET_080707Q-4550451

WorkOrder:

08070257

Lab Batch ID:

R244087

Method Blank

Units:

Analyst

mg/kg **ESK**

Lab Sample ID 08070257-06A

Samples in Analytical Batch:

Client Sample ID

SMALL PILE

Analyte	Result	Rep Limit
Reactive Sulfide	ND	10

Laboratory Control Sample (LCS)

RunID:

WET 080707Q-4550453

Units.

mg/kg

Analysis Date:

07/07/2008 15 30

Analyst: **ESK**

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Reactive Sulfide	100.0	93 50	93.50	85	115

Sample Duplicate

Original Sample

08061829-01

RunID:

WET_080707Q-4550455

Units.

mg/kg

Analysis Date.

07/07/2008 15 30

Analyst:

ESK

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Reactive Sulfide	ND	ND	0	20

Cualifiers:

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

08070257 Page 23

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



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

Conoco Phillips

CPPL Loco Hills

Analysis:

Corrosivity SW9045D

WorkOrder:

08070257

Lab Batch ID:

R244098

Samples in Analytical Batch:

Lab Sample ID

Client Sample ID

08070257-06A

SMALL PILE

Laboratory Control Sample (LCS)

RunID⁻

WET_080707ZH-4550598 Units.

nits. pH Units

Analysis Date:

07/07/2008 11:40

Analyst: PAC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Corrosivity	7.000	7 030	100 4	98	102

Sample Duplicate

Original Sample:

08070284-01

WET_080707ZH-4550604 Units:

pH Units

Analysis Date.

RunID.

07/07/2008 11.40

Analyst: PAC

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Corrosivity	9.18	9.18	0	20

Clualifiers:

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

08070257 Page 24

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

Sample Receipt Checklist

And

Chain of Custody



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

Sample Receipt Checklist

Workorder Date and Time Received:	08070257 7/3/2008 9:30:00 AM		Received By Carrier name	L_C Fedex-Standard Overnight
Temperature:	3.5°C		Chilled by	Water Ice
1. Shipping container	/cooler in good condition?	Yes 🔽	No 🗌	Not Present
2. Custody seals intac	ct on shippping container/cooler?	Yes 🔽	No 🗌	Not Present
3. Custody seals intac	ct on sample bottles?	Yes	No 🗆	Not Present
4. Chain of custody p	resent?	Yes 🗸	No 🗌	
5. Chain of custody si	gned when relinquished and received?	Yes 🗸	No 🗌	
6. Chain of custody ag	grees with sample labels?	Yes 🗸	No 🗌	,
7. Samples in proper of	container/bottle?	Yes 🗸	No 🗌	,
8. Sample containers i	ntact?	Yes 🗹	No 🗆	
9. Sufficient sample vo	plume for indicated test?	Yes 🗹	No 🗆	
10. All samples received	d within holding time?	Yes 🗸	No 🗆	
11. Container/Temp Bla	nk temperature in compliance?	Yes 🗸	No 🗌	
12. Water - VOA vials ha	ave zero headspace?	Yes	No 🗆 VOA	Vials Not Present ✓
13. Water - Preservation	checked upon receipt (except VOA*)?	Yes	No 🗆	Not Applicable
*VOA Preservation C	Checked After Sample Analysis			
SPL Representa	tive:	Contact Date &	Time:	
Client Name Contac	eted:			
Non Conformance Issues:				
Client Instructions:				
<u></u>				

15505	7	SPL, Inc.								SPL Workorder No.					278382			
	A	nalysis Re	ques	t & (Chain o	f Custo	dy Re	cord			0	£-C	170	77	57	page_	of	
Client Name: Tetra Tech/	Gn-wPh	Alip Pipe	Line		matrix	bottle	size	pres.			Requested Analysis							
Address: 1703 West Indu	strial				0=oil	ass	'ial er			0						,		
Phone/Fax: 432 - 686 - 86	81				1 -	r gl =otl	O=7	ا س	13	1000		\$						1
Client Contact: Charles Duvee	H Emailch	tles.durret	Clohe	tetal	4	nbe	2 X	Ser Je	ine	l c	乂	3						
Project Name/No.: 11586460	24				S=soile X=other	A=amber glass V=vial X=other	1=1 liter	2=HNO3 X=other	Number of Containers	6RO.	BTEX	RCRAS metals						
Site Name: Loco Hilb					S S		4= 1=1(f C	6.6	67		_				1	
Site Location: Loca Hills, New Mexico				W=water SL=sludge	P=plastic G=glass	ter 16	1=HC1 3=H2SO4	er c	1	ے ا	4	Q.						
Invoice To:	<u> </u>	Ph:	т	 -		ald=	:1 li :802	HZ H2	amp	404	TC1P	2	ર્					
SAMPLE ID	DATE	TIME	comp	grab	≥ ∞	ى تە	%	3 1	Ž	1-	+	CZ	11					
E-side	7-1-08	10:30		X				ļ	2	X	X							
Top		10:35		X]			2	X	メ							
N-side		10:40	χ						2	×	メ							
5-side		10:45	X		1		17-22 Land		2	X	X							
W-side		10:50		X	25		12		2	X	×							
small the Pile	V	10:55	X						Z	X	Х	X	X					
	ļ						<u> </u>	. ;		<u> </u>		ļ	ļ					
		ļ 	<u> </u>	<u> </u>	 				<u> </u>			ļ						
			<u> </u>	<u> </u>		ļ		855		ļ	ļ	ļ		ļ				
									<u> </u>									
Client/Consultant Remarks: Conver P.O. # 45 09610	900					tory rema									Intact Ice? Temp	. 3.]N]N
Requested TAT	1	rting Require			• •	x D E			Specia	al Detect	ion Lim	its (spec	ify):			PM re	view (in	itial):
Contract 72hr	1	Level 3 QC		evel 4	QC T	X TRRP	LA RE	CAP	<u> </u>							KI	\\/	△
24hr Standard	1 6	ed by Sample		A	>		date 7-6	2-08	time	:00 am		eived by						
48hr 🔟	3. Relimentable by:				date time 7/02/06 3:00 p.					4. Received by:								
Other ASAP	5. Relinquish	ned by:			<u></u>		date	7 0 3/. c	time	30	6. Rec	eived b	Labor	ntory:				
8880 Interchang Houston, TX 77054 (71					500 An Scott, I	nhassad A 7058			kway	~///	1-	Trav	verse (Hughe I 49686		e) 947-57	177

._



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

Conoco Phillips

Certificate of Analysis Number: 08071643

Report To: **Project Name: CPPL Loco Hills** Site: Loco Hills, NM Tetra Tech **Charlie Durrett** Site Address: 1703 W Industrial Avenue PO Number: WO#4509610900 Midland State: **New Mexico** ΤX 79701-State Cert. No.: ph: (432) 686-8081 **Date Reported:** 8/4/2008

This Report Contains A Total Of 9 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments



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

Case Narrative for: Conoco Phillips

Certificate of Analysis Number: 08071643

Report To: **CPPL Loco Hills Project Name:** Loco Hills, NM Site: **Tetra Tech Charlie Durrett** Site Address: 1703 W Industrial Avenue PO Number: WO#4509610900 Midland State: **New Mexico** TX 79701-State Cert. No.: ph: (432) 686-8081 8/4/2008 **Date Reported:**

This report contains additional analysis for the samples originally received on July 3, 2008 and assigned to Certificate of Analysis Number 08070257 Per your request on July 28, 2008 via phone conversation, the sample Small Pile (SPL ID: 08071643-01) was analyzed for TCLP Metals

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.

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

08071643 Page 1

8/4/2008

Bethany A Agarwal Senior Project Manager

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



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

Conoco Phillips

Certificate of Analysis Number:

08071643

Report To:

Fax To:

Tetra Tech

Charlie Durrett

1703 W Industrial Avenue

Midland

TX 79701-

ph: (432) 686-8081

fax: (432) 686-8085

Project Name:

CPPL Loco Hills

Site:

Loco Hills, NM

Site Address:

PO Number:

WO#4509610900

State:

New Mexico

State Cert. No.:

Date Reported:

8/4/2008

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
SMALL PILE	08071643-01	Soil	7/1/2008 10:55:00 AM	7/3/2008 9:30:00 AM	278382	

Bethen Agand

8/4/2008

Date

Beihany A Agarwal Senior Project Manager

> Richard R. Reed Laboratory Director

Ted Yen
Quality Assurance Officer

08071643 Page 2

8/4/2008 3 37 15 PM



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

08071643-01

Client Sample ID: SMALL PILE Collected: 07/01/2008 10:55 SPL Sample ID:

	Site: Loco Hills, NM										
Analyses/Method		Result	QUAL	Rep.Limit	MCL	Dil. Factor	Date Analyz	ed Analyst	Seq. #		
TCLP MERCURY				-	MCL	SV	V7470A	Units: mg/L			
Mercury		ND		0.0002	0.2	1	08/01/08 16	11 CMC	4605657		
Prep Method	Prep Date		Prep Initials	Prep Factor	Leach Meth	od <u>Le</u>	eachate Date	<u>Leach I</u>	nıtıals		

07/29/2008 12·50	СМС	1 00	s	SW 1311		07/28/2008	GF	
METHOD 6010B				MCL		SW6010B	Units: mg/L	
N	ID		02	5	2	08/02/08 13	3:31 EG	4606663
1.2	24		1	100	2	08/02/08 13	3:31 EG	4606663
N	D	(0.01	1	2	08/02/08 13	3.31 EG	4606663
. N	D	(02	5	2	08/02/08 13	3:31 EG	4606663
N	D ·		0.1	5	2	08/02/08 13	3.31 EG	4606663
N	D		0.2	1.	2	08/02/08 13	3:31 EG	4606663
N	D	(02	5	2	08/02/08 13	3.31 EG	4606663
	METHOD 6010B N 1.: N N N N		METHOD 6010B ND 1.24 ND ND ND ND ND ND ND ND ND	METHOD 6010B ND 0 2 1.24 1 ND 0.01 ND 0 02 ND 0.1 ND 0.2	METHOD 6010B MCL ND 0 2 5 1.24 1 100 ND 0.01 1 ND 0 02 5 ND 0.1 5 ND 0.2 1	METHOD 6010B MCL ND 0 2 5 2 1.24 1 100 2 ND 0.01 1 2 ND 0.02 5 2 ND 0.1 5 2 ND 0.2 1 2	METHOD 6010B MCL SW6010B ND 0.2 5 2 08/02/08 13 1.24 1 100 2 08/02/08 13 ND 0.01 1 2 08/02/08 13 ND 0.1 5 2 08/02/08 13 ND 0.1 5 2 08/02/08 13 ND 0.2 1 2 08/02/08 13	METHOD 6010B MCL SW6010B Units: mg/L ND 0 2 5 2 08/02/08 13:31 EG 1.24 1 100 2 08/02/08 13:31 EG ND 0.01 1 2 08/02/08 13:31 EG ND 0.02 5 2 08/02/08 13:31 EG ND 0.1 5 2 08/02/08 13:31 EG ND 0.2 1 2 08/02/08 13:31 EG

Prep Method	Prep Date	Prep Initials	Prep Factor	Leach Method	Leachate Date	Leach Initials
SW3010A	07/29/2008 13:20	DDW	1.00	SW 1311	07/28/2008	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

08071643 Page 3 8/4/2008 3 37 23 PM

Quality Control Documentation



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

Conoco Phillips CPPL Loco Hills

Analysis:

TCLP Mercury

Method: SW7470A WorkOrder:

08071643

Lab Batch ID:

82194a

Method Blank

Samples in Analytical Batch:

RuniD

HGLC_080801B-4605649

Units:

mg/L CMC

Lab Sample ID

Client Sample ID

Analysis Date

08/01/2008 15 53

Analyst.

08071643-01A

SMALL PILE

Preparation Date

07/29/2008 12.50

Prep By: CMC Method SW7470A

Analyte	Result	Rep Limit
Mercury	ND	0.0002

Leachate Blank

RuniD

HGLC_080801B-4605650

Units:

mg/L

Analysis Date:

Preparation Date:

08/01/2008 15 55 07/29/2008 12:50 Analyst:

CMC

Leach Date:

07/28/2008 0:00

Leach By: GF Method SW1311

Prep By: CMC Method SW7470A

Analyte	Result	Rep Limit
Mercury	ND	0 0002

Laboratory Control Sample (LCS)

RunID:

HGLC 080801B-4605651

Units. mg/L

Analysis Date.

08/01/2008 15 57 07/29/2008 12:50 Analyst: CMC

CMC Method SW7470A Prep By:

Preparation Date. Leach Date:

07/28/2008 0:00

Method SW1311 Leach By: GF

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	0.002000	0.001896	94 79	80	120

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

Sample Spiked

08071579-03

RunID.

HGLC_080801B-4605655

Units:

mg/L

Analysis Date:

08/01/2008 16.07

Analyst⁻

CMC

Preparation Date Leach Date:

07/29/2008 12.50 07/28/2008 0 00

Prep By.

CMC Method SW7470A Leach By: GF Method SW1311

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	, RPD	RPD Limit	Low Limit	High Limit
Mercury	ND	0 002	0 002705	135.3 *	0 002	0.002706	135.3 *	0 03700	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

08071643 Page 5

8/4/2008 3 37 24 PM

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.



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

Conoco Phillips CPPL Loco Hills

Analysis:

TCLP Metals by Method 6010B

Method:

RunID

SW6010B

. 2 2000 111110

WorkOrder:

08071643

Lab Batch ID:

82197A

Method Blank

TJA_080802A-4606652

Units:

mg/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

08/02/2008 12 41

Analyst⁻ EG

08071643-01A

SMALL PILE

Preparation Date. 07/29/2008 13 20

Prep By: D

DD Method SW3010A

Analyte	Result	Rep Limit
Arsenic	ND	0.1
Barium	ND	0.5
Cadmium	ND	0.005
Chromium	ND	0.01
Lead	ND.	0.05
Selenium	ND	0.1
Silver	ND	0.01

Leachate Blank

RunID.

TJA 080802A-4606653

Units:

mg/L

Ar_ialysis Date

08/02/2008 12 46

Analyst: EG

Preparation Date: Leach Date: 07/29/2008 13:20

Prep By DD

DD Method SW3010A

07/28/2008 0:00

Leach By GF Method SW1311

Analyte	Result	Rep Limit
Arsenic	ND	0.2
Barium	ND	1
Cadmium	ND	0 01
Chromium	ND	0.02
Lead	ND	0.1
Selenium	ND	02
Silver	ND	0.02

Laboratory Control Sample (LCS)

RunID:

TJA_080802A-4606654

Units. mg/L

Analysis Date.

08/02/2008 12 50

Analyst: EG

Preparation Date.

07/29/2008 13:20

Prep By. DD

Method SW3010A

Leach Date

07/28/2008 0:00

Leach By: GF

Method SW1311

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Arsenic	2 000	1.998	99 89	80	120
Barium	2 000	1 954	97.69	80	120
Cadmium	2.000	1 925	96 25	80	120
Chromium	2 000	1.940	96.98	80	120
Lead	2.000	1.975	98.74	80	120
Selenium	2.000	2 045	102.3	80	120
Silver	2 000	1 933	96 66	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 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

08071643 Page 6

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.

8/4/2008 3 37 24 PM



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

Conoco Phillips CPPL Loco Hills

Analysis:

TCLP Metals by Method 6010B

Method: SW6010B

WorkOrder:

08071643

Lab Batch ID:

82197A

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

Sample Spiked.

08071579-03

RunID:

TJA_080802A-4606656

Units n

mg/L

Analysis Date
Preparation Date:

08/02/2008 12 59 07/29/2008 13:20 Analyst. EG

Method SW3010A

Leach Date.

07/28/2008 0 00

Prep By. DD Leach By. GF

Method SW1311

Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
ND	2	1.876	93.79	2	2.174	108 7	14 73	20	75	125
1.014	2	2:813	89 95	2	3.338	116.2	17 09	20	75	125
ND	2	1.793	89.66	2	2 092	104 6	15.37	20	75	125
ND	2	1 779	88.93	2	2.051	102.6	14 23	20	75	125
ND	2	1.872	89.25	2	2.125	101 9	12 64	20	75	125
ND	2	1.815	90.77	2	2 276	113 8	22.49 *	20	75	125
ND	2	1 877	93 84	2	2 318	115.9	21.02 *	20	75	125
	Result ND 1.014 ND ND ND ND	Result Spike Added ND 2	Result Spike Added Result ND 2 1.876 1.014 2 2.813 ND 2 1.793 ND 2 1.779 ND 2 1.872 ND 2 1.815	Result Spike Added Result Recovery ND 2 1.876 93.79 1.014 2 2:813 89 95 ND 2 1.793 89.66 ND 2 1 779 88.93 ND 2 1.872 89.25 ND 2 1.815 90.77	Result Spike Added Result Recovery Spike Added ND 2 1.876 93.79 2 1.014 2 2:813 89 95 2 ND 2 1.793 89.66 2 ND 2 1 779 88.93 2 ND 2 1.872 89.25 2 ND 2 1.815 90.77 2	Result Spike Added Result Recovery Added Spike Added Result Added ND 2 1.876 93.79 2 2.174 1.014 2 2:813 89.95 2 3.338 ND 2 1.793 89.66 2 2.092 ND 2 1.779 88.93 2 2.051 ND 2 1.872 89.25 2 2.125 ND 2 1.815 90.77 2 2.276	Result Spike Added Result Recovery Added Spike Added Result Recovery ND 2 1.876 93.79 2 2.174 108 7 1.014 2 2.813 89 95 2 3.338 116.2 ND 2 1.793 89.66 2 2 092 104 6 ND 2 1.779 88.93 2 2.051 102.6 ND 2 1.872 89.25 2 2.125 101 9 ND 2 1.815 90.77 2 2 276 113 8	Result Spike Added Result Added Recovery Added Spike Added Result Recovery ND 2 1.876 93.79 2 2.174 108 7 14 73 1.014 2 2.813 89 95 2 3.338 116.2 17 09 ND 2 1.793 89.66 2 2 092 104 6 15.37 ND 2 1.779 88.93 2 2.051 102.6 14 23 ND 2 1.872 89.25 2 2.125 101 9 12 64 ND 2 1.815 90.77 2 2.276 113 8 22.49 *	Result Spike Added Result Recovery Added Spike Added Result Recovery Limit ND 2 1.876 93.79 2 2.174 108 7 14 73 20 1.014 2 2.813 89 95 2 3.338 116.2 17 09 20 ND 2 1.793 89.66 2 2 092 104 6 15.37 20 ND 2 1.779 88.93 2 2.051 102.6 14 23 20 ND 2 1.872 89.25 2 2.125 101 9 12 64 20 ND 2 1.815 90.77 2 2 276 113 8 22.49 * 20	Result Spike Added Result Recovery Added Spike Added Result Recovery Limit Limit ND 2 1.876 93.79 2 2.174 108 7 14 73 20 75 1.014 2 2:813 89 95 2 3.338 116.2 17 09 20 75 ND 2 1.793 89.66 2 2 092 104 6 15.37 20 75 ND 2 1.779 88.93 2 2.051 102.6 14 23 20 75 ND 2 1.872 89.25 2 2.125 101 9 12 64 20 75 ND 2 1.815 90.77 2 2.276 113 8 22.49 * 20 75

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

08071643 Page 7

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.

8/4/2008 3 37 24 PM

Sample Receipt Checklist And Chain of Custody



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

Sample Receipt Checklist

Workorder: 0807	1643		Received By.	L C						
	008 9:30:00 AM		Carrier name	Fedex-Standard Overnight						
Temperature: 3.5°C			Chilled by.	Water Ice						
1. Shipping container/cooler in	good condition?	Yes 🗹	No 🗌	Not Present						
2. Custody seals intact on ship	pping container/cooler?	Yes	No 🗌	Not Present ✓						
3. Custody seals intact on sam	ple bottles?	Yes 🗌	No 🗌	Not Present 🗹						
4. Chain of custody present?		Yes 🔽	No 🗌							
5. Chain of custody signed who	en relinquished and received?	Yes 🗹	No 🗆							
6. Chain of custody agrees with	n sample labels?	Yes 🗹	No 🗌							
7. Samples in proper container.	/bottle?	Yes 🗹	No 🗌							
8. Sample containers intact?		Yes 🗹	No 🗌							
9. Sufficient sample volume for	indicated test?	Yes 🗹	No 🗌							
10. All samples received within h	olding time?	Yes 🗹	No 🗌							
11. Container/Temp Blank tempe	rature in compliance?	Yes 🗹	No 🗌							
12. Water - VOA vials have zero l	neadspace?	Yes	No O VOA	Vials Not Present ✓						
13. Water - Preservation checked	upon receipt (except VOA*)?	Yes	No 🗌	Not Applicable 🗹						
*VOA Preservation Checked	After Sample Analysis									
SPL Representative:		Contact Date &	Time:							
Client Name Contacted:										
Non Conformance Issues:										
Client Instructions:										
	4									

08071643

	SPL, Inc.						SPL Workorder No.				278382							
	Analysis Request & Chain of Custody Record					65 7 7 page of												
Client Name: Tetra Tech/	on-while Pine Line matrix bottle size pres.					Requested Analysis												
Address: 1703 West Indu	strict				0=01	ass her	rial er			0								
Phone/Fax: 432 - 686 - 80	81				1 -	nber glass X=other	Ç di	~ ·	J.S	DR 0		2						
Client Contact: Charles Durre Project Name/No.: 11586460	H Email Ch	ntles.durret	le total	telah	ig ag	A=amber glass=vial X=other	, X	2=HNO3 X=other	aine	1 (×	+						
Project Name/No.: 11586460	24				S=S X=(A=am V=vial	=40 60z	H= X	jū	6R0	BTEX	ΙĚ						
Site Ivalise. Loco 14:10					28	>	4 6=1	4	of C	9	9	œ	~					
Site Location: Loco Hills , A	lew Mexic		~		vate	asti	iter z 1	SSO	per	1	4	AX.	a'					
Invoice To: SAMPLE ID	DATE	Ph: TIME	comp	grah	W=water SL=sludge	P=plastic G≃glass	1=1 liter 4=402 40=vial 8=802 16=1602 X=0ther	1=HC1 3=H2SO4	Number of Containers	TOH	107b	RCRAS moted	IG					
		<u> </u>	Comp	<u> </u>	-				<u> </u>		1	100			<u> </u>			
E-side	7-1-08	10:30	 	X	 			ļ	2		<u> </u>	ļ	ļ					
Top		10:35	-	X	ļ				2	X	<u>×</u>			ļ				
N-side		10:40	X		AND THE RESERVE OF THE PERSON			.	2	X	之					L		
5-side		10:45	X		£1				2	X	メ							
W-side		10:50		X	1	Z (2		A	2	X	×							
small the Pile	V	10:55	X						2	X	X	X	X					
			<u> </u>			6. 1		ŀ										
							.,,	69										
Client/Consultant Remarks: Const. Phillips Pipe Line Laboratory remarks: P.O. # 45 09610900 Laboratory remarks: Intact? Live? Temp: 3								N N										
Requested TAT	Special Repo	rting Require	ments	Resu	lts: Fa	x D E	mail 🔲	PDF 🔾	Specia	l Detecti	on Limi	ts (spec	ify):			PM rev	iew (in	itial):
Contract 72hr	Standard QC Level 3 QC Level 4 QC TX TRRP LA RECAP							\										
24hr Standard 🔲	1. Relinquished by Sampler date 7-62-08 4:00 am 2. Received by:																	
48hr 🛄	3. Reliablished by: date 7/02/08 3:00 pm 4. Received by:																	
Other ASAP 5. Relinquished by: date time 6. Received by Laboratory: 1/3/28 9:30																		
3880 Interchang	e Drive	<u></u>			500 Am	bassado	or Caffe	ry Par			2.			459 F	lughes	Drive		

Houston, TX 77054 (713) 660-0901

Scott, LA 70583 (337) 237-4775

Traverse City, MI 49686 (231) 947-5777

Bonham, Sherry, EMNRD

From:

Bonham, Sherry, EMNRD

Sent:

Tuesday, August 12, 2008 9:04 AM

To:

Durrett, Charles

Cc:

thomas.lacki@conocophillips.com; kirby.m.shipp@conocophillips.com

Subject:

RE: CPPL Loco Hills 2RP-154

Charlie,

Thanks for visiting with me regarding the above mentioned facility. Per our conversation, OCD is in receipt of the findings report describing remediation activities dated August 11, 2008. As presented, Tetra Tech's recommendations are approved.

Sherry Bonham NMOCD District II

From: Durrett, Charles [mailto:Charles.Durrett@tetratech.com]

Sent: Monday, August 11, 2008 10:17 AM

To: Bonham, Sherry, EMNRD; paul_evans@nm.blm.gov

Cc: Thomas.Lacki@conocophillips.com; Kirby.M.Shipp@conocophillips.com

Subject: CPPL Loco Hills 2RP-154

Loco Hills Truck Loading Station Findings Report Eddy County, New Mexico Sec. 29, T17S, R30E

2RP-154

On behalf of ConocoPhillips Pipe Line Company, Tetra Tech is pleased to submit the attached findings report describing remediation activities at CPPL's Loco Hills Truck Loading Station. This work was performed in support of CPPL's efforts to delineate and remediate a recent 95 barrel crude oil release at the Site.

If you concur with the recommendations made in the findings report, ConocoPhillips has authorized Tetra Tech to complete this work immediately following receipt of your notification to proceed. Please contact me (432-686-8081) or Mr. Thomas Lacki (ConocoPhillips, 432-368-1315), if you have any questions or require additional information.

Respectfully,

Charles Durrett Project Manager

Charles Durrett + Project Manager II Main: 432 686,8981 | Fax: 432 686 8085 charles durrett@tetratech.com

Te[ra Tech | Complex World - Clear Solutions ™ 1703 W - Industrial Ave. | Midrard - TX-79701 | <u>www.tetratech.com</u>

Pt FASE NOTE: This message, including any attachments may include privileged, confidential and/or inside information. Any distribution are of this

i communication by anyone other than the intended recipient is strictly prohibited ani	I may be unlowful, it you are not the intended repinient.	please rulify the sender
, by replying to this message and then delete it from your system		

This inbound email has been scanned by the MessageLabs Email Security System.