

Kegan W. Boyer, P.G. Project Manager Upstream Business Unit Environmental Management Company 1400 Smith Street Room 07076 Houston, Texas 77002 Tel 713-372-7705 kegan.boyer@chevron.com



May 24, 2013

Mr. Geoffrey Leking New Mexico Oil Conservation Division District 1 1625 N. French Drive Hobbs, New Mexico 88240

Re: West Dollarhide Drinkard Unit No. 148, RP # 10-52512 Vacuum Grayburg San Andres Unit No. 250

Dear Mr. Leking,

Please find enclosed for your files copies of the following reports:

- Site Closure Report, Chevron West Dollarhide Drinkard Unit # 148, Section 31 (Unit I), Township 24 South, Range 38 East, Lea County, NM, RP# 10-5-2512 (Final Form C-141 also included with report)
- Pit Closure Report (As attachment to Form C-144), Vacuum Grayburg San Andres Unit #250, API #30-025-38001, Unit Letter H, Section 1, Township 18 South, Range 24 East, Lea County, New Mexico

These reports were prepared by Conestoga-Rovers & Associates (CRA) on behalf of Chevron Environmental Management Company (CEMC) to document remedial activities performed for CEMC at the above-referenced project sites. Also enclosed are electronic copies of both reports on CD-ROM.

Should you have any questions regarding the content of either report, please do not hesitate to contact me by phone at 713-372-7705 or via e-mail at kegan.boyer@chevron.com.

Sincerely,

Kegan W. Boyer, P.G. Environmental Project Manager

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action

	OPERATOR	Initial Report	\boxtimes	Final Report
Name of Company Chevron Environmental Management Company (CEMC)	Contact Kegan Boyer			
Address 1400 Smith Street, Houston Texas, 77002	Telephone No. 713-372-7705			
Facility Name West Dollarhide Drinkard Unit #148	Facility Type	 		

Surface Owner George Willis

Mineral Owner Chevron

Lease No.

LOCATION OF RELEASE

Unit Letter I	Section 31	Township 24	Range 38 E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
	the second se	the second se	and the second s			A CONTRACTOR OF		

Latitude_____Longitude_

NATURE OF RELEASE

Type of Release Produced Water	Ve	lume of Release 88.043 bbls	Volume Recovered 50.5 bbls
Source of Release 2" West Lateral Line	125.5	te and Hour of Occurrence /2010 @ 11:30	Date and Hour of Discovery 5/1/2010 @ 11:30
Was Immediate Notice Given?		YES, To Whom?	
🛛 Yes 🗌	No 🗌 Not Required 5/1	/10 - approx. 8:00pm - E L Go	nzales
By Whom? Ricky Heredia	Da	te and Hour 5/1/2010 @ 8:00pr	n
Was a Watercourse Reached?		YES, Volume Impacting the Wa	atercourse.
Describe Cause of Problem and Remedial Actio High Pressure 2" line failed causing spill 0.8683 Field Specialist shut in pump and isolated leak a	bbls oil and 87.174 bbls Produ	uced Water	
Describe Area Affected and Cleanup Action Tak **Ricky Heredia – Dollarhide Field HES, called Free liquids were removed from the spill area. S behalf of Chevron documenting Clean Up Actio	Larry Johnson on 5/1/10 @ 1 ee attached Site Closure Repor		
I hereby certify that the information given above	federa and executed as the ba		

//	R	OIL CONSERVATION DIVISION				
Signature: <i>Keyn</i> Printed Name: Kegan E	11	Approved by District Supervisor:				
Title: CEMC Project M	lanager	Approval Date:	Expiration Date:			
E-mail Address: kegan	.boyer@chevron.com	Conditions of Approval:		Attached		
Date:	Phone: (713) 372-7705	6.1 - C				



SITE CLOSURE REPORT

CHEVRON WEST DOLLARHIDE DRINKARD UNIT #148 SECTION 31 (UNIT I), TOWNSHIP 24 SOUTH, RANGE 38 EAST LEA COUNTY, NEW MEXICO RP# 10-5-2512

Prepared For:

Mr. Kegan Boyer Chevron Environmental Management Company 1400 Smith Street, Room 07086 Houston, Texas 77002

> Prepared by: Conestoga-Rovers & Associates

> 2135 South Loop 250 West Midland, Texas 79703 Office: (432) 686-0086 Fax: (432) 686-0186

web: http://www.CRAworld.com

April 2013 Ref. no. 073041 (2)

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1.0 INTRODUCTION

This Site Closure Report provides documentation associated with corrective actions at the West Dollarhide Drinkard Unit #148 (WDDU), Lea County, New Mexico. The closure activities were documented and performed by Conestoga-Rovers & Associates (CRA) under the direction of Chevron Environmental Management Company (CEMC). A remediation permit number, RP 10-5-2512 was assigned to the release incident by the New Mexico Oil Conservation Division (NMOCD) Hobbs office.

The Chevron West Dollarhide Drinkard Unit #148 (hereafter referred to as the "Site"), is located in Section 31 (Unit I), Township 24 South, Range 38 East, Lea County, New Mexico (Figure 1).

The scope of work for the subject corrective actions and corresponding activities was developed between CEMC, NMOCD and CRA personnel. CRA was responsible for the project management, general oversight of the reclamation activities and documentation of the field work. The agreed upon scope of services included:

- Obtaining proper site specific training, permits and involving appropriate stakeholders needed to conclude scope of work.
- Remove impacted soils excavated from the Site and transport to a Chevron approved waste facility.
- Lay poly liner in an excavated pit area and backfill the excavation pit using clean topsoil transported from an off-site source.
- Provide final backfilling, grading, ripping and seed dispersal for the affected area of the Site.
- Prepare Site Closure documents for submittal with the Final C-141 Release Notification and Corrective Action Form to the NMOCD requesting site closure.

2.0 <u>SITE HISTORY / ASSESSMENT</u>

According to information provided within the C-141 Form filed with the NMOCD, a 2-inch WDDU #64 water injection line released approximately 87.1734 barrels of produced water and 0.8683 barrels of oil south of the WDDU #148 location on May 1, 2010. A reported 50.5 barrels of fluids were recovered by a vacuum truck during response activities.

On May 13, 2010, Ron's Welding Inc. (RWI) and an environmental consultant, Ms. Cindy Crain, mobilized to the site to perform soil assessment tasks. Heavy equipment was utilized to obtain soil samples from various depths down to 17 feet below ground surface (bgs) at six test pit locations. Analytical results demonstrated three locations, SS-3, SS-5 and SS-6 as having elevated chloride (>1,000 mg/kg) concentrations. The three other locations demonstrated hydrocarbon and chloride concentration levels below regulatory levels established for this location. A large remedial excavation with an approximate dimension of $325' \times 75' \times 5'$ deep was present at the site, along with a smaller (90' x 40' x5') remedial excavation situated south of the WDDU #148 well pad. The volume of soils removed offsite to the Sundance facility in Eunice, New Mexico from the excavation and was reported to CRA to be approximately 2,100 cubic yards.

On January 11, 2011, Tom Larson and James Ornelas with CRA, Matt Hudson with Chevron and Marcos Silvestri with AECOM met with the NMOCD District 1 office (Mr. Larry Johnson) to discuss the subject project. Discussions from the meeting included previous NMOCD communications, assessment/delineation data and remedial activities performed at the Site to date. Additional vertical/horizontal delineation and Site restoration activities were also discussed. After review of the information and verbal communication, Mr. Johnson requested that three soil borings be advanced adjacent to the SS-3, SS-5 and SS-6 test pit locations. The objective of the boring program was to evaluate the vertical extent of chloride impacts at the requested locations. Mr. Johnson verbally indicated to Chevron that no additional excavation activities would be required if the soil boring data indicated decreasing trends with regard to depth and groundwater not being threatened by the produced water release.

A correspondence was submitted to the NMOCD by CRA dated January 18, 2011 entitled, "Proposed Delineation and Closure Activities for Remediation Plan 10-5-2512". This plan provided data from the 2010 assessment and corrective action activities, the initial C-141 Form submittal, as well as proposed delineation and closure activities for the release incident. The Proposed Delineation/Closure Activities is provided in Appendix A.

Additional soil assessment and delineation activities were conducted at the Site between April 2011 and January 2012. In April 2011, three soil borings were advanced in the vadose zone beneath the release area to further evaluate the vertical extent of soil impacts. Subsequent soil assessment events were conducted using sidewall and hand augering methods through January 2012.

On June 27, 2012, Tom Larson with CRA and David Pagano with Chevron met with NMOCD staff to finalize the subject project's soil assessment and restoration activities. Discussions from the meeting included review of previous NMOCD communications, 2010-2012 assessment/delineation data, and remedial activities performed at the site to date. Additional soil removal and site restoration activities were discussed and the most recent results of delineation efforts (including soil boring, hand auger and sidewall programs) were reviewed. NMOCD staff concurred that no additional delineation is required; however, additional soil removal in a small area at the northeast end of the existing large excavation was requested by the agency as part of the closure tasks.

3.0 <u>CORRECTIVE ACTIONS</u>

The field implementation of the approved site closure activities began on November 27, 2012. Entact of Dallas, Texas provided labor, heavy equipment and pit lining material. RWI of Hobbs, New Mexico provided haul trucks required for the field operations. CRA was responsible for the overall coordination of field operations, project management tasks and the safety of all CRA employees working on Site. Two fiberglass lines including an unidentified 2-inch line and an identified 3-inch line were located within the excavated pit on November 27, 2012. Both the 2-inch and 3-inch lines were ultimately confirmed as being owned by Chaparral. Hydro-excavation activities were used to positively identify the 2-inch line by Riley Industrial on December 3, 2012. Chaparral, owner of the lines cold tapped the 2-inch line on December 4, 2012, and verified the line as abandoned. As instructed, Chaparral's 3-inch and 2-inch fiberglass lines that were left exposed in the excavation pit were cribbed on December 4, 2012. Impacted soil was removed from the northeast areas of the excavation and transported by RWI to Sundance disposal facility. The proposed and approved field work activities were completed on December 6, 2012. A Site Chronology of the daily work activities is provided in Appendix B. Site photographs documenting work activities are presented in Appendix C.

3.1 LINING AND BACKFILLING OF REMEDIAL EXCAVATIONS

Restoration activities at the Site began on November 27, 2012 with the staging of heavy equipment near the borrow pit and excavated pit areas. Installation of excavated pit liner (20 mil) started and was completed on November 28, 2012 by Entact. Backfill of the excavated pit areas began on November 29, 2012. RWI transported approximately 2,388 cubic yards (cy) of clean fill that was mobilized from an off-site borrow pit provided by Mr. George Willis. Backfill activities were concluded on December 4, 2012, with final grading operations including a crown of backfill materials across former remedial excavation. On December 5 and 6, 2012, impacted soils from the northeast portion of the Site were removed and loaded for transport per NMOCD recommendations for Site closure. A total of 132 cy of impacted soil was hauled to Sundance disposal facility (project total 2,232 cy), in Lea County, New Mexico. On December 6, 2012, the Site was graded to minimize erosion, ripped with heavy machinery and a New Mexico native seed mixture was dispersed for final site closure. On December 7, 2012 equipment was demobilized from the Site.

3.2 WASTE MANAGEMENT

CRA was responsible for managing waste associated with the 2012 project activities (132 cy). Sundance disposal facility was utilized as a disposal facility for impacted soils. Sundance is an NMOCD and Chevron approved facility. The material was loaded into trucks provided by RWI. Each truck leaving the Site was provided with a uniquely numbered non-hazardous waste manifest to accompany each load. The manifest was signed by the generator (CEMC's agent), the transporter, and finally by the Sundance facility's representative. Table 2 provides disposal volumes (in cubic yards), as well as manifest and vehicle numbers for the waste material that was transported off of the Site.

All non-hazardous waste manifests and RWI delivery tickets for this project are included in Appendix D.

Certified Laboratory Reports for the 2011 – 2012 soil sampling events are provided in Appendix E.

4.0 <u>SUMMARY</u>

The agreed upon scope of work and closure plan activities for the reclamation of the Chevron WDDU #148 Lea County, New Mexico, has been completed (RP# 10-5-2512). The following is a summary of project milestones and work performed:

- On May 1, 2010 at 11:30 am, Chevron notified the NMOCD of the release incident near the WDDU #148 wellpad. A C-141 Form was submitted to the agency by Chevron on May 3, 2010.
- On May 13, 2010 on behalf of Chevron, RWI and an environmental consultant (Ms. Cindy Crain) mobilized to the site to perform soil remediation and assessment tasks. Approximately 2,100 cy of soils were removed from the Site and disposed of at the Sundance facility in Eunice, New Mexico. Soil samples were collected from six test trenches within the remedial excavation.
- A correspondence was submitted to the NMOCD by CRA dated January 18, 2011 entitled, "Proposed Delineation and Closure Activities for Remediation Plan 10-5-2512". This plan provided data from the 2010 assessment and corrective action activities, the initial C-141 Form submittal, as well as proposed delineation and closure activities for the release incident.
- In April 2011, CRA advanced three soil borings in the vadose zone beneath the release area to further evaluate the vertical extent of soil impacts. Additional delineation sampling events, using sidewall and hand augering sampling methods were conducted through January 2012.
- On June 27, 2012, after NMOCD reviewed all of the assessment and remediation activities performed to date the agency approved final project soil assessment and restoration activities per the January 2011 Remediation Plan.
- Final project soil assessment restoration activities involving heavy equipment commenced on November 27, 2012, and were completed on December 6, 2012.
- The two excavation pit floor areas were lined with a (20-mil) plastic liner and covered with approximately 2,388 cy of backfill materials obtained from an off-site location provided by Mr. George Willis.
- On December 5 and 6, 2012, impacted soils were removed from the northeast portion of the Site and loaded for offsite disposal. Approximately 132 cy of impacted soil were transported to the Sundance disposal facility. The total of soils removed from the excavated spill area was approximately 2,232 cy.
- Construction affected areas were graded to minimize surface water runoff and erosion. The ground was then ripped using heavy equipment, and a New Mexico native seed mixture was dispersed for final Site closure.

5.0 SITE CLOSURE REQUEST

This Site Closure Report provides documentation of the West Dollarhide Drinkard Unit #148 soil assessment activities involving the impacted soil areas and remedial correctional actions performed in accordance to the RP# 10-5-2512. Based on NMOCD communication and corrective actions performed to date, CRA, on behalf of CEMC, respectfully request the NMOCD to rule that no further action for this site is warranted. This Site Closure Report concludes the scope of work for this project. Please feel free to contact the CRA Midland office if there are any questions or additional information is required.

All of which is Respectfully Submitted,

CONESTOGA-ROVERS & ASSOCIATES

Thomas Clayon

Thomas C. Larson Midland Operations Manager

BKK

Ryan Kainer Project Manager

FIGURES

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RE: USGS 7.5 Minute Topographic Maps.

73041-2013(002)PR-BR001





TABLES

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	TABLE 1 WEST DOLLARHIDE DRINKARD UNIT #148 SOIL ANALYTICAL SUMMARY (2011-2012) LEA COUNTY, NEW MEXICO											
Sample	Sample Sample Depth Ethyl- V I DTTV TPH											
ID	Date	(feet or inches bgs)	Benzene	Toluene	Benzene	Xylenes	BTEX	GRO(C6- C10)	DRO(C10-C28)	Total (GRO/DR	Chloride	
			(mg/Kg)	(mg/Kg)	(ug/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	
	Remediation Act Ranking Score: 0)		10mg/Kg				50mg/Kg			5000 mg/Kg		
				SOIL	BORING	RESULTS	5					
SB-1 29-30'	04/28/11	29-30'	< 0.0023	< 0.0023	< 0.0023	< 0.0058	BDL	< 0.2	4.8 J	BDL	69.6	
SB-1 49-50'	04/28/11	49-50'	< 0.0023	< 0.0023	< 0.0023	< 0.0057	BDL	< 0.2	< 4.5	BDL	754	
SB-1 69-70'	04/28/11	69-70'	< 0.0021	< 0.0021	< 0.0021	< 0.0052	BDL	< 0.2	< 4.3	BDL	60.4	
SB-2 29-30'	04/28/11	29-30'	< 0.0021	< 0.0021	< 0.0021	< 0.0052	BDL	< 0.2	< 4.2	BDL	2,670	
SB-2 49-50'	04/28/11	49-50'	< 0.0022	< 0.0022	< 0.0022	< 0.0055	BDL	< 0.2	8.0 J	BDL	1,170	
SB-2 69-70'	04/28/11	69-70'	< 0.0022	< 0.0022	< 0.0022	< 0.0055	BDL	< 0.2	< 4.5	BDL	175	
SB-3 29-30'	04/28/11	29-30'	< 0.0022	< 0.0022	< 0.0022	< 0.0056	BDL	< 0.2	< 4.1	BDL	220	
SB-3 39-40'	04/28/11	39-40'	< 0.0020	< 0.0020	< 0.0020	< 0.0050	BDL	< 0.2	< 4.2	BDL	114	
SB-3 49-50'	04/28/11	49-50'	< 0.0021	< 0.0021	< 0.0021	< 0.0052	BDL	< 0.2	< 4.1	BDL	40.4 J	
	• •	S.	IDEWALL/H	AND AUGE	R CONFIR	MATION SA	MPLING R	ESULTS				
SX- NSW 3'	04/28/11	3'	< 0.0021	< 0.0021	< 0.0021	< 0.0053	BDL	< 0.2	40	40	275	
SX-WSW 3'	04/28/11	3'	< 0.0019	< 0.0019	< 0.0019	< 0.0048	BDL	< 0.2	10 J	BDL	282	
SX-SSW 3'	04/28/11	3'	< 0.0020	< 0.0020	< 0.0020	< 0.0049	BDL	< 0.2	12 J	BDL	274	
SX- ESW 3'	04/28/11	3'	< 0.0020	< 0.0020	< 0.0020	< 0.0051	BDL	< 0.2	21	21	254	
LX-SSW 3'	04/28/11	3'	< 0.0021	< 0.0021	< 0.0021	< 0.0053	BDL	< 0.2	< 4.0	BDL	11,900	
LX- ESW 3'	04/28/11	3'	< 0.0021	< 0.0021	< 0.0021	< 0.0052	BDL	< 0.2	< 4.1	BDL	362	
LX-SWSW3'	04/28/11	3'	< 0.0019	< 0.0019	< 0.0019	< 0.0048	BDL	< 0.2	< 4.1	BDL	102	
LX-NESW3'	04/28/11	3'	< 0.0020	< 0.0020	< 0.0020	< 0.0050	BDL	< 0.2	210	210	1,760	
LX-36'SW1	11/8/11	3.5'	< 0.005	0.0056	< 0.005	0.0059J	BDL	< 1.0	<13	BDL	17.9	
LX-36'SW2	11/8/11	3'	< 0.005	< 0.005	< 0.005	< 0.015	BDL	< 1.0	<12	BDL	<10.5	
LX-SSW3'+40'	07/25/11	3'	< 0.0054	< 0.0054	< 0.0054	< 0.016	BDL	< 1.1	5.4J	BDL	1,150	
LX-NESW3'+25	507/25/11	3'	< 0.0055	< 0.0055	< 0.0055	< 0.017	BDL	< 1.1	5.3J	BDL	2,040	
LX-30'NE1	11/8/11	3'	< 0.0051	< 0.0051	< 0.0051	< 0.015	BDL	< 1.0	<13	BDL	159	
LX-30'NE2	11/8/11	3'	< 0.0052	< 0.0052	< 0.0052	< 0.015	BDL	< 1.0	<6.3J	BDL	901	
LX-60'NE3	1/16/12	3'	< 0.0055	< 0.0055	< 0.0055	< 0.017	BDL	< 1.1	<16	BDL	16.3	
LX-60'NE4	1/16/12	3'	<0.0031J	<0.0032J	<0.0032J	< 0.0081	BDL	< 1.1	<16	BDL	16.9	

NOTES:

Values reported in mg/Kg.
<. or BDL: below laboratory detection limits.'J' reported as estImated value.

3. *NMOCD Remediation Action Levels.

4. BTEX analyses by EPA Method SW 8021B.

5. TPH analyses by EPA Method SW 8015B.

6. Chloride analyses by Method E300.0.

7. GRO/DRO = Gasoline/Diesel.

8. Elevated chloride concentrations shown as BOLD; take into consideration 9-30-2011 DRAFT OCD Guidance for Release Reporting and Corrective Actions.

073041-2 TBL 1

TABLE 2

WASTE INVENTORY

WEST DOLLARHIDE DRINKARD UNIT #148

SITE CLOSURE REPORT

DATE	TRUCK NUMBER	MANIFEST NUMBER	QUANTITY OF WASTE (cubic yards)
12/05/2012	02	0013124	12
12/05/2012	02	0013129	12
12/06/2012	02	0013120	12
12/06/2012	02	0013123	12
12/05/2012	03	0013126	12
12/05/2012	03	0013128	12
12/06/2012	03	0013122	12
12/06/2012	03	0013119	12
12/05/2012	330	0013125	12
12/05/2012	330	0013127	12
12/06/2012	330	0013121	12
		1	132 Total

APPENDICES

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APPENDIX A

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2135 S. Loop 250 West Midland, Texas 79705 Telephone: (432) 686-0086 http://www.craworld.com

Fax: (432) 686-0186

Reference No. 073041

January 18, 2011

Mr. Geoffery Leking New Mexico Oil Conservation Division District I Office - 1625 N. French Drive Hobbs, NM 88240

Proposed Delineation and Closure Activities for Remediation Plan 10-5-2512 Re: Chevron West Dollarhide Drinkard Unit Well #64 Injection Line Release (Unit Letter I) of Section 31, Township 24 South, Range 38 East Lea County, New Mexico

Dear Mr. Leking:

On behalf of Chevron Environmental Management Company (Chevron), Conestoga-Rovers and Associates (CRA) herewith submits this correspondence for Remediation Plan #10-5-2512 to the New Mexico Oil Conservation Division (OCD) regarding proposed assessment and remedial activities associated with the subject injection line release location (Site). The Site is also proximate to the WDDU #148 well location (FIGURE 1). The Dollarhide Chevron office immediately notified Mr. Larry Johnson with the Hobbs OCD office by telephone on May 1, 2010 and submitted the required C-141 Release Notification and Corrective Action Form dated May 3, 2010 (attached).

PROJECT INFORMATION

The subject release location is situated approximately seven miles northeast of Jal, in Lea County, New Mexico. According to information from the C-141 Release Notification and Corrective Action form filed with the New Mexico Oil Conservation Division (OCD), a two-inch WDDU #64 water injection line released approximately 87.1734 barrels of produced water and 0.8683 barrels of oil south of the WDDU #148 location on May 1, 2010. A reported 50.5 barrels of fluids were recovered by a vacuum truck during response activities. The Chevron Midland office and Dollarhide FMT office (Ricky Heredia) have been in contact with the OCD regarding the ongoing status of the assessment and remediation work associated with this produced water release site.

The Site is not located within 1000 feet of any surface water bodies or wellhead protection areas. Review of surface elevation and depth to water data from the online Petroleum Resource Center's New Mexico Pit Rule Mapping Portal indicates the depth to groundwater beneath the Site to be slightly greater than 100 feet below the ground surface. Consequently, OCD Recommended Remediation Action Levels (RRALs) applied to this site are 10 ppm benzene, 50 ppm BTEX, 5,000 ppm TPH and 1,000 ppm chlorides.

On May 13, and on behalf of Chevron, Ron's Welding Inc. (RWI) and an environmental consultant, Ms. Cindy Crain, mobilized to the site to perform soil assessment tasks. Heavy equipment was utilized to obtain soil samples from various depths down to 17 feet below ground surface (bgs) at six test pit

> Equal Employment Opportunity Employer



January 18, 2011

Reference No. 073041

locations (see attached analytical table). Analytical results demonstrate three locations, SS-3, SS-5 and SS-6 with elevated chloride (>1000 mg/kg) concentrations. The three other locations demonstrated hydrocarbon and chloride concentration levels below RRALs established for this location. The Site sketch provides locations of the test pits and the configuration of the resulting remedial excavation. Three active pipelines, including the high-pressure injection line – are exposed in the excavation. A large remedial excavation with an approximate dimension of $325' \times 75' \times 5'$ deep exists at the site. A smaller (90' x 40' x5') remedial excavation is situated south of the WDDU #148 well pad. The volume of soils removed offsite to the Sundance facility in Eunice, NM, from the excavation has been reported to CRA to be approximately 2,100 cubic yards.

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On January 11, 2011, Tom Larson and James Ornelas with CRA, Matt Hudson with Chevron and Marcos Silvestri with AECOM met you at the OCD District 1 office to discuss the subject project. Discussions from the meeting included previous OCD communications, assessment/delineation data (see attached) and remedial activities performed at the Site to date. Additional vertical/horizontal delineation and Site restoration activities were also discussed and are outlined below in the proposed Site closure activities.

PROPOSED SITE CLOSURE ACTIVITIES

Additional Horizontal and Vertical Delineation

Results of the soil sampling (test pit) analysis and notification of the removal of impacted soils (to 5' bgs) at the WDDU #64 injection line release site were communicated by Chevron to Larry Johnson with the OCD District 1 office in Hobbs, NM in the summer of 2010. After review of the information and in a verbal communication, Mr. Johnson requested that three soil borings be advanced adjacent to the SS-3, SS-5 and SS-6 test pit locations (see attached table of analytical results and map). Note the subject test pit locations (3) have elevated chloride concentrations in the soils at depth. The objective of the boring program is to evaluate the vertical extent of chloride impacts at the respective locations. As requested, Chevron proposes the installation of three soil borings adjacent to test pits to a proposed depth of 40' bgs. Prior to boring installation, the ramp construction to access the boring locations will be required. Soil boring samples will be collected in 5 foot intervals from the excavation floor to the proposed total depth of 40 feet. CRA will log the lithology and characteristics of soils within the borings. The depth, location and sampling intervals will be based on the professional judgment of the CRA geologist/site supervisor and field conditions encountered. Soil samples will be analyzed by ALS Laboratories of Houston, Texas for chlorides using EPA Method 300; benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B and Total Petroleum Hydrocarbons (TPH) using EPA Method 8015 (modified) for DRO/GRO). The soil borings will be plugged with bentonite and boring records will be provided to the State of New Mexico. Proposed soil boring and sidewall sample locations are provided in FIGURE 2.

In addition, four sidewall samples will be collected in the larger remedial excavation northeast of the WDDU #148 wellhead and four sidewall samples will be collected from the smaller remedial excavation south of the WDDU #148 wellhead. The sidewall samples will be utilized to evaluate the horizontal extent of soil impacts and will be analyzed for the same analytical suite proposed for the soil borings.



January 18, 2011

Reference No. 073041

Results of the additional horizontal and vertical delineation activities will be compiled and submitted to the OCD District 1 office for review. Recommendations for any additional assessment and remediation activities, as appropriate, will be discussed with the OCD at this time.

3

Site Restoration Activities

The proposed Site restoration activities will not be initiated without OCD concurrence and notifications. Subsequent to OCD review of the additional horizontal and vertical delineation data, additional soil removal may or may not be proposed by Chevron. At this time and for remediation plan discussion purposes, Chevron proposes the following at this active pipeline location:

- Installation of a 20-mil poly liner on the floor (approximately 5 feet) of the two remedial excavations
- Importation of clean, soil and caliche materials (approximately 2,500 cubic yards) above the liners to match the surface topography
- Ripping and seeding of the construction-affected area utilizing a seed mixture as designated by the property owner

The implemented remediation plan and Site closure activities will be compiled and included in the FINAL C-141 report associated with this release incident. Chevron is prepared to begin the proposed work immediately to OCD concurrence. Please contact Tom Larson with CRA at 423-686-0086 if you would like to discuss this matter in more detail. Thanks in advance for your considerations and we look forward to working with the OCD on this remediation plan. Your timely response to this correspondence is appreciated.

Yours truly, CONESTOGA-ROVERS & ASSOCIATES

homas Clayon

Thomas C. Larson Operations Manager

Enclosures:

FIGURE 1 - Site Location Map FIGURE 2 - Proposed Soil Boring Location Map OCD Initial Report Form C-141 Soil Analytical Table From Delineation Activities

cc.: Mr. Matt Hudson, Chevron Environmental Management Company (Houston) Mr. Marcos Silvestri, AECOM (Houston)

District I State of New Mexico 1625 N. French Dr., Hobbs, NM 88240 Form C-141 District II Energy Minerals and Natural Resources Revised October 10, 2003 1301 W. Grand Avenue, Artesia, NM 88210 District III Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back Oil Conservation Division 1000 Rio Brazos Road, Aztec, NM 87410 1220 South St. Francis Dr. District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 side of form Santa Fe, NM 87505 **Release Notification and Corrective Action** OPERATOR X Initial Report Final Repor Name of Company Chevron Contact Ricky Heredia Address PO Drawer 29 Andrews, Texas 79714 Telephone No. 432-523-365 ext 7603 Facility Name West Dollarhide Drinkard Unit Facility Type Surface Owner George Willis Mineral Owner Chevron Lease No. LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line East/West Line Feet from the County 31 24 S 38 E Latitude Longitude NATURE OF RELEASE Type of Release Produce Water Volume of Release 88.043 bbls Volume Recovered 50.5 bbls Source of Release Date and Hour of Occurrence Date and Hour of Discovery 2" West Lateral line 5/1/2010 11:30 5/1/2010 11:30 Was Immediate Notice Given? If YES, To Whom: 5-1-10 approx 8:00pm X Yes No Not Required EL Gonzales By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes X No If a Watercourse was Impacted, Describe/Fully.* 11 307 nisan PA11 Describe Cause of Problem and Remedial Action Taken.* High Pressure 2" line failed causing spill 0.8683 bbls oil and 87.174 bbls Produce Water Field Specialist shut in pump and isolated leak called out vacuum truck Describe Area Affected and Cleanup Action Taken.* Free liquids were removed from the spill area. The impacted area will be evaluated for depth and quantity of chlorides. If additional remediation is needed a work plan will submitted to the NM ODD describing the proposed actions to be taken. 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 federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: 1 10 Approved by District Supervisor: Printed Name: 1-Title: Dollarhide Field HES Approval Date: Expiration Date: E-mail Address: rhrc@chevron.com Conditions of Approval: Attached Date: 5/3/2010 Phone: 432-238-2343 Attach Additional Sheets If Necessary

Table 1:

Summary of Laboratory Analysis of Soil Samples from Delineation Activities

Chevron, West Dollarhide Drinkard Unit (WDDU) # 148

Unit Letter I, Section 31, Township 24 South, Range 38 East

Lea County, New Mexico

Sample Date	Soil Sample Number	Sample Depth (feet BGS)	TPH - GRO (C6 - C10) (mg/kg)	TPH - DRO (>C10 - C28) (mg/kg)	Total TPH (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
	V	VOCC Standa	ard		5,000	10	50	1,000
5/13/10	SS-1	0-6"	<10.0	158	158	< 0.050	<0.45	20,600
5/13/10		3	<10.0	<10.0	<20.0			4,640
5/13/10		5						3,200
5/13/10		7.5						1,090
5/13/10	2	10						880
5/13/10	1	15		***				256
5/13/10	SS-2	0-6"	<10.0	<10.0	<20.0	< 0.050	<0.45	<16
5/13/10		2.5	<10.0	<10.0	<20.0			1,090
5/13/10		5						
5/13/10		7.5						
5/13/10		10						608
5/13/10		15						304
5/13/10	SS-3	0-6"	395	11,400	11,795	<0.050	4.98	20,000
5/13/10		2.5	2,330	5,630	7,960	0.378	40.358	3,840
5/13/10		5	55.6	290	345.6	< 0.050	3.325	3,480
5/13/10		7.5	<10.0	43.3	43.3			4,160
5/13/10	1	10						3,680
7/14/10		15						4,320
5/13/10	SS-4	0-6"	1,160	16,000	17,160	0.127	15.937	4,800
5/13/10		2.5	<10.0	<10.0	<20.0			3,360
5/13/10		5						1,300
5/13/10		7.5						4,320
5/13/10		10						6,300
5/13/10	0	15						4,240
7/14/10		20						464
5/13/10	SS-5	0-6"	1,380	24,200	25,580	0.120	13.11	10,800
5/13/10		2.5	19.6	189	208.6			3,720
5/13/10		5						4,160
5/14/10	-	7.5					***	1,490
5/14/10		10			-		-77	1,100
5/14/10		15						2,04
8/9/10		17						1,420
5/14/10	SS-6	0-6"	<10.0	19.9	19.9	< 0.050	0.61	4.72
5/14/10		2.5	<10.0	<10.0	<20.0			1,80
5/14/10	1	5						2,44
5/14/10		7.5			***			2,920
5/14/10		10						1,52

Notes: Samples Analyzed by Cardinal Laboratories, Hobbs, New Mexico

1. BGS: Depth in feet below ground surface

2. mg/kg: Milligrams per kilogram

3. --- No Data Available

4. < Less than method detection limit



073041-00(001)GN-MD001 JAN 19/2011



Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Report
Name of Company Chevron Environmental Management	Contact Kegan Boyer		
Company (CEMC)			
Address 1400 Smith Street, Houston Texas, 77002	Telephone No. 713-372-7705		
Facility Name West Dollarhide Drinkard Unit #148	Facility Type		

Surface Owner George Willis

Date: 04/12/13

Mineral Owner Chevron

Lease No.

LOCATION OF RELEASE

Γ	Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	Ι	31	24	38 E					Lea

Latitude_____ Longitude____

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 88.043 bbls	Volume Re	ecovered 50.5 bbls	
Source of Release 2" West Lateral Line	Date and Hour of Occurrence	Date and H	our of Discovery	
	5/1/2010 @ 11:30	5/1/2010 @	2 11:30	
Was Immediate Notice Given?	If YES, To Whom?			
🛛 Yes 🗌 No 🗌 Not Require	5/1/10 - approx. 8:00pm - E L Go	nzales		
By Whom? Ricky Heredia	Date and Hour 5/1/2010 @ 8:00pn			
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.		
🗌 Yes 🖾 No				
If a Watercourse was Impacted, Describe Fully.*				
Describe Cause of Problem and Remedial Action Taken.*				
High Pressure 2" line failed causing spill 0.8683 bbls oil and 87.174 bb	ls Produced Water			
Field Specialist shut in pump and isolated leak and called out a vacuum				
Describe Area Affected and Cleanup Action Taken.*				
**Ricky Heredia – Dollarhide Field HES, called Larry Johnson on 5/1/				
Free liquids were removed from the spill area. See attached Site Closure Report (April 2013) submitted by Conestoga Rovers & Associates (CRA) on behalf of Chevron documenting Clean Up Action Taken.				
count of one for documenting clear op reach				
I hereby certify that the information given above is true and complete to				
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				
should their operations have failed to adequately investigate and remedi or the environment. In addition, NMOCD acceptance of a C-141 report				
federal, state, or local laws and/or regulations.	t does not reneve the operator of respon	sionity for con	inpliance with any other	
rederal, state, or rocar laws and/or regulations.	OIL CONSER	VATION I	OIVISION	
	<u>OIL CONSER</u>	VATION		
Signature:				
Approved by District Supervisor:				
Printed Name: Kegan Boyer				
Title: CEMC Project Manager	Approval Date:	Expiration D	ate:	
E-mail Address: kegan.boyer@chevron.com	Conditions of Approval:			
L-man Address. Regan.boyci wenevion.com	Conditions of Approval.		Attached	

Phone: (713) 372-7705

* Attach Additional Sheets If Necessary

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

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Surface Owner George Willis

Mineral Owner Chevron

Lease No.

LOCATION OF RELEASE

Unit Le	tter Sec	ction	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	3	31	24	38 E					Lea

Latitude_____ Longitude____

NATURE OF RELEASE

Type of Release Produced Water		Volume of Release 88.043 bbls	Volume Re	ecovered 50.5 bbls
Source of Release 2" West Lateral Line		Date and Hour of Occurrence	Date and H	lour of Discovery
		5/1/2010 @ 11:30	5/1/2010 @	9 11:30
Was Immediate Notice Given?		If YES, To Whom?		
🛛 Yes 🗌 No 🗌	☐ Not Required	5/1/10 – approx. 8:00pm – E L Go	nzales	
By Whom? Ricky Heredia		Date and Hour 5/1/2010 @ 8:00pm	n	
Was a Watercourse Reached?		If YES, Volume Impacting the Wa	tercourse.	
🗌 Yes 🖾 No				
If a Watercourse was Impacted, Describe Fully.*		·		
Describe Cause of Problem and Remedial Action Taken				
High Pressure 2" line failed causing spill 0.8683 bbls oil Field Specialist shut in pump and isolated leak and calle				
Field Specialist shut in pump and isolated leak and cane	d out a vacuum tri	uck		
Describe Area Affected and Cleanup Action Taken.*				
**Ricky Heredia – Dollarhide Field HES, called Larry J	ohnson on 5/1/10	@ 11:30 TX. Larry Johnson approve	ed work start -	- noting to keep him informed.
Free liquids were removed from the spill area. See attached report submitted by Conestoga Rovers & Associates (CRA) for Clean Up Action Taken.				
	-			-
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				
federal, state, or local laws and/or regulations.	r a C-141 lepoit de	bes not reneve the operator of respon	sidinty for co	inpliance with any other
rederal, state, of rocal laws and/or regulations.		OIL CONSER		DIVISION
		<u>OIL CONSER</u>		
Signature:				
Approved by District Supervisor:				
Printed Name: Kegan Boyer				
Title: CEMC Project Manager		Approval Date:	Expiration D	ate:
E-mail Address: kegan.boyer@chevron.com	(Conditions of Approval:		Attached
Date: 04/12/13 Phone: (713	3) 372-7705			
	1 514-1105			

* Attach Additional Sheets If Necessary

APPENDIX B

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Site Chronology – West Dollarhide Drinkard Unit #148 Restoration Project

Section 31 (Unit I), Township 24 South, Range 38 East Lea County, New Mexico

November 27, 2012 (Tuesday)	Received Dollarhide FMT site specific safety training for Entact staff. Located the site and borrow pit locations. Began field activities with safety meeting attended by Chevron, CRA, and Entact staff. Discussed CVX permits needed for the project activities. Discussed with Chaparral avenues of identifying the 2-inch fiberglass line located within the excavated pit (Robert Aaron). The 2-inch line was assumed active due to measures taken that have not proved positive identification of line ownership. Hazard identification (signs) with orange construction fencing was installed around the well and overhead electrical lines. The excavator was taken to the borrow pit for backfilling. The dozer was taken to the excavation pit area. Eric Page (CEMC) was contacted by Tom Larson and Ryan Kainer to inform of a change order to the project, regarding the line verification activities. Hydro-vacuum of the area near the header, 2-inch line and 3-inch (identified) line was proposed to investigate the path of the 2-inch line and to positively identify this line.
November 28, 2012 (Wednesday)	Entact received an excavation permit from Chevron OPCO Dollarhide to prep the bottom of the excavated pits for lining purposes. A confined space permit was also received from OPCO Dollarhide to enter the larger excavated pit and begin installing the liner. The liner was completely installed within the larger excavated pit, excluding the 30' buffer area surrounding the Chaparral lines. As of November 28, 2012, the 2-inch fiberglass line was to be assumed active. A 15' barrier on each side of the line was installed for safe measure and to avoid contact. Riley Industrial was contacted to perform hydro-vac of the 2-inch line near the 3-inch line adjacent to the header area and a CVX injection line. Riley performed the one call for the designated area of investigation. This work was started on Monday, December 3 [,] 2012. It was anticipated that this investigation would evaluate the activity of the 2 inch line that exists within the excavated pit. When the 2-inch line was determined abandoned, work continued within 15' of both lines including cribbing and backfilling. Clark Badley (CVX) was contacted for information included with the 2-inch line at the CVX injection trench. Mr. Badley commented that two lines in this area were breached during the trenching.
November 29, 2012 (Thursday)	Backfill of the two lined pits began on November 29, 2012. Entact and RWI loaded and transported 48 truck loads with 12 cubic yards within each load. Approximately 576 cubic yards of backfill material was emplaced within the excavated pits. Riley Industrial performed hydro- vac activities on the unidentified 2 inch fiberglass line on Monday, December 3-2012. The location investigated was east of the #148 site near the Chaparral header. Chaparral, along with CRA staff, will be onsite during this investigation.
November 30, 2012 (Friday)	Continued with backfilling operations. Loaded and hauled 69 loads at 12 cy per load. Emplaced materials into pits.

December 1, 2012 (Saturday)	Continued with backfilling operations. Loaded and hauled 46 loads at 12 cy per load. Emplaced materials into pits. Three day total backfill haul was 1956 cy. Activities were shut down on Sunday.
December 3, 2012 (Monday)	SWA was implemented for morning fog to lift. Hydroexcavation activities of 'unknown 2-inch' line at crossing and manifold locations near Chaparral header were performed using Riley (OPCO supplier) in an attempt to find the 'dead end'. Did not find dead end but Chaparral used field observations to claim ownership of the 'unknown 2-inch' line. Hauled 36 loads at 12 cys (432 cy) – total backfill haul for project to date was 199 loads at 12 cys/load = 2,388 cys.
December 4, 2012 (Tuesday)	Chaparral 'cold tapped' the previously unknown 2-inch line the morning of December 4, 2012. No liquids were present in the line (verified as abandoned line). As instructed, cribbed Chaparral's 3-inch and 2-inch lines that were left exposed in the remedial excavation using sandbags. Completed backfilling area surrounding Chaparral pipelines. Performed final grade operations, with crown, across former remedial excavations. Kegan Boyer was onsite to observe site operations.
December 5, 2012 (Wednesday)	Moved excavator to backfilled remediation site for loading of impacted soils for transportation to Sundance (Chevron SFU) facility near Eunice, New Mexico. Hauled 6 loads at 12 cys each for daily haul of 72 cys. Kegan Boyer was onsite to observe site operations.
December 6, 2012 (Thursday)	Hauled out all of the remaining impacted soils to Sundance – 5 loads at 12 cys each = 60 cy for the day. Total impacted soils to Sundance 132 cys – retained executed copies of manifests for CEMC and OPCO. Seeded site with grass mixture.

APPENDIX C



PHOTO 1: Remedial Excavation - May 2010



PHOTO 2: Remedial Excavation - May 2010

PHOTOGRAPH LOG Chevron West Dollarhide Drinkard Unit#148 Lea County, New Mexico





PHOTO 3: Remedial Excavation - May 2010



PHOTO 4: Remedial Excavation - May 2010, Showing Test Pit Location



PHOTGRAPHIC LOG Chevron West Dollarhide Unit #148 Lea County, New Mexico


PHOTO 5: View of Soil Boring Activities - April 2011



PHOTO 6: View of Soil Boring Activities - April 2011



PHOTOGRAPH LOG Chevron West Dollarhide Drinkard Unit #148 Lea County, New Mexico



PHOTO 7: Sand material to be used for backfill (Mr. George Willis Property)



PHOTO 8: Sand material used to backfill (Mr. George Willis Property)

PHOTOGRAPHIC LOG Chevron West Dollarhide Unit #148 Lea County, New Mexico





PHOTO 9: View of Supported Chaparral Water Injection Lines and Backfilling Activities - December 2012



PHOTO 10: View of Supported Chaparral Water Injection Lines and Backfilling Activities - December 2012



PHOTOGRAPH LOG Chevron West Dollarhide Drinkard Unit #148 Lea County, New Mexico



PHOTO 11: View of Backfilling Activities (20 mil Poly Liner) - December 2012



PHOTO 12: View of Backfilling Activities – December 2012



PHOTOGRAPHIC LOG Chevron West Dollarhide Unit #148 Lea County, New Mexico



PHOTO 13: View of Final Grading Activities - December 2012



PHOTO 14: View of Final Grading Activities - December 2012



PHOTOGRAPHIC LOG Chevron West Dollarhide Unit #148 Lea County, New Mexico

APPENDIX D

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NON-HAZARDOUS WASTE MANIFEST								229		•
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	ey Materials, inc. KU	JI		74		U.S. EPA ID				
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, Designated Facility Name a Sundance P. O. Box Eunice, N	Services (Parabo, Inc.) 1737					U.S. EPA ID		# NM-01-0	203	
	575-394-2511			10. Cont	ainars	11. Total	12. Unit		<u></u>	
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6. Transporter 1 Company Name		2DT	1076 W	Ħ	3	U.S. EPA ID		0000085	TGEQ	10401
7. Transporter 2 Company Name	Materials, Inc. /					U.S. EPA ID				
	ALAHOUSS N/A rs Name and Mailing Address Chevron Environmental Management Company 1400 Smith St, Room 07086 U M DOL. A [DID - FMA] Houston, TX 77002 Phone: (713) 372-7705 Attn: Kegan Boyer ter 1 Company Name L.M. Scharey Materials, Inc. Rut 1 ter 2 Company Name Rut 1 Surdance Services (Persbo. Inc.) P.O. Box 1737 Eurice, NM 85231 P.O. Box 1737 Eurice, NM 85231 hone: 575-394-2511 Attention Asset Shipping Name and Description Soit mpacted with Chorises Proceeding Sciences Manding Instructions and Additional Information Soit mpacted with Chorises Proceeding Sciences Manoling Instructions and Additional Information Soit mpacted with Chorises Proceeding Sciences Manoling Instructions and Additional Information Soit mpacted with Chorises Proceeding Sciences RATOR SOFFEROR'S CERTIFICATION: I hereby declare that the contents of this const and labeled/placarded, and are in all respects in proper condition for transport according softer acknowledgment of Receipt of Materials Proceeding Sciences and labeled/placarded, and are in all respects in proper condition for transport according softer acknowledgment of Receipt of Materials Proceeding Sciences atomateled/placarded, and are in all respects in proper condition for t				U.S. EPA ID	Number	. .			
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Type II (Tier II) MAMCP CT	1	<u> </u>		<eiinq< td=""><td>uisne</td><td>ed by:</td><td></td><td></td><td>-</td><td></td><td>Date</td><td>IIIme</td><td>Received by</td><td>r -</td><td>Date</td><td>Time</td></eiinq<>	uisne	ed by:			-		Date	IIIme	Received by	r -	Date	Time
Type III (Reduced NJ) Site-specific QC (Yes No	T						\geq	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>
Type IV (CLP SOW) (// yes, indicate QC sample and sub		,	F	Relinc	uishe	ed by:				-	Pate	Time	Received by	INA ALL	11	Time
Type VI (Raw Data Only) Internal COC Rec	unear res/No	·							_			∖	1 Xlelon	what last 4	129/11	0900

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Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 (717) 656-2300 Fax: (717) 656-6766 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Issued by Dept. 6042 Management 2102.05

lient: roject Name/#: roject Manager: ampler: ame of state where samples were collected: mple Identification $\leq \chi - \mathcal{N} \leq \mathcal{W} = \frac{1}{2}$ $\leq \chi - \mathcal{W} \leq \mathcal{W} = \frac{1}{2}$ $\leq \chi - \mathcal{W} \leq \mathcal{W} = \frac{1}{2}$	PWSID P.O.#: Quote #	#: #:		_		Check if Applicable	4			Pres	servatio							
ame of state where samples were collected: mple Identification	Date			I		e Che S App	ers	AT	kerd hand						N=HNO3 B	Codes =Thiosulfate =NaOH		6
			3			Detable	of Containers	7EX 8021B	CAN BOLD WED	7.92					S =H₂SO₄ O		<u> </u>	Temperature of samples
5X - NGW 3' 5X - WSW 3'		Time Collected	ab	Compo	Soil	Water	Other Total #	Ø	HAL	5					Remarks			Temperat
$5x - w \le w \le 2$	4.28,11	1505	۴		X		2	×	X	X								
		1515	$\left \right $		\square													
5X - 556331		1510	Ľ	L	Ľ													
5x - E5W3		1520		_	Ľ													-
LX- 55W 3'		1420	Ľ															_
$LK - E \leq W \leq 1$		1435			Ľ			\perp										
LX-5WSW3'		1440	$\left \right\rangle$															
$1 \times - N W \le W 2^{1}$		1445			1													
Temp Blank Trop Blank							1			V		Ţ						
Try Black							6	X										
furnaround Time Requested (TAT) (please				Reli	nqui	shed	by:				Date		Receiv	/ed by:		Da	te T	Time
Rush TAT is subject to Lancaster Laboratories app Date results are needed:	proval and surcha	Sdu			<u>_</u>	10	sn-	La	S		4:28:11	1855		<u> </u>		<u> </u>		
Rush results requested by (please circle):	Phone Fax	E-mail		Reli	nqui	shed	by:				Date	Time	Receiv	ved by:		Da	te T	Гime
Phone #: Fax #:											ļ							
E-mail address:				Reli	nqui	shed	by:				Date	Time	Receiv	ved by:		Da	te T	Time
Data Package Options (please circle if required		DG Complete®	ŀ													\rightarrow	=	
Type I (validation/NJ Reg) TX TRRP-13 Type II (Tier II) <u>MA MCP CT</u>		'es No		Reli	nqui	shed	by:				Date	Time	Receiv	ved by:		Da	ie 🖓	Time
Type III (Reduced NJ) Site-specific QC	(MS/MSD/Dup)?	Yes No									\wedge						$ \rightarrow $	
Type IV (CLP SOW) (If yes. Indicate OC sample and a Type VI (Raw Data Only) Internal COC Ref	submit triplicate volume.) equired? Yes / N	n		Reli	nqui	shed	bv:				Date				ana Nesl			Time

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	CRA	Simplified Scop	e of V	Vork (SSOW)/L	aboratory Se	ervices Purc	hase Order			
CRA Project No./Phase/Task: Project Location:	073041 Lea County, New M	ne Release Mexico		Da	base Summary: Itabase Maintained: Database Contact: Ibase Facility Code:	<u> </u>			DW Ref. Code	
		ental Management Com		Note: Is there more than one labor for this event? { SSOW on			′			
	West Dollarhide Di Soil Assessment &			Dat	<i>Rush TAT:</i> Report & EDD TAT: te Bottles Required: e Shipping Address	4/8/2011	_ Sample Batching:	S(ample event	
Start Date: Sampling Duration:						Midland, Texas 432-686-0086		Tom Larse	on	
Sampling Frequency:										
Contacts:	Name			Address		Phone	Cell		Email	
Client Project Manager:	Matt Hudson					713-372-9207		mhudson@d	chevron.com	
Consulting Firm: Project Manager: Field Leader:	CRA Tom Larson	2135	S. Loop 25	0 West, Midland, Texas 79	9703	432-686-0086	432-553-1681	tlarson@cra	aworld.com	
Laboratory (Vendor): Lab Project Manager: Chemistry/Data Mgt. Firm:	Lancaster Laboratorie: Wendy Kozma CRA		New Hollar	d Pike, Lancaster, PA 176	05-2425	717-656-2300		wkozma@la	ancasterlabs.com	
Chemist : Data Manager:	Lynch, Patricia		•	uite 100, Houston, Texas,		713-734-3090		plynch@cra		
Lab Deliverables	Lidstone, Julie	651 0	olby Drive	Waterloo, Ontario N2V 1		519-884-0510	Additional Reporting		raworld.com	
EDD Format Hardcopy Level Requested	□ CRA EQuIS EZEDD ☑ CRA Standard	CRA EQuIS 4-file		Cther (Please Specify)	NA	-	Form 1's include:		PQLs I J Values	
CRA Data Review Level	Compliance Full Validation	Reduced Validation		Reg III Innovative	NA	-	TICs: Soil Reporting:	🗆 Yes 🖸 Dry	☑ No □ Wet	
Lab Deliverables Distribution	.1.) 1.4.		-			-	Database Exports -	Yes		
Rush TAT Data (email deliver				om Larson		-	Reporting down to MDI	-		
Final EDD & Result Summary Final Lab Report PDF	• • •			Tom Larson						
Data Management Deliverable	 95	EQui	S Database	Cross Tab Table	Flat File	Databox	Other (please specify):			
Data Management Deliverable Data Management DV TAT:		Distribution List:			NA					
Comments	- t - df fa			4 File feldes er en De-	a ana sifia ChanaDalist ≂i					
*** additional Final Lab Report copy (in SSOW Email Distribution List:									· · · · · · · · · · · · · · · · · · ·	
Prepared By			kozma@ia Date:	4/5/2011	Revision No.:	<u> </u>	Revision Date:			
h					- <u></u>	L	1			

CRA Simplified Scope of Work (SSOW)/Laboratory Services Purchase Order

SSOW Ref. Code

Project Name: Produced Water Line Release

Project Location: Lea County, New Mexico

CRA Project No./Phase/Task: 073041

Phase/Study Title: West Dollarhide Drinkard Unit #148

Event Description: Soil Assessment & Remediation

Field QC Samples Applicable Dup В Estimated ŝ Total Sample Surcharge ã Other Unit RBIK Extended Sample Sample Billable Estimated Ę. ę Р Matrix Multiplier ⁽¹⁾ Item **Analytical Parameters** Analytical Methods Holding Time Prices Prices Qty/Event Qty. Samples Cost/Event Soil BTEX SW8021 31 \$740.33 14 days \$ 17.69 1.35 \$ 23.88 28 3 31 Soil TPH/ GRO SW8015 14 days \$ 1.75 1.35 2.36 28 28 28 \$66.15 \$ Soil TPH/ DRO SW8015 14 days 28 \$1,419.77 \$ 37.56 1.35 \$ 50.71 28 28 Soil Chloride EPA300 28 28 days \$ 24.82 1.35 \$ 33.51 28 28 \$938.20 Soil Moisture EPA 160.3 7 days \$ 4.55 28 28 \$171,99 1.35 \$ 6.14 28

⁽¹⁾ Explanation of Su	rcharges:			Estimated Event Subtotal: Laboratory Surcharge(s): Estimated Event Total Costs:	\$2,471.43 \$865.00 \$3,336.43
Lab Contracting	g Summary:	·····			
Governir	ng Terms and Conditions	CRA Purchase Order Number:	4038151	Patricia L. Lynch	4/5/2011
	Master Agreement Number:	Name of Client:	Chevron Environemental Management Company	(authorized CRA signature)	(date signed)
	Exhibit "A" Terms and Conditions	Other Additional Insureds:			
	Client Contract	Governing Law:	New Mexico	Wendy Kozma	4/6/2011
		Currency:	US	(authorized Vendor signature)	(date signed)
		Address Invoice to:	CRA/ Pat Lynch	Typed name constitutes authorized	signature.
			6320 Rothway, Suite 100		
			Houston, Texas 77040		
Vendor to provide a	nd deliver all items or services set cut or offenuise des	ribed below subject to the novembre terms and conditions checks		no to such terms and conditions. Any add	tional or

different terms proposed by Vendor are rejected unless expressly agreed to in writing by CRA. To accept this Purchase Order, Vendor must sign, date, and return one copy of this page to issuer before starting any work. CRA's receipt of Signature of this Purchase Order may be sent by facsimile (with confirmation by transmitting machine) and/or transmitted by portable document file (PDF) which shall be treated as an original signature, and any such signature, facsimile, PDF file, or copy of this signed Purchase Order shall be valid as an original and shall be binding as if it were the original. Show Purchase Order No. on all correspondence, insurance certificates, involces, and delivery papers.

200016-PO(QSF-024-Lab)-Rev.10 1/18/2011



Environmental Sample Administration Receipt Documentation Log

Client/Project: _	CRA/CEMC	Shipping Containe	er Sealed: YES) NO
Date of Receipt:	4/29/11	Custody Seal Pres	ent*: YES	NO
Time of Receipt:	0900	* Custody seal was inta discrepancy se	ct unless otherwise no	
Source Code:	50-1	Package:	Chilled	Not Chilled

Temperature of Shipping Containers										
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments			
1	9493	5,5	TB	WI	Ý	B				
2										
3										
4										
5										
6				·······						

Number of Trip Blanks received NOT listed on chain of custody:

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:

Darelund /208 Date/Time: 4/29/11 0915

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2174.06

Sample Number: SW 6271808

SB1(29-30') Grab Soil West Dollarhide Drinkard Unit #148		Account Number: 11713 Conestoga-Rovers & Associates 2135 South Loop 250 West					
Collected: 04/28/2011 11:45 by TL		Midland TX 79703					
Submitted: 04/29/2011 09:00 Reported: 05/10/2011 16:47							
SB129							
CAT No. Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor			
Wet Chemistry EPA 300.0		mg/kg	mg/kg				
07333 Chloride by IC (solid)	16887-00-6	69.6	5.9	1			

General Sample Comments

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial# Batch#	Analysis Date and Time	Analyst	Dilution Factor					
07333	Chloride by IC (solid)	EPA 300.0	1 11128621203A	05/09/2011 10:42	Ashley M Adams	1					
Samj	ole Number: SW 6271809										
-	9-50') Grab Soil		Account Number: 11	713							
West I	Oollarhide Drinkard Unit #148		Conestoga-Rovers & 2135 South Loop 25	Associates 0 West							
Collec	cted: 04/28/2011 12:30 by T	L	Midland TX 79703								
	ted: 04/29/2011 09:00										
Report	ced: 05/10/2011 16:47										
SB149											
CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Li	Diluti mit Factor						
Wet (Chemistry EPA 30	0.0	mg/kg	mg/kg							
07333	Chloride by IC (solid)	16887-00-6	754	114	20						

General Sample Comments

Laboratory Sample Analysis Record

CAT No.	Analysis Name			Batch#	Analysis Date and Time	Analyst	Dilution Factor				
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	05/09/2011 16:55	Ashley M Adams	20				
Samj	Sample Number: SW 6271810										
-	9-70') Grab Soil		Acc	ount Number: 117	13						
West I	Oollarhide Drinkard Unit #148		213	estoga-Rovers & 5 South Loop 250							
Colled	cted: 04/28/2011 13:00 by 1	ΓL	Mid	land TX 79703							
	ted: 04/29/2011 09:00 ted: 05/10/2011 16:47										
Kepori	Lea. 05/10/2011 10.4/										
SB169											
CAT No.	Analysis Name	CAS Number	Dr Res	y ult	Dry Method Detection L	Dilu imit Facto					

Sample Number: SW 6271810

SB1(69-70') Grab Soil West Dollarhide Drinkard Unit #148		Account Number: 11713 Conestoga-Rovers & Associ 2135 South Loop 250 West	ates	
Collected: 04/28/2011 13:00 by TL		Midland TX 79703		
Submitted: 04/29/2011 09:00 Reported: 05/10/2011 16:47				
SB169				
CAT No. Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Wet ChemistryEPA 300.007333Chloride by IC (solid)	16887-00-6	mg/kg 60.4	mg/kg 27.1	5

General Sample Comments

	Laboratory Sample Analysis Record											
CAT No.	Analysis Name	Method T	rial# Batch#	Analysis Date and Time	Analyst	Dilution Factor						
07333	Chloride by IC (solid)	EPA 300.0	1 11128621203A	05/09/2011 11:56	Ashley M Adams	5						
Samp	Sample Number: SW 6271811											
-	9-30') Grab Soil		Account Number: 117	13								
West I	Oollarhide Drinkard Unit #148		Conestoga-Rovers & 2135 South Loop 250									
Collec	cted: 04/28/2011 13:20 by T	L	Midland TX 79703									
	ted: 04/29/2011 09:00											
Report	ced: 05/10/2011 16:47											
SB229												
CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Li	Diluti mit Factor							
Wet (Chemistry EPA 30	0.0	mg/kg	mg/kg								
07333	Chloride by IC (solid)	16887-00-6	2,670	267	50							

General Sample Comments

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	05/09/2011 17:09	Ashley M Adams	50				
Samj	Sample Number: SW 6271812										
-	9-50') Grab Soil		Acc	ount Number: 117	13						
West I	Oollarhide Drinkard Unit #148		213	estoga-Rovers & 5 South Loop 250							
Colled	cted: 04/28/2011 13:35 by T	ΓL	Mid	land TX 79703							
	ted: 04/29/2011 09:00 ted: 05/10/2011 16:47										
SB249											
CAT No.	Analysis Name	CAS Number	Dr: Res	-	Dry Method Detection Li	Dilutio mit Factor	m				

Sample Number: SW 6271812

SB2(49-50') Grab Soil West Dollarhide Drinkard Unit #148 Collected: 04/28/2011 13:35 by TL		Account Number: 11713 Conestoga-Rovers & Associ 2135 South Loop 250 West Midland TX 79703	ates	
Submitted: 04/29/2011 09:00 Reported: 05/10/2011 16:47				
SB249				
CAT No. Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Wet Chemistry EPA 300.0		mg/kg	mg/kg	
07333 Chloride by IC (solid)	16887-00-6	1,170	271	50

General Sample Comments

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial# Batch#	Analysis Date and Time	Analyst	Dilution Factor		
07333	Chloride by IC (solid)	EPA 300.0	1 11128621203A	05/09/2011 17:23	Ashley M Adams	50		
Samp	ole Number: SW 6271813							
• • •	9-70') Grab Soil		Account Number: 117	/13				
West Dollarhide Drinkard Unit #148				Conestoga-Rovers & Associates 2135 South Loop 250 West				
Collec	eted: 04/28/2011 14:00 by T	L	Midland TX 79703					
	ted: 04/29/2011 09:00							
Report	ed: 05/10/2011 16:47							
SB269								
CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Li	Diluti mit Factor			
Wet (Chemistry EPA 30	0.0	mg/kg	mg/kg				
07333	Chloride by IC (solid)	16887-00-6	175	28.0	5			

General Sample Comments

Laboratory Sample Analysis Record

CAT No. 07333	Analysis Name Chloride by IC (solid)	Method I EPA 300.0		Batch# 11128621203A	Analysis Date and Time 05/09/2011 13:07	Analyst Ashley M Adams	Dilution Factor 5
	ple Number: SW 6271814		Ť	11120021205A	05/09/2011 13:07	ABITCY IT Adding	5
-	9-30') Grab Soil		Acc	ount Number: 117	13		
	Collarhide Drinkard Unit #148 Cted: 04/28/2011 14:29 by T	Ľ	213	estoga-Rovers & . 5 South Loop 250 land TX 79703			
	ted: 04/29/2011 09:00 ted: 05/10/2011 16:47						
SB329							
CAT No.	Analysis Name	CAS Number	Dr Res	-	Dry Method Detection Li	Dilutio mit Factor	on

Sample Number: SW 6271814

SB3(29-30') Grab Soil West Dollarhide Drinkard Unit #148		Account Number: 11713 Conestoga-Rovers & Associ 2135 South Loop 250 West	ates	
Collected: 04/28/2011 14:29 by TL		Midland TX 79703		
Submitted: 04/29/2011 09:00 Reported: 05/10/2011 16:47				
SB329				
CAT No. Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Wet Chemistry EPA 300.0		mg/kg	mg/kg	
07333 Chloride by IC (solid)	16887-00-6	220	26.1	5

General Sample Comments

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Irial# Batch#	Analysis Date and Time	Analyst	Dilution Factor		
07333	Chloride by IC (solid)	EPA 300.0	1 11128621203A	05/09/2011 13:22	Ashley M Adams	5		
Samj	ole Number: SW 6271815							
-	9-40') Grab Soil		Account Number: 117	13				
West Dollarhide Drinkard Unit #148				Conestoga-Rovers & Associates 2135 South Loop 250 West				
Collec	cted: 04/28/2011 14:49 by T	L	Midland TX 79703					
	ted: 04/29/2011 09:00							
Report	ced: 05/10/2011 16:47							
SB339								
CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Li	Diluti mit Factor			
Wet (Chemistry EPA 30	0.0	mg/kg	mg/kg				
07333	Chloride by IC (solid)	16887-00-6	114	26.4	5			

General Sample Comments

Laboratory Sample Analysis Record

No.	Analysis Name Chloride by IC (solid)	Method T EPA 300.0 T	Frial# Batch# 1 11128621203A	Analysis Date and Time 05/09/2011 13:36	Analyst Ashley M Adams	Dilution Factor 5			
Sample	Sample Number: SW 6271816								
-	50') Grab Soil		Account Number: 1	1713					
	<pre>llarhide Drinkard Unit #148 ed: 04/28/2011 14:59 by 1</pre>	TL	Conestoga-Rovers a 2135 South Loop 2 Midland TX 79703						
	ed: 04/29/2011 09:00 d: 05/10/2011 16:47								
SB349									
CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Li	Diluti mit Factor	on			

Sample Number: SW 6271816

SB3(49-50') Grab Soil West Dollarhide Drinkard Unit #148	Account Number: 11713 Conestoga-Rovers & Associates 2135 South Loop 250 West			
Collected: 04/28/2011 14:59 by TL		Midland TX 79703		
Submitted: 04/29/2011 09:00 Reported: 05/10/2011 16:47				
SB349				
CAT No. Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Wet Chemistry EPA 300.0		mg/kg	mg/kg	
07333 Chloride by IC (solid)	16887-00-6	40.4 J	25.9	5

General Sample Comments

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial# Batch#	Analysis Date and Time	Analyst	Dilution Factor		
07333	Chloride by IC (solid)	EPA 300.0	1 11128621203A	05/09/2011 13:50	Ashley M Adams	5		
Samj	ple Number: SW 6271817							
	V3' Grab Soil		Account Number: 11	713				
West I	Oollarhide Drinkard Unit #148			Conestoga-Rovers & Associates 2135 South Loop 250 West Midland TX 79703				
Collec	cted: 04/28/2011 15:05 by T	L						
	ted: 04/29/2011 09:00							
Report	ced: 05/10/2011 16:47							
SX-NS								
CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Li	Diluti mit Factor			
Wet (Chemistry EPA 30	0.0	mg/kg	mg/kg				
07333	Chloride by IC (solid)	16887-00-6	275	25.5	5			

General Sample Comments

Laboratory Sample Analysis Record

CAT No. 07333	Analysis Name Chloride by IC (solid)	Method EPA 300.0		Batch# 11128621203A	Analysis Date and Time 05/09/2011 14:04	Analyst Ashley M Adams	Dilution Factor 5
	ple Number: SW 6271818		1	11120021203A	05/09/2011 14.04	ASIITEY M Addits	5
	N3' Grab Soil		Acc	ount Number: 117	13		
	Collarhide Drinkard Unit #148 cted: 04/28/2011 15:15 by 1	ΓL	213	estoga-Rovers & 5 5 South Loop 250 lland TX 79703			
	ted: 04/29/2011 09:00 ted: 05/10/2011 16:47						
SX-WS							
CAT No.	Analysis Name	CAS Number	Dr Res	-	Dry Method Detection Li	Dilutio mit Factor	n

Sample Number: SW 6271818

SX-WSW3' Grab Soil		Account Number: 11713		
West Dollarhide Drinkard Unit #148 Collected: 04/28/2011 15:15 by TL		Conestoga-Rovers & Associ 2135 South Loop 250 West Midland TX 79703	ates	
Submitted: 04/29/2011 15:15 by 11 Submitted: 04/29/2011 09:00 Reported: 05/10/2011 16:47				
SX-WS				
CAT No. Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Wet Chemistry EPA 300.0		mg/kg	mg/kg	
07333 Chloride by IC (solid)	16887-00-6	282	25.5	5

General Sample Comments

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial# Batch#	Analysis Date and Time	Analyst	Dilution Factor		
07333	Chloride by IC (solid)	EPA 300.0	1 11128621203B	05/09/2011 14:18	Ashley M Adams	5		
Samp	Sample Number: SW 6271819							
	13' Grab Soil		Account Number: 117	13				
West Dollarhide Drinkard Unit #148			Conestoga-Rovers & 2135 South Loop 250	Conestoga-Rovers & Associates 2135 South Loop 250 West				
Collec	eted: 04/28/2011 15:10 by T	L	Midland TX 79703					
	ted: 04/29/2011 09:00 ted: 05/10/2011 16:47							
SX-SS								
CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Li	Diluti mit Factor			
Wet (Chemistry EPA 30	0.0	mg/kg	mg/kg				
07333	Chloride by IC (solid)	16887-00-6	274	25.3	5			

General Sample Comments

Laboratory Sample Analysis Record

CAT No. 07333	Analysis Name Chloride by IC (solid)	Method T EPA 300.0	'rial# 1	Batch# 11128621203B	Analysis Date and Time 05/09/2011 15:01	Analyst Ashley M Adams	Dilution Factor 5
Samj	ple Number: SW 6271820						
	N3' Grab Soil		Acc	ount Number: 117	13		
	Collarhide Drinkard Unit #148 cted: 04/28/2011 15:20 by T	Ľ	213	estoga-Rovers & 2 5 South Loop 250 land TX 79703			
	ted: 04/29/2011 09:00 ted: 05/10/2011 16:47						
SX-ES							
CAT No.	Analysis Name	CAS Number	Dr; Res	-	Dry Method Detection Li	Diluti mit Factor	

Sample Number: SW 6271820

SX-ESW3' Grab Soil		Account Number: 11713	count Number: 11713		
West Dollarhide Drinkard Unit #148 Collected: 04/28/2011 15:20 by TL		Conestoga-Rovers & Associ 2135 South Loop 250 West Midland TX 79703	ates		
Submitted: 04/29/2011 09:00 Reported: 05/10/2011 16:47					
SX-ES					
CAT No. Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor	
Wet Chemistry EPA 300.0		mg/kg	mg/kg		
07333 Chloride by IC (solid)	16887-00-6	1,270	254	50	

General Sample Comments

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial# Batch#	Analysis Date and Time	Analyst	Dilution Factor			
07333	Chloride by IC (solid)	EPA 300.0	1 11128621203B	05/10/2011 09:57	Ashley M Adams	50			
Samp	ole Number: SW 6271821								
	13' Grab Soil		Account Number: 117	/13					
West Dollarhide Drinkard Unit #148				Conestoga-Rovers & Associates 2135 South Loop 250 West Midland TX 79703					
Collected: 04/28/2011 14:30 by TL									
	ted: 04/29/2011 09:00 ted: 05/10/2011 16:47								
LX-SS									
CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Li	Diluti mit Factor				
Wet (Chemistry EPA 30	0.00	mg/kg	mg/kg					
07333	Chloride by IC (solid)	16887-00-6	11,900	2,540	500				

General Sample Comments

Laboratory Sample Analysis Record

CAT No. 07333	Analysis Name Chloride by IC (solid)	Method I EPA 300.0		Batch# 11128621203B	Analysis Date and Time 05/10/2011 10:11	Analyst Ashley M Adams	Dilution Factor 500	
	ple Number: SW 6271822		-					
LX-ESW3' Grab Soil			Acc	ount Number: 117	13			
		213	Conestoga-Rovers & Associates 2135 South Loop 250 West Midland TX 79703					
	- tted: 04/29/2011 09:00 ted: 05/10/2011 16:47							
LX-ES								
CAT No.	Analysis Name	CAS Number	Dr: Res	-	Dry Method Detection Li	Dilutio mit Factor	n	

Sample Number: SW 6271822

LX-ESW3' Grab Soil West Dollarhide Drinkard Unit #148	Account Number: 11713 Conestoga-Rovers & Associates 2135 South Loop 250 West Midland TX 79703			
Collected: 04/28/2011 14:35 by TL		MIGIANG IX /9/05		
Submitted: 04/29/2011 09:00 Reported: 05/10/2011 16:47				
LX-ES				
CAT No. Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Wet Chemistry EPA 300.0		mg/kg	mg/kg	
07333 Chloride by IC (solid)	16887-00-6	362	51.0	10

General Sample Comments

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method 1	Frial# Batch#	Analysis Date and Time	Analyst	Dilution Factor			
07333	Chloride by IC (solid)	EPA 300.0	1 11128621203B	05/10/2011 10:25	Ashley M Adams	10			
Samp	Sample Number: SW 6271823								
	SW3' Grab Soil		Account Number: 117	13					
West Dollarhide Drinkard Unit #148				Conestoga-Rovers & Associates 2135 South Loop 250 West					
Collected: 04/28/2011 14:40 by TL			Midland TX 79703						
	ted: 04/29/2011 09:00 ted: 05/10/2011 16:47								
LX-SW	LX-SW								
CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Li	Diluti mit Factor				
Wet (Chemistry EPA 30	0.0	mg/kg	mg/kg					
07333	Chloride by IC (solid)	16887-00-6	869	102	20				

General Sample Comments

Laboratory Sample Analysis Record

CAT No. 07333	Analysis Name Chloride by IC (solid)	Method Sepa 300.0	Trial# 1	Batch# 11128621203B	Analysis Date and Time 05/10/2011 10:40	Analyst Ashley M Adams	Dilution Factor 20	
Sample Number: SW 6271824								
			Acc	ount Number: 117	13			
Collec	Dollarhide Drinkard Unit #148 cted: 04/28/2011 14:45 by T tted: 04/29/2011 09:00	ΥL	213	estoga-Rovers & . 5 South Loop 250 lland TX 79703				
Report	ted: 05/10/2011 16:47							
LX-NW					_			
CAT No.	Analysis Name	CAS Number	Dr Res	-	Dry Method Detection Li	Diluti mit Factor	n	

Sample Number: SW 6271824

LX-NWSW3' Grab Soil West Dollarhide Drinkard Unit #148		Account Number: 11713				
West Dollarhide Drinkard Unit #148 Collected: 04/28/2011 14:45 by TL		Conestoga-Rovers & Associ 2135 South Loop 250 West Midland TX 79703	ates			
Submitted: 04/29/2011 09:00 Reported: 05/10/2011 16:47						
LX-NW						
CAT No. Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor		
Wet Chemistry EPA 300.0		mg/kg	mg/kg			
07333 Chloride by IC (solid)	16887-00-6	1,760	254	50		

General Sample Comments

	Laboratory Sample Analysis Record						
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
	Chloride by IC (solid)	EPA 300.0	1	11128621203B	05/10/2011 10	:54 Ashley M Adams	50

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	Ib.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is \geq the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- **ppm** parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A TIC is a possible aldol-condensation product
- **B** Analyte was also detected in the blank
- **C** Pesticide result confirmed by GC/MS
- D Compound quantitated on a diluted sample
- E Concentration exceeds the calibration range of the instrument
- **N** Presumptive evidence of a compound (TICs only)
- P Concentration difference between primary and confirmation columns >25%
- U Compound was not detected
- **X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- **B** Value is <CRDL, but \ge IDL
- E Estimated due to interference
- **M** Duplicate injection precision not met
- N Spike sample not within control limits
- **S** Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
- * Duplicate analysis not within control limits
- + Correlation coefficient for MSA < 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Partial Report

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Conestoga-Rovers & Associates 2135 South Loop 250 West Midland TX 79703

May 10, 2011

Project: Dollarhide

Submittal Date: 04/29/2011 Group Number: 1244470 PO Number: 4038151 Release Number: DOLLARHIDE State of Sample Origin: NM

<u>Client Sample Description</u> SB1(29-30') Grab Soil	Lancaster Labs # 6271808	<u>Collected</u> 04/28/2011 11:45
West Dollarhide Drinkard Unit #148 SB1(49-50') Grab Soil West Dollarhide Drinkard Unit #148	6271809	04/28/2011 12:30
SB1(69-70') Grab Soil West Dollarhide Drinkard Unit #148	6271810	04/28/2011 13:00
SB2(29-30') Grab Soil West Dollarhide Drinkard Unit #148	6271811	04/28/2011 13:20
SB2(49-50') Grab Soil West Dollarhide Drinkard Unit #148	6271812	04/28/2011 13:35
SB2(69-70') Grab Soil West Dollarhide Drinkard Unit #148	6271813	04/28/2011 14:00
SB3(29-30') Grab Soil West Dollarhide Drinkard Unit #148	6271814	04/28/2011 14:29
SB3(39-40') Grab Soil West Dollarhide Drinkard Unit #148	6271815	04/28/2011 14:49
SB3(49-50') Grab Soil West Dollarhide Drinkard Unit #148	6271816	04/28/2011 14:59
SX-NSW3' Grab Soil West Dollarhide Drinkard Unit #148	6271817	04/28/2011 15:05
SX-WSW3' Grab Soil West Dollarhide Drinkard Unit #148	6271818	04/28/2011 15:15
SX-SSW3' Grab Soil West Dollarhide Drinkard Unit #148	6271819	04/28/2011 15:10
SX-ESW3' Grab Soil West Dollarhide Drinkard Unit #148	6271820	04/28/2011 15:20
LX-SSW3' Grab Soil West Dollarhide Drinkard Unit #148	6271821	04/28/2011 14:30
LX-ESW3' Grab Soil West Dollarhide Drinkard Unit #148	6271822	04/28/2011 14:35
LX-SWSW3' Grab Soil West Dollarhide Drinkard Unit #148	6271823	04/28/2011 14:40
LX-NWSW3' Grab Soil West Dollarhide Drinkard Unit #148	6271824	04/28/2011 14:45

METHODOLOGY

Partial Report

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Conestoga-Rovers & Associates 2135 South Loop 250 West Midland TX 79703

May 10, 2011

The specified methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO ELECTRONIC COPY TO Conestoga-Rovers & Associates

Attn: Tom Larson Attn: EDD Group - Report

Questions? Contact your Client Services Representative Wendy A Kozma at (717) 656-2300 Ext. 1522

Respectfully Submitted,

Page 2 of 5

Partial Report

Lancaster Laboratories

Page 3 of 5

Analytical Report

Conestoga-Rovers & AssociatesReport Date: 5/10/2011 16:47Project: DollarhideSubmit Date: 4/29/2011 9:00

		6271808		6271809		6271810	
Analysis Name	Units	SB1(29-30')	Dry MDL	. ,	Dry MDL	· · · /	Dry MDL
		Dry Result		Dry Result		Dry Result	
Chloride by IC (solid)	mg/kg	69.6	5.9	754	114	60.4	27.1
		6271811		6271812		6271813	
Analysis Name	Units	SB2(29-30')	Dry MDL	. ,	Dry MDL	SB2(69-70')	Dry MDL
		Dry Result		Dry Result		Dry Result	
Chloride by IC (solid)	mg/kg	2,670	267	1,170	271	175	28.0
		6271814		6271815		6271816	
Analysis Name	Units	SB3(29-30')	Dry MDL	SB3(39-40')	Dry MDL	SB3(49-50')	Dry MDL
		Dry Result		Dry Result		Dry Result	
Chloride by IC (solid)	mg/kg	220	26.1	114	26.4	40.4 J	25.9
		6271817		6271818		6271819	
Analysis Name	Units	SX-NSW3'	Dry MDL	SX-WSW3'	Dry MDL		Dry MDL
		Dry Result		Dry Result		Dry Result	
Chloride by IC (solid)	mg/kg	275	25.5	282	25.5	274	25.3
		6271820		6271821		6271822	
Analysis Name	Units	SX-ESW3'	Dry MDL		Dry MDL	LX-ESW3'	Dry MDL
		Dry Result		Dry Result		Dry Result	
Chloride by IC (solid)	mg/kg	1,270	254	11,900	2,540	362	51.0
		6271823		6271824			
Analysis Name	Units	LX-SWSW3'		LX-NWSW3'			
		Dry Decult		Dm / Decult	Dry MDL		
Chloride by IC (solid)	mg/kg	Dry Result 869	Dry MDL 102	Dry Result 1,760	254		
CAT No.	Analysis Name	Method	Trial ID Batch	Analysis Date/Time	Analyst	Dilution	
--------------------------	---	-----------	-------------------	-----------------------	----------------	----------	
627180 8 07333	8 SB1(29-30') Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203A	5/9/11 1042	Ashley M Adams	1	
627180 9 07333	9 SB1(49-50') Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203A	5/9/11 1655	Ashley M Adams	20	
627181 07333	0 SB1(69-70') Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203A	5/9/11 1156	Ashley M Adams	5	
627181 07333	1 SB2(29-30') Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203A	5/9/11 1709	Ashley M Adams	50	
627181 2 07333	2 SB2(49-50') Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203A	5/9/11 1723	Ashley M Adams	50	
627181 3 07333	3 SB2(69-70') Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203A	5/9/11 1307	Ashley M Adams	5	
627181 07333	4 SB3(29-30') Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203A	5/9/11 1322	Ashley M Adams	5	
627181 07333	5 SB3(39-40') Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203A	5/9/11 1336	Ashley M Adams	5	
627181 07333	6 SB3(49-50') Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203A	5/9/11 1350	Ashley M Adams	5	
627181 3 07333	7 SX-NSW3' Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203A	5/9/11 1404	Ashley M Adams	5	
627181 8 07333	B SX-WSW3' Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203B	5/9/11 1418	Ashley M Adams	5	
627181 9 07333	9 SX-SSW3' Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203B	5/9/11 1501	Ashley M Adams	5	
627182 07333	0 SX-ESW3' Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203B	5/10/11 0957	Ashley M Adams	50	
627182 07333	1 LX-SSW3' Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203B	5/10/11 1011	Ashley M Adams	500	
627182 07333	2 LX-ESW3' Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203B	5/10/11 1025	Ashley M Adams	10	
627182 : 07333	3 LX-SWSW3' Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203B	5/10/11 1040	Ashley M Adams	20	
627182 4 07333	4 LX-NWSW3' Grab Soil Chloride by IC (solid)	EPA 300.0	1 11128621203B	5/10/11 1054	Ashley M Adams	50	

Partial Report

Comments

Page 5 of 5

6271808 SB1(29-30') Grab Soil
6271809 SB1(49-50') Grab Soil
6271810 SB1(69-70') Grab Soil
6271811 SB2(29-30') Grab Soil
6271812 SB2(49-50') Grab Soil
6271813 SB2(69-70') Grab Soil
6271814 SB3(29-30') Grab Soil
6271815 SB3(39-40') Grab Soil
6271816 SB3(49-50') Grab Soil
6271817 SX-NSW3' Grab Soil
6271818 SX-WSW3' Grab Soil
6271819 SX-SSW3' Grab Soil
6271820 SX-ESW3' Grab Soil
6271821 LX-SSW3' Grab Soil
6271822 LX-ESW3' Grab Soil
6271823 LX-SWSW3' Grab Soil
6271824 LX-NWSW3' Grab Soil

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	Ib.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is \geq the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- **ppm** parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A TIC is a possible aldol-condensation product
- **B** Analyte was also detected in the blank
- **C** Pesticide result confirmed by GC/MS
- D Compound quantitated on a diluted sample
- E Concentration exceeds the calibration range of the instrument
- **N** Presumptive evidence of a compound (TICs only)
- P Concentration difference between primary and confirmation columns >25%
- U Compound was not detected
- **X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- **B** Value is <CRDL, but \ge IDL
- E Estimated due to interference
- M Duplicate injection precision not met
- N Spike sample not within control limits
- **S** Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
- * Duplicate analysis not within control limits
- + Correlation coefficient for MSA < 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared by:

Prepared for:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Conestoga-Rovers & Associates 9033 Meridian Way West Chester OH 45069

August 05, 2011

Project: West Dollarhide Drinkard Unit #148

Submittal Date: 07/26/2011 Group Number: 1258212 PO Number: 4040977 Release Number: LEA COUNTY, NM State of Sample Origin: NM

Client Sample Description LX-SSW3'+40' Grab Soil LX-NWSW3'+25' Grab Soil Trip Blank Water Lancaster Labs (LLI) # 6355183 6355184 6355185

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONICConestoga-Rovers & AssociatesAttn: Tom LarsonCOPY TOELECTRONICLLIAttn: EDD Group - ReportCOPY TOCOPY TOCOPY TOAttn: EDD Group - Report





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Questions? Contact your Client Services Representative Wendy A Kozma at (717) 656-2300 Ext. 1522

Respectfully Submitted,

allett

Erik J. Frederiksen Manager



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Page 1 of 1

Sample Description: LX-SSW3'+40' Grab Soil West Dollarhide Drinkard Unit #148

LLI Sample # SW 6355183 LLI Group # 1258212 Account # 11713

Project Name: West Dollarhide Drinkard Unit #148

Collected: 07/25/2011 11:45 by TL

Submitted: 07/26/2011 09:30 Reported: 08/05/2011 10:30

WDDSS

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
GC Vo	latiles	SW-846	8015B	mg/kg	mg/kg	
01638	TPH-GRO soil C6-C10		n.a.	N.D.	1.1	25.46
GC Vo	latiles	SW-846	8021B	mg/kg	mg/kg	
08179	Benzene		71-43-2	N.D.	0.0054	25.46
08179	Ethylbenzene		100-41-4	N.D.	0.0054	25.46
08179	Toluene		108-88-3	N.D.	0.0054	25.46
08179	Total Xylenes		1330-20-7	N.D.	0.016	25.46
	troleum carbons	SW-846	8015B	mg/kg	mg/kg	
-	TPH-DRO soil C10-C28		n.a.	5.4 J	15	1
Wet C	hemistry	EPA 300	0.0	mg/kg	mg/kg	
07333	Chloride by IC (soli	d)	16887-00-6	1,150	540	50
Wet C	hemistry	SM20 25	540 G	%	%	
00111	Moisture		n.a.	6.3	0.50	1
	"Moisture" represent		ss in weight of th	ne sample after oven	drying at	-

103 - $105\ degrees$ Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

The temperature of the sample bottle(s) upon receipt at the lab was 3.7 - 7.1 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11207A16C	07/30/2011 15:3) Carrie E Miller	25.46
08179	BTEX by 8021	SW-846 8021B	1	11207A16C	07/30/2011 15:3) Carrie E Miller	25.46
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201120825029	07/27/2011 08:3	8 Larry E Bevins	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	112140013A	08/03/2011 22:3	5 Elizabeth J Marin	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	112140013A	08/02/2011 17:5) Sally L Appleyard	1
07333	Chloride by IC (solid)	EPA 300.0	1	11212495201A	08/02/2011 23:3	6 Ashley M Adams	50
01352	Deionized Water Extraction	EPA 300.0	1	11212495201A	07/31/2011 21:0) James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11208820005B	07/27/2011 19:0) Scott W Freisher	1

Conestoga-Rovers & Associates 9033 Meridian Way West Chester OH 45069



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Page 1 of 1

Sample Description: LX-NWSW3'+25' Grab Soil West Dollarhide Drinkard Unit #148

LLI Sample # SW 6355184 LLI Group # 1258212 Account # 11713

Project Name: West Dollarhide Drinkard Unit #148

Collected: 07/25/2011 12:40 by TL

Submitted: 07/26/2011 09:30 Reported: 08/05/2011 10:30

WDDNW

'AT Io. An	nalysis Name		CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
C Volat	tiles S	SW-846	8015B	mg/kg	mg/kg	
1638 TP	PH-GRO soil C6-C10		n.a.	N.D.	1.1	25.69
C Volat	tiles S	SW-846	8021B	mg/kg	mg/kg	
8179 Be	enzene		71-43-2	N.D.	0.0055	25.69
8179 Et	thylbenzene		100-41-4	N.D.	0.0055	25.69
8179 To	oluene		108-88-3	N.D.	0.0055	25.69
8179 To	otal Xylenes		1330-20-7	N.D.	0.017	25.69
C Petro ydrocar		SW-846	8015B	mg/kg	mg/kg	
-	PH-DRO soil C10-C28		n.a.	5.3 J	13	1
et Chem	nistry E	SPA 300	.0	mg/kg	mg/kg	
7333 Ch	nloride by IC (solid	l)	16887-00-6	2,040	535	50
et Chem	nistry S	SM20 25	40 G	8	8	
0111 Mo	pisture		n.a.	7.3	0.50	1
0111 Mo "M	-	the los	n.a. s in weight of th	7.3 e sample after oven	0.50 drying at	

103 - $105\ degrees$ Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

The temperature of the sample bottle(s) upon receipt at the lab was 3.7 - 7.1 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	ne	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11207A16C	07/30/2011	16:08	Carrie E Miller	25.69
08179	BTEX by 8021	SW-846 8021B	1	11207A16C	07/30/2011	16:08	Carrie E Miller	25.69
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201120825029	07/27/2011	08:37	Larry E Bevins	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	112140013A	08/03/2011	22:56	Elizabeth J Marin	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	112140013A	08/02/2011	17:50	Sally L Appleyard	1
07333	Chloride by IC (solid)	EPA 300.0	1	11212495201A	08/02/2011	23:49	Ashley M Adams	50
01352	Deionized Water Extraction	EPA 300.0	1	11212495201A	07/31/2011	21:00	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11208820005B	07/27/2011	19:00	Scott W Freisher	1

Conestoga-Rovers & Associates 9033 Meridian Way West Chester OH 45069



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Page 1 of 1

Sample	Description:	Trip	Blank Wate			
		West	Dollarhide	Drinkard	Unit	#148

LLI Sample # WW 6355185 LLI Group # 1258212 Account # 11713

Project Name: West Dollarhide Drinkard Unit #148

Collected: 07/25/2011

Submitted: 07/26/2011 09:30 Reported: 08/05/2011 10:30 Conestoga-Rovers & Associates 9033 Meridian Way West Chester OH 45069

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC Vo	latiles	SW-846	8021B	mg/l	mg/l	
02102	Benzene		71-43-2	N.D.	0.0010	1
02102	Ethylbenzene		100-41-4	N.D.	0.0010	1
02102	Toluene		108-88-3	N.D.	0.0010	1
02102	Total Xylenes		1330-20-7	N.D.	0.0030	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
	Method 8021 Water Master GC VOA Water Prep	SW-846 8021B SW-846 5030B	-	11209A53A 11209A53A	07/30/2011 04:19 07/30/2011 04:19	Laura M Krieger Laura M Krieger	1 1			



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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 08/05/11 at 10:30 AM

Group Number: 1258212

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank <u>LOQ</u>	Report Units	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11207A16C	Sample numb			184				
Benzene	N.D.	0.0050	mg/kg	96	92	76-118	4	30
Ethylbenzene	N.D.	0.0050	mg/kg	94	90	77-115	4	30
Toluene	N.D.	0.0050	mg/kg	96	92	80-120	4	30
TPH-GRO soil C6-C10	N.D.	1.0	mg/kg	89	85	67-119	5	30
Total Xylenes	N.D.	0.015	mg/kg	96	92	78-115	4	30
Batch number: 11209A53A	Sample numb							
Benzene	N.D.	0.0010	mg/l	105	105	80-120	0	30
Ethylbenzene	N.D.	0.0010	mg/l	105	100	80-120	5	30
Toluene	N.D.	0.0010	mg/l	105	105	80-120	0	30
Total Xylenes	N.D.	0.0030	mg/l	107	103	80-120	3	30
Batch number: 112140013A	Sample numb	$am(a) \cdot \epsilon 2$	EE100 60EE	101				
TPH-DRO soil C10-C28	-	12.			88	76-117	5	20
IPH-DRU SOII CIU-C28	N.D.	12.	mg/kg	93	88	/0-11/	Э	20
Batch number: 11212495201A	Sample numb	er(s): 635	55183-6355	184				
Chloride by IC (solid)	N.D.	10.0	mg/kg	110		90-110		
Batch number: 11208820005B	Sample numb	er(s): 635	55183-6355					
Moisture				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 11212495201A Chloride by IC (solid)	Sample -735 (2)	number(s)	: 6355183 90-110	-635518	34 UNSP	K: P355492 1,350	BKG: P355492 1,120	2 19 (1)	20
Batch number: 11208820005B Moisture	Sample	number(s)	: 6355183	-635518	34 BKG	: P355108 17.9	18.3	2	15

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 08/05/11 at 10:30 AM

Group Number: 1258212

Surrogate Quality Control

	Name: TPH-GRO so	il C6-C10
Batch nur	nber: 11207A16C Trifluorotoluene-F	Trifluorotoluene-P
6355183	84	89
6355184	76	88
Blank	85	105
LCS	90	96
LCSD	85	90
Limits:	61-122	73-117
Analysis Batch nur	Name: Method 802 nber: 11209A53A	1 Water Master
	Trifluorotoluene-F	Trifluorotoluene-P
6355185		68
Blank	73	69
LCS	106	70
LCSD	82	68
Limits:	63-135	58-146
	Name: TPH-DRO so	il C10-C28
Batch nur	nber: 112140013A	
	Orthoterphenyl	
6355183	91	
6355184	89	
Blank	91	
LCS	98	
LCSD	95	
Limits:	59-129	

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

Chevron Generic Analysis Request/Chain of Custody

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Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client. Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	Ib.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is \geq the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- **ppm** parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A TIC is a possible aldol-condensation product
- **B** Analyte was also detected in the blank
- **C** Pesticide result confirmed by GC/MS
- D Compound quantitated on a diluted sample
- E Concentration exceeds the calibration range of the instrument
- **N** Presumptive evidence of a compound (TICs only)
- P Concentration difference between primary and confirmation columns >25%
- U Compound was not detected
- **X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- **B** Value is <CRDL, but \ge IDL
- E Estimated due to interference
- M Duplicate injection precision not met
- N Spike sample not within control limits
- **S** Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
- * Duplicate analysis not within control limits
- + Correlation coefficient for MSA < 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared by:

Prepared for:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Conestoga-Rovers & Associates 6320 Rothway, Suite 100 Houston TX 77040

November 16, 2011

Project: West Dollarhide Drinkard Unit #148

Submittal Date: 11/09/2011 Group Number: 1275488 PO Number: 4040977 Release Number: LEA COUNTY, NM State of Sample Origin: NM

Client Sample Description	Lancaster Labs #	Collected
LX-36'SW1 (3.5') Grab Soil	6463966	11/07/2011 13:00
West Dollarhide Drinkard Unit #148		
LX-36'SW2 (3') Grab Soil	6463967	11/07/2011 13:15
West Dollarhide Drinkard Unit #148		
LX-30'NE1 (3') Grab Soil	6463968	11/07/2011 13:30
West Dollarhide Drinkard Unit #148		
LX-30'NE2 (3') Grab Soil	6463969	11/07/2011 13:45
West Dollarhide Drinkard Unit #148		

METHODOLOGY

The specified methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO

Conestoga-Rovers & Associates

Attn: Tom Larson

Questions? Contact your Client Services Representative Wendy A Kozma at (717) 656-2300 Ext. 1522

Respectfully Submitted,

Sarah M. Snyder Senior Specialist

Conestoga-Rovers & Associates Project: West Dollarhide Drinkard Unit #148 SDG:

Report Date: 11/16/2011 13:33 Submit Date: 11/9/2011 9:35

		6463966 LX-36'SW1		6463967 LX-36'SW2		6463968 LX-30'NE1	
Analysis Name	Units	(3.5')	Dry LOQ	(3')	Dry LOQ	(3')	Dry LOQ
		Dry Result		Dry Result		Dry Result	
TPH-GRO soil C6-C10	mg/kg	N.D.	1	N.D.	1.0	N.D.	1.0
Benzene	ug/kg	N.D.	5.0	N.D.	5.0	N.D.	5.1
Ethylbenzene	ug/kg	N.D.	5.0	N.D.	5.0	N.D.	5.1
Toluene	ug/kg	5.6	5.0	N.D.	5.0	N.D.	5.1
Total Xylenes	ug/kg	5.9 J	15	N.D.	15	N.D.	15
TPH-DRO soil C10-C28	mg/kg	N.D.	13	N.D.	12	N.D.	13
Chloride by IC (solid)	mg/kg	17.9	10.6	N.D.	10.5	159	53.2
Moisture	%	4.2	0.50	3.1	0.50	5.2	0.50
		6463969					
	11-21-	LX-30'NE2					
Analysis Name	Units	(3')	Dec L OO				
		Dry Result	Dry LOQ				
TPH-GRO soil C6-C10	mg/kg	N.D.	1.0				
Benzene	ug/kg	N.D.	5.2				
Ethylbenzene	ug/kg	N.D.	5.2				
Toluene	ug/kg	N.D.	5.2				
Total Xylenes	ug/kg	N.D.	16				
TPH-DRO soil C10-C28	mg/kg	6.3 J	13				
Chloride by IC (solid)	mg/kg	901	542				
Moisture	%	6.5	0.50				

CAT No.	Analysis Name	Method	Trial ID Batch	Analysis Date/Time	Analyst	Dilution
646396	6 LX-36'SW1 (3.5') Grab Soil					
01638	TPH-GRO soil C6-C10	SW-846 8015B	1 11315A31A	11/12/11 0358	Laura M Krieger	23.83
08179	BTEX by 8021	SW-846 8021B	1 11315A31A	11/12/11 0358	Laura M Krieger	23.83
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1 201131326144	11/9/11 2127	Lois E Hiltz	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1 113180011A	11/15/11 0720	Anita M Dale	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1 113180011A	11/14/11 1800	David S Schrum	1
07333	Chloride by IC (solid)	EPA 300.0	1 11314621201B		Ashley M Adams	1
01352	Deionized Water Extraction	EPA 300.0	1 11314621201B	11/10/11 0740	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1 11314820008B	11/10/11 1922	Scott W Freisher	1
6463967	7 LX-36'SW2 (3') Grab Soil					
01638	TPH-GRO soil C6-C10	SW-846 8015B	1 11315A31A	11/12/11 0434	Laura M Krieger	24.27
08179	BTEX by 8021	SW-846 8021B	1 11315A31A	11/12/11 0434	Laura M Krieger	24.27
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1 201131326144	11/9/11 2135	Lois E Hiltz	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1 113180011A	11/15/11 0754	Anita M Dale	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1 113180011A	11/14/11 1800	David S Schrum	1
07333	Chloride by IC (solid)	EPA 300.0	1 11314621201B	11/11/11 1636	Ashley M Adams	1
01352	Deionized Water Extraction	EPA 300.0	1 11314621201B	11/10/11 0740	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1 11314820008B	11/10/11 1922	Scott W Freisher	1
646396	8 LX-30'NE1 (3') Grab Soil					
01638	TPH-GRO soil C6-C10	SW-846 8015B	1 11315A31A	11/12/11 0510	Laura M Krieger	24.08
08179	BTEX by 8021	SW-846 8021B	1 11315A31A	11/12/11 0510	Laura M Krieger	24.08
01150	GC - Bulk Soil Prep	SW-846 5035A	1 201131326144	11/9/11 2137	Lois E Hiltz	n.a.
		Modified				
08270	TPH-DRO soil C10-C28	SW-846 8015B	1 113180011A	11/15/11 0810	Anita M Dale	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1 113180011A	11/14/11 1800	David S Schrum	1
07333	Chloride by IC (solid)	EPA 300.0	1 11314621201B	11/14/11 1948	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1 11314621201B	11/10/11 0740	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1 11314820008B	11/10/11 1922	Scott W Freisher	1
6463969	9 LX-30'NE2 (3') Grab Soil					
01638	TPH-GRO soil C6-C10	SW-846 8015B	1 11315A31A	11/12/11 1125	Laura M Krieger	24.44
08179	BTEX by 8021	SW-846 8021B	1 11315A31A	11/12/11 1125	Laura M Krieger	24.44
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1 201131326144	11/9/11 2139	Lois E Hiltz	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1 113180011A	11/15/11 0827	Anita M Dale	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1 113180011A	11/14/11 1800	David S Schrum	1
07333	Chloride by IC (solid)	EPA 300.0	1 11314621201B	11/14/11 2002	Ashley M Adams	50
01352	Deionized Water Extraction	EPA 300.0	1 11314621201B	11/10/11 0740	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1 11314820008B	11/10/11 1922	Scott W Freisher	1

Client Name: Conestoga-Rovers & Associates

Group Number: 1275488

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	Max RPD
Batch number: 11315A31A	S	ample numbe	er(s): 64639	66-6463969				
Benzene Ethylbenzene Toluene TPH-GRO soil C6-C10 Total Xylenes Batch number: 113180011A	N.D. N.D. N.D. N.D.	5.0 5.0 1.0 15. ample numbe	ug/kg ug/kg ug/kg mg/kg ug/kg	90 91 90 91 94	91	76-118 77-115 80-120 67-119 78-115		1 30
TPH-DRO soil C10-C28 Batch number: 11314621201B	N.D.	ample numbe 12. ample numbe	mg/kg	80		76-117		
Chloride by IC (solid) Batch number: 11314820008B	N.D.	10.0 ample numbe	mg/kg	105		90-110		
Moisture				100		99-101		

Laboratory Compliance Quality Control

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
Batch number: 11315A31A	:	Sample numb	er(s): 646396	66-646396	9 UNSPK:	P461995			
Benzene	102	89	52-135	9	30				
Ethylbenzene	102	95	56-132	4	30				
Toluene	102	93	59-129	5	30				
Total Xylenes	105	97	66-112	5	30				

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

Batch number: 113180011A	S	Sample number(s): 6463966-6463969 UNSPK: 64639	66 BKG:	6463966		
TPH-DRO soil C10-C28	81	30-159	N.D.	N.D.	0 (1)	20
Batch number: 11314621201B	S	Cample number(s): 6463966-6463969 UNSPK: 64639	66 BKG:	6463966		
Chloride by IC (solid)	101	90-110	17.1	16.5	3 (1)	20
Batch number: 11314820008B	S	Sample number(s): 6463966-6463969 BKG: P461478	3			
Moisture			16.6	16.8	1	15

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO soil C6-C10 Batch number: 11315A31A

	Trifluorotoluene-F	Trifluorotoluene-P	
6463966	107	101	
463967	104	99	
463968	104	99	
463969	99	92	
Blank	107	102	
CS	118	103	
CSD	120		
IS		80	
1SD		82	
mits:	61-122	73-117	

Analysis Name: TPH-DRO soil C10-C28 Batch number: 113180011A

	Orthoterphenyl	
6463966	89	
6463967	89	
6463968	90	
6463969	88	
Blank	87	

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

Page 6 of 7

DUP	88
LCS	91
MS	91
Limits:	59-129

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

Page 7 of 7

QC Comment

#VALUE!

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

6463966 LX-36'SW1 (3.5') Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6463967 LX-36'SW2 (3') Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6463968 LX-30'NE1 (3') Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6463969 LX-30'NE2 (3') Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	Ib.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is \geq the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- **ppm** parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A TIC is a possible aldol-condensation product
- **B** Analyte was also detected in the blank
- **C** Pesticide result confirmed by GC/MS
- D Compound quantitated on a diluted sample
- E Concentration exceeds the calibration range of the instrument
- **N** Presumptive evidence of a compound (TICs only)
- P Concentration difference between primary and confirmation columns >25%
- U Compound was not detected
- **X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- **B** Value is <CRDL, but \ge IDL
- E Estimated due to interference
- M Duplicate injection precision not met
- N Spike sample not within control limits
- **S** Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
- * Duplicate analysis not within control limits
- + Correlation coefficient for MSA < 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster

Laboratories

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Conestoga-Rovers & Associates 6320 Rothway, Suite 100 Houston TX 77040

January 25, 2012

Project: West Dollarhide Drinkard Unit #148

Submittal Date: 01/18/2012 Group Number: 1285444 PO Number: 4043920 Release Number: LEA COUNTY, NM State of Sample Origin: NM

<u>Client Sample Description</u> LX-60'NE3(3') Grab Soil Sample LX-60'NE4(3') Grab Soil Sample Lancaster Labs (LLI) # 6524411 6524412

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

 ELECTRONIC
 Conestoga-Rovers & Associates
 Attn: Tom Larson

 COPY TO
 ELECTRONIC
 LLI
 Attn: EDD Group - Report

 COPY TO
 COPY TO
 ELECTRONIC
 Attn: EDD Group - Report





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Questions? Contact your Client Services Representative Wendy A Kozma at (717) 656-2300 Ext. 1522

Respectfully Submitted,

Jelevis & Tomaryko Valerie L. Tomayko Principal Specialist



Analysis Report

Conestoga-Rovers & Associates

6320 Rothway, Suite 100

Houston TX 77040

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Page 1 of 1

Sample Description: LX-60'NE3(3') Grab Soil Sample West Dollarhide Drinkard Unit #148

LLI Sample # SW 6524411 LLI Group # 1285444 Account # 11713

Project Name: West Dollarhide Drinkard Unit #148

Collected: 01/16/2012 14:30 by TL

Submitted: 01/18/2012 09:15 Reported: 01/25/2012 16:05

WDNE 3

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
GC Vo	latiles SW-846	5 8015B	mg/kg	mg/kg	
01638	TPH-GRO soil C6-C10	n.a.	N.D.	1.1	25.35
GC Vo	latiles SW-846	5 8021B	mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0055	25.35
08179	Ethylbenzene	100-41-4	N.D.	0.0055	25.35
08179	Toluene	108-88-3	N.D.	0.0055	25.35
08179	Total Xylenes	1330-20-7	N.D.	0.017	25.35
	troleum SW-846 carbons	5 8015B	mg/kg	mg/kg	
-	TPH-DRO soil C10-C28	n.a.	N.D.	16	1
00270	Reporting limits were raise			10	1
Wet C	hemistry EPA 30	0.0	mg/kg	mg/kg	
	-	16887-00-6	16.3	10.8	1
Wet C	hemistry SM20 2	2540 G	8	%	
00111	Moisture	n.a.	8.2	0.50	1
	"Moisture" represents the l	-	-		

103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	me	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	12023A16A	01/23/2012	21:34	Laura M Krieger	25.35
08179	BTEX by 8021	SW-846 8021B	1	12023A16A	01/23/2012	21:34	Laura M Krieger	25.35
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201201826606	01/18/2012	17:28	Scott W Freisher	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	120180020A	01/20/2012	03:31	Michele D Hamilton	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	120180020A	01/19/2012	08:10	Katheryne V Sponheimer	1
07333	Chloride by IC (solid)	EPA 300.0	1	12019019201A	01/19/2012	22:35	Ashley M Adams	1
01352	Deionized Water Extraction	EPA 300.0	1	12019019201A	01/19/2012	09:00	Nancy J Shoop	1
00111	Moisture	SM20 2540 G	1	12018820001B	01/18/2012	18:32	Scott W Freisher	1



Analysis Report

Conestoga-Rovers & Associates

6320 Rothway, Suite 100

Houston TX 77040

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Page 1 of 1

Sample Description: LX-60'NE4(3') Grab Soil Sample West Dollarhide Drinkard Unit #148

LLI Sample # SW 6524412 LLI Group # 1285444 Account # 11713

Project Name: West Dollarhide Drinkard Unit #148

Collected: 01/16/2012 14:45 by TL

Submitted: 01/18/2012 09:15 Reported: 01/25/2012 16:05

as-received basis.

WDNE4

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
GC Vo	latiles SW-84	6 8015B	mg/kg	mg/kg	
01638	TPH-GRO soil C6-C10	n.a.	N.D.	1.1	25.96
GC Vo	latiles SW-84	6 8021B	mg/kg	mg/kg	
08179	Benzene	71-43-2	0.0031 д	0.0055	25.96
08179	Ethylbenzene	100-41-4	0.0032 J	0.0055	25.96
08179	Toluene	108-88-3	0.0032 J	0.0055	25.96
08179	Total Xylenes	1330-20-7	0.0081 J	0.017	25.96
GC Pet	troleum SW-84	6 8015B	mg/kg	mg/kg	
Hydro	carbons				
-	TPH-DRO soil C10-C28	n.a.	N.D.	16	1
00270	Reporting limits were rais			10	Ŧ
	Reporting limits were fais		impie voiume.		
Wet C	hemistry EPA 3	300.0	mg/kg	mg/kg	
07333	Chloride by IC (solid)	16887-00-6	16.9	10.6	1
Wet C	hemistry SM20	2540 G	8	%	
00111	Moisture	n.a.	6.0	0.50	1
00111	"Moisture" represents the				÷
	103 - 105 degrees Celsius.	-	-		
	105 - 105 degrees cersius.	THE MOISCULE LESUIC	. reported above		

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	12023A16A	01/23/2012	22:12	Laura M Krieger	25.96
08179	BTEX by 8021	SW-846 8021B	1	12023A16A	01/23/2012	22:12	Laura M Krieger	25.96
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201201826606	01/18/2012	17:29	Scott W Freisher	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	120180020A	01/20/2012	03:05	Michele D Hamilton	n 1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	120180020A	01/19/2012	08:10	Katheryne V Sponheimer	1
07333	Chloride by IC (solid)	EPA 300.0	1	12019019201A	01/19/2012	22:49	Ashley M Adams	1
01352	Deionized Water Extraction	EPA 300.0	1	12019019201A	01/19/2012	09:00	Nancy J Shoop	1
00111	Moisture	SM20 2540 G	1	12018820001B	01/18/2012	18:32	Scott W Freisher	1



Analysis Report

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Page 1 of 2

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 01/25/12 at 04:05 PM

Group Number: 1285444

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>LOQ</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	RPD	<u>RPD Max</u>
Batch number: 12023A16A	Sample numb	er(s): 652	24411-6524	412				
Benzene	N.D.	0.0050	mg/kg	92		76-118		
Ethylbenzene	N.D.	0.0050	mg/kg	94		77-115		
Toluene	N.D.	0.0050	mg/kg	96		80-120		
TPH-GRO soil C6-C10	N.D.	1.0	mg/kg	91		67-119		
Total Xylenes	N.D.	0.015	mg/kg	97		78-115		
Batch number: 120180020A	Sample numb	er(s): 652	24411-6524	412				
TPH-DRO soil C10-C28	N.D.	12.	mg/kg	82	82	76-117	0	20
Batch number: 12019019201A	Sample numb	er(s): 652	24411-6524	412				
Chloride by IC (solid)	N.D.	10.0	mg/kg	110		90-110		
Batch number: 12018820001B	Sample numb	er(s): 652	24411-6524	412				
Moisture	_			100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 12023A16A Benzene Ethylbenzene Toluene TPH-GRO soil C6-C10 Total Xylenes	Sample 121 125 128 106 129*	number(s) 116 118 122 113 122*	: 6524411 52-135 56-132 59-129 39-118 66-112	-652443 5 6 6 0 6	12 UNSP 30 30 30 30 30 30	K: P523559			
Batch number: 12019019201A Chloride by IC (solid)	Sample 300 (2)	number(s)	: 6524411 90-110	-652443	12 UNSP	K: P522615 1 115	BKG: P522615 118	5 3 (1)	20
Batch number: 12018820001B Moisture	Sample	number(s)	: 6524411	-652443	12 BKG	: P524105 72.6	72.7	0	15

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.



Analysis Report

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Page 2 of 2

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 01/25/12 at 04:05 PM

Group Number: 1285444

Surrogate Quality Control

Batch nu	mber: 12023A16A	l Soil Master	
	Trifluorotoluene-F	Trifluorotoluene-P	
6524411	83	83	
6524412	81	81	
Blank	103	108	
LCS	101	95	
MS	72	71*	
MSD	72	67*	
Limits:	61-122	73-117	
Analysis	Name: TPH-DRO so:	il C10-C28	
	Name: TPH-DRO so: mber: 120180020A	il C10-C28	
		il C10-C28	
	mber: 120180020A	il C10-C28	
Batch num	mber: 120180020A Orthoterphenyl 89	il C10-C28	
Batch num	mber: 120180020A Orthoterphenyl	il C10-C28	
Batch num 6524411 6524412	mber: 120180020A Orthoterphenyl 89 90 94	il C10-C28	
Batch num 6524411 6524412 Blank	mber: 120180020A Orthoterphenyl 89 90	il C10-C28	
	mber: 120180020A Orthoterphenyl 89 90 94	il C10-C28	

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

	Analysis	Req	uesi	/ En	vir	on	m	eni	al	Sen	vice	əs C	Chain	of Cus	to	dy
Lancaster Laboratories	Acct. # 11713	Group	+ <u>1285</u>		_Sam	ole # <u>6</u>	52					СС)C #	2178	87	r
~		rint. Instructi	5925	everse sid	e corre		No:: 101100 - ***			rs. Reque	at a d		For Lab Us	e Only		
Client: CRA/15MC	Acct #			Valut X	\neg		<u>(5</u>			on Code			FSC: SCR#:			-
Client: <u>CRA/CEMC</u> Project Name/#: <u>WDDU # 143/0736</u> Project Manager: <u>TBmLarson</u> Sampler: <u>TBmLarson</u> Name of state where samples were collected:		e HOW	- -	IT NUMBER CLEAR &		1 87EX	8015 west Titt also	24 kindler	m Jaco				Preservatio H=HCI N=HNO₃ S=H₂SO₄	n Codes T=Thiosulfate B=NaOH O=Other		tol samples
ample Cantification						8021		\square	I	_			Remarks	6		Tearperature
LX - 60'NE3(3') LX - 60'NE4(3')	1.16.12 14	· · _	X		2	X	X X	× x X X	<				- <i>44</i> 0	w ends	59	2
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Turnaround Time Requested (TAT) (please (Rush TAT is subject to Lancaster Laboratories app Date results are needed:5	roval and surcharge.)	sh		shed by:		 {Z1	2		Date	Time 2 <i>1 5</i> 2		ved by:	dzt_	Da	ite	Time
Rush results requested by (please circle): / I Phone #: Fax #:	phone Fax E-m	aıı 		shed by:		<i>y</i>			Date Date			ved by:				Time
E-mail address: <u>[large C</u> Data Package Options (please circle if required			Reinqui	sned by:							Rece	ved by:			ite	Time
Type I (validation/NJ Reg) TX TRRP-13 Type II (Tier II) <u>MA MCP CT</u>	Yes N RCP	0	Relinqui	shed by:				\mathbf{A}	Date	Time	Rece	ved by:	/	Da	ite	Time
Type IV (CLP SOW) (If yes, indicate QC sample and s	(MS/MSD/Dup)? Yes brit triplicate volume.) quired? Yes / No		Relinqui	shed by:		/		<u> </u>	Date	Time		ved by:	- / \	/ /	ite ~ (2	

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL N.D.	Reporting Limit	BMQL MPN	Below Minimum Quantitation Level Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μġ	microgram(s)	mg	milligram(s)
mĹ	milliliter(s)	Ľ	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is \geq the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- **ppm** parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- **Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

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- A TIC is a possible aldol-condensation product
- **B** Analyte was also detected in the blank
- C Pesticide result confirmed by GC/MS
- **D** Compound quantitated on a diluted sample
- E Concentration exceeds the calibration range of the instrument
- N Presumptive evidence of a compound (TICs only)
- P Concentration difference between primary and confirmation columns >25%
- U Compound was not detected
- **X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- **B** Value is <CRDL, but \ge IDL
- E Estimated due to interference
- M Duplicate injection precision not met
- N Spike sample not within control limits
- S Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
- * Duplicate analysis not within control limits
- + Correlation coefficient for MSA < 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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