



Pima Environmental Services, LLC
1601 N. Turner Ste 500
Hobbs, NM 88240
575-964-7740

Request For Incident Closure

January 15, 2021

Re: Site Assessment and Closure Report
Josey Wales 16 St Com #4H
API No. 30-015-41090
GPS: Latitude 32.2103996
UL "O," Sec. 16, T24S, R27E
Eddy County, NM
NMOCD Ref. ID NHMP1419945153

Longitude -104.1936798

Pima Environmental Services, LLC (Pima) has conducted a site assessment, obtained soil samples and has prepared this Closure Report on behalf of Devon Energy Production Company (Devon) for the Josey Wales 16 St Com #3H (Josey Wales). This incident was assigned Incident ID NHMP1419945153, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Site Characterization

The Josey Wales is located approximately fourteen (14) miles south of Carlsbad, NM. This spill site is in Unit O, Section 16, Township 24S, Range 27E, Latitude 32.2103996, Longitude -104.1936798, Eddy County, NM.

Based upon New Mexico Office of the State Engineer well water data, depth to the shallowest groundwater in this area is 17-feet below grade surface (BGS). See Appendix A for referenced water survey. This well is located in a low Karst area.

Release Information

NHMP1419945153: On July 11, 2014, the lease operator noticed a spill caused by the failure of a check valve on the production line. The fluids stayed on location. The lost fluids were calculated to be approximately 15 barrels (bbls) of produced water. A vac truck was dispatched and was able to recover the 10 bbls.

Site Assessment and Soil Samples

On December 14, 2020, Pima Environmental conducted an assessment and obtained soil samples. The laboratory results of this sampling event can be found in the following data table. Geo-tagged photos were taken of this event and attached in Appendix C.

12-14-20 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 12-14-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
BG-1	0	ND	ND	ND	ND	ND	ND	ND
BG-2	0	ND	ND	ND	ND	ND	ND	ND
BG-3	0	ND	ND	ND	ND	ND	ND	ND
S-1	0-6	ND	ND	ND	ND	ND	ND	400
	1	ND	ND	ND	ND	ND	ND	150
S-2	0-6	ND	ND	ND	24	82	106	230
S-3	0-6	ND	ND	ND	ND	ND	ND	ND
S-4	0-6	ND	ND	ND	ND	ND	ND	ND
S-5	0-6	ND	ND	ND	ND	ND	ND	ND
S-6	0-6	ND	ND	ND	ND	ND	ND	ND
S-7	0-6	ND	ND	ND	ND	ND	ND	ND

ND- Analyte Not Detected

Complete Laboratory results can be found attached in Appendix F.

Closure Request

After careful review, Pima requests that this incident, NHMP141994515, be closed. Devon has complied with the applicable closure requirements.

Should you have any questions or need additional information, please feel free to contact Chris Jones at 575-964-7740 or chris@pimaoil.com.

Respectfully,



Chris Jones
Environmental Professional
Pima Environmental Services, LLC

Attachments

Figures:

1- Site Map

Appendices:

Appendix A- Referenced Water Survey

Appendix B- C-141's

Appendix C- Geo-tagged Sampling Photos



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Figures:
I-Site Map

Devon Energy

Josey Wales 16 St Com #3H
API 30-015-41090
Eddy County, NM
Site Map

Legend

- Josey Wales 3H
- ⊙ Samples





Pima Environmental Services

Appendix A
Water Surveys:
OSE



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has been
replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD															
		Sub-															
			Q	Q	Q												
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water	Column
C 01452		C	ED				22	24S	27E	577435	3563175*		1672		95	70	25
C 00850		C	ED		2	3	09	24S	27E	575595	3566223*		2220		108	35	73
C 00631		C	ED	3	3	4	08	24S	27E	574288	3565701*		2387		50	24	26
C 01366		CUB	ED			4	08	24S	27E	574590	3566003*		2419		60	35	25
C 00516		CUB	ED	1	3	4	08	24S	27E	574288	3565901*		2531		105	36	69
C 00516 CLW201016	O	CUB	ED	1	3	4	08	24S	27E	574288	3565901*		2531		62		
C 00516 CLW308590	O	CUB	ED	1	3	4	08	24S	27E	574288	3565901*		2531		105	36	69
C 00516 S		CUB	ED	1	3	4	08	24S	27E	574288	3565901		2531		50	17	33
C 00821		C	ED		3	2	09	24S	27E	575996	3566635*		2594		97	50	47
C 03489 POD1		CUB	ED	2	4	3	08	24S	27E	574153	3565939		2652		200		
C 00683		C	ED		4	3	08	24S	27E	573986	3565796*		2674		50	17	33
C 01187		C	ED		4	3	08	24S	27E	573986	3565796*		2674		108	17	91
C 00516 POD10		CUB	ED	3	4	3	08	24S	27E	573875	3565722		2713		160	45	115
C 03490 POD1		CUB	ED	3	4	3	08	24S	27E	573812	3565709		2755		140	23	117
C 00516 POD6		CUB	ED	1	4	3	08	24S	27E	573885	3565895*		2815		78	17	61

Average Depth to Water:32 feet

Minimum Depth:17 feet

Maximum Depth:70 feet

Record Count: 15

UTMNAD83 Radius Search (in meters):

Easting (X): 576003.654

Northing (Y): 3564040

Radius: 3000

*UTM location was derived from PLSS - see Help

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

1/13/21 12:50 PM

WATER COLUMN/ AVERAGE DEPTH TO
WATER



Pima Environmental Services

Appendix B

C-141's:

Initial

Final

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210.
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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 August 8, 2011
Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nHMP141994515

OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company Devon Energy Production <i>6137</i>		Contact Mike McMahan	
Address 6488 Seven Rivers Hwy Artesia, NM 88220		Telephone No. 575.706.4165	
Facility Name Josey Wales 16 State Com 3H		Facility Type Oil	
Surface Owner State		Mineral Owner State	API No. 30-015-41090

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	16	24S	27E	150	S	1980	E	EDDY

Latitude:

Longitude:

NATURE OF RELEASE

Type of Release Spill Produced Water	Volume of Release 15 BBL	Volume Recovered 10 BBL
Source of Release Back pressure valve failed	Date and Hour of Occurrence 7.11.14 9:00 AM	Date and Hour of Discovery 7.11.14 9:30 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jim Amos BLM & Laura OCD- left message	
By Whom? Mike McMahan	Date and Hour 7.11.14 9:30 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

July 11, 2014 @ 8:00a.m at the Josey Wales 16 State Com #3H location lease operator noticed a spill of 15 bbls. All of produced water due to a check valve failure.

Describe Area Affected and Cleanup Action Taken.*

On July 10, 2014 at the Josey Wales 16 State Com #3H lease operator disconnected the compressor and disconnected all the lines from the unit. The drain line from the unit is connected to the production water line and there was a bad check valve on the line, causing a spill of 15 bbls. produced water. A vacuum truck was called out and contractor was able to recovered 10 bbls. All appropriate notifications were made and calls to the appropriate personal.

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.

Signature: <i>Jeanette Barron</i>	OIL CONSERVATION DIVISION	
Printed Name: Jeanette Barron	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Admin Support	Approval Date: <i>7/28/14</i>	Expiration Date: <i>NA</i>
E-mail Address: Jeanette.barron@dvnm.com	Conditions of Approval:	
Date: 7.11.14 Phone: 575.748.	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

Remediation per OCD Rule &
Guidelines. SUBMIT REMEDIATION
PROPOSAL NO LATER THAN:
8/28/14

L CONSERVATION
RTESIA DISTRICT
JUL 14 2014
2RP-2376

RECEIVED

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	____ 17 ____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	NHMP1419945153
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Wesley Mathews

Title: Environmental Professional

Signature: *Wesley Mathews*

Date: 1/22/2021

email: Wesley.Mathews@dvn.com

Telephone:

OCD Only

Received by: _____

Date: _____

Incident ID	NHMP1419945153
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wesley Mathews

Title: Environmental Professional

Signature: *Wesley Mathews*

Date: 1/22/2021

email: Wesley.Mathews@dvn.com

Telephone:

OCD Only

Received by: _____

Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____



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Appendix D:
Geo-tagged Sampling Photos

Geo-tagged Sampling Photos







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Appendix D:
Laboratory Results



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

December 22, 2020

Chris Jones

Pima Environmental Services LLC

1601 N. Turner Ste 500

Hobbs, NM 88240

TEL: (575) 631-6977

FAX

RE: Josey Wales 16 State Com 3H

OrderNo.: 2012765

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 11 sample(s) on 12/16/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2012765

Date Reported: 12/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-1

Project: Josey Wales 16 State Com 3H

Collection Date: 12/14/2020 9:00:00 AM

Lab ID: 2012765-001

Matrix: SOIL

Received Date: 12/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	12/17/2020 2:20:46 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/17/2020 2:20:46 PM
Surr: DNOP	88.8	30.4-154		%Rec	1	12/17/2020 2:20:46 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	61		mg/Kg	20	12/21/2020 12:22:56 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	12/17/2020 2:12:33 PM
Toluene	ND	0.050		mg/Kg	1	12/17/2020 2:12:33 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/17/2020 2:12:33 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/17/2020 2:12:33 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	12/17/2020 2:12:33 PM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	12/17/2020 2:12:33 PM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	12/17/2020 2:12:33 PM
Surr: Toluene-d8	98.8	70-130		%Rec	1	12/17/2020 2:12:33 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/17/2020 2:12:33 PM
Surr: BFB	108	70-130		%Rec	1	12/17/2020 2:12:33 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2012765

Date Reported: 12/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-2

Project: Josey Wales 16 State Com 3H

Collection Date: 12/14/2020 9:10:00 AM

Lab ID: 2012765-002

Matrix: SOIL

Received Date: 12/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/17/2020 2:49:48 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/17/2020 2:49:48 PM
Surr: DNOP	114	30.4-154		%Rec	1	12/17/2020 2:49:48 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	12/21/2020 1:24:59 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	12/17/2020 3:38:24 PM
Toluene	ND	0.050		mg/Kg	1	12/17/2020 3:38:24 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/17/2020 3:38:24 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/17/2020 3:38:24 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	12/17/2020 3:38:24 PM
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	12/17/2020 3:38:24 PM
Surr: Dibromofluoromethane	106	70-130		%Rec	1	12/17/2020 3:38:24 PM
Surr: Toluene-d8	99.5	70-130		%Rec	1	12/17/2020 3:38:24 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/17/2020 3:38:24 PM
Surr: BFB	105	70-130		%Rec	1	12/17/2020 3:38:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2012765

Date Reported: 12/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-3

Project: Josey Wales 16 State Com 3H

Collection Date: 12/14/2020 9:20:00 AM

Lab ID: 2012765-003

Matrix: SOIL

Received Date: 12/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/17/2020 2:59:28 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/17/2020 2:59:28 PM
Surr: DNOP	50.4	30.4-154		%Rec	1	12/17/2020 2:59:28 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	61		mg/Kg	20	12/21/2020 1:37:24 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	12/17/2020 5:04:09 PM
Toluene	ND	0.050		mg/Kg	1	12/17/2020 5:04:09 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/17/2020 5:04:09 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/17/2020 5:04:09 PM
Surr: 1,2-Dichloroethane-d4	98.5	70-130		%Rec	1	12/17/2020 5:04:09 PM
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	12/17/2020 5:04:09 PM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	12/17/2020 5:04:09 PM
Surr: Toluene-d8	99.4	70-130		%Rec	1	12/17/2020 5:04:09 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/17/2020 5:04:09 PM
Surr: BFB	107	70-130		%Rec	1	12/17/2020 5:04:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2012765

Date Reported: 12/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 0"-6"

Project: Josey Wales 16 State Com 3H

Collection Date: 12/14/2020 9:30:00 AM

Lab ID: 2012765-004

Matrix: SOIL

Received Date: 12/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	12/17/2020 3:09:08 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	12/17/2020 3:09:08 PM
Surr: DNOP	94.4	30.4-154		%Rec	1	12/17/2020 3:09:08 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	400	59		mg/Kg	20	12/21/2020 1:49:49 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	12/17/2020 5:32:48 PM
Toluene	ND	0.049		mg/Kg	1	12/17/2020 5:32:48 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2020 5:32:48 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/17/2020 5:32:48 PM
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	12/17/2020 5:32:48 PM
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	12/17/2020 5:32:48 PM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	12/17/2020 5:32:48 PM
Surr: Toluene-d8	100	70-130		%Rec	1	12/17/2020 5:32:48 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2020 5:32:48 PM
Surr: BFB	104	70-130		%Rec	1	12/17/2020 5:32:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2012765

Date Reported: 12/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 1'

Project: Josey Wales 16 State Com 3H

Collection Date: 12/14/2020 9:40:00 AM

Lab ID: 2012765-005

Matrix: SOIL

Received Date: 12/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/17/2020 3:18:46 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/17/2020 3:18:46 PM
Surr: DNOP	79.0	30.4-154		%Rec	1	12/17/2020 3:18:46 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	150	60		mg/Kg	20	12/21/2020 2:02:14 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	12/17/2020 6:01:21 PM
Toluene	ND	0.049		mg/Kg	1	12/17/2020 6:01:21 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2020 6:01:21 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/17/2020 6:01:21 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	12/17/2020 6:01:21 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	12/17/2020 6:01:21 PM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	12/17/2020 6:01:21 PM
Surr: Toluene-d8	98.1	70-130		%Rec	1	12/17/2020 6:01:21 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2020 6:01:21 PM
Surr: BFB	104	70-130		%Rec	1	12/17/2020 6:01:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2012765

Date Reported: 12/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 0"-6"

Project: Josey Wales 16 State Com 3H

Collection Date: 12/14/2020 9:50:00 AM

Lab ID: 2012765-006

Matrix: SOIL

Received Date: 12/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	24	8.5		mg/Kg	1	12/17/2020 3:28:24 PM
Motor Oil Range Organics (MRO)	82	43		mg/Kg	1	12/17/2020 3:28:24 PM
Surr: DNOP	71.1	30.4-154		%Rec	1	12/17/2020 3:28:24 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	230	60		mg/Kg	20	12/21/2020 2:14:38 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	12/17/2020 6:29:55 PM
Toluene	ND	0.050		mg/Kg	1	12/17/2020 6:29:55 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/17/2020 6:29:55 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/17/2020 6:29:55 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	12/17/2020 6:29:55 PM
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	12/17/2020 6:29:55 PM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	12/17/2020 6:29:55 PM
Surr: Toluene-d8	99.4	70-130		%Rec	1	12/17/2020 6:29:55 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/17/2020 6:29:55 PM
Surr: BFB	103	70-130		%Rec	1	12/17/2020 6:29:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2012765

Date Reported: 12/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 0"-6"

Project: Josey Wales 16 State Com 3H

Collection Date: 12/14/2020 10:00:00 AM

Lab ID: 2012765-007

Matrix: SOIL

Received Date: 12/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	12/17/2020 3:37:58 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/17/2020 3:37:58 PM
Surr: DNOP	53.1	30.4-154		%Rec	1	12/17/2020 3:37:58 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	12/21/2020 2:27:03 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	12/17/2020 6:58:28 PM
Toluene	ND	0.050		mg/Kg	1	12/17/2020 6:58:28 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/17/2020 6:58:28 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/17/2020 6:58:28 PM
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	12/17/2020 6:58:28 PM
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	12/17/2020 6:58:28 PM
Surr: Dibromofluoromethane	111	70-130		%Rec	1	12/17/2020 6:58:28 PM
Surr: Toluene-d8	97.3	70-130		%Rec	1	12/17/2020 6:58:28 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/17/2020 6:58:28 PM
Surr: BFB	104	70-130		%Rec	1	12/17/2020 6:58:28 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2012765

Date Reported: 12/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 0"-6"

Project: Josey Wales 16 State Com 3H

Collection Date: 12/14/2020 10:10:00 AM

Lab ID: 2012765-008

Matrix: SOIL

Received Date: 12/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/17/2020 3:47:38 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/17/2020 3:47:38 PM
Surr: DNOP	89.6	30.4-154		%Rec	1	12/17/2020 3:47:38 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	59		mg/Kg	20	12/21/2020 2:39:28 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	12/17/2020 7:27:03 PM
Toluene	ND	0.048		mg/Kg	1	12/17/2020 7:27:03 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/17/2020 7:27:03 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/17/2020 7:27:03 PM
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	12/17/2020 7:27:03 PM
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	12/17/2020 7:27:03 PM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	12/17/2020 7:27:03 PM
Surr: Toluene-d8	99.8	70-130		%Rec	1	12/17/2020 7:27:03 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/17/2020 7:27:03 PM
Surr: BFB	108	70-130		%Rec	1	12/17/2020 7:27:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2012765

Date Reported: 12/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-5 0"-6"

Project: Josey Wales 16 State Com 3H

Collection Date: 12/14/2020 10:20:00 AM

Lab ID: 2012765-009

Matrix: SOIL

Received Date: 12/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/17/2020 3:57:14 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/17/2020 3:57:14 PM
Surr: DNOP	121	30.4-154		%Rec	1	12/17/2020 3:57:14 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	61		mg/Kg	20	12/21/2020 2:51:52 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	12/17/2020 7:55:52 PM
Toluene	ND	0.050		mg/Kg	1	12/17/2020 7:55:52 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/17/2020 7:55:52 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/17/2020 7:55:52 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	12/17/2020 7:55:52 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/17/2020 7:55:52 PM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	12/17/2020 7:55:52 PM
Surr: Toluene-d8	98.3	70-130		%Rec	1	12/17/2020 7:55:52 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/17/2020 7:55:52 PM
Surr: BFB	107	70-130		%Rec	1	12/17/2020 7:55:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2012765

Date Reported: 12/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-6 0"-6"

Project: Josey Wales 16 State Com 3H

Collection Date: 12/14/2020 10:30:00 AM

Lab ID: 2012765-010

Matrix: SOIL

Received Date: 12/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	12/17/2020 4:06:50 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	12/17/2020 4:06:50 PM
Surr: DNOP	88.6	30.4-154		%Rec	1	12/17/2020 4:06:50 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	12/21/2020 3:04:16 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	12/17/2020 8:24:25 PM
Toluene	ND	0.049		mg/Kg	1	12/17/2020 8:24:25 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2020 8:24:25 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/17/2020 8:24:25 PM
Surr: 1,2-Dichloroethane-d4	98.9	70-130		%Rec	1	12/17/2020 8:24:25 PM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	12/17/2020 8:24:25 PM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	12/17/2020 8:24:25 PM
Surr: Toluene-d8	99.3	70-130		%Rec	1	12/17/2020 8:24:25 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2020 8:24:25 PM
Surr: BFB	109	70-130		%Rec	1	12/17/2020 8:24:25 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order 2012765

Date Reported: 12/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-7 0"-6"

Project: Josey Wales 16 State Com 3H

Collection Date: 12/14/2020 10:40:00 AM

Lab ID: 2012765-011

Matrix: SOIL

Received Date: 12/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/17/2020 4:16:22 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/17/2020 4:16:22 PM
Surr: DNOP	107	30.4-154		%Rec	1	12/17/2020 4:16:22 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	12/21/2020 3:16:40 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	12/17/2020 8:52:58 PM
Toluene	ND	0.049		mg/Kg	1	12/17/2020 8:52:58 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2020 8:52:58 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/17/2020 8:52:58 PM
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	12/17/2020 8:52:58 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/17/2020 8:52:58 PM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	12/17/2020 8:52:58 PM
Surr: Toluene-d8	97.9	70-130		%Rec	1	12/17/2020 8:52:58 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2020 8:52:58 PM
Surr: BFB	104	70-130		%Rec	1	12/17/2020 8:52:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012765

22-Dec-20

Client: Pima Environmental Services LLC**Project:** Josey Wales 16 State Com 3H

Sample ID: MB-57126	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 57126	RunNo: 74164
Prep Date: 12/21/2020	Analysis Date: 12/21/2020	SeqNo: 2617307 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-57126	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 57126	RunNo: 74164
Prep Date: 12/21/2020	Analysis Date: 12/21/2020	SeqNo: 2617308 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 96.3 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012765

22-Dec-20

Client: Pima Environmental Services LLC**Project:** Josey Wales 16 State Com 3H

Sample ID: 2012765-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BG-1	Batch ID: 57056	RunNo: 74076								
Prep Date: 12/16/2020	Analysis Date: 12/17/2020	SeqNo: 2614511 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	33	9.8	48.78	0	68.2	15	184			
Surr: DNOP	3.3		4.878		66.8	30.4	154			

Sample ID: 2012765-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BG-1	Batch ID: 57056	RunNo: 74076								
Prep Date: 12/16/2020	Analysis Date: 12/17/2020	SeqNo: 2614512 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	32	9.8	48.83	0	65.5	15	184	3.85	23.9	
Surr: DNOP	3.0		4.883		61.8	30.4	154	0	0	

Sample ID: MB-57056	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 57056	RunNo: 74076								
Prep Date: 12/16/2020	Analysis Date: 12/17/2020	SeqNo: 2614535 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.3	30.4	154			

Sample ID: LCS-57056	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 57056	RunNo: 74109								
Prep Date: 12/16/2020	Analysis Date: 12/18/2020	SeqNo: 2615356 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.7	70	130			
Surr: DNOP	5.1		5.000		101	30.4	154			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012765

22-Dec-20

Client: Pima Environmental Services LLC**Project:** Josey Wales 16 State Com 3H

Sample ID: mb-57038	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 57038	RunNo: 74108								
Prep Date: 12/16/2020	Analysis Date: 12/17/2020	SeqNo: 2615361	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		101	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.7	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.51		0.5000		101	70	130			

Sample ID: lcs-57038	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 57038	RunNo: 74108								
Prep Date: 12/16/2020	Analysis Date: 12/17/2020	SeqNo: 2615362	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	107	80	120			
Toluene	1.1	0.050	1.000	0	105	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		107	70	130			
Surr: Toluene-d8	0.51		0.5000		101	70	130			

Sample ID: 2012765-002ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BG-2	Batch ID: 57038	RunNo: 74108								
Prep Date: 12/16/2020	Analysis Date: 12/17/2020	SeqNo: 2615389	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.024	0.9653	0	121	71.1	115			S
Toluene	1.2	0.048	0.9653	0	128	79.6	132			
Ethylbenzene	1.2	0.048	0.9653	0	126	83.8	134			
Xylenes, Total	4.0	0.097	2.896	0	137	82.4	132			S
Surr: 1,2-Dichloroethane-d4	0.48		0.4826		99.5	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.4826		102	70	130			
Surr: Dibromofluoromethane	0.52		0.4826		108	70	130			
Surr: Toluene-d8	0.50		0.4826		103	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012765

22-Dec-20

Client: Pima Environmental Services LLC**Project:** Josey Wales 16 State Com 3H

Sample ID: 2012765-002amsd		SampType: MSD4		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BG-2		Batch ID: 57038		RunNo: 74108						
Prep Date: 12/16/2020		Analysis Date: 12/17/2020		SeqNo: 2615390		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9872	0	122	71.1	115	2.46	20	S
Toluene	1.2	0.049	0.9872	0	121	79.6	132	3.81	20	
Ethylbenzene	1.2	0.049	0.9872	0	126	83.8	134	2.04	20	
Xylenes, Total	3.9	0.099	2.962	0	133	82.4	132	0.944	20	S
Surr: 1,2-Dichloroethane-d4	0.52		0.4936		105	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.50		0.4936		102	70	130	0	0	
Surr: Dibromofluoromethane	0.54		0.4936		109	70	130	0	0	
Surr: Toluene-d8	0.50		0.4936		100	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012765

22-Dec-20

Client: Pima Environmental Services LLC**Project:** Josey Wales 16 State Com 3H

Sample ID: mb-57038	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 57038	RunNo: 74108								
Prep Date: 12/16/2020	Analysis Date: 12/17/2020	SeqNo: 2615408			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	530		500.0		107	70	130			

Sample ID: lcs-57038	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 57038	RunNo: 74108								
Prep Date: 12/16/2020	Analysis Date: 12/17/2020	SeqNo: 2615409			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.4	70	130			
Surr: BFB	520		500.0		104	70	130			

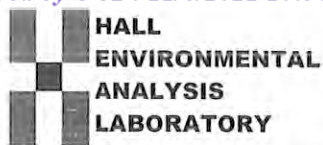
Sample ID: 2012765-001ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: BG-1	Batch ID: 57038	RunNo: 74108								
Prep Date: 12/16/2020	Analysis Date: 12/17/2020	SeqNo: 2615411			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	24.98	0	108	49.2	122			
Surr: BFB	540		499.5		108	70	130			

Sample ID: 2012765-001amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: BG-1	Batch ID: 57038	RunNo: 74108								
Prep Date: 12/16/2020	Analysis Date: 12/17/2020	SeqNo: 2615412			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	24.95	0	108	49.2	122	0.471	20	
Surr: BFB	530		499.0		105	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Pima Environmental Services LLC

Work Order Number: 2012765

RcptNo: 1

Received By: Desiree Dominguez 12/16/2020 8:00:00 AM

Completed By: Emily Mocho 12/16/2020 8:14:58 AM

Reviewed By: JR 12/16/20

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(≤ 2 or >12 unless noted)

Adjusted?

Checked by: SGL 12/14/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good				

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 60777

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 60777
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/20/2023