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

Responsible Party: LOGOS Operating LLC

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	5
Application ID	

# **Release Notification**

# **Responsible Party**

OGRID 320608

	ogosresourcesllc.	com				Contact Telephone 505-419-1100	
ng address:		Contact email: lfarrell@logosresourcesllc.com			Incident # (assigned by OCD)		
	2010 Afton Pl Fa	armington, NM 8	7401	MS	19171490	OSI NMOCD	
0775		Location		elease So		MAY 1 6 2019	
29113		(NAD 83 in a				DISTRICT 111	
rdhaus 710	Pipeline			Site Type I	Pipeline		
Discovered 4	4/18/19			API# (if app	olicable) 30-045-27	7703	
Section	Township	Range		Coun	nty		
01	31N	09W	San J	Juan Count	У		
Material			ch calculati	ions or specific	justification for the v		
Material			ch calculat	ions or specific			
Water	Volume Released (bbls)			Volume Recovered (bbls)			
			in the	Yes No	)		
e					Volume Recov	ered (bbls)	
as	Volume Releas	ed (Mcf) 185 MC	CF		Volume Recov	ered (Mcf) 0	
cribe)	Volume/Weigh	t Released (provi	ide units)		Volume/Weigh	nt Recovered (provide units)	
	Section 01  State  Material Water  e us cribe) ase: Operat Operations	rdhaus 710 Pipeline  Discovered 4/18/19  Section Township  01 31N  State Federal T  Material(s) Released (Select a Volume Release Volume Release Is the concentral produced water e Volume Release Volume Release Is Volume I	chlaus 710 Pipeline  Discovered 4/18/19  Section Township Range  01 31N 09W  State Federal Tribal Private  Nature al  Material(s) Released (Select all that apply and atta  Volume Released (bbls)  Water Volume Released (bbls)  Is the concentration of dissolved produced water >10,000 mg/1?  Volume Released (bbls)  Volume Released (Mcf) 185 Mccribe)  Volume/Weight Released (provestee: Operator noticed fluid on ground. Shut in Operations called 811 and repaired 27' of pipeline.	rdhaus 710 Pipeline  Discovered 4/18/19  Section Township Range  01 31N 09W San.  State Federal Tribal Private (Name:  Nature and Vol  Material(s) Released (Select all that apply and attach calculat  Volume Released (bbls)  Water Volume Released (bbls)  Is the concentration of dissolved chloride produced water >10,000 mg/1?  Volume Released (bbls)  Is Volume Released (Mcf) 185 MCF  Cribe) Volume/Weight Released (provide units)  ase: Operator noticed fluid on ground. Shut in well to Operations called 811 and repaired 27' of pipeline. E	Site Type   Site Type   Oiscovered 4/18/19   API# (if app.	Chan   Site Type Pipeline   API# (if applicable) 30-045-27   Section   Township   Range   County   San Juan County   San Juan County   State   Federal   Tribal   Private (Name:   Nature and Volume of Release   Nature and Volume of Release   Volume Released (bbls)   Volume Recoverable   Volume Released (provide units)   Volume Recoverable   Volume Released (provide units)   Volume Recoverable   Volume Released (provide units)   Volume Recoverable   Volume Rec	

#### Smith, Cory, EMNRD

From:

Smith, Cory, EMNRD

Sent:

Thursday, June 20, 2019 1:45 PM

To:

'Larissa Farrell'

Subject:

Nordhaus 710 Pipeline,

Larissa,

OCD received a C-141 for the Nordhaus 710 pipeline it has signatures for both initial and final.

The Closure of the C-141 portion has been denied for the following.

- Incorrect Operator Ogrid Number#
- No sampling diagram
- The notes say 27' of excavation but the site diagram scale is so large OCD can not determine sampling points etc. The Picture doesn't show any type of excavation?
- No Notice to the OCD
- No description of remedial activities
- Operator did not provide siting characteristics per 19.15.29. 11 NMAC (Distance to significant water course, residences, etc.)

Please review the closure requirements of 19.15.29 NMAC and resubmit. Please keep in mind that If the Operator does not submit a Site characterization /remediation plan that those requirements must be included in either the initial C-141 or the Final C-141..

The Initial C-141 for this site has been approved Please see below for the assigned incident#. Please remember Logos has 15 days from the date of discovery to submit a written C-141 and 90 days from the date of discovery to submit a characterization and remediation plan or a closure report. These time frames are unchanged with the above denial.

# NCS1917149081 NORDHAUS #710 PIPELINE @ 30-045-27703

General Incident Information

Site Name: NORDHAUS #710 PIPELINE Well: [30-045-27703] NORDHAUS #710

Facility:

Operator: [289408] LOGOS OPERATING, LLC

Status: Closure Not Approved Type: Natural Gas Release

District: Aztec Severity:

Surface Owner: Federal County: San Juan (45) Incident Location: H-01-31N-09W Lot: 0 FNL 0 FEL

Lat/Long: 36.929775,-107.728663 NAD83

#### Thanks,

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

Form	C-14
Page 2	

## State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?			
release as defined by 19.15.29.7(A) NMAC?				
☐ Yes ⊠ No				
IONEO : I'				
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?			
	Initial Response			
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury			
The source of the rele	ease has been stopped.			
☐ The impacted area ha	is been secured to protect human health and the environment.			
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.			
All free liquids and re	ecoverable materials have been removed and managed appropriately.			
If all the actions describe	d above have <u>not</u> been undertaken, explain why:			
	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred			
	a harrantee of actions to date. If remedial errors have been successfully completed of it the release occurred in area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.			
I hereby certify that the info	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and			
	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have			
failed to adequately investig	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 and/or regulations.	f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws			
Printed Name: Larissa	Farrell Title: Environmental Tecnician			
$\mathcal{I}$				
Signature:	Date:5/16/19			
email: _lfarrell@logosred	osurcesllc.com Telephone:505-419-1100			
och out				
OCD Only	1/2/10			
Received by:	Date:			
/				

Form C-141 Page 3

# State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes 🛭 No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No			
Are the lateral extents of the release within a 100-year floodplain?				
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☑ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>☐ Field data</li> <li>☐ Data table of soil contaminant concentration data</li> <li>☐ Depth to water determination</li> <li>☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>☐ Boring or excavation logs</li> </ul>				
<ul> <li>□ Boring or excavation logs</li> <li>□ Photographs including date and GIS information</li> <li>□ Topographic/Aerial maps</li> <li>□ Laboratory data including chain of custody</li> </ul>				

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.

Form C-141 Page 4

## State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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:
Signature:
email: _lfarrell@logosresourcesllc.com Telephone: _505-419-1100
OCD Only
Received by: Date:

Form C-141 Page 6

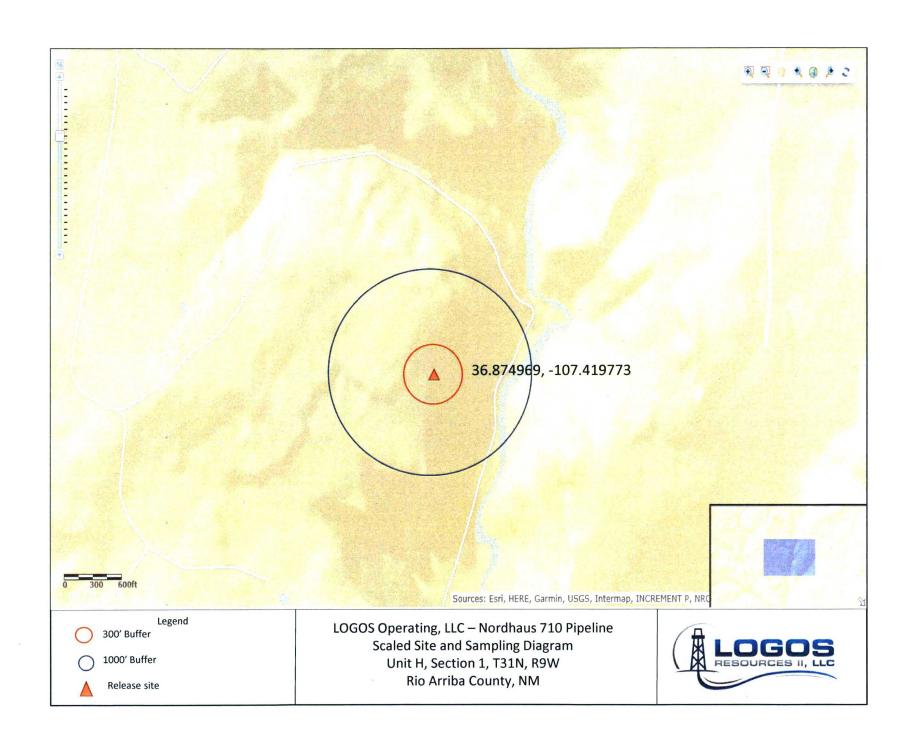
#### State of New Mexico Oil Conservation Division

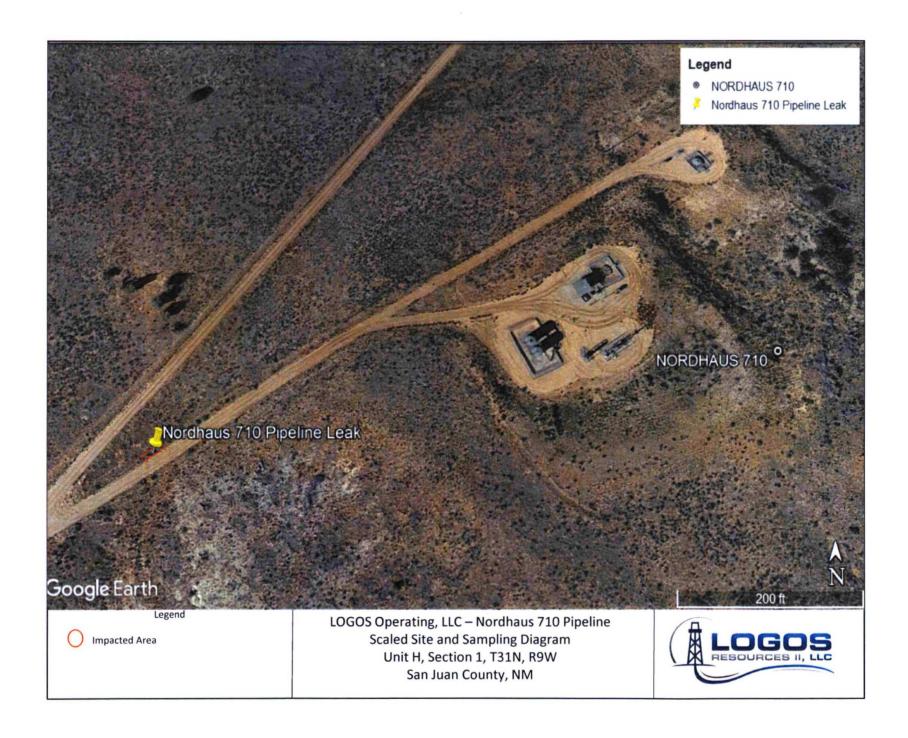
Incident ID	
District RP	
Facility ID	
Application ID	

## 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:				
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: Definited Name: Date: Date: Title:				
Printed Name: BY: Cory Smith Title: Title:				







# New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

SJ 04122 POD1

**Q64 Q16 Q4 Sec Tws Rng**3 2 12 31N 09W

X

X Y 256703 4089166 🚳

Driller License: 1357

1257

**Driller Company:** 

BAILEY DRILLING COMPANY

-

Driller Name:

**Drill Start Date:** 

BAILEY, MARK

5.00

03/23/2015

Drill Finish Date:

03/30/2015 Plu

Plug Date:

Shallow

Log File Date:

04/08/2015

PCW Rcv Date: Pipe Discharge Size: Source:

Estimated Yield: 7 GPM

Pump Type: Casing Size:

Depth Well:

650 feet

Depth Water:

560 feet

Water Bearing Stratifications:

**Casing Perforations:** 

Top Bottom Description
0 20 Sandstone/C

20 Sandstone/Gravel/Conglomerate650 Sandstone/Gravel/Conglomerate

500

550

Bottom

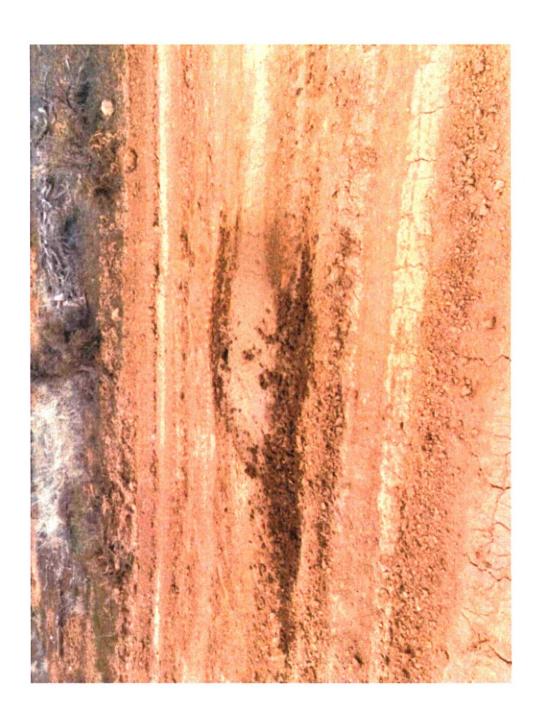
650

Top Bottom
0 550

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

5/15/19 12:44 PM

POINT OF DIVERSION SUMMARY





## **Analytical Report**

#### **Report Summary**

Client: Logos Operating, LLC

Samples Received: 4/26/2019 Job Number: 12035-0127 Work Order: P904127

Project Name/Location: Nordhas 710 Spill Assessment Soil Sampling

Report Reviewed By:	Walter Hinduna	Date:	4/30/19	
	Walter Hinchman, Laboratory Director			



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.

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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

envirotech-inc.com

Labadmin@envirotech-inc.com



Flora Vista NM, 87415

Project Name:

Nordhas 710 Spill Assessment Soil Sampling

PO Box 18

Project Number: Project Manager: 12035-0127 Felipe Aragon Reported: 04/30/19 16:34

**Analyical Report for Samples** 

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Contaminated Soil	P904127-01A	Soil ,	04/26/19	04/26/19	Glass Jar, 4 oz.
	P904127-01B	Soil	04/26/19	04/26/19	Glass Jar, 4 oz.

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Page 2 of 10



Project Name:

Nordhas 710 Spill Assessment Soil Sampling

PO Box 18

Project Number: Project Manager: 12035-0127 Felipe Aragon Reported: 04/30/19 16:34

Flora Vista NM, 87415

Contaminated Soil P904127-01 (Solid)

		Reporting	2, 0, (50.	,					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1918004	04/29/19	04/29/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918004	04/29/19	04/29/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1.	1918004	04/29/19	04/29/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918004	04/29/19	04/29/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1 .	1918004	04/29/19	04/29/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918004	04/29/19	04/29/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		150	1918004	04/29/19	04/29/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918004	04/29/19	04/29/19	EPA 8015D	
Diesel Range Organics (C10-C28)	81.2	25.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	114	50.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.0 %	50-	150	1918004	04/29/19	04/29/19	EPA 8015D	
Surrogate: n-Nonane		99.5 %	50	200	1917048	04/29/19	04/29/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND .	20.0	mg/kg	1	1917042	04/26/19	04/26/19	EPA 300.0/9056A	

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Flora Vista NM, 87415

Project Name:

Nordhas 710 Spill Assessment Soil Sampling

PO Box 18

Project Number: Project Manager: 12035-0127

Felipe Aragon

Reported: 04/30/19 16:34

#### **Volatile Organics by EPA 8021 - Quality Control**

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1918004 - Purge and Trap EPA 5030A										
Blank (1918004-BLK1)				Prepared &	Analyzed:	04/29/19 1				
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	•							
Ethylbenzene	ND	0.0250	n							
p,m-Xylene	ND	0.0500								
o-Xylene	ND	0.0250								
Total Xylenes	ND	0.0250								
Surrogate: 4-Bromochlorobenzene-PID	8.07		7	8.00		101	50-150			
LCS (1918004-BS1)				Prepared &	Analyzed:	04/29/19 1				
Benzene	4.64	0.0250	mg/kg	5.00		92.7	70-130			
Toluene	5.06	0.0250		5.00		101	70-130			
Ethylbenzene	5.04	0.0250	-	5.00		101	70-130			
p,m-Xylene	10.4	0.0500	n	10.0		104	70-130			
o-Xylene	5.04	0.0250		5.00		101	70-130			
Total Xylenes	15.4	0.0250	•	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.08		,	8.00		101	50-150	•		
Matrix Spike (1918004-MS1)	Soui	ce: P904127-	01	Prepared &	: Analyzed:	04/29/19 1				
Benzene	4.73	0.0250	mg/kg	5.00	ND	94.5	54.3-133			
Toluene	5.15	0.0250		5.00	ND	103	61.4-130			
Ethylbenzene	5.14	0.0250		5.00	ND	103	61.4-133			
p,m-Xylene	10.6	0.0500	**	10.0	ND	106	63.3-131			
o-Xylene	5.14	0.0250	•	5.00	ND	103	63.3-131			
Total Xylenes	15.7	0.0250	**	15.0	ND	105	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.09		"	8.00		101	50-150	***		
Matrix Spike Dup (1918004-MSD1)	Soui	rce: P904127-	01	Prepared: 0	14/29/19 1 A	Analyzed: 0	4/29/19 2			
Benzene	4.74	0.0250	mg/kg	5.00	ND	94.8	54.3-133	0.303	20	
Toluene	5.17	0.0250		5.00	ND	103	61.4-130	0.401	20	
Ethylbenzene	5.17	0.0250	•	5.00	ND	103	61.4-133	0.592	20	•
p,m-Xylene	10.7	0.0500	•	10.0	ND	107	63.3-131	0.586	20	
o-Xylene	5.17	0.0250		5.00	ND	103	63.3-131	0.609	20	
Total Xylenes	15.8	0.0250	*	15.0	ND	106	63.3-131	0.593	20	
Surrogate: 4-Bromochlorobenzene-PID	8.08		,,	8.00		101	50-150		····	

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24 Hour Emergency Response Phone (800) 362-1879

Labadmin@envirotech-inc.com



Project Name:

Nordhas 710 Spill Assessment Soil Sampling

PO Box 18

Project Number: Project Manager: 12035-0127

Reported: 04/30/19 16:34

Flora Vista NM, 87415

Felipe Aragon

Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1917048 - DRO Extraction EPA 3570		•								
Blank (1917048-BLK1)				Prepared: (	04/29/19 0 /	Analyzed: (	14/29/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	. 50.0								
Surrogate: n-Nonane	48.5		-	50.0		96.9	50-200			
LCS (1917048-BS1)				Prepared: (	04/29/19 0 /	Analyzed: 0	14/29/19 1			
Diesel Range Organics (C10-C28)	494 .	25.0	mg/kg	500		98.7	38-132			
Surrogate: n-Nonane	47.9		*	50.0		95.9	50-200	·		
Matrix Spike (1917048-MS1)	Sou	rce: P904130-	01	Prepared: (	04/29/19 0 /	Analyzed: 0	14/29/19 1			
Diesel Range Organics (C10-C28)	692	25.0	mg/kg	500	168	105	38-132			
Surrogate: n-Nonane	50.7		,	50.0		101	50-200			
Matrix Spike Dup (1917048-MSD1)	Sou	ırce: P904130-	01	Prepared: (	04/29/19 0 /	Analyzed: 0	14/29/19 1			
Diesel Range Organics (C10-C28)	715	25.0	mg/kg	500	168	109	38-132	3.29	20	
Surrogate: n-Nonane	51.3		*	50.0		103	50-200			

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Labadmin@envirotech-inc.com



Flora Vista NM, 87415

Project Name:

Nordhas 710 Spill Assessment Soil Sampling

PO Box 18

Project Number: Project Manager: 12035-0127 Felipe Aragon

**Reported:** 04/30/19 16:34

Nonhalogenated Organics by 8015 - Quality Control

**Envirotech Analytical Laboratory** 

Amelia	Domile	Reporting	I Indian	Spike	Source	N/DEC	%REC	DDD	RPD	Natar
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1918004 - Purge and Trap EPA 5030A										
Blank (1918004-BLK1)				Prepared &	Analyzed:	04/29/19 1				
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		"	8.00		94.3	50-150			
LCS (1918004-BS1)				Prepared &	Analyzed:	04/29/19 1				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		mg/kg	8.00		95.9	50-150			
LCS (1918004-BS2)				Prepared &	Analyzed:	04/29/19 1				
Gasoline Range Organics (C6-C10)	55.7	20.0	mg/kg	50.0		111	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		"	8.00		96.7	50-150			
Matrix Spike (1918004-MS2)	Sou	rce: P904127-	01	Prepared: (	04/29/19 1 /	Analyzed: 0	4/29/19 2			
Gasoline Range Organics (C6-C10)	55.4	20.0	mg/kg	50.0	ND	111	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		"	8.00		97.3	50-150			
Matrix Spike Dup (1918004-MSD2)	Sou	rce: P904127-	01	Prepared: (	04/29/19 1 /	Analyzed: 0	4/29/19 2			
Gasoline Range Organics (C6-C10)	50.5	20.0	mg/kg	50.0	ND	101	70-130	9.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		"	8.00		97.2	50-150			

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Project Name:

Nordhas 710 Spill Assessment Soil Sampling

PO Box 18

Project Number: Project Manager: 12035-0127 Felipe Aragon Reported: 04/30/19 16:34

Flora Vista NM, 87415

Anions by 300.0/9056A - Quality Control

**Envirotech Analytical Laboratory** 

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Resuit	%REC	Limits	RPD	Limit	Notes
Batch 1917042 - Anion Extraction EPA 3	00.0/9056A									
Blank (1917042-BLK1)				Prepared 8	Analyzed:	04/26/19 1				
Chloride	ND	20.0	mg/kg							
LCS (1917042-BS1)				Prepared: (	04/26/19 1	Analyzed: 0	4/30/19 1			
Chloride	251	20.0	mg/kg	250		101	90-110			
Matrix Spike (1917042-MS1)	Sou	rce: P904126-	-01	Prepared 8	k Analyzed:	04/26/19 1				
Chloride	2090	20.0	mg/kg	250	1500	236	80-120			SPK2
Matrix Spike Dup (1917042-MSD1)	Sou	rce: P904126-	-01	Prepared 8	Analyzed:	04/26/19 1				
Chloride	1950	20.0	mg/kg	250	1500	181	80-120	6.85	20	SPK2

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Page 7 of 10



Project Name:

Nordhas 710 Spill Assessment Soil Sampling

PO Box 18 Flora Vista NM, 87415 Project Number: Project Manager: 12035-0127 Felipe Aragon **Reported:** 04/30/19 16:34

**Notes and Definitions** 

SPK2

The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to native analyte concentration at 4 times or

greater than the spike concentration.

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

RPD

Relative Percent Difference

\*\*

Methods marked with \*\* are non-accredited methods.

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Three Springs - 65 Mercado Street, Suite 115, Durango, CD #1301

Ph (505) 632-0615 | F+1505-632-1865

Ph (970) 259-0615 F- (800) 362-1679

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Project	Manager	70 5	PILL AS	resment 50%.	Report Atte	ntion		<b>阿拉</b>	L	ab U	se Only	<b>BLANCES</b>		TAT		Pageo
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