Fields, Vanessa, EMNRD

From: Fields, Vanessa, EMNRD
Sent: Thursday, February 28, 2019 11:09 AM
To: DeAnn Grant; EMNRD-OCD-District1spills; jamos@blm.gov; Rebecca Haskell
Cc: Griswold, Jim, EMNRD; Tucker, Shelly; Jennifer Knowlton; Ike Tavarez; Robert McNeill; Sheldon Hitchcock; Dakota Neel; dmckinne@blm.gov
Subject: RE: (Resubmittal) (Site Characterization and Remediation Work Plan) Nocaster 19 Federal #004H (30-025-41449) 09-20-2018 (1RP-5211)

Good morning Becky,

Per our conversation this morning please include in your summary that Concho applies micro blaze after a release has occurred, I was unaware this is a standard operating procedure for all releases that occur on Concho assets.

The remediation plan has been approved with the following conditions:

- Concho will need to collect (2) 5-point composite samples in the over sprayed release area. If samples results are above regulatory standards, further remediation will need to commence.

OCD Approval of the plan does not relieve the operator of any requirements imposed by other regulatory agencies.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: DeAnn Grant <agrant@concho.com>
Sent: Wednesday, February 13, 2019 12:37 PM
To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; jamos@blm.gov
Cc: Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Tucker, Shelly <stucker@blm.gov>; Jennifer Knowlton <jknowlton@concho.com>; Ike Tavarez <itavarez@concho.com>; Robert McNeill <RMcNeill@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; Dakota Neel <DNeel2@concho.com>; Rebecca Haskell <RHaskell@concho.com>; DeAnn Grant <agrant@concho.com>; dmckinne@blm.gov
Subject: [EXT] (Resubmittal) (Site Characterization and Remediation Work Plan) Nocaster 19 Federal #004H (30-025-41449) 09-20-2018 (1RP-5211)

To Whom It May Concern,

Please find the attached Work Plan for the COG Nocaster 19 Federal #004H (1RP-5211) release which occurred on 9/20/2018. The work plan was originally submitted to the NMOCD District 1 Office on December 19, 2018. COG is requesting that you review this work plan.

Thank you,

DeAnn Grant
HSE Administrative Assistant
agrant@concho.com
COG Operating LLC#
600 W Illinois Avenue | Midland, TX 79701
Direct: 432-253-4513 | Main: 432.683.7443
CONCHO

From: Rebecca Haskell
Sent: Wednesday, December 19, 2018 1:17 PM
To: Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us>; stucker@blm.gov
Cc: Ike Tavarez <itavarez@concho.com>; Dakota Neel <DNeel2@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; DeAnn Grant <agrant@concho.com>; Robert McNeill <RMcNeill@concho.com>; Rebecca Haskell <RHaskell@concho.com>
Subject: (Site Characterization and Remediation Work Plan) Nocaster 19 Federal #004H (30-025-41449) 09-20-2018 (1RP-5211)

Ms. Hernandez, Mr. Mann, and Ms. Tucker,

Please find the attached Site Characterization and Remediation Work Plan for the Nocaster 19 Federal #004H release which occurred on September 20, 2018 for your review and approval. If you have any questions or concerns please contact me.

Thank You,

Becky Haskell
Senior HSE Coordinator
COG Operating LLC
600 W Illinois Avenue | Midland, TX 79701
Direct: 432-818-2372 | Main: 432.683.7443
Cell: 432-556-5130
rhaskell@concho.com

CONCHO

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From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Thursday, September 27, 2018 10:36 AM
To: Rebecca Haskell <RHaskell@concho.com>; DeAnn Grant <agrant@concho.com>; Mann, Ryan

<rmann@slo.state.nm.us>; Tucker, Shelly <stucker@blm.gov>
Cc: Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; jamos@blm.gov; Ike Tavarez <itavarez@concho.com>; Robert McNeill <RMcNeill@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; Dakota Neel <DNeel2@concho.com>
Subject: [External] RE: [EXT] RE: (C-141 Initial) Nocaster 19 Federal #004H (30-025-41449) 09-20-2018

Ms. Haskell:

Acknowledged. Thanks for your prompt response regarding the release calculation as provided just for the area with overspray.

Olivia

From: Rebecca Haskell <RHaskell@concho.com>
Sent: Thursday, September 27, 2018 9:10 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; DeAnn Grant <agrant@concho.com>; Mann, Ryan <rmann@slo.state.nm.us>; Tucker, Shelly <stucker@blm.gov>
Cc: Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; jamos@blm.gov; Ike Tavarez <itavarez@concho.com>; Robert McNeill <RMcNeill@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; Dakota Neel <DNeel2@concho.com>
Subject: [EXT] RE: (C-141 Initial) Nocaster 19 Federal #004H (30-025-41449) 09-20-2018

Ms. Yu,

It is a very light overspray and yes it was measured with a measuring devise.

Thank You,

Becky Haskell
Senior HSE Coordinator
COG Operating LLC
600 W Illinois Avenue | Midland, TX 79701
Direct: 432-818-2372 | Main: 432.683.7443
Cell: 432-556-5130
rhaskell@concho.com

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From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Thursday, September 27, 2018 10:00 AM
To: DeAnn Grant; Mann, Ryan; Tucker, Shelly
Cc: Hernandez, Christina, EMNRD; Griswold, Jim, EMNRD; jamos@blm.gov; Ike Tavarez; Robert McNeill; Sheldon Hitchcock; Dakota Neel; Rebecca Haskell
Subject: [External] RE: (C-141 Initial) Nocaster 19 Federal #004H (30-025-41449) 09-20-2018

**** External email. Use caution. ****

Good morning Ms. Haskell:

Please clarify how depth of wet soil was determined. Was 0.1 inch measured with a ruler?

Thanks,
Olivia

From: DeAnn Grant <agrant@concho.com>
Sent: Monday, September 24, 2018 4:37 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us>; Tucker, Shelly <stucker@blm.gov>
Cc: Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; jamos@blm.gov; Ike Tavarez <itavarez@concho.com>; Robert McNeill <RMcNeill@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; Dakota Neel <DNeel2@concho.com>; Rebecca Haskell <RHaskell@concho.com>; DeAnn Grant <agrant@concho.com>
Subject: (C-141 Initial) Nocaster 19 Federal #004H (30-025-41449) 09-20-2018

Ms. Yu/Mr. Mann/Ms. Tucker,

Please find the attached C-141 for your consideration. Also, attached is the calculation sheet to determine the estimated release volume released. The liquid lost estimate is based on the spill dimensions, estimated depth of fluid (wet soil depth) and type of formation. The spreadsheet will calculate the volume lost in the ground and does not include the recovered amount in the calculation. The calculated volume in the ground and the volume recovered were added together and reported on the C-141. If you have any questions or concerns please do not hesitate to contact me.

Thank you,

DeAnn Grant
HSE Administrative Assistant
agrant@concho.com
COG Operating LLC#
600 W Illinois Avenue | Midland, TX 79701
Direct: 432-253-4513 | Main: 432.683.7443
CONCHO

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CONCHO

December 19, 2018

Christina Hernandez
Oil Conservation Division, District 1
1625 N. French Dr.
Hobbs, NM 88240

Ryan Mann
New Mexico State Land Office
2827 N. Dal Paso Suite 117
Hobbs, NM 88240

Shelly Tucker
Bureau of Land Management, CFO
620 E. Green Street
Carlsbad, NM 88220

Site Characterization and Remediation Work Plan
Nocaster 19 Federal #004H
API#: 30-025-41449
RP#: 1RP-5211
DOR: September 20, 2018
GPS: 32.284264 -103.503040
Unit Letter P, Section 19, Township 23 South, Range 34 East
Lea County, New Mexico

Ms. Hernandez/Mr. Mann/Ms. Tucker,

COG Operating, LLC (COG) is pleased to submit the following Site Characterization and Remediation Work Plan in response to a release that occurred at the Nocaster 19 Federal #004H. The release is located in Unit Letter P, Section 19, Township 23 South and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.284264 North and -103.503040 West.

BACKGROUND

The release was discovered on September 20, 2018. A C-141 initial report was submitted to the New Mexico Oil Conservation Division (NMOCD) and the Bureau of Land Management (BLM). The initial C-141 is presented in Appendix A. The release was caused by the equalizer being closed while circulating tanks which caused one of the tanks to overflow. The release was a crude oil release of forty-five (45) barrels (bbl.). Windy conditions on that day caused a small over spray in the pasture. Vacuum trucks were utilized to recover approximately forty-four and seven-tenths (44.7) bbl. of oil from the falcon lined facility.

GROUNDWATER AND REGULATORY FRAMEWORK

According to the New Mexico Office of the State Engineer's (NMOSE) database the nearest water well (C 02282) indicates that groundwater in the project vicinity is approximately two-hundred and twenty-five (225) feet below ground surface (BGS) and the average depth to groundwater is two-hundred and twelve (212) feet BGS. The water well information is shown in Appendix B.

A risk based evaluation and site determinations were performed in accordance to the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production in New Mexico (effective August 14, 2018). According to the site characterization evaluation, no other receptors (water wells, playas, karst, water course, lake beds or ordinance boundaries) were located within each specific boundaries or distance from the site. The groundwater data and the site characterization evaluation data is summarized in Appendix B. The delineation and closure criteria are listed below:

GENERAL SITE CHARACTERIZATION AND GROUNDWATER:

Site Characterization	Average Groundwater Depth (ft.)
None Located	>100 feet

DELINEATION AND CLOSURE CRITERIA:

Recommended Remedial Action Levels (RRALs)	
Chlorides	20,000 mg/kg
TPH (GRO and DRO and MRO)	2,500 mg/kg
TPH (GRO and DRO)	1,000 mg/kg
Benzene	10 mg/kg
Total BTEX	50 mg/kg

REMEDIATION PLAN

All samples were below the closure criteria detailed in Table 1 of 19.15.29.12 NMAC and thus no remediation will occur.

SITE RECLAMATION AND RESTORATION

All constituents of concerns were below the closure criteria detailed in Table 1 of 19.15.29.12 NMAC, however, TPH concentrations above Table 1 of 19.15.29.12 NMAC for groundwater less than fifty (50) feet BGS are present in the pasture within the first four (4) feet. TPH concentrations of one-hundred forty-five (145) mg/kg are present at zero (0) to one half (0.5) feet within the pasture. COG proposes to resample the pasture area to determine if natural attenuation has occurred. If TPH concentrations are below one-hundred (100) mg/kg a closure report will be submitted.

If TPH concentrations are above one-hundred (100) mg/kg, COG will either treat the area with microblaze and resample at a later date or will excavate approximately six (6) inches from the impacted area. If excavation is necessary approximately 12 cubic yards of material will be removed and hauled to an approved NMOCD solid waste disposal facility. Once excavated, one (1) composite soil sample will be collected from the excavated area to confirm TPH concentrations are below one-hundred (100) mg/kg. The backfill material will be non-impacted with concentrations below 600 mg/kg of chlorides. The surface will be left in a rough condition to approximate natural surface deviations and the site will be mechanically seeded with the New Mexico State Land Office (NMSLO) Sandy Loam (SL) seed mixture. A closure report will be submitted within 90 days of work plan approval.

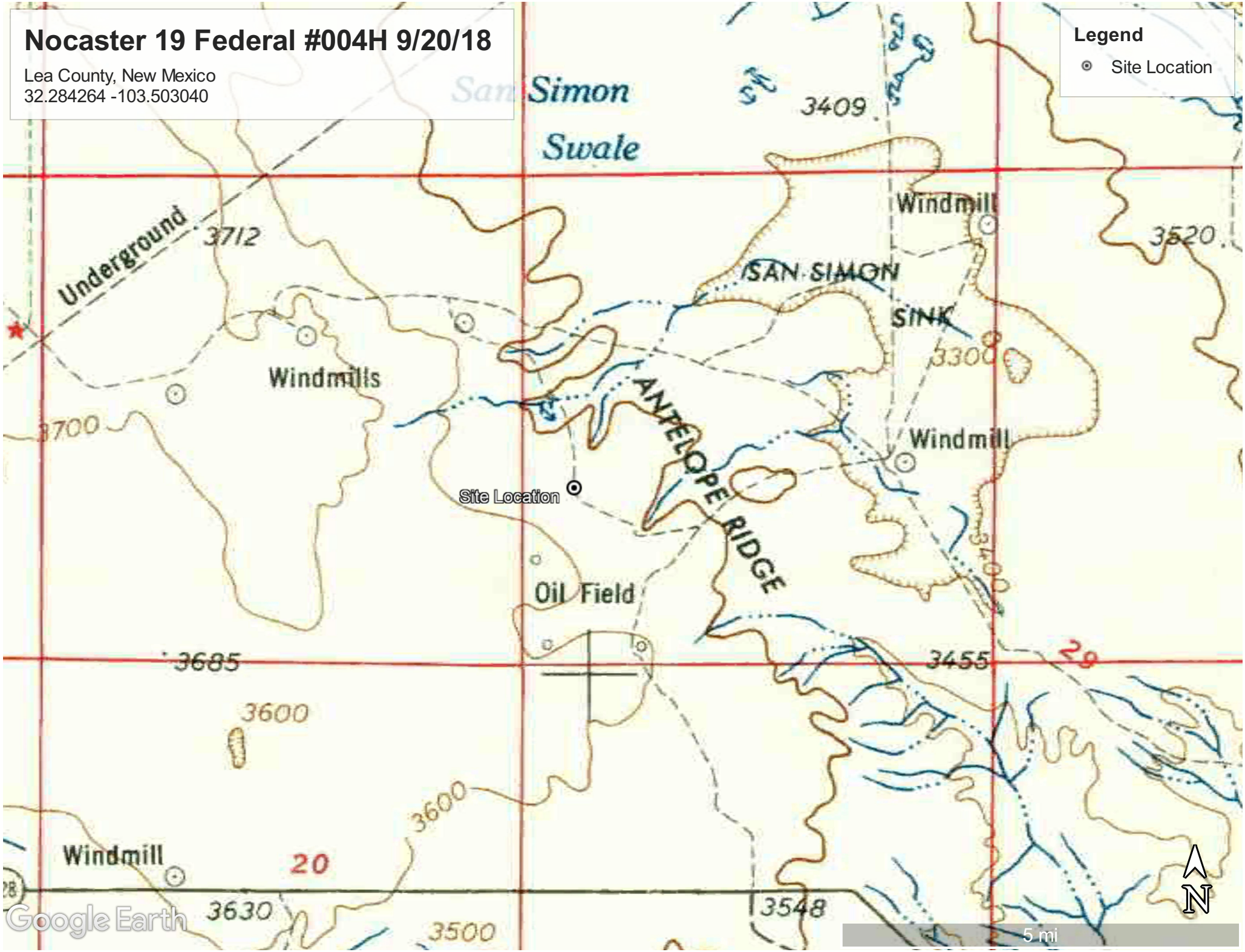
Should you have any questions or concerns please do not hesitate to contact me.

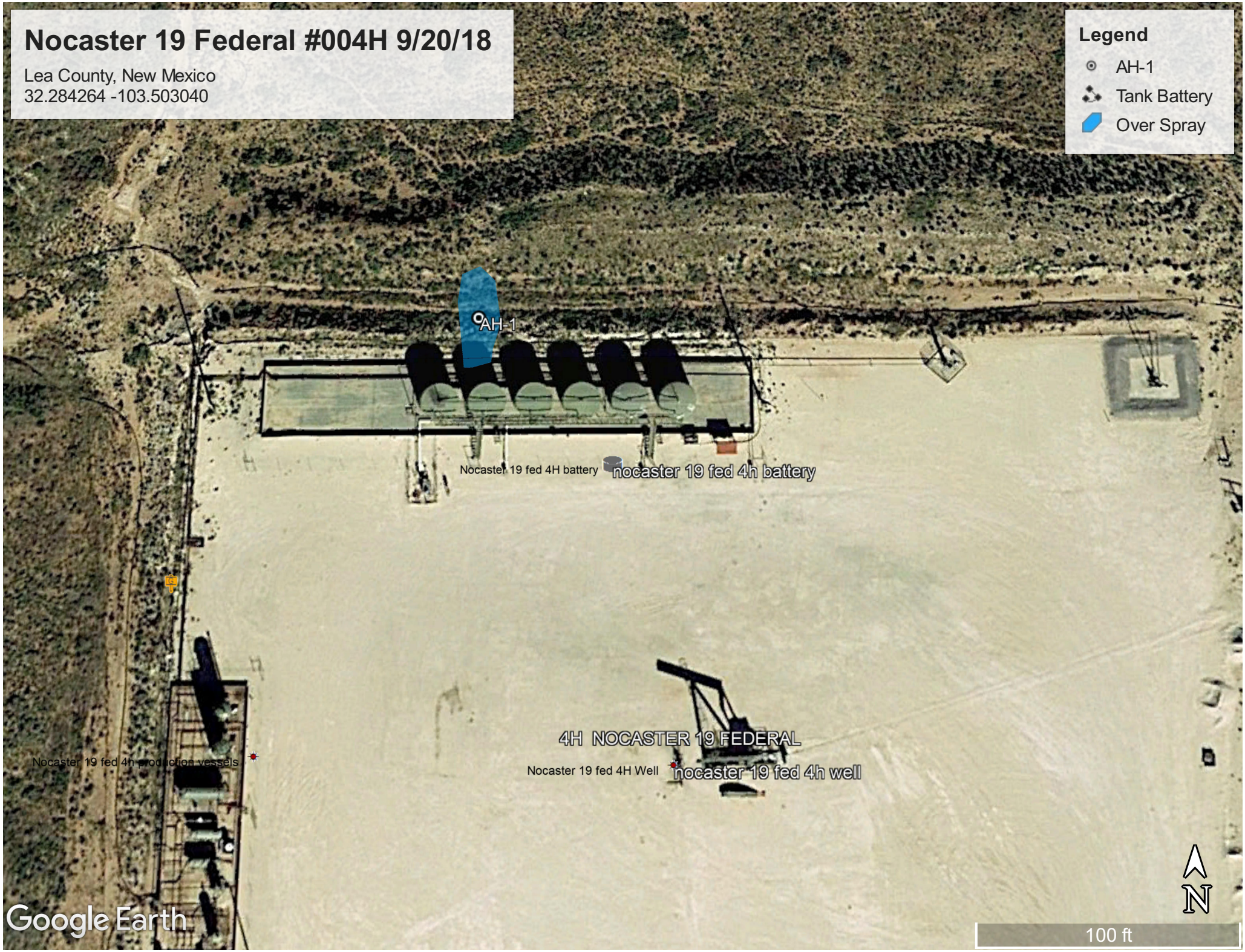
Sincerely,

Rebecca Haskell
Senior HSE Coordinator
rhaskell@concho.com

cc: File

Figures


Nocaster 19 Federal #004H 9/20/18
Lea County, New Mexico
32.284264 -103.503040
Legend
Site Location
San Simon Swale
3409
Underground
3712
Windmill
3520
SAN SIMON SINK
3300
Windmills
3700
ANTELOPE RIDGE
Windmill
Site Location
3400
Oil Field
3685
3455
29
3600
3600
Windmill
20
3630
3548
3500
N
Google Earth
5 mi


Nocaster 19 Federal #004H 9/20/18
Lea County, New Mexico
32.284264 -103.503040
Legend
AH-1
Tank Battery
Over Spray
AH-1
Nocaster 19 fed 4H battery
nocaster 19 fed 4h battery
4H NOCASTER 19 FEDERAL
Nocaster 19 fed 4H Well
nocaster 19 fed 4h well
Nocaster 19 fed 4h production vessels
Google Earth
N
100 ft

Tables

Table 1
COG Operating LLC.
Nocaster 19 Federal #004H 9/20/18
Lea County, New Mexico

Sample ID	Sample Depth (ft)	Sample Date	Soil Status		TPH (mg/kg)							Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	*Total*	GRO	DRO	*Total*			
Average Depth to Groundwater (ft)		**>100 feet**												
NMOCD RRAL Limits (mg/kg)					**-**	**-**	**-**	**2,500**	**-**	**-**	**1,000**	**10**	**50**	**20,000**
T-1	0-0.5'	9/27/2018	X		<14.9	145	<14.9	145	<14.9	145	145	<0.00200	0.00262	<4.98

Proposed Excavation Depth

(-) Not Analyzed

Appendix A

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 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	1RP-5211
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Robert McNeill	Contact Telephone	(432) 683-7443
Contact email	RMcNeill@concho.com	Incident # *(assigned by OCD)*	
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.28379 Longitude -103.50272

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Nocaster 19 Federal #004H	Site Type	Tank Battery
Date Release Discovered	September 20, 2018	API# *(if applicable)*	30-025-41449

Unit Letter	Section	Township	Range	County
P	19	23S	34E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 45	Volume Recovered (bbls) 44.7
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by the equalizer being closed when circulating tanks which resulted in one of the tanks to overflow. The release was in the lined facility with over spray in the pasture. A vacuum truck was dispatched to remove all freestanding fluids. Concho will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-5211
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The volume released was greater than 25 barrels.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Immediate notice was given by DeAnn Grant via e-mail September 20, 2018 at 4:39 pm to Olivia Yu, Shelly Tucker and Ryan Mann.

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 release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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: DeAnn Grant Title: HSE Administrative Assistant

Signature: DeAnn Grant Date: 9/20/2018

email: agrant@concho.com Telephone: (432) 253-4513

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-5211
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- ■ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ■ Data table of soil contaminant concentration data
- ■ Depth to water determination
- ■ Determination of water sources and significant watercourses within 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

Incident ID	
District RP	1RP-5211
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: Rebecca Haskell Title: Senior HSE Coordinator

Signature: Rebecca Haskell Date: 12/19/18

email: rhaskell@concho.com Telephone: 432-818-2372

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-5211
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ■ Detailed description of proposed remediation technique
- ■ Scaled sitemap with GPS coordinates showing delineation points
- ■ Estimated volume of material to be remediated
- ■ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ■ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Rebecca Haskell Title: Senior HSE Coordinator

Signature: Rebecca Haskell Date: 12/19/18

email: rhaskell@concho.com Telephone: 432-818-2372

OCD Only

Received by: Vanessa Fields Date: 2/13/2019

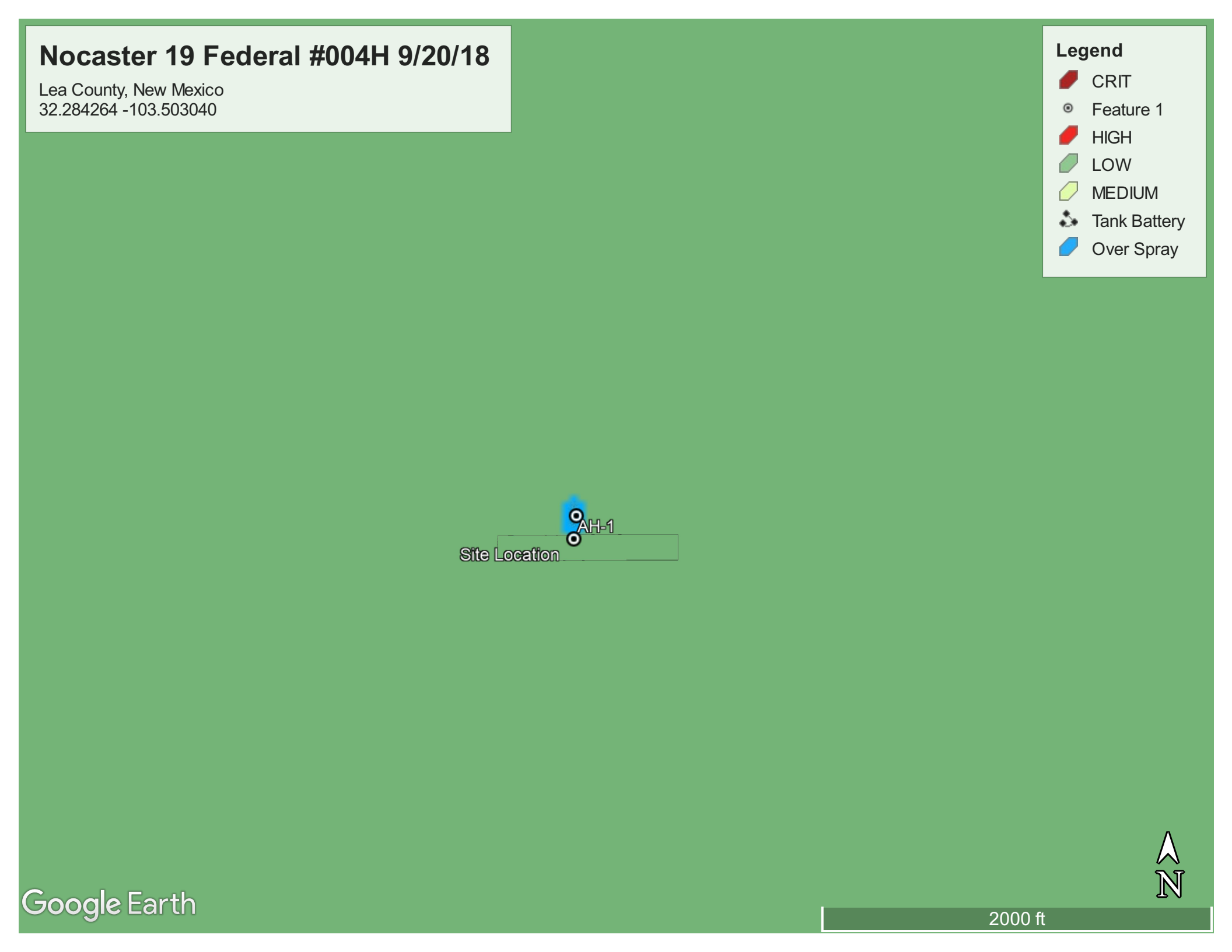
☐ Approved ■ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

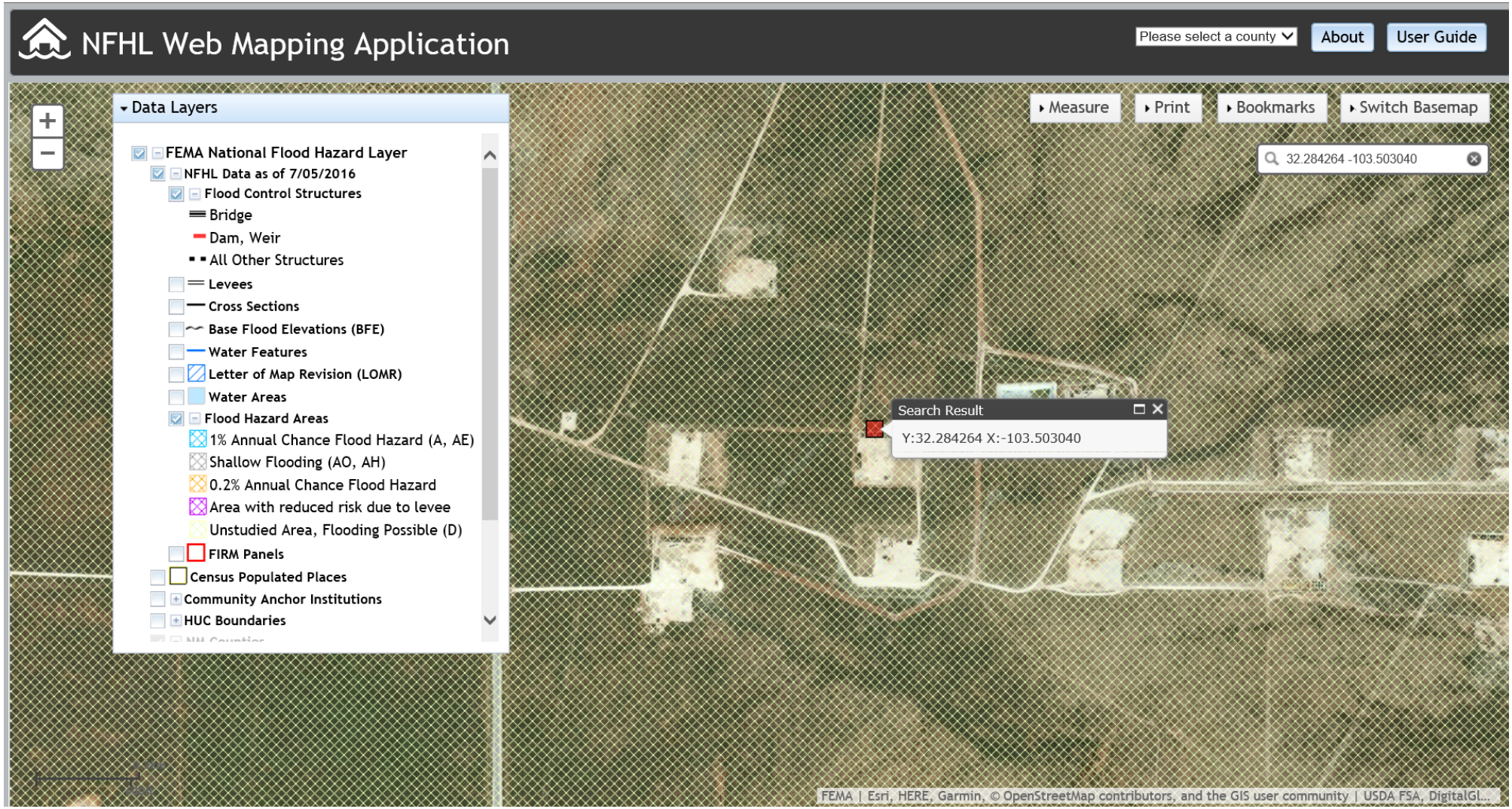
Signature: Vanessa Fields Date: 2/28/2019

Appendix B

Nocaster 19 Federal #004H 9/20/18

Lea County, New Mexico
32.284264 -103.503040




NFHL Web Mapping Application
Please select a county
About
User Guide
Measure
Print
Bookmarks
Switch Basemap
32.284264 -103.503040
Data Layers
FEMA National Flood Hazard Layer
NFHL Data as of 7/05/2016
Flood Control Structures
Bridge
Dam, Weir
All Other Structures
Levees
Cross Sections
Base Flood Elevations (BFE)
Water Features
Letter of Map Revision (LOMR)
Water Areas
Flood Hazard Areas
1% Annual Chance Flood Hazard (A, AE)
Shallow Flooding (AO, AH)
0.2% Annual Chance Flood Hazard
Area with reduced risk due to levee
Unstudied Area, Flooding Possible (D)
FIRM Panels
Census Populated Places
Community Anchor Institutions
HUC Boundaries
Search Result
Y:32.284264 X:-103.503040
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Search by Street Address:
32.284264 -103.503040

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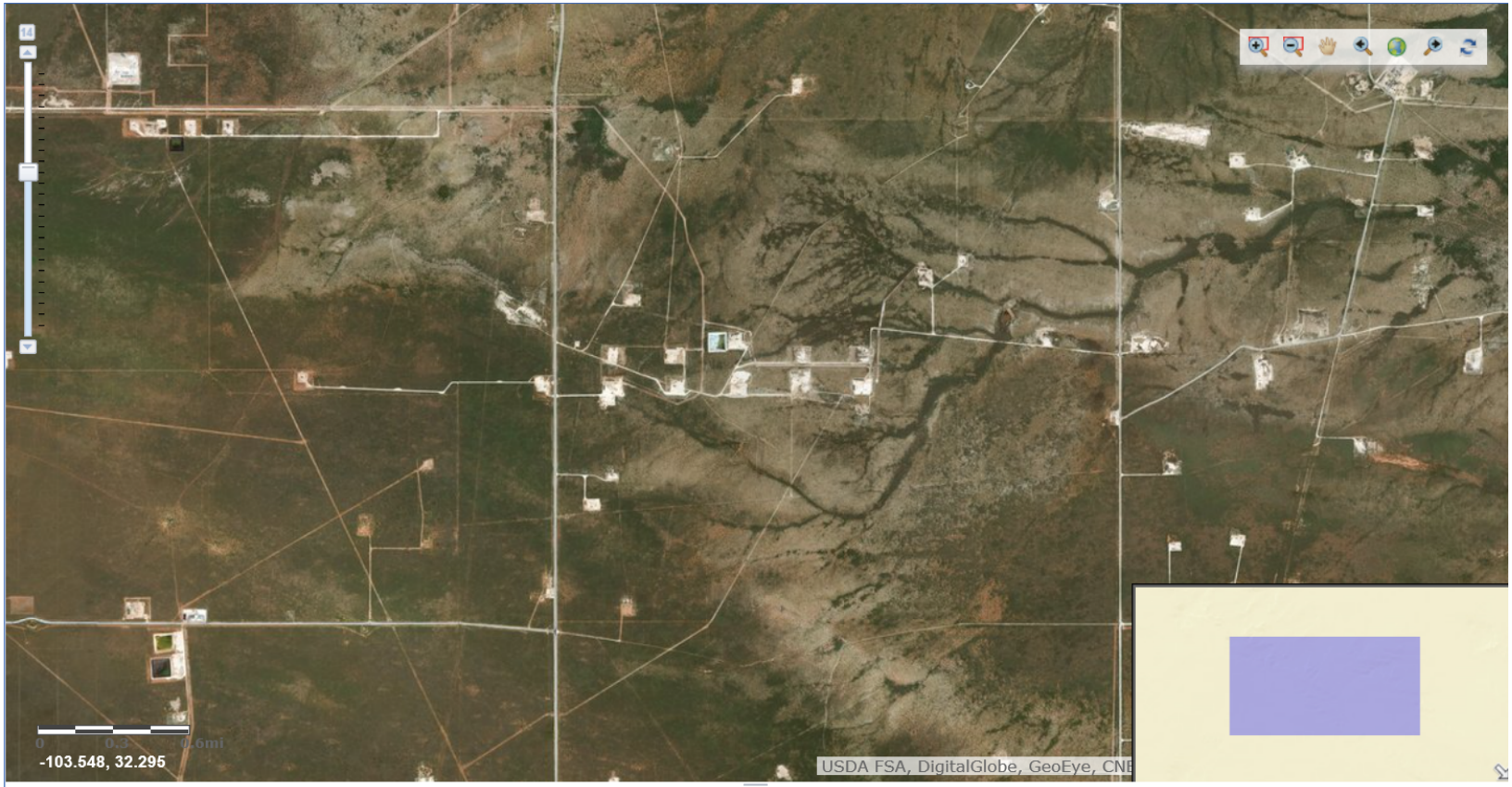
Enter Placename

Search by Site Number(s):
Enter Site Number(s)

Search by State/Territory:
Select an Area

Search by Watershed Region:
Select a Region

Surface-Water Sites
Groundwater Sites
Springs
Atmospheric Sites
Other Sites



Site Information

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 Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02282		CUB	LE	3	1	1	25	23S	33E	638098	3572436*	2908	325	225	100
C 03620 POD1		CUB	LE	1	4	3	32	23S	34E	641790	3569941	3098	480	130	350
C 02283		CUB	LE	4	2	2	26	23S	33E	637896	3572431*	3108	325	225	100
C 02284		CUB	LE	4	2	4	26	23S	33E	637907	3571626*	3323	325	225	100
CP 00556 POD1		CP	LE	4	4	3	08	23S	34E	641762	3576206	3373	497	255	242

Average Depth to Water: **212 feet**
Minimum Depth: **130 feet**
Maximum Depth: **255 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

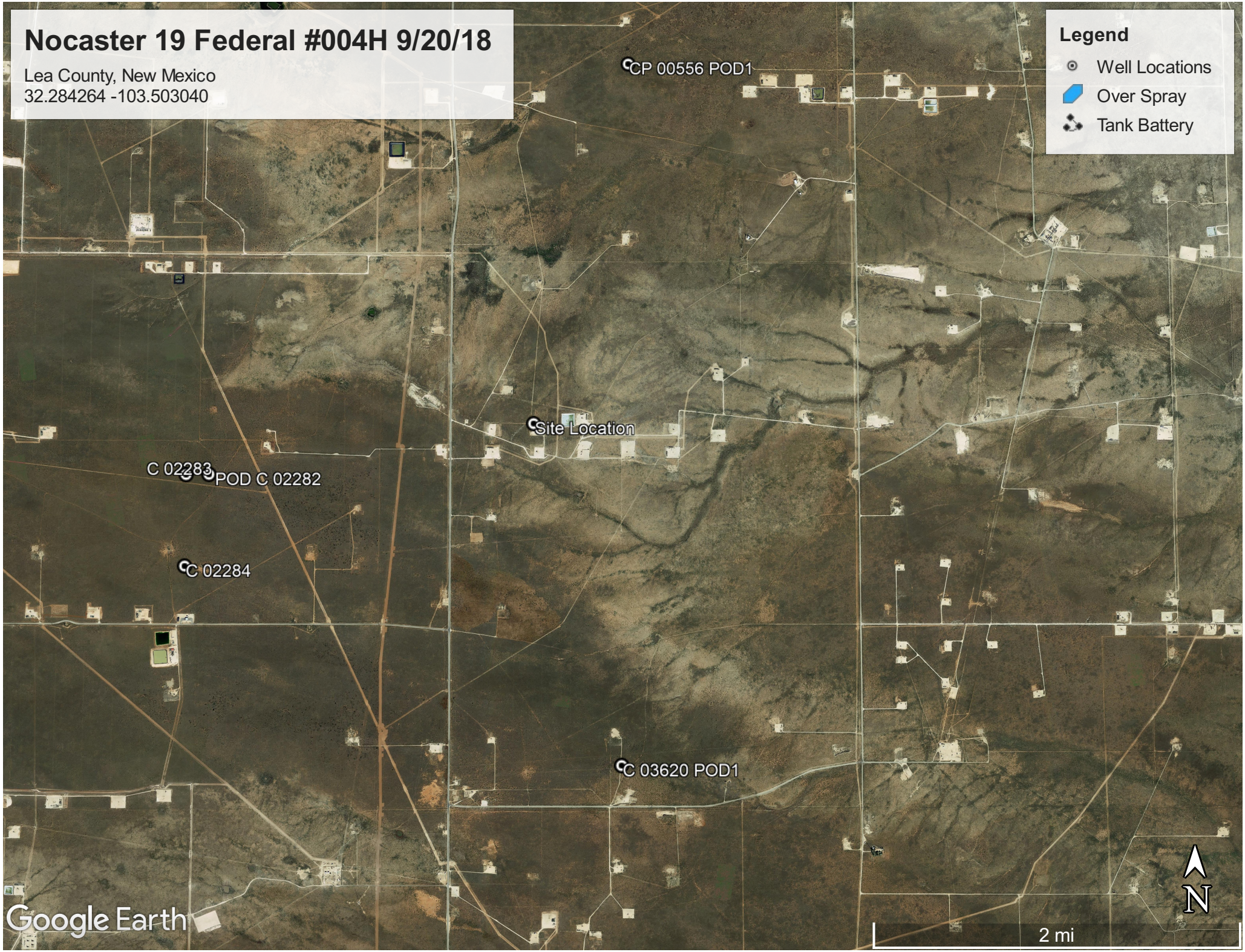
Easting (X): 640964.83 **Northing (Y):** 3572928.63 **Radius:** 3520

***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.

12/19/18 8:10 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER


Nocaster 19 Federal #004H 9/20/18
Lea County, New Mexico
32.284264 -103.503040
Legend
Well Locations
Over Spray
Tank Battery
CP 00556 POD1
Site Location
C 02283
POD C 02282
C 02284
C 03620 POD1
Google Earth
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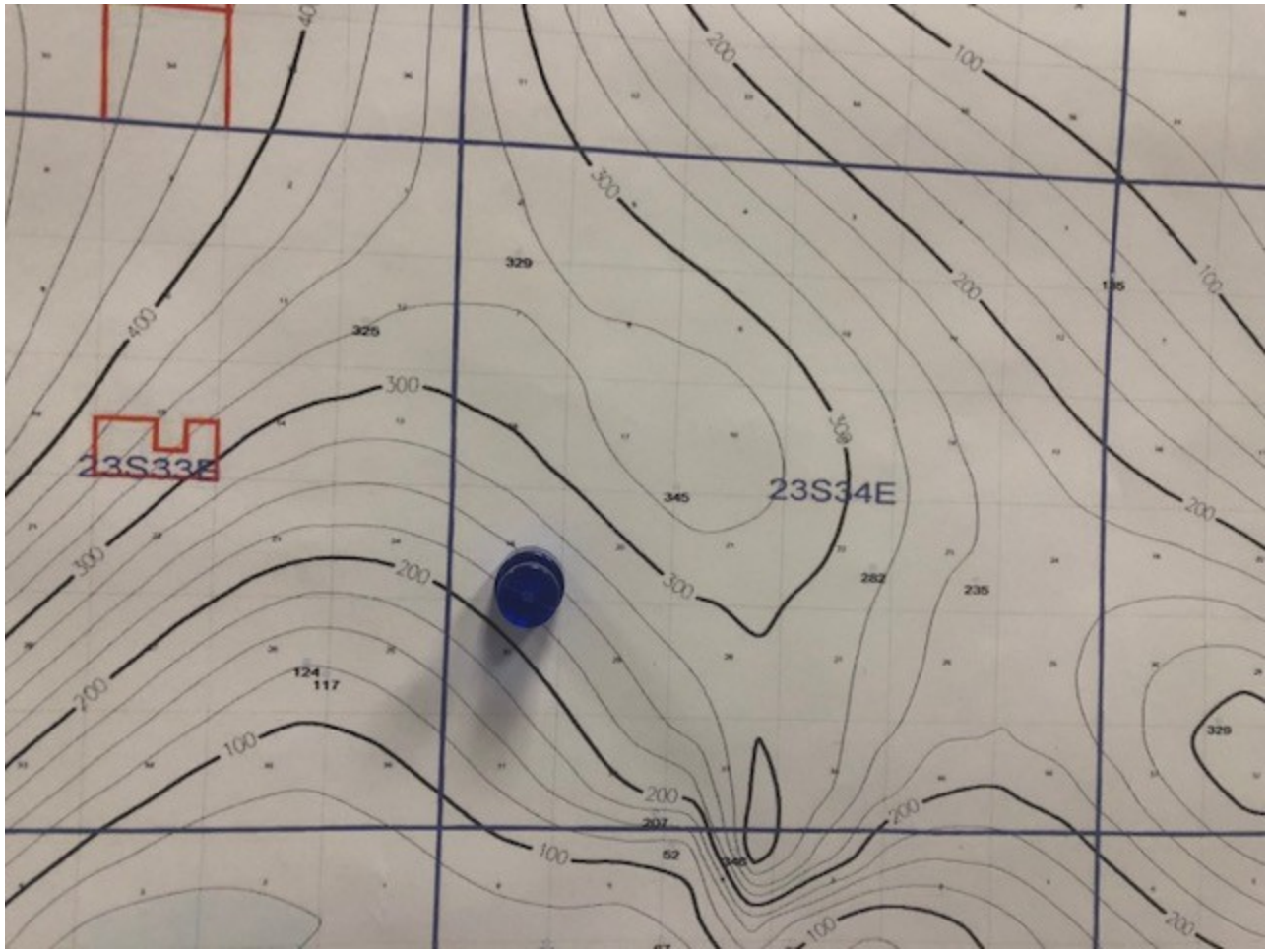
23S33E
23S34E
400
300
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329
325
345
282
235
124
117
207
52
345

Appendix C

Certificate of Analysis Summary 600660

COG Operating LLC, Artesia, NM

Project Name: Nocaster 19 Federal 4H (9/20/18)

Project Id:
Contact: Ike Tavarez
Project Location: Lea County, New Mexico

Date Received in Lab: Fri Sep-28-18 10:10 am
Report Date: 02-OCT-18
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	600660-001					
	Field Id:	AH-1 (0-0.5')-Overspray Are					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Sep-27-18 00:00					
BTEX by EPA 8021B	***Extracted:***	Sep-30-18 08:30					
	Analyzed:	Sep-30-18 15:27					
	Units/RL:	mg/kg	RL				
Benzene		<0.00200	0.00200				
Toluene		0.00262	0.00200				
Ethylbenzene		<0.00200	0.00200				
m,p-Xylenes		<0.00400	0.00400				
o-Xylene		<0.00200	0.00200				
Total Xylenes		<0.00200	0.00200				
Total BTEX		0.00262	0.00200				
Chloride by EPA 300	***Extracted:***	Sep-28-18 15:30					
	Analyzed:	Sep-28-18 18:47					
	Units/RL:	mg/kg	RL				
Chloride		<4.98	4.98				
TPH By SW8015 Mod	***Extracted:***	Sep-29-18 08:00					
	Analyzed:	Sep-30-18 07:51					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons		<14.9	14.9				
Diesel Range Organics		145	14.9				
Motor Oil Range Hydrocarbons (MRO)		<14.9	14.9				
Total TPH		145	14.9				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Jessica Kramer
Project Assistant

Analytical Report 600660

for

COG Operating LLC

Project Manager: Ike Tavarez

Nocaster 19 Federal 4H (9/20/18)

02-OCT-18

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

02-OCT-18

Project Manager: **Ike Tavarez**
COG Operating LLC
2407 Pecos Avenue
Artesia, NM 88210

Reference: XENCO Report No(s): **600660**
Nocaster 19 Federal 4H (9/20/18)
Project Address: Lea County, New Mexico

Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 600660. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 600660 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 600660

COG Operating LLC, Artesia, NM

Nocaster 19 Federal 4H (9/20/18)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH-1 (0-0.5')-Overspray Area	S	09-27-18 00:00		600660-001

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3064879 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 600660

COG Operating LLC, Artesia, NM

Nocaster 19 Federal 4H (9/20/18)

Sample Id:	**AH-1 (0-0.5')-Overspray Area**	Matrix:	Soil	Date Received:	09.28.18 10.10
Lab Sample Id:	600660-001	Date Collected:	09.27.18 00.00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	09.28.18 15.30	Basis:	Wet Weight
Seq Number:	3064849				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	09.28.18 18.47	U	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	09.29.18 08.00	Basis:	Wet Weight
Seq Number:	3064923				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<14.9	14.9	mg/kg	09.30.18 07.51	U	1
Diesel Range Organics	C10C28DRO	**145**	14.9	mg/kg	09.30.18 07.51		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	09.30.18 07.51	U	1
Total TPH	PHC635	**145**	14.9	mg/kg	09.30.18 07.51		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	09.30.18 07.51	
o-Terphenyl	84-15-1	106	%	70-135	09.30.18 07.51	

Certificate of Analytical Results 600660

COG Operating LLC, Artesia, NM

Nocaster 19 Federal 4H (9/20/18)

Sample Id:	**AH-1 (0-0.5')-Overspray Area**	Matrix:	Soil	Date Received:	09.28.18 10.10
Lab Sample Id:	600660-001	Date Collected:	09.27.18 00.00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	09.30.18 08.30	Basis:	Wet Weight
Seq Number:	3064879				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.30.18 15.27	U	1
Toluene	108-88-3	**0.00262**	0.00200	mg/kg	09.30.18 15.27		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.30.18 15.27	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.30.18 15.27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.30.18 15.27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.30.18 15.27	U	1
Total BTEX		**0.00262**	0.00200	mg/kg	09.30.18 15.27		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95	%	70-130	09.30.18 15.27	
4-Bromofluorobenzene	460-00-4	74	%	70-130	09.30.18 15.27	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 600660

COG Operating LLC

Nocaster 19 Federal 4H (9/20/18)

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3064849 Matrix: Solid Date Prep: 09.28.18
MB Sample Id: 7663245-1-BLK LCS Sample Id: 7663245-1-BKS LCSD Sample Id: 7663245-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	245	98	262	105	90-110	7	20	mg/kg	09.28.18 16:58	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3064849 Matrix: Soil Date Prep: 09.28.18
Parent Sample Id: 600660-001 MS Sample Id: 600660-001 S MSD Sample Id: 600660-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.855	249	269	108	269	108	90-110	0	20	mg/kg	09.28.18 18:53	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3064849 Matrix: Soil Date Prep: 09.28.18
Parent Sample Id: 600665-001 MS Sample Id: 600665-001 S MSD Sample Id: 600665-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.850	248	257	104	255	103	90-110	1	20	mg/kg	09.28.18 17:15	

Analytical Method: **TPH By SW8015 Mod** Prep Method: TX1005P
Seq Number: 3064923 Matrix: Solid Date Prep: 09.29.18
MB Sample Id: 7663252-1-BLK LCS Sample Id: 7663252-1-BKS LCSD Sample Id: 7663252-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<8.00	1000	954	95	940	94	70-135	1	20	mg/kg	09.29.18 17:49	
Diesel Range Organics	<8.13	1000	975	98	969	97	70-135	1	20	mg/kg	09.29.18 17:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		116		113		70-135	%	09.29.18 17:49
o-Terphenyl	100		101		100		70-135	%	09.29.18 17:49

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 600660

COG Operating LLC

Nocaster 19 Federal 4H (9/20/18)

Analytical Method: **TPH By SW8015 Mod** Prep Method: TX1005P
Seq Number: 3064923 Matrix: Soil Date Prep: 09.29.18
Parent Sample Id: 600660-001 MS Sample Id: 600660-001 S MSD Sample Id: 600660-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<7.99	998	898	90	926	93	70-135	3	20	mg/kg	09.29.18 18:47	
Diesel Range Organics	145	998	1090	95	1130	99	70-135	4	20	mg/kg	09.29.18 18:47	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	125		120		70-135	%	09.29.18 18:47
o-Terphenyl	100		103		70-135	%	09.29.18 18:47

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3064879 Matrix: Solid Date Prep: 09.30.18
MB Sample Id: 7663274-1-BLK LCS Sample Id: 7663274-1-BKS LCSD Sample Id: 7663274-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0819	81	0.0812	80	70-130	1	35	mg/kg	09.30.18 10:05	
Toluene	<0.00202	0.101	0.0759	75	0.0786	78	70-130	3	35	mg/kg	09.30.18 10:05	
Ethylbenzene	<0.00202	0.101	0.0862	85	0.0904	90	70-130	5	35	mg/kg	09.30.18 10:05	
m,p-Xylenes	<0.00403	0.202	0.169	84	0.179	89	70-130	6	35	mg/kg	09.30.18 10:05	
o-Xylene	<0.00202	0.101	0.0858	85	0.0904	90	70-130	5	35	mg/kg	09.30.18 10:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		106		94		70-130	%	09.30.18 10:05
4-Bromofluorobenzene	87		99		101		70-130	%	09.30.18 10:05

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3064879 Matrix: Soil Date Prep: 09.30.18
Parent Sample Id: 600661-010 MS Sample Id: 600661-010 S MSD Sample Id: 600661-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000388	0.101	0.0470	47	0.0568	57	70-130	19	35	mg/kg	09.30.18 10:48	X
Toluene	0.00152	0.101	0.0450	43	0.0499	48	70-130	10	35	mg/kg	09.30.18 10:48	X
Ethylbenzene	<0.00202	0.101	0.0405	40	0.0446	45	70-130	10	35	mg/kg	09.30.18 10:48	X
m,p-Xylenes	<0.00102	0.202	0.0757	37	0.0813	40	70-130	7	35	mg/kg	09.30.18 10:48	X
o-Xylene	<0.00202	0.101	0.0405	40	0.0437	44	70-130	8	35	mg/kg	09.30.18 10:48	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		109		70-130	%	09.30.18 10:48
4-Bromofluorobenzene	111		111		70-130	%	09.30.18 10:48

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Analysis Request of Chain of Custody Record

Page 1 of 1

CONCHO

One Concho
Center/600/Illinois
Avenue/Midland, Texas
Tel (432) 683-7443

Client Name: COG	**Site Manager:** Ike Tavarez
Project Name: Nocaster 19 Federal 4H (9/20/18)	
Project Location: (county, state) Lea County, New Mexico	**Project #:**
Invoice to: COG	
Receiving Laboratory: Xenco	**Sampler Signature:** Ike Tavarez

Comments: Run Deeper samples if TPH exceeds 1000 mg/kg. Run Deeper samples of benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
	AH-1 (0-0.5') - Overspray Area	9/27/2018			X				X		1	

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
X			X												X					

Relinquished by:	Date: 9-28-18	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Received by: Date: 9/28/18 Time: 10:10

LAB USE ONLY

Sample Temperature 3.0/0.0 18

REMARKS:

- [x] RUSH: Same Day 24 hr 48 hr (72 hr)
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Final 1.000

Page 11 of 12

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: COG Operating LLC

Date/ Time Received: 09/28/2018 10:10:00 AM

Work Order #: 600660

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 09/28/2018
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 09/28/2018
Jessica Kramer