

April 23, 2020

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

Ryan Mann New Mexico State Land Office 1001 S. Atkinson Roswell, NM 88230

#### **Closure Report:**

Osprey 20 State Com #001H

API#: 30-025-40968 RP#: 2RP-5253 DOR: July 29, 2019

GPS: 32.464628 -103.490332

Unit Letter G, Section 20, Township 21 South, Range 34 East

Lea County, New Mexico

To Whom It May Concern,

COG Operating, LLC (COG) is pleased to submit the following closure report in response to a release that occurred at the Osprey 20 State Com #001H. The release was located in Unit Letter G, Section 20, Township 21 South and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.464628 North and -103.490332 West.

#### **BACKGROUND**

The release was discovered on July 29, 2019. A C-141 report was submitted to the New Mexico Oil Conservation Division (NMOCD) and the New Mexico State Land Office (NMSLO). The C-141 is presented in Appendix The release was caused by an unknown third party striking the line while doing dirt work. The release consisted of approximately twenty-five (25) barrels (bbls) of produced water.

#### GROUNDWATER AND REGULATORY FRAMEWORK

According to the United States Geological Survey (USGS) the nearest water well with measurement data (322738103263701) indicates that groundwater in the project vicinity is approximately seven-hundred (700) feet below ground surface (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 are 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	700 feet

#### **DELINEATION AND CLOSURE CRITERIA:**

Table I Closure Criteria	
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

#### **Remedial Actions**

- The impacted area was excavated to depths ranging from three (3) feet BGS to five (5) feet BGS.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- Confirmation soil samples were taken from the bottom and sidewalls of the excavated areas per NMED 19.15.29.13.
- Upon receipt of acceptable analytical results from the confirmation soil sampling activities the excavation was backfilled with clean "like" material.

#### SITE RECLAMATION AND RESTORATION

Per NMED 19.15.29.13 reclamation of the pasture area has been performed by removing the impacted soil containing chloride concentrations greater than 600 mg/kg within the first four (4) feet BGS. Once excavated, soil samples were collected from the bottom and sidewalls of the excavation to confirm the removal of impacted soil greater than 600 mg/kg of chlorides. The backfill material was noncontaminated with concentrations below 600 mg/kg of chlorides. The surface was left in a rough condition to approximate natural surface deviations. The site will be mechanically seeded with the surface lease holders preferred seed mixture.

#### **CLOSURE REQUEST**

COG Operating, LLC respectfully requests that the New Mexico Oil Conservation Division and the New Mexico State Land Office grant closure approval for the Osprey 20 State Com #001H incident that occurred on July 29, 2019.

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

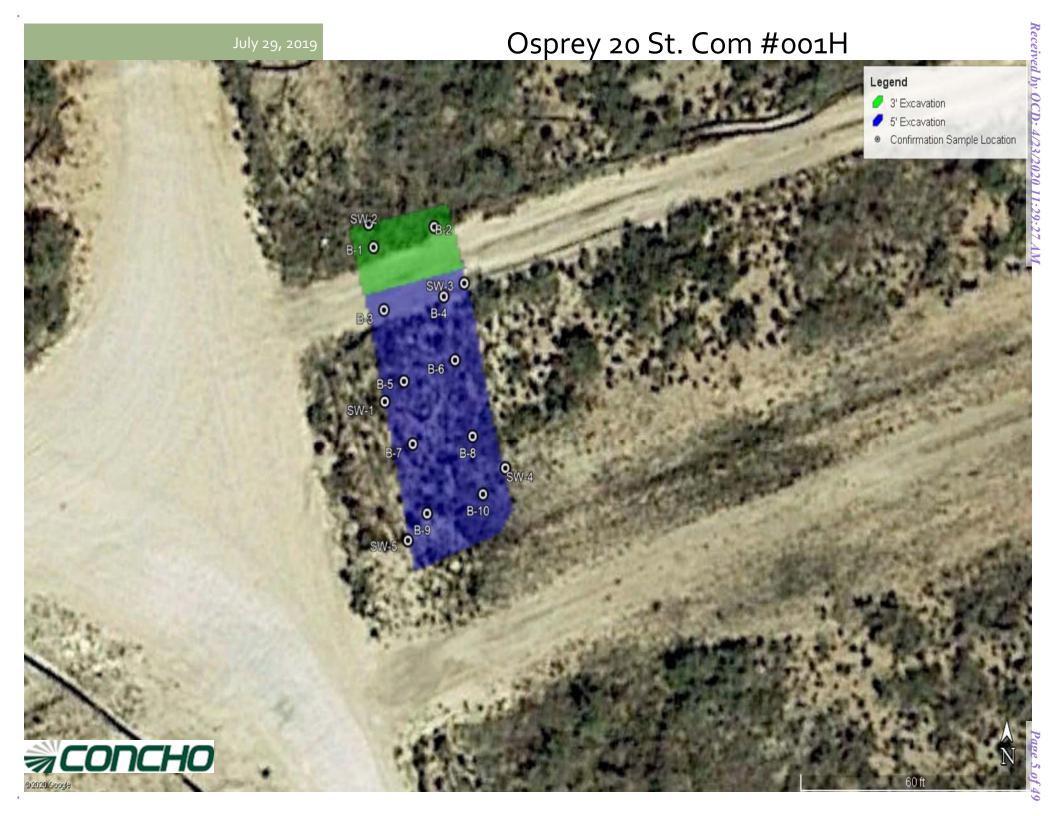
Sincerely,

Sheldon L. Hitchcock HSE Coordinator

slhitchcock@concho.com

Sheldon quitam

# **FIGURES**



## **TABLES**

Table 1
COG Operating LLC.
Osprey 20 State Com #001H
Lea County, New Mexico

Sample			Soil St		TPH (mg/kg)					Benzene	Total BTEX	Chloride		
Sample ID D	Depth (ft)	Sample Date	In-Situ	Removed	GRO	DRO	MRO	Total	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)
MOCD RRAL LI	imits (mg/kg)				-	-	-	2,500	-	-	1,000	10	50	20,000
BTTM-1	3	2/21/2020	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	352
BTTM-2	3	2/21/2020	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	576
BTTM-3	3	2/21/2020		Х	<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	832
BTTM-4	3	2/21/2020		Х	<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	800
BTTM-5	3	2/21/2020		Х	<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	864
BTTM-6	3	2/21/2020		Х	<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	2,720
BTTM-7	3	2/21/2020		Х	<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	976
BTTM-8	3	2/21/2020		Х	<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	3,080
BTTM-9	3	2/21/2020		Х	<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	3,160
BTTM-10	3	2/21/2020		Х	<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	2,560
SW-1	N/A	2/21/2020	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	16.0
SW-2	N/A	2/21/2020	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	16.0
SW-3	N/A	2/21/2020	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	16.0
SW-4	N/A	2/24/2020	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	<16.0
SW-5	N/A	2/21/2020	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	<16.0
BTTM-3	5	3/2/2020	Х		#	#	#	0.0	#	#	0.0	#	#	16.0
BTTM-4	5	3/2/2020	X		#	#	#	0.0	#	#	0.0	#	#	<16.0
BTTM-5	5	3/2/2020	X		#	#	#	0.0	#	#	0.0	#	#	<16.0
BTTM-6	5	3/2/2020	X		#	#	#	0.0	#	#	0.0	#	#	<16.0
BTTM-7	5	3/2/2020	X		#	#	#	0.0	#	#	0.0	#	#	96.0
BTTM-8	5	3/2/2020	X		#	#	#	0.0	#	#	0.0	#	#	96.0
BTTM-9	5	3/2/2020	Х		#	#	#	0.0	#	#	0.0	#	#	32.0
BTTM-10	5	3/2/2020	Х		#	#	#	0.0	#	#	0.0	#	#	32.0

(#) 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	
Facility ID	
Application ID	

### **Release Notification**

### **Responsible Party**

Responsible Party				OGRID			
Contact Name				Contact To	Contact Telephone		
Contact email				Incident #	Incident # (assigned by OCD)		
Contact mail	ing address			•			
			Location	of Release S	ource		
Latitude Longitude					nal places)		
Site Name				Site Type			
Date Release	Discovered			API# (if app	plicable)		
Unit Letter	Section	Township	Range	Cour	nty		
Crude Oil		l(s) Released (Select al	ll that apply and attach	d Volume of l		e volumes provided below) overed (bbls)	
Produced	Water	Volume Release	ed (bbls)		Volume Recovered (bbls)		
		Is the concentrate produced water	tion of dissolved c >10,000 mg/l?	chloride in the	☐ Yes ☐ No		
Condensa	te	Volume Release			Volume Reco	overed (bbls)	
Natural G	las	Volume Release	ed (Mcf)		Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide unit			e units)	Volume/Weight Recovered (provide units)			
Cause of Rele	ease						

Received by OCD: 4/23/2020 11:29:27 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Th	40		
Page	,,,,	nt.	44
I uge	10	U I	<b>T</b> ノ

Incident ID	-
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	nsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ☐ No	
If YES, was immediate notice given to the OCD? By whom? To wl	nom? When and by what means (phone email etc)?
in 125, was infinediate notice given to the OCD. By whom: 10 wi	ioni: when and by what means (phone, eman, etc):
Initial R	esponse
The responsible party must undertake the following actions immediate	y 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 o	likes, absorbent pads, or other containment devices.
All free liquids and recoverable materials have been removed an	d managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain	why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence r has begun, please attach a narrative of actions to date. If remedial within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), p	efforts have been successfully completed or if the release occurred
I hereby certify that the information given above is true and complete to the	
regulations all operators are required to report and/or file certain release notice public health or the environment. The acceptance of a C-141 report by the Company of th	OCD does not relieve the operator of liability should their operations have
failed to adequately investigate and remediate contamination that pose a thre addition, OCD acceptance of a C-141 report does not relieve the operator of	
and/or regulations.	
Printed Name:	
Signature: Sheldon quitan	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Received by OCD: 4/23/2020 11:29:27 AM
Form C-141 State of New Mexico
Page 3 Oil Conservation Division

	Page 11 of 49
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?	☐ Yes ☐ No			
Did the release impact areas <b>not</b> 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 well 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	ls.			

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.

Received by OCD: 4/23/2020 11:29:27 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Page 12 of 49

		 -,,	
Incident ID			
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:				
Signature: Sheldon Niton	Date:			
email:	Telephone:			
OCD Only				
Received by:	Date:			

Received by OCD: 4/23/2020 11:29:27 AM Form C-141 State of New Mexico Page 5 Oil Conservation Division

	Page 15 of
Incident ID	
District RP	
Facility ID	
Application ID	

### **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	e included in the plan.
<ul> <li>□ Detailed description of proposed remediation technique</li> <li>□ Scaled sitemap with GPS coordinates showing delineation poin</li> <li>□ Estimated volume of material to be remediated</li> <li>□ Closure criteria is to Table 1 specifications subject to 19.15.29.</li> <li>□ Proposed schedule for remediation (note if remediation plan times)</li> </ul>	12(C)(4) NMAC
<u>Deferral Requests Only</u> : Each of the following items must be con	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature: Sheldon Niton	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	Date:

Received by OCD: 4/23/2020 11:29:27 AM State of New Mexico
Page 6 Oil Conservation Division

	Page 14 of 4	49
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.

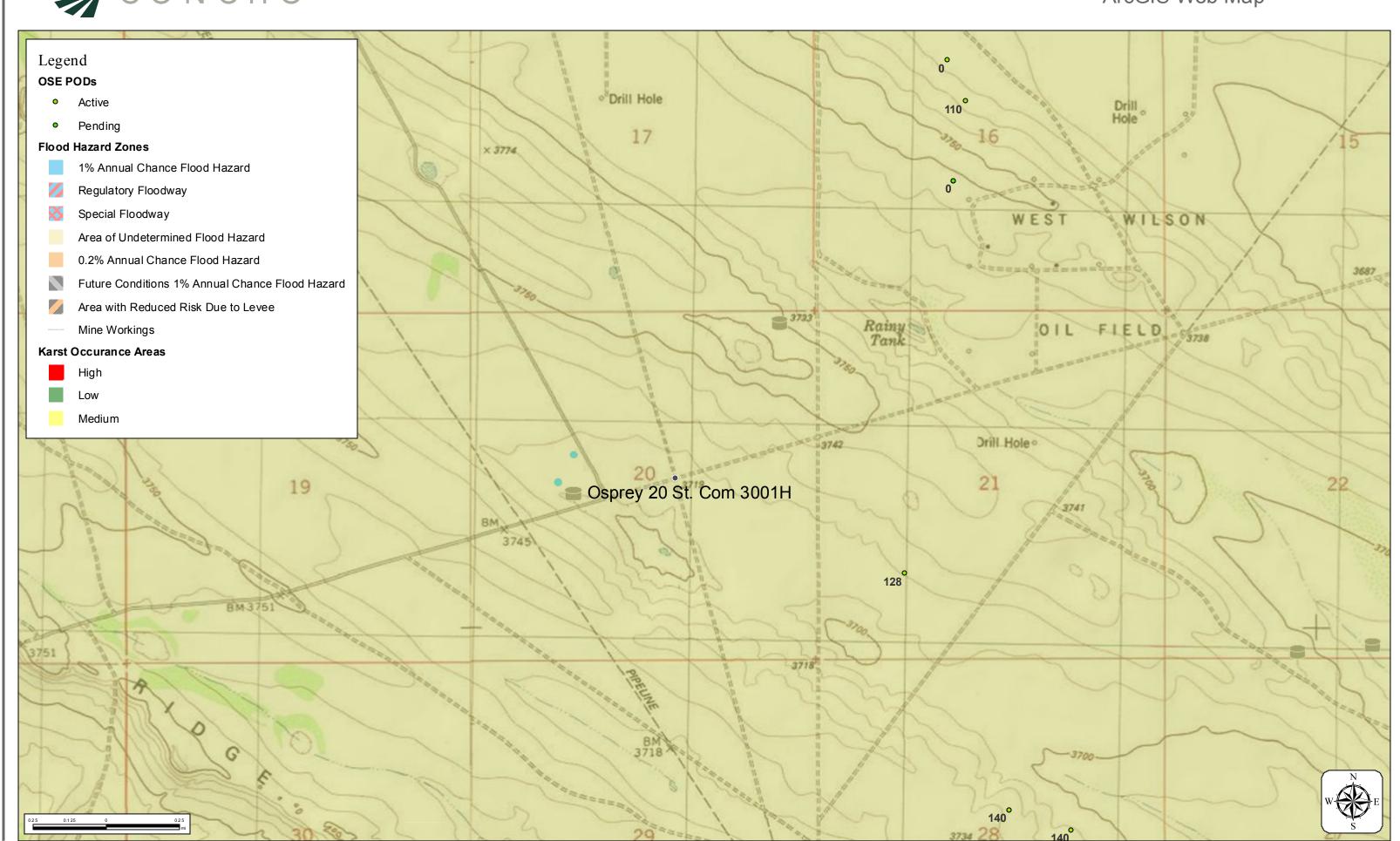
Closure Report Attachment Checklist: Each of the following i	tems must be included in the closure report.
☐ A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and replaced to the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the conformation accordance with 19.15.29.13 NMAC including notification to the Conformation of the Conforma	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
email:	Telephone:
OCD O. L.	
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:

## APPENDIX B

Received by OCD: 4/23/2020 11:29:27 AM

CONCHO

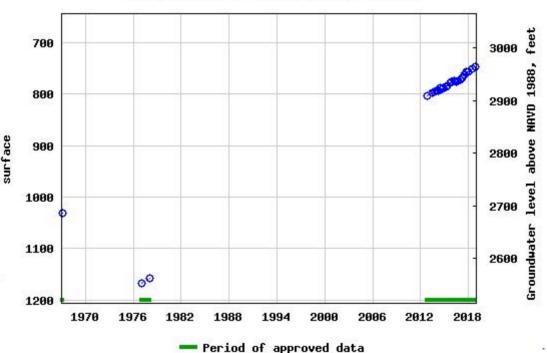
## ArcGIS Web Map



level, feet below land

Depth to water

#### USGS 322738103263701 21S.34E.23.31000



# APPENDIX C



February 24, 2020

SHELDON HITCHCOCK

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: OSPREY 20 ST. #3

Enclosed are the results of analyses for samples received by the laboratory on 02/21/20 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: Reported:

02/21/2020

02/24/2020

Project Name: Project Number: OSPREY 20 ST. #3 NONE GIVEN

Project Location:

COG - LEA CO NM

Sampling Date:

02/21/2020

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Tamara Oldaker

#### Sample ID: BTTM - 1 3' (H000556-01)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2020	ND	1.83	91.3	2.00	2.78	
Toluene*	<0.050	0.050	02/21/2020	ND	1.79	89.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	02/21/2020	ND	1.79	89.7	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/21/2020	ND	5.29	88.1	6.00	3.46	
Total BTEX	<0.300	0.300	02/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	02/24/2020	ND	384	96.0	400	8.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	196	97.9	200	1.45	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	208	104	200	0.601	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					
Surrogate: 1-Chlorooctane	82.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.9	% 42.2-15	6						

#### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



#### Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

02/21/2020

Reported: Project Name: 02/24/2020 OSPREY 20 ST. #3

Project Number: Project Location: NONE GIVEN COG - LEA CO NM

Sampling Date:

02/21/2020

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

#### Sample ID: BTTM - 2 3' (H000556-02)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2020	ND	1.83	91.3	2.00	2.78	
Toluene*	<0.050	0.050	02/21/2020	ND	1.79	89.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	02/21/2020	ND	1.79	89.7	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/21/2020	ND	5.29	88.1	6.00	3.46	
Total BTEX	<0.300	0.300	02/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 5	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/24/2020	ND	384	96.0	400	8.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	196	97.9	200	1.45	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	208	104	200	0.601	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					
Surrogate: 1-Chlorooctane	84.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.6	% 42.2-15	6						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



#### Analytical Results For:

COG OPERATING
SHELDON HITCHCOCK
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

BTEX 8021B

02/21/2020

Sampling Date:

02/21/2020

Reported:

02/24/2020

Sampling Type:

Soil

Project Name:

OSPREY 20 ST. #3

Sampling Condition: Sample Received By:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

COG - LEA CO NM

mg/kg

88.2 %

42.2-156

Tamara Oldaker

Sample ID: BTTM - 3 3' (H000556-03)

DIEX COLLE	9/	119	Allalyzo	a by: cit					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2020	ND	1.83	91.3	2.00	2.78	
Toluene*	<0.050	0.050	02/21/2020	ND	1.79	89.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	02/21/2020	ND	1.79	89.7	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/21/2020	ND	5.29	88.1	6.00	3.46	
Total BTEX	<0.300	0.300	02/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	02/24/2020	ND	384	96.0	400	8.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	196	97.9	200	1.45	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	208	104	200	0.601	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					
Surrogate: 1-Chlorooctane	82.5	% 44.3-14	4						

Analyzed By: CK

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



#### Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

02/21/2020

Reported:

02/24/2020

Project Name: Project Number: OSPREY 20 ST. #3 NONE GIVEN

Project Location:

COG - LEA CO NM

Sampling Date:

02/21/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

#### Sample ID: BTTM - 4 3' (H000556-04)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2020	ND	1.83	91.3	2.00	2.78	
Toluene*	<0.050	0.050	02/21/2020	ND	1.79	89.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	02/21/2020	ND	1.79	89.7	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/21/2020	ND	5.29	88.1	6.00	3.46	
Total BTEX	<0.300	0.300	02/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	02/24/2020	ND	384	96.0	400	8.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	196	97.9	200	1.45	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	208	104	200	0.601	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					
Surrogate: 1-Chlorooctane	83.3 9	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.2 9	42.2-15	6						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



#### Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: Reported: 02/21/2020

02/24/2020

Project Name: Project Number: OSPREY 20 ST. #3 NONE GIVEN

Project Location:

COG - LEA CO NM

Sampling Date:

02/21/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Sample ID: BTTM - 5 3' (H000556-05)

BTEX 8021B	mg/kg

DILX OUZID	1119/	, kg	Allulyze	u by. ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2020	ND	1.83	91.3	2.00	2.78	
Toluene*	<0.050	0.050	02/21/2020	ND	1.79	89.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	02/21/2020	ND	1.79	89.7	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/21/2020	ND	5.29	88.1	6.00	3.46	
Total BTEX	<0.300	0.300	02/21/2020	ND					

Analyzed By: CK

Surrogate: 4-Bromofluorobenzene (PID

102 %

73.3-129

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	02/24/2020	ND	384	96.0	400	8.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	196	97.9	200	1.45	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	208	104	200	0.601	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					

Surrogate: 1-Chlorooctane

84.4 %

44.3-144

Surrogate: 1-Chlorooctadecane

89.7 %

42.2-156

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

02/21/2020

02/21/2020

Reported:

02/24/2020

Sampling Type:

Sampling Date:

Soil

Project Name:

OSPREY 20 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

COG - LEA CO NM

#### Sample ID: BTTM - 6 3' (H000556-06)

BTEX 8021B	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2020	ND	1.83	91.3	2.00	2.78	
Toluene*	<0.050	0.050	02/21/2020	ND	1.79	89.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	02/21/2020	ND	1.79	89.7	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/21/2020	ND	5.29	88.1	6.00	3.46	
Total BTEX	<0.300	0.300	02/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	02/24/2020	ND	384	96.0	400	8.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	196	97.9	200	1.45	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	208	104	200	0.601	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					
Surrogate: 1-Chlorooctane	78.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	82.9	% 42.2-15	6						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



#### Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

BTEX 8021B

02/21/2020

Sampling Date:

02/21/2020

Reported:

02/24/2020

Sampling Type:

Soil

Project Name:

OSPREY 20 ST. #3 NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

COG - LEA CO NM

Sample ID: BTTM - 7 3' (H000556-07)

	91	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.83	91.3	2.00	2.78	
Toluene*	<0.050	0.050	02/22/2020	ND	1.79	89.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.79	89.7	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.29	88.1	6.00	3.46	
Total BTEX	<0.300	0.300	02/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	02/24/2020	ND	384	96.0	400	8.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	196	97.9	200	1.45	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	208	104	200	0.601	
D110 7 C10 C20									

Analyzed By: CK

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

74.7 %

44.3-144

77.9 %

42.2-156

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: Reported: 02/21/2020

02/24/2020

Project Name:

OSPREY 20 ST. #3

Project Number:

NONE GIVEN

Project Location:

COG - LEA CO NM

Sampling Date: 02/21/2020

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

#### Sample ID: BTTM - 8 3' (H000556-08)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358	
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559	
Total BTEX	<0.300	0.300	02/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	02/24/2020	ND	384	96.0	400	8.00	
TPH 8015M	mg/	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					
Surrogate: 1-Chlorooctane	80.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.2	% 42.2-15	6						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene



#### Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

02/21/2020

Reported: Project Name: 02/24/2020

Project Number:

OSPREY 20 ST. #3 NONE GIVEN

Project Location:

COG - LEA CO NM

Sampling Date: 02/21/2020

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

#### Sample ID: BTTM - 9 3' (H000556-09)

BTEX 8021B	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358	
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559	
Total BTEX	<0.300	0.300	02/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	19						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	02/24/2020	ND	432	108	400	0.00	QM-07
TPH 8015M	mg	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					
Surrogate: 1-Chlorooctane	78.6	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	82.7	% 42.2-15	6						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



#### Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: Reported: 02/21/2020

02/24/2020

Project Name: Project Number: OSPREY 20 ST. #3 NONE GIVEN

Project Location:

COG - LEA CO NM

Sampling Date:

02/21/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

#### Sample ID: BTTM - 10 3' (H000556-10)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358	
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559	
Total BTEX	<0.300	0.300	02/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	02/24/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					
Surrogate: 1-Chlorooctane	84.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.9	% 42.2-15	6						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



#### Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

DTEV 0021D

02/21/2020

Reported: Project Name: 02/24/2020

Project Number:

OSPREY 20 ST. #3 NONE GIVEN

Project Location:

COG - LEA CO NM

ma/ka

Sampling Date:

02/21/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

BIEX 8021B	mg	/кд	Anaiyze	а ву: СК					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358	
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559	
Total BTEX	<0.300	0.300	02/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/24/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					
Surrogate: 1-Chlorooctane	85.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.8	% 42.2-15	6						

Analyzed By: CK

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



#### Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

02/21/2020

Reported: Project Name: 02/24/2020

Project Number: Project Location: OSPREY 20 ST. #3 NONE GIVEN

COG - LEA CO NM

Sampling Date:

02/21/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SW - 2 (H000556-12)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358	
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559	
Total BTEX	<0.300	0.300	02/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/24/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					
Surrogate: 1-Chlorooctane	82.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.1	% 42.2-15	6						

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



#### Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

02/21/2020

Reported:

02/24/2020 OSPREY 20 ST. #3

Project Name: Project Number:

NONE GIVEN

Project Location:

COG - LEA CO NM

Sampling Date:

02/21/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

#### Sample ID: SW - 4 (H000556-13)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358	
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559	
Total BTEX	<0.300	0.300	02/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/24/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					
Surrogate: 1-Chlorooctane	84.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.4	% 42.2-15	6						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



#### Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

02/21/2020

Reported:

02/24/2020

Project Name: Project Number: Project Location: OSPREY 20 ST. #3 NONE GIVEN COG - LEA CO NM

Sampling Date:

02/21/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SW - 5 (H000556-14)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358	
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559	
Total BTEX	<0.300	0.300	02/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/24/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					
Surrogate: 1-Chlorooctane	84.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.4	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene



#### **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

Hold

Page 앜 ORIGINAL COPY

Page 18 of 18

Relimquished by: Project Name: Analysis Request of Chain of Custody Record Relinquished by: H000SS Comments: Receiving Laboratory: Invoice to: Project Location Client Name: Relinquished by: LAB USE LAB# anna CONCH てー 1 1 Pro V ea, NA Sheldon Hitchcock COG-Artesia C SAMPLE IDENTIFICATION Date: Date: Date: Time: Time: Time: Sampler Name: Received by: Received by: Received by: YEAR: Project #: Site Manager: DATE N SAMPLING 51:6 0.00 30:0 8:0 P 8 TIME WATER Sheldon Hitchcock MATRIX One Concho Center/600/Illinois Avenue/Midland, Texas Tel (432) 683-7443 SOIL Sheldon Hitchcock Date: HCL PRESERVATIVE METHOD HNO<sub>3</sub> ICE Time: 021 of 16-6 # CONTAINERS (C)omposite/(G)ral Sample Temperature TPH 8015M (GRO - DRO - MRO) (Circle) HAND DELIVERED LAB USE ONLY BTEX 8021B #113 P. 0.60 Chloride Circle or Specify Method No. ANALYSIS REQUEST REMARKS: FEDEX UPS RUSH: Same Day (24 hr )48 hr 72 hr Special Report Limits or TRRP Report Rush Charges Authorized Page 으 1 Hold



February 25, 2020

SHELDON HITCHCOCK

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: OSPREY 20 ST. #3

Enclosed are the results of analyses for samples received by the laboratory on 02/24/20 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

DTEV 0021D

02/24/2020

Reported:

02/25/2020

Project Name: Project Number: OSPREY 20 ST. #3 NONE GIVEN

Project Location:

COG - LEA CO NM

ma/ka

Sampling Date: 02/24/2020

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Soil

Sample ID: SW - 3 (H000566-01)

BTEX 8021B	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2020	ND	1.59	79.5	2.00	24.0	
Toluene*	<0.050	0.050	02/24/2020	ND	1.58	79.0	2.00	24.4	
Ethylbenzene*	<0.050	0.050	02/24/2020	ND	1.58	79.0	2.00	23.9	
Total Xylenes*	<0.150	0.150	02/24/2020	ND	4.60	76.6	6.00	24.3	
Total BTEX	<0.300 0.300		02/24/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/24/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2020	ND	193	96.6	200	1.52	
DRO >C10-C28*	<10.0	10.0	02/25/2020	ND	185	92.4	200	1.34	
EXT DRO >C28-C36	<10.0 10.0		02/25/2020	ND					
Surrogate: 1-Chlorooctane	84.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.5	% 42.2-15	6						

Applyand By CV

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

Hold



March 03, 2020

SHELDON HITCHCOCK

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: OSPREY 20 ST. #3

Enclosed are the results of analyses for samples received by the laboratory on 03/02/20 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: Reported:

03/02/2020

03/03/2020

Project Name: Project Number: OSPREY 20 ST. #3 NONE GIVEN

Project Location:

COG - LEA CO NM

Sampling Date:

03/02/2020

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Tamara Oldaker

## Sample ID: B - 3 (H000667-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/03/2020	ND	432	108	400	0.00	
Sample ID: B - 4 (H000667-0	02)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/03/2020	ND	432	108	400	0.00	
Sample ID: B - 5 (H000667-0	03)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/03/2020	ND	432	108	400	0.00	
Sample ID: B - 6 (H000667-0	04)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte					D.C.	O/ Dagguery	True Value QC	DDD	Ouglifier
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True value QC	RPD	Qualifier

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



## Analytical Results For:

COG OPERATING SHELDON HITCHCOCK P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: Reported: 03/02/2020

03/03/2020

Project Name: Project Number: OSPREY 20 ST. #3 NONE GIVEN

Project Location:

Analyte

Analyte

COG - LEA CO NM

Result

96.0

Result

96.0

Sampling Date:

03/02/2020

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B - 7 (H000667-05)

Chloride, SM4500Cl-B

Chloride

Chloride

Chloride

mg/kg

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: AC

Analyzed

03/03/2020

Analyzed

03/03/2020

Method Blank

ND

BS

432

BS

432

% Recovery 108

% Recovery

108

108

108

True Value QC 400

True Value QC

400

400

RPD Qualifier

0.00

RPD

0.00

Sample ID: B - 8 (H000667-06)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

ND

ND

Qualifier

Sample ID: B - 9 (H000667-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit Analyzed 03/03/2020 32.0 16.0

Method Blank

BS 432 % Recovery

True Value QC RPD

Qualifier

0.00

Sample ID: B - 10 (H000667-08)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Reporting Limit Analyte Result Chloride 32.0 16.0

Analyzed 03/03/2020 Method Blank ND

BS % Recovery 432

True Value QC

400 0.00

RPD Qualifier

Cardinal Laboratories

\*=Accredited Analyte

Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and In no event shall Cardinal be liable for incidental or consequential damages, any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Kreene



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

a by Ç	OCD: 4/Relinquished by:	Refinquished by:	Shah Tri-	Relinquished by:		200	2	58-7	9-64	3 3-5	23-4	113-3	LABUSE )	H000147		Receiving Laboratory:		cation: (county,	Project Name: DSPrey		CONCHO
	Date: Time:	Date: Time:		Date: Time:									SAMPLE IDENTIFICATION			lival	Sheldon Hitchcock	ec, WM	w 20 st, #3	COG-Artesia	H 0
ORIGINAL COPY	Received by:	Received by:	Musar	Received by:	(0,3)	10:30	10:25	1 101,20	1) 10:15	10:0	50,01	3/2 10:00	DATE TIME	SAMPLING	s	Sampler Name:		Project #:		Site Manager:	
	Date: Time:	Date:/ Time:	K)	Date: Time:			. U7	5			0	× ×	WATER SOIL HCL HNO <sub>3</sub> ICE	MATRIX PRESERVATIVE METHOD		Sheldon Hitchcock				Sheldon Hitchcock	One Concho Center/600/Illinois Avenue/Midiand, Texas Tei (432) 683-7443
(Circle) HAND DELIVERED	0.	Sample Temperature	3.2.20 LAB USE ONLY	1410	-								# CONTAIN (C)omposite TPH 8015l BTEX 8021l Chloride	e/(G)rab		- MRO)					
DELIVERED FEDEX UPS Tracking #:	0, 1c Special Report Limits or TRRP Report	Rush Charges Autho		REMARKS:																ANALYSIS REQUEST  Circle or Specify Method No.	
	TRRP Report	rized																		5.)	

Hold

Page 5 of 5

# APPENDIX D





