For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

<u>Pit, Below-Grade Tank, or</u> Proposed Alternative Method Permit or Closure Plan Application

Type of action: Below grade tank registration

Permit of a pit or proposed alternative method

Closure of a pit, below-grade tank, or proposed alternative method

] Modification to an existing permit/or registration

Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,

or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: _Kinder Morgan CO2 Company, L.P OGRID #:34945
Address:17801 U.S. Highway 491, Cortez, Colorado 81321
Facility or well name:CC14
API Number:30-003-20041 OCD Permit Number:
U/L or Qtr/QtrD_ Section27Township1NRange21WCounty:Catron
Center of Proposed Design: Latitude34.28718 Longitude109.03201 NAD: 1927 🛛 1983
Surface Owner: 🗌 Federal 🔀 State 🗌 Private 🗌 Tribal Trust or Indian Allotment
2.
☑ <u>Pit</u> : Subsection F, G or J of 19.15.17.11 NMAC
Temporary: 🛛 Drilling 🗌 Workover
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no
Lined Unlined Liner type: Thickness 30mil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: 🗌 Welded 🖾 Factory 🗋 Other Volume:2,140bbl Dimensions: L_100'_ x W_15'_ x D_12'
3.
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: bbl Type of fluid:
Volume:bbl Type of fluid:
Volume: bbl Type of fluid: Tank Construction material: Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Volume: bbl Type of fluid: Tank Construction material: Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other
Volume: bbl Type of fluid: Tank Construction material: Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Volume: bbl Type of fluid: Tank Construction material: Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner type: Thickness mil HDPE PVC Other 4.
Volume:bbl Type of fluid: Tank Construction material: Secondary containment with leak detection \Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner \Visible sidewalls only \Other Liner type: Thicknessmil \HDPE \PVC \Other
Volume: bbl Type of fluid: Tank Construction material: Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner type: Thickness mil HDPE PVC Other 4.
Volume:bbl Type of fluid: Tank Construction material:
Volume:
Volume:
Volume:

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other_

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

- Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
- Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

General siting								
<u>Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.</u> - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes ⊠ No □ NA							
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells								
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 								
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🖾 No							
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🛛 No							
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	🗌 Yes 🛛 No							
Below Grade Tanks								
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No							
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No							
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)								
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No							
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	🗌 Yes 🗌 No							
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 								
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No							

 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No							
Temporary Pit Non-low chloride drilling fluid								
 Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No							
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 								
 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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 								
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No							
Permanent Pit or Multi-Well Fluid Management Pit								
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No							
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 								
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site								
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 								
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:	cuments are 9 NMAC 15.17.9 NMAC							
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC								
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dot attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.10 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	.15.17.9 NMAC							

^{12.} <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the</i>	documents are
 attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment 	
 Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan 	
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H₂S, Prevention Plan Emergency Response Plan 	
 Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 	
13.	
<u>Proposed Closure</u> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal	luid Management Pit
 Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) 	
In-place Burial On-site Trench Burial Alternative Closure Method	
 14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	
 Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	
15. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes ⊠ No □ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🛛 No
 Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🛛 No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🛛 No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🛛 No
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🛛 No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🔀 No
Within a 100-year floodplain.	
- FEMA map	🗌 Yes 🛛 No
16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure planed by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.1 Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards canned Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	1 NMAC 5.17.11 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
17. Operator Application Certification: 1 hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belied Name (Print):	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature: 406/20/2	2016
Title: Petrolaem Engineer OCD Permit Number:	
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	
Closure Completion Date:May 11, 2016	
20. Closure Method: Waste Excavation and Removal Ø On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loo If different from approved plan, please explain.	op systems only)

***** OCD acknowledges the acceptance of document, C-144, at this time.** Form C-144 Oil Conservation Division

22.									
Operator Closure Certification:									
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.									
Name (Print): Michael Hannigan, P.E	Title: Senior EHS Specialist								
Signature: Milel Haiz	Date:June 13, 2016								
e-mail address: michael_hannigan@kindermorgan.com	Telephone:(970) 882-5532								

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Submit To Approp Two Copies <u>District I</u> 1625 N. French Dr				State of New Mexico Energy, Minerals and Natural Resources						Form C-10 Revised August 1, 201 1. WELL API NO.							
District II 811 S. First St., Ar District III 1000 Rio Brazos R District IV	d., Aztec,	NM 874		Oil Conservation Division 1220 South St. Francis Dr.					30-003-20041 2. Type of Lease ☑ STATE ☐ FEE ☐ FED/INDIAN					JAN			
1220 S. St. Francis				DEO		Santa Fe, M						3. State Oil & Gas Lease No. LH4757					
4. Reason for fil		'LE II	ION OR	RECO	OMPL	ETION RE	PO	RT A	ND	LOG		5 Lance Nem	a an I	Init A an			
	U											5. Lease Nam Cottonwood C	Canyor	n Unit	eement	Name	
COMPLET C-144 CLOS #33; attach this a	SURE A	ТТАСН	IMENT (I	ill in box	es #1 th	rough #9, #15 Da	ate Ri	g Releas	sed a	und #32 and	l/or	6. Well Numb	ber: C	CC14			
7. Type of Comp	oletion:																
8. Name of Opera	WELL [RKOVER	_ DEEP	ENING	PLUGBACI	ΚL	DIFFE	REN	T RESERV	/OIF	9. OGRID	<u>C-14</u>	4 Closu	e Attach	iment	
Kinder Morgan C	CO2 Com	pany L.	.Р.									34945					
10. Address of O 17801 U.S. High Cortez, CO 8132	way 491 21											11. Pool name	or W	ildcat			
12.Location	Unit Ltr	· S	ection	Town	ship	Range	Lot			Feet from t	the	N/S Line	Feet	from th	e E/W	Line	County
BH:				_													
13. Date Spudded			. Reached		D (D'							(D) 1					
18. Total Measure				3/2/	2013	g Released ek Measured Der	oth					(Ready to Prod			RT, GR,	etc.)	and RKB,
22. Producing Int					-									21. 1	pe Liee		
					<u> </u>												
23. CASING SIZ	76	W/	EIGHT LB	/ГТ		ING REC	OR				ring		/	0000			
CASING SIZ	<u></u>			/Г1.		DEPTH SET			HOL	LE SIZE		CEMENTIN	G RE	CORD	A	MOUNT	PULLED
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24.					LINI	ER RECORD					25.	<u> </u> т		IG REO	TOPD		
SIZE	TOP		BC	TTOM	DIT	SACKS CEMI	ENT	SCRE	EEN		SIZ			EPTH SE		PACKI	ER SET
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26. Perforation	record (ii	nterval	size and n	umber)				27 4	CIT		ED /	CTUDE OF		T COL	IPDZD	ETO	
		inter i ui,	Size, and in	intoer)						VTERVAL	ГК/	ACTURE, CE					
28								DDU	CT	ION							
28. Date First Product	tion		Produc	tion Met	od (Flo	wing, gas lift, pu						Well Status	(Prod	or Shu	t_in)		
						0.0 ·0.9	1	5		21 - Fp)		- Status	1		,		
Date of Test	Hours	Tested	CI	oke Size		Prod'n For		Oil - E	Bbl		Gas	- MCF	Wa	iter - Bb		Gas - O	il Ratio
						Test Period											
Flow Tubing	Casin	g Pressu		lculated 2	24-	Oil - Bbl.		G	as - N	MCF	V	Vater - Bbl.		Oil Gr	avity - A	PI - (Cori	.)
Press.			He	ur Rate											÷.		
29. Disposition of	Gas (Sol	d, used	for fuel, vei	nted, etc.)									30. T	est Witn	essed By	Ý	
31. List Attachme	nts																
32. If a temporary	pit was ı	used at t	he well, att	ich a plat	with the	e location of the t	empo	orary nit		College Variation	411	DEL.	. /				
33. If an on-site bu	urial was	used at	the well, re	port the e	xact loca	ation of the on-si	te bu	rial:				ed Figure		127	34		
I hereby certify	v that th	he info	ormation s	hown c	n both	sides of this	form	is tru	e an	nd comple	ete t	Longitude to the best of	mv	knowle	dge an	NAI nd helief	0 1927 (1983)
Signature MC	hand	the	5			Printed Name MICHA										Date	0/13/2016
E-mail Addres	s MIC	HAE	L_ HAN	NIGA	10 K	INDERMOR	26A	N.CO	om								

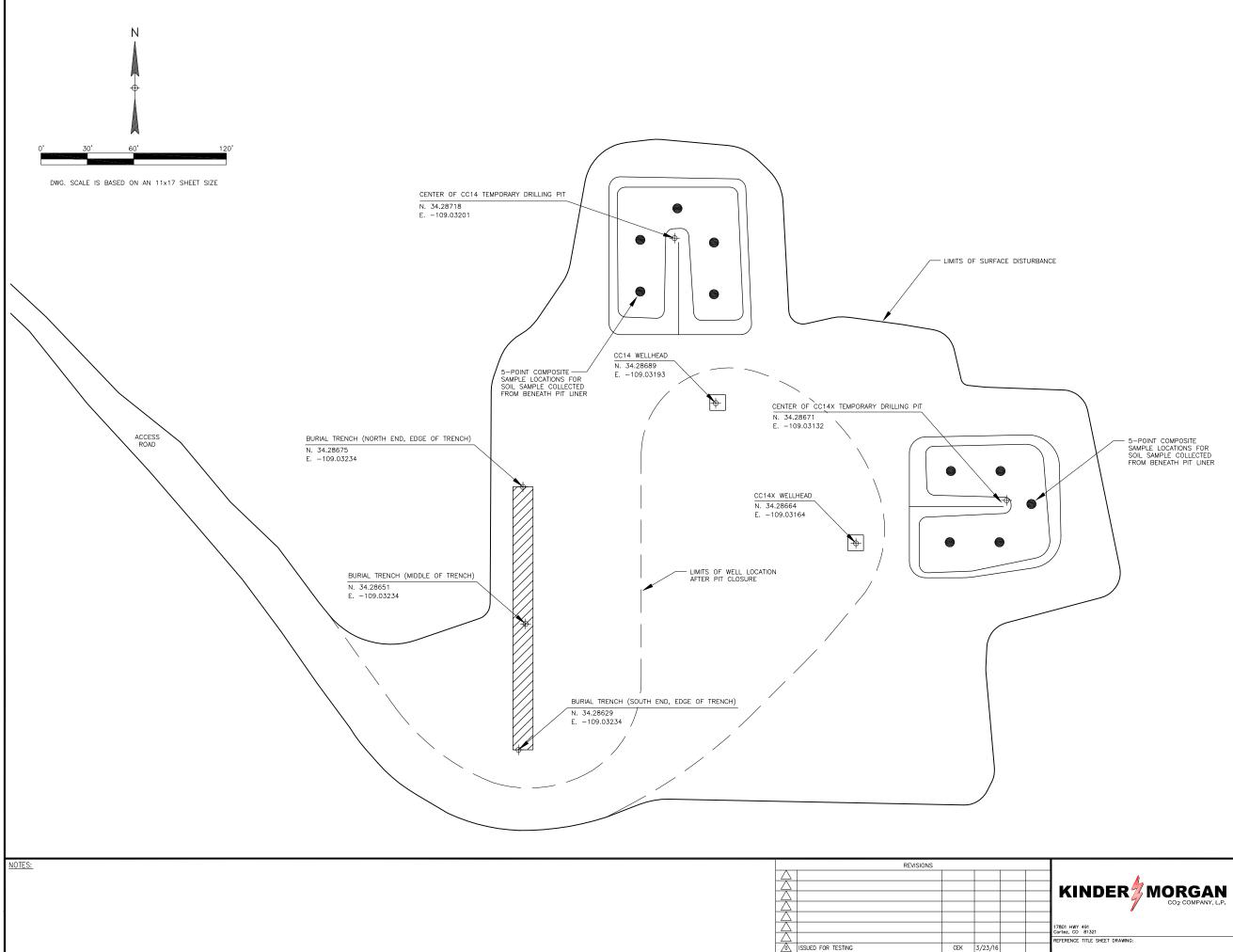


FIGURE 1 - SITE PLAN CC14 & CC14X WELL LOCATION

TEMPORARY DRILLING PIT CLOSURE PLAN

CATRON COUNTY, NEW MEXICO 8Y: 6/7/16 REVIEWED BY: DRAWN BY: GEG SCALE: 1"=60' RAWING NUMBER CHECKED BY: MH APPROVED BY WP-CC14,CC14X-SOIL 6/9/16

TEMPORARY DRILLING PITS CLOSURE SUMMARY COTTONWOOD CANYON WELLS CC14 AND CC14X LOCATION CATRON COUNTY, NEW MEXICO

Temporary Drilling Pit Closure Plans

The temporary drilling pits at the CC14/CC14X location were closed in accordance with the closure plans (Forms C-144 with attachments) submitted to the State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (NMOCD). The closure plans were approved by the OCD District IV office in Santa Fe on April 15, 2016.

Closure Notifications

The surface owner (New Mexico State Trust Lands) was notified of the commencement of temporary drilling pit closure activities by letter, dated April 27, 2016, via certified mail (return receipt requested) which was received on April 29, 2016. The NMOCD District IV office was notified of closure activities on April 27, 2016 via email to Leonard Lowe. Temporary drilling pit closure activities commenced at the CC14/CC14X location on the morning of May 2, 2016. The notifications were provided in accordance with 19.15.17.13 E.(1) and (2) NMAC, respectively. Documentation of the closure notifications is attached to this closure summary.

On-Site Lined Burial Trench

The on-site burial trench was constructed on the west side of the well location as shown in Figure 1 - Site Plan, which is attached to Form C-105. The proposed dimensions of the burial trench given in the closure plans were 100 feet long by 15 feet wide by 12 feet deep. Due to an invalid assumption regarding the depth of drilling waste in both pits, which resulted in a 60 percent increase in the volume of waste to be placed in the on-site burial trench, the length of the trench was increased by approximately 60 feet after receiving verbal approval from NMOCD District IV. The final dimensions of the on-site burial trench are 160 feet long by 15 feet wide by 12 feet deep.

The on-site burial trench was excavated to the dimensions given above and then lined with a string-reinforced, 30-mil LLDPE geomembrane. The drilling waste, which did not require dewatering or drying, was transferred from the drilling pits to the on-site burial trench using an excavator and a front-end loader. After all the drilling waste was removed from the pits, the pit liners were removed and placed in the on-site burial trench. After all of the drilling waste and pit liners were placed in the burial trench, the outer edges of the trench liner were folded over the materials placed in the trench and a string-reinforced, 30-mil LLDPE geomembrane was

installed over the trench in a manner that will prevent the collection of infiltration water in the trench.

Photographs taken during construction of the lined burial trench, placement of the drilling waste and installation of the geomembrane cover are attached to this closure summary.

Waste Material and Confirmation Sampling

A summary table of drilling waste laboratory analytical results was submitted with the temporary drilling pit closure plans and is also shown in the table below. The laboratory analytical results report for the drilling waste samples is attached to this closure summary document.

Sample ID	CC14XS	CC14XN	CC14E	CC14W	Table II 19.15.17.13
Sample Collection Date	2/11/2016	2/11/2016	2/11/2016	2/11/2016	NMAC Closure Criteria ⁶
Chloride (mg/kg) ¹	6,450	2,400	7,940	10,100	80,000
TPH ² (mg/kg)	911	1,530	1,040	528	2,500
GRO ³ + DRO ⁴ (mg/kg)	61.1	<20.0	<20.0	<20.0	1,000
BTEX ⁵ (mg/kg)	1.60	0.975	0.889	0.349	50
Benzene (mg/kg)	<0.050	<0.050	<0.050	<0.050	10

SUMMARY OF DRILLING WASTE ANALYTICAL RESULTS

Notes:

1. Milligrams per kilogram

2. Total Petroleum Hydrocarbons

3. Gasoline Range Organics

4. Diesel Range Organics

5. Benzene, Toluene, Ethylbenzene & Xylenes (total)

6. Burial Trenches and Waste Left in Place in Temporary Pits (Depth to groundwater >100 feet)

The soil surfaces beneath the liners of the temporary drilling pits were observed after the pit liners were removed however no stained or wet areas were noted. A five-point composite soil sample was collected from beneath each pit liner and sent to Green Analytical Laboratories in Durango, Colorado for analysis of the constituents listed in Table I of 18.15.17.13 NMAC. The five-point composite sample locations are shown in attached Figure 1. A summary table of the composite soil sample laboratory analytical results is shown in the table below. The laboratory analytical results reports for the composite soil samples are attached to this closure summary document.

Sample ID	CC14	CC14X	Table I 19.15.17.13 NMAC
Sample Collection Date	5/4/2016	5/9/2016	Closure Criteria ⁷
Chloride (mg/kg) ²	208	293	20,000
TPH ³ (mg/kg)	<30.0	<30.0	2,500
GRO ⁴ + DRO ⁵ (mg/kg)	<20.0	<20.0	1,000
BTEX ⁶ (mg/kg)	<0.300	0.139	50
Benzene (mg/kg)	<0.050	<0.050	10

SUMMARY OF SOIL SAMPLE¹ ANALYTICAL RESULTS

Notes:

1. Five-point composite samples collected from beneath temporary drilling pit liners per 19.15.17.13 D.(9)(a) NMAC

- 2. Milligrams per kilogram
- 3. Total Petroleum Hydrocarbons
- 4. Gasoline Range Organics
- 5. Diesel Range Organics
- 6. Benzene, Toluene, Ethylbenzene & Xylenes (total)

7. Soil Beneath Pits where Contents are Removed (Depth to groundwater >100 feet)

Based visual observations at the site after removal of the pit liners and the laboratory analytical data summarized above, it is our conclusion that the integrity of the pit liners were not compromised while they were in service.

On-site Burial Trench and Temporary Drilling Pit Locations

Latitude and longitude coordinates were obtained from the center points of the CC14 and CC14X temporary drilling pits and the on-site lined burial trench using a *Garmin GPSmap 62stc* hand-held GPS device. A completed Form C-105 and attached Figure 1 are being submitted with the Form C-144 for each well in accordance with 19.15.17.13 F.(1) NMAC. The latitude and longitude coordinates for the lined burial trench are reported on each Form C-105 and shown in Figure 1. The latitude and longitude coordinates for the temporary drilling pits are reported on each Form C-144 and shown in Figure 1.

Soil Backfilling, Cover Installation and Reclamation

After all of the drilling waste and pit liners were placed in the burial trench, the outer edges of the trench liner were folded over the materials placed in the trench and a string-reinforced, 30-mil LLDPE geomembrane was installed over the trench in a manner that will prevent the collection of infiltration water in the trench. The on-site burial trench was then covered with non-waste containing, uncontaminated, earthen materials to a minimum depth of four feet.

The soil cover is made up of material excavated to construct the burial trench combined with the soil that was used to construct temporary drilling pits CC14 and CC14X. Soil used to cover the burial trench meets the chloride concentration standard of 600 mg/kg given in 19.15.17.13 H.(3). The undisturbed native soil excavated to construct the burial trench was obtained from a an area of the well location that was not impacted by any drilling or production activities and the native soil used to construct the drilling pits was tested for chloride concentrations in accordance with EPA Method 300.0 (see *Summary of Soil Sample¹ Analytical Results* table above).

The CC14 and CC14X temporary drilling pit locations were reclaimed to a safe and stable condition that blends with the surrounding undisturbed area and the soil cover placed over the on-site burial trench was reclaimed to the site's original contours in a manner that will prevent the ponding of water and erosion. Photographs of the reclaimed condition of the location are attached to this closure summary document.

Temporary Drilling Pit and On-Site Burial Trench Markers

Final site reclamation and revegetation will be accomplished after wells CC14 and CC14X are plugged and abandoned in mid-2017. Steel location markers for the wells, temporary drilling pits and on-site burial trench will be installed after well plugging and abandonment, final reclamation and revegetation activities have been completed. The markers will be placed in the exact locations of the wells, temporary drilling pits and on-site burial trench using the GPS coordinates obtained during closure activities in accordance with 19.15.25.10 B. and 19.15.17.13 F.(3) NMAC, respectively.



April 27, 2016

Mr. Patrick L. Padilla Assistant Commissioner for Mineral Resources New Mexico State Trust Lands P.O. Box 1148 Santa Fe, New Mexico 87504

RE: Closure of Temporary Drilling Pits Wells CC14 (API #30-003-20041) & CC14X (API #30-003-20042) Section 27, T1N, R21W, Cottonwood Canyon Unit, Catron County, New Mexico

Dear Mr. Padilla,

The purpose of this letter is to provide the New Mexico State Trust Lands, as surface owner of the well location referenced above, that two (2) temporary drilling pits associated with the location will be closed in accordance with 19.15.17.13 E.(1) NMAC.

The approved pit closure plans can be found on the New Mexico Minerals and Natural Resources Department, Oil Conservation Division website. Please feel free to contact me at (928) 333-0100 if you have any questions regarding this matter.

Sincerely, Kinder Morgan CO₂ Company, L.P.

Thomas White Operations Supervisor

SENDER COMPLETE THE SECOND	
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature X
1. Article Addressed to: Mr Patrick L. Pad. Ila Assistant Commissioner New Mexico State Trustlands P.O. Box (148	D. Is delivery address different from item ?? If YES, enter delivery address below: APR 2 9 2016
SANta Fe, New Mexico 87.504	3. Service Type
	4. Restricted Delivery? (Extra Fee)
(Iranster trom service label) 73	0 0000 2333 4986
PS Form 3811, February 2004 Domestic Ret	urn Receipt 102595-02-M-1540

White, Thomas

From:Lowe, Leonard, EMNRD <Leonard.Lowe@state.nm.us>Sent:Wednesday, April 27, 2016 12:34 PMTo:White, ThomasSubject:RE: Notification

Mr. White,

Notification received.

This notification is for the closure of the 2 pits and building/closure of the recently approved deep trench burial of the cuttings, correct?

Leonard Lowe

Engineering Bureau Oil Conservation Division Energy Minerals and Natural Resources Department 1220 South St. Frances Santa Fe, New Mexico 87004 Office: 505-476-3492 Fax: 505-476-3462 E-mail: leonard.lowe@state.nm.us Website: http://www.emnrd.state.nm.us/ocd/

From: White, Thomas [mailto:Thomas White@kindermorgan.com] Sent: Wednesday, April 27, 2016 11:22 AM To: Lowe, Leonard, EMNRD <<u>Leonard.Lowe@state.nm.us</u>> Subject: Notification Importance: High

Leonard,

This is notification that Kinder Morgan will be starting their pit burial project on Monday, May 2 2016 if there are any questions please feel free to call.

Thanks



75 Suttle Street Durango, CO 81303 970.247.4220 Phone 970.247.4227 Fax www.greenanalytical.com

24 May 2016

Michael Hannigan Kinder Morgan 17801 Hwy 491 Cortez, CO 81321 RE: BTEX/TPH, CI

Enclosed are the results of analyses for samples received by the laboratory on 05/06/16 14:10. If you need any further assistance, please feel free to contact me.

Sincerely,

M/ M.W

Jacob Miller For Debbie Zufelt Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at http://greenanalytical.com/certifications/

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8.



www.GreenAnalytical.com

Kinder Morgan	Project: BTEX/TPH, Cl	
17801 Hwy 491	Project Name / Number: Cottonwood Canyon Pits	Reported:
Cortez CO, 81321	Project Manager: Michael Hannigan	05/24/16 09:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CC14	1605081-01	Solid	05/04/16 15:05	05/06/16 14:10

Green Analytical Laboratories

Jacob Miller For Debbie Zufelt, Reports Manager



							www.Gre	eenAnalytical.	.com
Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Proj	ect Name / N		EX/TPH, Cl tonwood Cany hael Hannigan				Reported 05/24/16 09	
			CC14						
		16	05081-01 (\$	Solid)					
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analys
General Chemistry									
6 Dry Solids	88.0			%	1	05/13/16	ASA#9 & SSSA#5	H2	JDA
oluble (DI Water Extraction)									
hloride	208	56.8	2.95	mg/kg dry	50	05/13/16	EPA300.0		JDA
olatile Organic Compounds by EPA N									
enzene*	< 0.050	0.050	0.005	mg/kg	50	05/12/16	8021B		MS
enzene* bluene*	<0.050 <0.050	0.050	0.006	mg/kg	50	05/12/16	8021B		MS
enzene* oluene* thylbenzene*	<0.050 <0.050 <0.050	0.050 0.050	0.006 0.017	mg/kg mg/kg	50 50	05/12/16 05/12/16	8021B 8021B		MS MS
enzene* oluene* thylbenzene* otal Xylenes*	<0.050 <0.050 <0.050 <0.150	0.050 0.050 0.150	0.006 0.017 0.043	mg/kg mg/kg mg/kg	50 50 50	05/12/16 05/12/16 05/12/16	8021B 8021B 8021B		MS MS MS
enzene* oluene* thylbenzene* otal Xylenes* otal BTEX	<0.050 <0.050 <0.050	0.050 0.050	0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg mg/kg	50 50	05/12/16 05/12/16 05/12/16 05/12/16	8021B 8021B 8021B 8021B		MS MS MS
enzene* oluene* thylbenzene* otal Xylenes* otal BTEX	<0.050 <0.050 <0.050 <0.150	0.050 0.050 0.150	0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg	50 50 50	05/12/16 05/12/16 05/12/16	8021B 8021B 8021B		MS MS MS
enzene* oluene* thylbenzene* otal Xylenes* otal BTEX urrogate: 4-Bromofluorobenzene (PID)	<0.050 <0.050 <0.050 <0.150	0.050 0.050 0.150	0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg mg/kg	50 50 50	05/12/16 05/12/16 05/12/16 05/12/16	8021B 8021B 8021B 8021B		MS MS MS
enzene* oluene* thylbenzene* otal Xylenes* otal BTEX urrogate: 4-Bromofluorobenzene (PID) etroleum Hydrocarbons by GC FID	<0.050 <0.050 <0.050 <0.150	0.050 0.050 0.150	0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg mg/kg	50 50 50	05/12/16 05/12/16 05/12/16 05/12/16	8021B 8021B 8021B 8021B		MS MS MS
enzene* oluene* thylbenzene* otal Xylenes* otal BTEX urrogate: 4-Bromofluorobenzene (PID) etroleum Hydrocarbons by GC FID RO C6-C10	<0.050 <0.050 <0.050 <0.150 <0.300	0.050 0.050 0.150 0.300	0.006 0.017 0.043 0.070 97.9 %	mg/kg mg/kg mg/kg mg/kg 73.6-140	50 50 50 50	05/12/16 05/12/16 05/12/16 05/12/16 05/12/16	8021B 8021B 8021B 8021B 8021B		MS MS MS MS
Olatile Organic Compounds by EPA N enzene* oluene* thylbenzene* otal Xylenes* otal BTEX urrogate: 4-Bromofluorobenzene (PID) etroleum Hydrocarbons by GC FID 'RO C6-C10 RO >C10-C28 XT DRO >C28-C35	<0.050 <0.050 <0.050 <0.150 <0.300 <10.0	0.050 0.050 0.150 0.300	0.006 0.017 0.043 0.070 97.9 % 2.59	mg/kg mg/kg mg/kg 73.6-140 mg/kg	50 50 50 50	05/12/16 05/12/16 05/12/16 05/12/16 05/12/16	8021B 8021B 8021B 8021B 8021B 8021B		MS MS MS MS MS
enzene* oluene* thylbenzene* otal Xylenes* otal BTEX urrogate: 4-Bromofluorobenzene (PID) etroleum Hydrocarbons by GC FID RO C6-C10 RO >C10-C28	<0.050 <0.050 <0.150 <0.300 <10.0 <10.0	0.050 0.050 0.150 0.300 10.0	0.006 0.017 0.043 0.070 97.9 % 2.59 5.51	mg/kg mg/kg mg/kg mg/kg 73.6-140 mg/kg mg/kg	50 50 50 50 1 1	05/12/16 05/12/16 05/12/16 05/12/16 05/12/16 05/12/16	8021B 8021B 8021B 8021B 8021B 8021B 8015B 8015B		MS MS MS MS MS

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Jacob Miller For Debbie Zufelt, Reports Manager



Laboratories		www.GreenAnalytical.com
Kinder Morgan	Project: BTEX/TPH, Cl	
17801 Hwy 491	Project Name / Number: Cottonwood Canyon Pits	Reported:
Cortez CO, 81321	Project Manager: Michael Hannigan	05/24/16 09:57

General Chemistry - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B605128 - General Prep - Wet Chem										
Duplicate (B605128-DUP1)	Sou	rce: 1605081-	01 Prepa	ared & Ana	lyzed: 05/13	3/16				
% Dry Solids	88.5		%		88.0			0.567	20	
Duplicate (B605128-DUP2)	Sou	rce: 1605137-	05 Prepa	ared & Ana	lyzed: 05/12	3/16				
% Dry Solids	94.6		%		94.5			0.106	20	
	Soluble	(DI Water	Extractio	on) - Qua	lity Cont	rol				
		Reporting		Spike	Source		%REC		RPD	
Analyte	Soluble Result	×	Extractio Units		-	rol %REC	%REC Limits	RPD	RPD Limit	Notes
2		Reporting		Spike	Source			RPD		Notes
Batch B605131 - General Prep - Wet Chem		Reporting	Units	Spike Level	Source	%REC		RPD		Notes
Batch B605131 - General Prep - Wet Chem		Reporting Limit	Units	Spike Level	Source Result	%REC		RPD		Notes
Batch B605131 - General Prep - Wet Chem LCS (B605131-BS1)	Result	Reporting Limit	Units Prepa mg/kg wet	Spike Level ared & Ana 200	Source Result	%REC 3/16 113	Limits	RPD		Notes

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Jacob Miller For Debbie Zufelt, Reports Manager



Laboratories		www.GreenAnalytical.com
Kinder Morgan	Project: BTEX/TPH, Cl	
17801 Hwy 491	Project Name / Number: Cottonwood Canyon Pits	Reported:
Cortez CO, 81321	Project Manager: Michael Hannigan	05/24/16 09:57

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6051202 - Volatiles	Kesun	Linit	Onits	Levei	Result	/orcec	Linits	KI D	Linit	Notes
Blank (6051202-BLK1)			Prep	ared & Anal	yzed: 05/12	2/16				
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.1	73.6-140			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
LCS (6051202-BS1)			Prep	ared & Anal	yzed: 05/12	2/16				
Surrogate: 4-Bromofluorobenzene (PID)	0.0482		mg/kg	0.0500		96.4	73.6-140			
Benzene	1.99	0.050	mg/kg	2.00		99.5	82.6-122			
Ethylbenzene	1.79	0.050	mg/kg	2.00		89.6	65.4-131			
Toluene	1.96	0.050	mg/kg	2.00		97.8	72.9-122			
Total Xylenes	5.58	0.150	mg/kg	6.00		92.9	73.8-125			
LCS Dup (6051202-BSD1)			Prep	ared & Anal	yzed: 05/12	2/16				
Surrogate: 4-Bromofluorobenzene (PID)	0.0485		mg/kg	0.0500		96.9	73.6-140			
Benzene	2.01	0.050	mg/kg	2.00		100	82.6-122	0.948	8.23	
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.6	65.4-131	2.28	9.46	
Toluene	1.99	0.050	mg/kg	2.00		99.4	72.9-122	1.65	8.71	
Total Xylenes	5.70	0.150	mg/kg	6.00		95.0	73.8-125	2.20	8.66	

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Jacob Miller For Debbie Zufelt, Reports Manager



Laboratories		www.GreenAnalytical.com
Kinder Morgan	Project: BTEX/TPH, Cl	
17801 Hwy 491	Project Name / Number: Cottonwood Canyon Pits	Reported:
Cortez CO, 81321	Project Manager: Michael Hannigan	05/24/16 09:57

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6051201 - General Prep - Organics										
Blank (6051201-BLK1)			Prep	ared & Anal	yzed: 05/12	2/16				
Surrogate: 1-Chlorooctadecane	49.9		mg/kg	50.0		99.8	28-171			
Surrogate: 1-Chlorooctane	40.4		mg/kg	50.0		80.9	35-147			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
LCS (6051201-BS1)			Prep	ared & Anal	yzed: 05/12	2/16				
Surrogate: 1-Chlorooctadecane	50.9		mg/kg	50.0		102	28-171			
Surrogate: 1-Chlorooctane	45.8		mg/kg	50.0		91.6	35-147			
DRO >C10-C28	187	10.0	mg/kg	200		93.6	78.3-122			
GRO C6-C10	187	10.0	mg/kg	200		93.6	76.7-115			
Total TPH C6-C28	374	10.0	mg/kg	400		93.6	79.8-117			
LCS Dup (6051201-BSD1)			Prep	ared & Anal	yzed: 05/12	2/16				
Surrogate: 1-Chlorooctadecane	57.1		mg/kg	50.0		114	28-171			
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		96.0	35-147			
DRO >C10-C28	205	10.0	mg/kg	200		102	78.3-122	9.01	13.2	
GRO C6-C10	193	10.0	mg/kg	200		96.4	76.7-115	2.95	9.42	
Total TPH C6-C28	398	10.0	mg/kg	400		99.4	79.8-117	6.03	10.7	

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Jacob Miller For Debbie Zufelt, Reports Manager



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Kinder Morgan	Project: BTEX/TPH, Cl	
17801 Hwy 491	Project Name / Number: Cottonwood Canyon Pits	Reported:
Cortez CO, 81321	Project Manager: Michael Hannigan	05/24/16 09:57

Notes and Definitions

H2	Sample analysis performed past hold time specified by the method.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
LCS RL	Laboratory Control Sample (Blank Spike) Report Limit

Green Analytical Laboratories

Jacob Miller For Debbie Zufelt, Reports Manager

CHAIN OF CUSTODY RECORD Page NOTES: 1) Ensure proper container packaging. 2) Ship samples promptly following collection. Table 1 Matrix Type 1) Designate Sample Reject Disposition. Project Name: COTTON WCD CAN Yook Pro- Sing collection. Table 1 Matrix Type 1 = Surface Water, 2 = Ground Water 3 = Soll/Sediment, 4 = Rinsate, 5 = Oil Sing colspan="2">Matrix Type The Cotton and yook Pro- Matrix Type The Cotton and yook Pro- Matrix Type The Cotton and yook Pro- Matrix Type The Signature: M. C. Ottor Matrix Type The Cotton and yook Pro- Signature: M. C. Ottor Matrix Type Analyses Required Analyses Required Analyses Required Analyses Required Matrix Type Analyses Required

Page 8 of 9

* Sample Reject: [] Return [] Dispose [] Store (30 Days)

Other regulatory requirements. The re-vegetation and reclamation obligations (d) imposed by other applicable federal or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of any operator subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health and the environment. The operator shall notify the division when reclamation and re-vegetation are (e)

	and this where Conter	its are Removed	ted with
Closed-Loop Systems a Depth below bottom of pit to groundwater less than 10,000 mg/l TDS	Constituent	Method*	Limit**
	Chloride	EPA 300.0	600 mg/kg
≤50 feet	ТРН	EPA SW-846 Method 418.1	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
	Chloride	EPA 300.0	10,000 mg/kg
51 feet-100 feet	ТРН	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
	Chloride	EPA 300.0	20,000 mg/kg
100 feet	ТРН	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

*Or other test methods approved by the division

**Numerical limits or natural background level, whichever is greater

Table II Closure Criteria for Bu Waste Left in Place in T	rial Trenches and Cemporary Pits		
Depth below bottom of pit to groundwater less than 10,000 mg/l TDS	Constituent	Method*	Limit**
	Chloride	EPA Method 300.0	20,000 mg/kg
25-50 feet	ТРН	EPA SW-846 Method 418.1	100 mg/kg
	BTEX	EPA SW-846 Method	50 mg/kg

19.15.17 NMAC

complete.



75 Suttle Street Durango, CO 81303 970.247.4220 Phone 970.247.4227 Fax www.greenanalytical.com

09 March 2016

Michael Hannigan Kinder Morgan 17801 Hwy 491 Cortez, CO 81321 RE: Misc.

Enclosed are the results of analyses for samples received by the laboratory on 02/12/16 11:05. If you need any further assistance, please feel free to contact me.

Sincerely,

Deblie Zufett

Debbie Zufelt Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at http://greenanalytical.com/certifications/

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

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Laboratories		www.GreenAnalytical.com
Kinder Morgan	Project: Misc.	
17801 Hwy 491	Project Name / Number: Cottonwood Canyon	Reported:
Cortez CO, 81321	Project Manager: Michael Hannigan	03/09/16 16:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CC14XS	1602107-01	Solid	02/11/16 14:10	02/12/16 11:05
CC14XN	1602107-02	Solid	02/11/16 14:20	02/12/16 11:05
CC14E	1602107-03	Solid	02/11/16 14:30	02/12/16 11:05
CC14W	1602107-04	Solid	02/11/16 14:40	02/12/16 11:05

Green Analytical Laboratories

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Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, 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 within thirty days after completion of the applicable service.

Page 2 of 12



							www.Gr	eenAnalytical	.com
Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Proj	ect Name / N		c. onwood Cany hael Hannigan				Reported 03/09/16 1	
			CC14XS	5					
		160)2107-01 (8	Solid)					
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
% Dry Solids	81.2			%	1	02/24/16	ASA#9 & SSSA#5	H2	LLG
Soluble (DI Water Extraction)									
Chloride	6540	493	25.6	mg/kg dry	400	02/25/16	EPA300.0		JDA
Drganic Compounds IPH 418.1	911	100	13.5	mg/kg	10	03/09/16	418.1		СК
		100	13.5	mg/kg	10	03/09/16	418.1		СК
ГРН 418.1		100	0.005	mg/kg mg/kg	10	03/09/16	418.1 8021B		CK MS
TPH 418.1 Volatile Organic Compounds by EPA N	Aethod 8021								
TPH 418.1 Volatile Organic Compounds by EPA N 3enzene*	Aethod 8021 <0.050	0.050	0.005	mg/kg	50	02/19/16	8021B		MS
FPH 418.1 <u>Volatile Organic Compounds by EPA N</u> Benzene* Foluene* Ethylbenzene*	Aethod 8021 <0.050 1.60	0.050 0.050	0.005 0.006	mg/kg mg/kg	50 50	02/19/16 02/19/16	8021B 8021B		MS MS
FPH 418.1 <u>Volatile Organic Compounds by EPA N</u> Benzene* Foluene* Ethylbenzene* Fotal Xylenes*	Aethod 8021 <0.050 1.60 <0.050	0.050 0.050 0.050	0.005 0.006 0.017	mg/kg mg/kg mg/kg	50 50 50	02/19/16 02/19/16 02/19/16	8021B 8021B 8021B		MS MS MS
FPH 418.1 Volatile Organic Compounds by EPA N Benzene* Foluene* Ethylbenzene* Fotal Xylenes* Fotal BTEX	Aethod 8021 <0.050 1.60 <0.050 <0.150	0.050 0.050 0.050 0.150	0.005 0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg mg/kg	50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B		MS MS MS
TPH 418.1 Volatile Organic Compounds by EPA M Benzene* Foluene* Ethylbenzene* Fotal Xylenes* Fotal BTEX Surrogate: 4-Bromofluorobenzene (PID)	Aethod 8021 <0.050 1.60 <0.050 <0.150	0.050 0.050 0.050 0.150	0.005 0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg mg/kg mg/kg	50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B		MS MS MS MS
FPH 418.1 Volatile Organic Compounds by EPA N Benzene* Foluene*	Aethod 8021 <0.050 1.60 <0.050 <0.150	0.050 0.050 0.050 0.150	0.005 0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg mg/kg mg/kg	50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B		MS MS MS MS
FPH 418.1 Volatile Organic Compounds by EPA M Benzene* Foluene* Ethylbenzene* Fotal Xylenes* Fotal BTEX Fotal BTEX Fourogate: 4-Bromofluorobenzene (PID) Petroleum Hydrocarbons by GC FID	Aethod 8021 <0.050 1.60 <0.050 <0.150 1.60	0.050 0.050 0.050 0.150 0.300	0.005 0.006 0.017 0.043 0.070 109 %	mg/kg mg/kg mg/kg mg/kg mg/kg 73.6-140	50 50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B 8021B		MS MS MS MS MS
TPH 418.1 Volatile Organic Compounds by EPA M Benzene* Foluene* Ethylbenzene* Fotal Xylenes* Fotal BTEX Fourrogate: 4-Bromofluorobenzene (PID) Petroleum Hydrocarbons by GC FID GRO C6-C10	Aethod 8021 <0.050 1.60 <0.050 <0.150 1.60 <10.0	0.050 0.050 0.150 0.300	0.005 0.006 0.017 0.043 0.070 109 %	mg/kg mg/kg mg/kg mg/kg 73.6-140 mg/kg	50 50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B 8021B 8021B		MS MS MS MS MS
FPH 418.1 Volatile Organic Compounds by EPA M Benzene* Foluene* Ethylbenzene* Fotal Xylenes* Fotal BTEX Surrogate: 4-Bromofluorobenzene (PID) Petroleum Hydrocarbons by GC FID GRO C6-C10 DRO >C10-C28	Aethod 8021 <0.050 1.60 <0.050 <0.150 1.60 <10.0 61.1	0.050 0.050 0.150 0.300 10.0	0.005 0.006 0.017 0.043 0.070 109 % 2.59 5.51 5.51	mg/kg mg/kg mg/kg mg/kg 73.6-140 mg/kg mg/kg	50 50 50 50 50 1 1	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/17/16	8021B 8021B 8021B 8021B 8021B 8021B 8021B 8015B 8015B		MS MS MS MS MS MS

Green Analytical Laboratories

Seldie Zufett

Debbie Zufelt, Reports Manager



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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Proj	ect Name / N		c. tonwood Cany hael Hannigan				Reported 03/09/16 1	
			CC14XI	N					
		16	02107-02 (Solid)					
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analys
General Chemistry									
% Dry Solids	71.7			%	1	02/24/16	ASA#9 & SSSA#5	H2	LLG
Soluble (DI Water Extraction)									
Chloride	2400	112	5.80	mg/kg dry	80	02/25/16	EPA300.0		JDA
Subcontracted Cardinal Labora									
Drganic Compounds	1530	100	13.5	mg/kg	10	03/09/16	418.1		СК
Organic Compounds	1530	100	13.5	mg/kg	10	03/09/16	418.1		СК
Drganic Compounds IPH 418.1	1530	0.050	0.005	mg/kg mg/kg	10	03/09/16 02/19/16	418.1 8021B		CK
<u>Drganic Compounds</u> TPH 418.1 <u>Volatile Organic Compounds by EPA N</u> Benzene*	1530 Jethod 8021								
Drganic Compounds PH 418.1 Zolatile Organic Compounds by EPA N Benzene* Yoluene*	1530 <u>/lethod 8021</u> <0.050	0.050	0.005	mg/kg	50	02/19/16	8021B		MS
Drganic Compounds PH 418.1 /olatile Organic Compounds by EPA N Benzene* 'oluene* Cthylbenzene*	1530 <u>Aethod 8021</u> <0.050 0.975	0.050 0.050	0.005 0.006	mg/kg mg/kg	50 50	02/19/16 02/19/16	8021B 8021B		MS MS
Drganic Compounds IPH 418.1 Volatile Organic Compounds by EPA N Benzene* Foluene* Cothylbenzene* Fotal Xylenes*	1530 <u>Aethod 8021</u> <0.050 0.975 <0.050	0.050 0.050 0.050	0.005 0.006 0.017	mg/kg mg/kg mg/kg	50 50 50	02/19/16 02/19/16 02/19/16	8021B 8021B 8021B		MS MS MS
Drganic Compounds IPH 418.1 Volatile Organic Compounds by EPA N	1530 <u>Aethod 8021</u> <0.050 0.975 <0.050 <0.150	0.050 0.050 0.050 0.150	0.005 0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg mg/kg	50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B		MS MS MS
Drganic Compounds PPH 418.1 Volatile Organic Compounds by EPA M Benzene* Foluene* Cthylbenzene* Fotal Xylenes* Fotal BTEX Fotal BTEX Formation of the state of the st	1530 <u>Aethod 8021</u> <0.050 0.975 <0.050 <0.150	0.050 0.050 0.050 0.150	0.005 0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg mg/kg mg/kg	50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B		MS MS MS MS
<u>Drganic Compounds</u> FPH 418.1 Volatile Organic Compounds by EPA N Benzene* Foluene* Ethylbenzene* Fotal Xylenes* Fotal BTEX	1530 <u>Aethod 8021</u> <0.050 0.975 <0.050 <0.150	0.050 0.050 0.050 0.150	0.005 0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg mg/kg mg/kg	50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B		MS MS MS MS
Drganic Compounds TPH 418.1 Volatile Organic Compounds by EPA N Benzene* Toluene* Toluene* Cotal Xylenes* Total BTEX Total BTEX Turrogate: 4-Bromofluorobenzene (PID) Petroleum Hydrocarbons by GC FID GRO C6-C10	1530 <u>Aethod 8021</u> <0.050 0.975 <0.050 <0.150 0.975	0.050 0.050 0.050 0.150 0.300	0.005 0.006 0.017 0.043 0.070 <i>112 %</i>	mg/kg mg/kg mg/kg mg/kg mg/kg 73.6-140	50 50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B 8021B		MS MS MS MS MS
Drganic Compounds FPH 418.1 Volatile Organic Compounds by EPA N Benzene* Foluene* Ethylbenzene* Fotal Xylenes* Fotal BTEX Fotal BTEX Formogluorobenzene (PID) Petroleum Hydrocarbons by GC FID	1530 <u>Aethod 8021</u> <0.050 0.975 <0.050 <0.150 0.975	0.050 0.050 0.150 0.300	0.005 0.006 0.017 0.043 0.070 <i>112 %</i> 2.59	mg/kg mg/kg mg/kg mg/kg 73.6-140 mg/kg	50 50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B 8021B 8021B		MS MS MS MS MS
Drganic Compounds FPH 418.1 Volatile Organic Compounds by EPA M Benzene* Foluene* Foluene* Ethylbenzene* Fotal Xylenes* Fotal BTEX Foral BTEX Foraleum Hydrocarbons by GC FID GRO C6-C10 DRO >C10-C28	1530 <u>Aethod 8021</u> <0.050 0.975 <0.050 <0.150 0.975 <10.0 <10.0	0.050 0.050 0.150 0.300 10.0	0.005 0.006 0.017 0.043 0.070 <i>112 %</i> 2.59 5.51	mg/kg mg/kg mg/kg mg/kg 73.6-140 mg/kg mg/kg	50 50 50 50 50 1 1	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/17/16	8021B 8021B 8021B 8021B 8021B 8021B 8021B 8015B 8015B		MS MS MS MS MS MS

Green Analytical Laboratories

Seldie Zufett

Debbie Zufelt, Reports Manager



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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Proj	ect Name / N		c. conwood Cany hael Hannigar				Reported 03/09/16 1	
			CC14E						
		160	02107-03 (\$	Solid)					
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
% Dry Solids	74.3			%	1	02/24/16	ASA#9 & SSSA#5	H2	LLG
Soluble (DI Water Extraction)	7940	538	27.9	mg/kg dry	400	02/25/16	EPA300.0		JDA
Subcontracted Cardinal Labora	atories								
	1040	100	13.5	mg/kg	10	03/09/16	418 1		СК
FPH 418.1	1040	100	13.5	mg/kg	10	03/09/16	418.1		СК
PH 418.1 Volatile Organic Compounds by EPA N	1ethod 8021								
PH 418.1 <u>/olatile Organic Compounds by EPA N</u> Benzene*	1ethod 8021 <0.050	0.050	0.005	mg/kg	50	02/19/16	8021B		MS
PH 418.1 <u>Volatile Organic Compounds by EPA N</u> enzene* Voluene*	1ethod 8021 <0.050 0.889	0.050 0.050	0.005 0.006	mg/kg mg/kg	50 50	02/19/16 02/19/16	8021B 8021B		MS MS
PH 418.1 <u>7olatile Organic Compounds by EPA N</u> Genzene* Yoluene* Cthylbenzene*	1ethod 8021 <0.050 0.889 <0.050	0.050 0.050 0.050	0.005 0.006 0.017	mg/kg mg/kg mg/kg	50 50 50	02/19/16 02/19/16 02/19/16	8021B 8021B 8021B		MS MS MS
^T PH 418.1 <u>/olatile Organic Compounds by EPA N</u> Benzene* Toluene* Tthylbenzene* Total Xylenes*	1ethod 8021 <0.050 0.889	0.050 0.050	0.005 0.006	mg/kg mg/kg	50 50	02/19/16 02/19/16	8021B 8021B		MS MS
FPH 418.1 Volatile Organic Compounds by EPA M Benzene* Foluene* Ethylbenzene* Fotal Xylenes* Fotal BTEX	Sector Sector<	0.050 0.050 0.050 0.150	0.005 0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg mg/kg	50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B		MS MS MS
TPH 418.1 Yolatile Organic Compounds by EPA M Benzene* Yoluene* Cthylbenzene* Yotal Xylenes* Yotal BTEX Purrogate: 4-Bromofluorobenzene (PID)	Sector Sector<	0.050 0.050 0.050 0.150	0.005 0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg mg/kg mg/kg	50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B		MS MS MS MS
TPH 418.1 Volatile Organic Compounds by EPA M Benzene* Voluene* Cthylbenzene* Fotal Xylenes* Fotal BTEX Fotal BTEX Furrogate: 4-Bromofluorobenzene (PID) Petroleum Hydrocarbons by GC FID	Sector Sector<	0.050 0.050 0.050 0.150	0.005 0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg mg/kg mg/kg	50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B		MS MS MS MS
TPH 418.1 Volatile Organic Compounds by EPA M Benzene* Foluene* Cthylbenzene* Fotal Xylenes* Fotal BTEX Furrogate: 4-Bromofluorobenzene (PID) Petroleum Hydrocarbons by GC FID GRO C6-C10	4ethod 8021 <0.050 0.889 <0.050 <0.150 0.889	0.050 0.050 0.050 0.150 0.300	0.005 0.006 0.017 0.043 0.070 108 %	mg/kg mg/kg mg/kg mg/kg mg/kg 73.6-140	50 50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B 8021B		MS MS MS MS MS
TPH 418.1 Volatile Organic Compounds by EPA M Benzene* Foluene* Ethylbenzene* Fotal Xylenes* Fotal BTEX Foral BTEX Fourrogate: 4-Bromofluorobenzene (PID) Petroleum Hydrocarbons by GC FID GRO C6-C10 DRO >C10-C28	4ethod 8021 <0.050	0.050 0.050 0.150 0.300	0.005 0.006 0.017 0.043 0.070 108 %	mg/kg mg/kg mg/kg mg/kg 73.6-140 mg/kg	50 50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B 8021B 8021B		MS MS MS MS MS
Drganic Compounds CPH 418.1 Volatile Organic Compounds by EPA M Benzene* Foluene* Cotal Sylenes* Fotal BTEX Fotal BTEX Foral BTEX	Sector Sector<	0.050 0.050 0.150 0.300 10.0	0.005 0.006 0.017 0.043 0.070 108 %	mg/kg mg/kg mg/kg mg/kg 73.6-140 mg/kg mg/kg	50 50 50 50 50 1 1	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/17/16	8021B 8021B 8021B 8021B 8021B 8021B 8021B 8015B 8015B		MS MS MS MS MS MS

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Seldie Zufett

Debbie Zufelt, Reports Manager



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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Proj	ect Name / N		c. tonwood Cany hael Hannigan				Reported 03/09/16 10	
			CC14W	7					
		16	02107-04 (\$	Solid)					
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
% Dry Solids	65.7			%	1	02/24/16	ASA#9 & SSSA#5	H2	LLG
Soluble (DI Water Extraction)	10100	609	31.6	mg/kg dry	400	02/25/16	EPA300.0		JDA
Subcontracted Cardinal Labora	itories								
	528	100	13.5	mg/kg	10	03/09/16	418.1		СК
FPH 418.1		100	13.5	mg/kg	10	03/09/16	418.1		СК
PH 418.1 Volatile Organic Compounds by EPA N		0.050	0.005	mg/kg mg/kg	10	03/09/16	418.1 8021B		CK
PH 418.1 <u>/olatile Organic Compounds by EPA M</u> Benzene*	lethod 8021								
YPH 418.1 Yolatile Organic Compounds by EPA M Benzene* Yoluene*	1ethod 8021 <0.050	0.050	0.005	mg/kg	50	02/19/16	8021B		MS
PH 418.1 <u>7olatile Organic Compounds by EPA N</u> Genzene* Yoluene* Cthylbenzene*	1ethod 8021 <0.050 0.349	0.050 0.050	0.005 0.006	mg/kg mg/kg	50 50	02/19/16 02/19/16	8021B 8021B		MS MS
PH 418.1 /olatile Organic Compounds by EPA M Benzene* ioluene* ithylbenzene* iotal Xylenes*	1ethod 8021 <0.050 0.349 <0.050	0.050 0.050 0.050	0.005 0.006 0.017	mg/kg mg/kg mg/kg	50 50 50	02/19/16 02/19/16 02/19/16	8021B 8021B 8021B		MS MS MS
TPH 418.1 Volatile Organic Compounds by EPA N Benzene* Foluene* Ethylbenzene* Fotal Xylenes* Fotal BTEX	1ethod 8021 <0.050	0.050 0.050 0.050 0.150	0.005 0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg mg/kg	50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B		MS MS MS
TPH 418.1 Yolatile Organic Compounds by EPA M Benzene* Yoluene* Cthylbenzene* Yotal Xylenes* Yotal BTEX Yurrogate: 4-Bromofluorobenzene (PID)	1ethod 8021 <0.050	0.050 0.050 0.050 0.150	0.005 0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg mg/kg mg/kg	50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B		MS MS MS MS
TPH 418.1 Volatile Organic Compounds by EPA M Benzene* Voluene* Cthylbenzene* Votal Xylenes* Votal BTEX Vurrogate: 4-Bromofluorobenzene (PID) Petroleum Hydrocarbons by GC FID	1ethod 8021 <0.050	0.050 0.050 0.050 0.150	0.005 0.006 0.017 0.043 0.070	mg/kg mg/kg mg/kg mg/kg mg/kg	50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B		MS MS MS MS
PH 418.1 Yolatile Organic Compounds by EPA M Benzene* Yoluene* Yotal Xylenes* Yotal BTEX Petroleum Hydrocarbons by GC FID GRO C6-C10	1ethod 8021 <0.050 0.349 <0.050 <0.150 0.349	0.050 0.050 0.050 0.150 0.300	0.005 0.006 0.017 0.043 0.070 107 %	mg/kg mg/kg mg/kg mg/kg mg/kg 73.6-140	50 50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B 8021B		MS MS MS MS MS
TPH 418.1 Volatile Organic Compounds by EPA M Benzene* Foluene* Ethylbenzene* Fotal Xylenes* Fotal BTEX Eurrogate: 4-Bromofluorobenzene (PID) Petroleum Hydrocarbons by GC FID GRO C6-C10 DRO >C10-C28	1ethod 8021 <0.050	0.050 0.050 0.150 0.300	0.005 0.006 0.017 0.043 0.070 107 %	mg/kg mg/kg mg/kg mg/kg 73.6-140 mg/kg	50 50 50 50 50	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/19/16	8021B 8021B 8021B 8021B 8021B 8021B 8021B		MS MS MS MS MS
Drganic Compounds IPH 418.1 Volatile Organic Compounds by EPA M Benzene* Foluene* Foluene* Fotal Xylenes* Fotal BTEX Foral BTEX F	Sector Sector<	0.050 0.050 0.150 0.300 10.0	0.005 0.006 0.017 0.043 0.070 107 %	mg/kg mg/kg mg/kg mg/kg 73.6-140 mg/kg mg/kg	50 50 50 50 50 1 1	02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/19/16 02/17/16	8021B 8021B 8021B 8021B 8021B 8021B 8021B 8015B 8015B		MS MS MS MS MS MS

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Debbie Zufelt, Reports Manager



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								www.Gre	enAnalytica	l.com
Kinder Morgan		F	roject: Mise	c .						
17801 Hwy 491	Pro	ject Name / N	umber: Cott	onwood Ca	nyon				Reporte	ed:
Cortez CO, 81321		Project Ma	anager: Mic	hael Hannig	an				03/09/16	16:02
	G	eneral Che	mistry - Q	Quality C	ontrol					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B602186 - General Prep - Wet Cher		Emin	Cinto	Level	Result	Juitee	Linits	IU D	Linit	riotes
Duplicate (B602186-DUP1)		Irce: 1602107-	01 Pren	ared & Anal	vzed: 02/2/	1/16				
% Dry Solids	82.3	1002107	%		81.2	110		1.42	20	
	Soluble	(DI Water	Extractio	on) - Oua	litv Cont	rol				
				,	U					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B602184 - General Prep - Wet Cher	m									
Blank (B602184-BLK1)			Prepa	ared: 02/24/	16 Analyz	ed: 02/26/1	6			
Chloride	ND	1.00	mg/kg wet							
LCS (B602184-BS1)			Prepa	ared: 02/24/	16 Analyzo	ed: 02/25/1	6			
Chloride	108	4.00	mg/kg wet	100		108	85-115			
.CS Dup (B602184-BSD1)			Prepa	ared: 02/24/	16 Analyze	ed: 02/25/1	6			
Chloride	108	4.00	mg/kg wet	100		108	85-115	0.148	20	
	Or	ganic Com	pounds -	Quality (Control					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6030803 - Solvent Extraction										
Blank (6030803-BLK1)			Prepa	ared: 03/08/	16 Analyz	ed: 03/09/1	6			
TPH 418.1	ND	100	mg/kg							
.CS (6030803-BS1)			Prepa	ared: 03/08/	16 Analyze	ed: 03/09/1	6			
TPH 418.1	5820	100	mg/kg	5000		116	70-130			
.CS Dup (6030803-BSD1)			Prepa	ared: 03/08/	16 Analyze	ed: 03/09/1	6			
TPH 418.1	5790	100	mg/kg	5000	•	116	70-130	0.551	20	

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Delilie Zufett

Debbie Zufelt, Reports Manager



Laboratories		www.GreenAnalytical.com
Kinder Morgan	Project: Misc.	
17801 Hwy 491	Project Name / Number: Cottonwood Canyon	Reported:
Cortez CO, 81321	Project Manager: Michael Hannigan	03/09/16 16:02

Volatile Organic Compounds by EPA Method 8021 - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6021901 - Volatiles										
Blank (6021901-BLK1)			Prep	oared & Anal	yzed: 02/19	9/16				
Surrogate: 4-Bromofluorobenzene (PID)	0.0534		mg/kg	0.0500		107	73.6-140			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
LCS (6021901-BS1)			Prep	oared & Anal	yzed: 02/19	9/16				
Surrogate: 4-Bromofluorobenzene (PID)	0.0525		mg/kg	0.0500		105	73.6-140			
Benzene	2.04	0.050	mg/kg	2.00		102	82.6-122			
Ethylbenzene	1.82	0.050	mg/kg	2.00		91.1	65.4-131			
Toluene	2.01	0.050	mg/kg	2.00		101	72.9-122			
Total Xylenes	5.64	0.150	mg/kg	6.00		94.0	73.8-125			
LCS Dup (6021901-BSD1)			Prep	oared & Anal	yzed: 02/19	9/16				
Surrogate: 4-Bromofluorobenzene (PID)	0.0514		mg/kg	0.0500		103	73.6-140			
Benzene	2.06	0.050	mg/kg	2.00		103	82.6-122	0.658	8.23	
Ethylbenzene	1.82	0.050	mg/kg	2.00		91.0	65.4-131	0.118	9.46	
Toluene	2.02	0.050	mg/kg	2.00		101	72.9-122	0.555	8.71	
Total Xylenes	5.63	0.150	mg/kg	6.00		93.8	73.8-125	0.224	8.66	

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Laboratories		www.GreenAnalytical.com
Kinder Morgan 17801 Hwy 491	Project: Misc. Project Name / Number: Cottonwood Canyon	Derected
Cortez CO, 81321	Project Manager: Michael Hannigan	Reported: 03/09/16 16:02

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6021705 - General Prep - Organics										
Blank (6021705-BLK1)			Prep	ared & Anal	lyzed: 02/17	7/16				
Surrogate: 1-Chlorooctadecane	58.4		mg/kg	50.0		117	28-171			
Surrogate: 1-Chlorooctane	54.1		mg/kg	50.0		108	35-147			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
LCS (6021705-BS1)			Prep	ared & Anal	lyzed: 02/17	7/16				
Surrogate: 1-Chlorooctadecane	60.9		mg/kg	50.0		122	28-171			
Surrogate: 1-Chlorooctane	57.3		mg/kg	50.0		115	35-147			
DRO >C10-C28	238	10.0	mg/kg	200		119	78.3-122			
GRO C6-C10	224	10.0	mg/kg	200		112	76.7-115			
Total TPH C6-C28	462	10.0	mg/kg	400		116	79.8-117			
LCS Dup (6021705-BSD1)			Prep	ared & Anal	lyzed: 02/17	7/16				
Surrogate: 1-Chlorooctadecane	45.1		mg/kg	50.0		90.2	28-171			
Surrogate: 1-Chlorooctane	50.4		mg/kg	50.0		101	35-147			
DRO >C10-C28	197	10.0	mg/kg	200		98.5	78.3-122	18.8	13.2	QR-
GRO C6-C10	209	10.0	mg/kg	200		104	76.7-115	7.24	9.42	
Total TPH C6-C28	406	10.0	mg/kg	400		101	79.8-117	13.0	10.7	QR-

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, 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 within thirty days after completion of the applicable service.

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	Laboratories		www.GreenAnalytical.com
Kinder M	organ	Project: Misc.	
17801 Hv	vy 491	Project Name / Number: Cottonwood Canyor	n Reported:
Cortez CO	D, 81321	Project Manager: Michael Hannigan	03/09/16 16:02
		Notes and Definitions	
QR-02		ntrol limits; however, both percent recoveries were acception overies and completeness of QC data.	ptable. Sample results for the QC batch
H2	Sample analysis performed past hol	d time specified by the method.	
DET	Analyte DETECTED		
ND	Analyte NOT DETECTED at or above t	ne reporting limit	
NR	Not Reported		
dry	Sample results reported on a dry weight	basis	
	*Results reported on as received basis u	iless designated as dry.	
RPD	Relative Percent Difference		
LCS			

- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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Debbie Zufelt, Reports Manager

Kenniquistied by:	Phene Phene	linguished by: 11 .	9		7.	6.	5.	4.11.1	3 CC141	2 CC 14XN	1. CC14X 5	Sample ID		Address: 75 Suttle S	Lab Name: Green Ana	Email: Michael_Hannigan@kindermorgan.com	Phone Number: (970) 882-5532	Cortez, CO 81321	Address: 17801 U.S. Highway 491	Contact: Michael Hannigan	Client: Kinder Morgan CO2 Company L.P	
0	A Star						8	-		_	2/11/16	Date	Collection	Suttle Street, Durango, CO 81303	Green Analytical Laboratories	@kindermorg	5532	21	way 491	-	02 Company	Analytical
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							-	<	No. of Concession, Name	ita na si ka	MA	Collected by: (Init.)			0			1		I	I	
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	Date: 2/12/16						4	-			2	No. of Containers	laneou	WW	47-422	Project Name: COTTON WOOD GNYON		3) Designate Sample Reject Disposition.	2) Ship samples promptly following collection.	1) Ensure proper container packaging	HAIN OF CUSTODY RECORD	AIN
	6						*	-		-	2	Sample Filtered ? Y/N	- 5	www.greenanalytical.com		e:Co		Samp	ples pro	oper co		OF
Time:	Lime:	j		*			>	< >	R,	×	×	Unpreserved (Ice Only)		enana	FAX (970) 247-4227	TON		le Reje	omptly	ontaine		CL
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-	2		-		_											olers S	= Waste, 7 = Other (Specify)	3 = Soil/Sediment, 4 = Rinsate, 5 = Oil	= Surface Water, 2 = Ground Water			OR
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Sample Reject: [] Return [] Dispose [] Store (30 Days)

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17 NMAC

		or 8015M			
	Chloride	EPA Method 300.0	40,000 mg/kg		
51-100 feet	ТРН	EPA SW-846 Method 418.1	2,500 mg/kg		
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg		
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg		
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg		
	Chloride	EPA Method 300.0	80,000 mg/kg		
> 100 feet	TPH	EPA SW-846 Method 418.1	2,500 mg/kg		
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg		
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg		
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg		

*Or other test methods approved by the division

**Numerical limits or natural background level, whichever is greater

[19.15.17.13 NMAC - Rp, 19.15.17.13 NMAC, 6/28/13]

19.15.17.14 **EMERGENCY ACTIONS:**

A. Permit not required. In an emergency an operator may construct a pit without a permit to contain fluids, solids or wastes, if an immediate danger to fresh water, public health or the environment exists.

Construction standards. The operator shall construct an emergency pit, to the extent possible given the emergency, in a manner B. that is consistent with the requirements for a temporary pit specified in 19.15.17 NMAC and that prevents the contamination of fresh water and protects public health and the environment.

C. Notice. The operator shall notify the appropriate division district office as soon as possible (if possible before construction begins) of the need for such pit's construction.

Use and duration. A pit constructed in an emergency may be used only for the emergency's duration. If the emergency lasts D. more than 48 hours, then the operator shall seek the appropriate division district office's approval for the pit's continued use. The operator shall remove all fluids, solids or wastes within 48 hours after cessation of use unless the appropriate division district office extends that time period. [19.15.17.14 NMAC - Rp, 19.15.17.14 NMAC, 6/28/13]

EXCEPTIONS AND VARIANCES: 19.15.17.15

A. Variances.

(1)An operator shall demonstrate with a complete application to the appropriate division district office that the requested variance provides equal or better protection of fresh water, public health and the environment. The appropriate division district office shall approve or deny the variance within 60 days of receipt of the complete application.

(2) If the appropriate division district office denies the variance then it shall notify the operator within 60 days of receipt of the complete application for the reasons of denial by certified mail, return receipt requested. If the operator requests a hearing within 10 days after receipt of such notice, the division shall set the matter for hearing, with notice to the operator and the appropriate division district office.

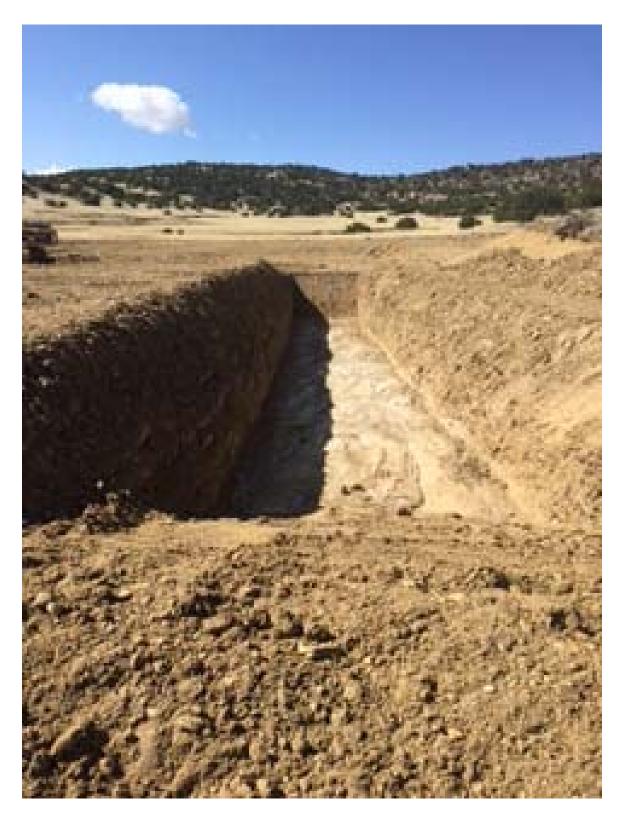
- An application for a variance shall include: (3)
 - (a) a statement in detail explaining why the applicant wants to vary from the requirement of 19.15.17 NMAC, and

a detailed written demonstration that the variance will provide equal or better protection of fresh water, public health and (b) the environment.

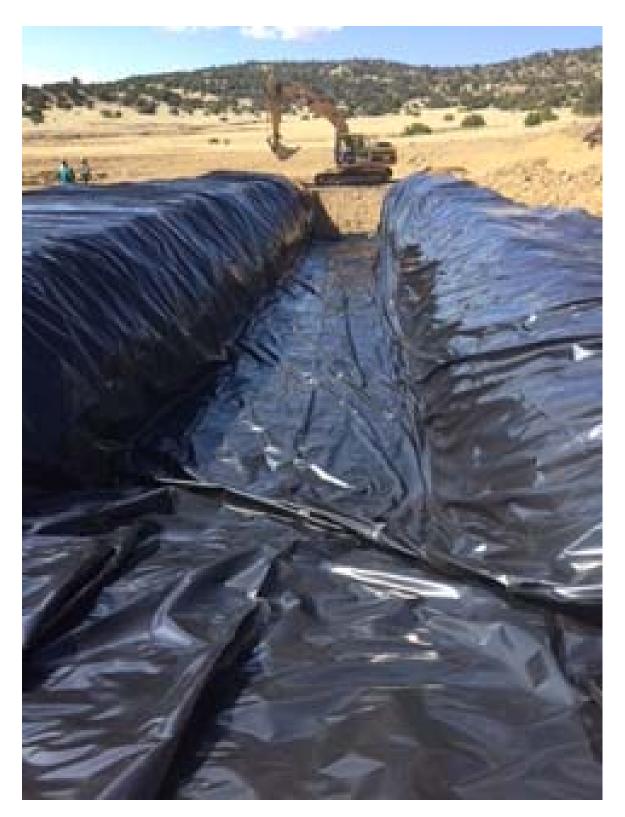
If a variance goes to hearing pursuant to Paragraph (2) of Subsection A of 19.15.17.15 NMAC, in addition to the hearing process (4) required by 19.15.4 NMAC, the application for hearing shall include:

- (a) a copy of the complete application submitted for a variance under Paragraph (3) of Subsection A of 19.15.17.15 NMAC;
- (b) proof of notification to the surface owner of the location of the requested variance. (5)
 - The division clerk will set the application for hearing as soon as practicable.
- B. Exceptions.
 - An operator may apply to the division's Santa Fe office for an exception that is allowed by a provision of 19.15.17 NMAC. (1)
 - (2) The operator shall give written notice by certified mail, return receipt requested, to:
 - (a) the surface owner of record where the exception is requested, or will be located;
 - (b) surface owners of record within one-half mile of such location;

http://164.64.110.239/nmac/parts/title19/19.015.0017.htm[4/28/2015 4:24:06 PM]



Burial trench excavation.



Installation of 30 mil LLDPE liner in burial trench excavation.



Outer edges of trench liner folded over waste material prior to installation of geomembrane cover.



Installation of geomembrane cover over waste material in the lined burial trench.



Soil cover being placed over lined burial trench.



Interim reclamation of lined burial trench and temporary drilling pit CC14 areas.



Interim reclamation of lined burial trench and CC14X temporary drilling pit areas.



Interim reclamation of CC14 temporary drilling pit area.



Interim reclamation of CC14X temporary drilling pit area.

From:	<u>Hannigan, Michael</u>
То:	Lowe, Leonard, EMNRD
Subject:	Cottonwood Canyon Pit Closure Reports
Date:	Tuesday, June 14, 2016 10:18:15 AM
Attachments:	CC14 Closure Report Package.pdf
	CC14X Closure Report Package.pdf

Leonard,

Attached are the pit closure report packages for the CC14 and CC14X temporary drilling pits. Each package contains a completed Form C-144 and C-105, a plat drawing as an attachment to the Form C-105, a summary of pit closure activities, summary tables of soil and waste sample analytical data, documentation of closure notifications, laboratory analytical reports for soil samples collected from beneath the liners and waste samples collected from the pits, and photos taken during the closure activities. Please review the report packages and let me know if I've left anything out or if any of the forms need revision. Thank you for your help with the closure of these temporary pits and I look forward to working with you until the wells are plugged/abandoned and final reclamation/revegetation of the location is complete.

Michael Hannigan, P.E. Senior EHS Specialist



Cortez Field Office 17801 U.S. Highway 491 Cortez, C0 81321 Office (970) 882-5532 Mobile (970) 403-9501