

January 8, 2015

Jim Hughes
Environmental Protection Specialist
Colorado Oil and Gas Conservation Commission

**RE: Drilling Fluid Release Remedial Excavation Final Report
CB #3, API Number: 05-083-06715
L7, Section 11, T38N, R19W, Montezuma County, Colorado
Spill Release Point ID: 439068**

Dear Mr. Hughes:

On September 23, 2014, Kinder Morgan completed an initial release mitigation and remedial excavation at the Kinder Morgan CB-3 well site, located in Montezuma County, Colorado. The release occurred September 22, 2014, and consisted of approximately 43 barrels (bbls) drilling fluid. An estimated 37 bbls of drilling fluid were immediately recovered using an on-site vacuum truck, and 6 bbls of drilling fluid were unrecoverable.

Kinder Morgan submitted the initial report to the Colorado Oil and Gas Conservation Commission (COGCC) on September 23, 2014, and a supplemental report on October 2, 2014, detailing the cause of the release. The following report summarizes the initial remedial excavation and confirmation soil sample results. A topographic site map illustrating the location of the well site is presented as Figure 1.

1.0 Excavation and Soil Sampling

The initial excavation measured an estimated 1,548 square feet. Excavated soils, totaling 77 cubic yards, were disposed of at Industrial Ecosystem's landfarm in Aztec, New Mexico. Disposal documentation is attached to this report.

Since the drill rig was still in operation at the time of the release, the initial excavation area was backfilled with clean gravel. The final remedial excavation was completed on October 15, 2014, after the rig was moved from the location. The spill area was re-excavated as part of the normal site clean-up procedures once a drill rig has left a location. All visible soil staining was removed from the spill area and two five-point composite samples were collected from the former spill area (CB-3 West and CB-3 East) for confirmation laboratory analysis. The excavation limits and soil sample locations are presented on Figure 3.

2.0 Laboratory Analyses

The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Green Analytical Laboratories (Green) in Durango, Colorado. The two confirmation samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- Total petroleum hydrocarbons (TPH) (diesel, motor, and gasoline range organics) per USEPA Method 8015 B;
- Mercury per USEPA Method 7471;
- Soil Metals per USEPA Method 6010 B;
- Sodium Adsorption Ratio Soluble Cations (SAR)
- Poly-nuclear aromatic hydrocarbons (PAH) per USEPA Method 8270 C
- Conductance (EC) and pH

2.1 Laboratory Analytical Results

Laboratory analytical results for BTEX, TPH, PAH, soil metals (except Arsenic), EC, and pH were below COGCC regulatory standards in CB-3 East. All contaminants of concern were below COGCC regulatory standards in CB-3 West, except Arsenic, EC, and SAR. The laboratory analytical report is attached and summarized in Table 1.

3.0 Conclusions

Kinder Morgan has completed all necessary remedial actions related to the drilling fluid release at CB-3 that occurred on September 22, 2014. The Arsenic level was exceeded in all confirmation samples; however, it is known that Arsenic background levels are high in southwest Colorado. EC and SAR levels exceeded the COGCC regulatory standards in sample CB-3 West; however, Kinder Morgan proposes to leave these soils in place until final reclamation of the well pad. The area of elevated concentrations of EC and SAR are within the working area of the well pad where vegetation is strictly controlled. Therefore, the soils left in place will have no adverse impact on vegetation, which is COGCC's stated objective for the Table 910-1 concentration levels for EC and SAR.

Based on remedial actions and laboratory analytical results, no further actions are proposed until final reclamation of the well location is completed.

If you have any questions about this report or site conditions, please do not hesitate to contact Tami Knight at (970) 882-5520.

Sincerely,

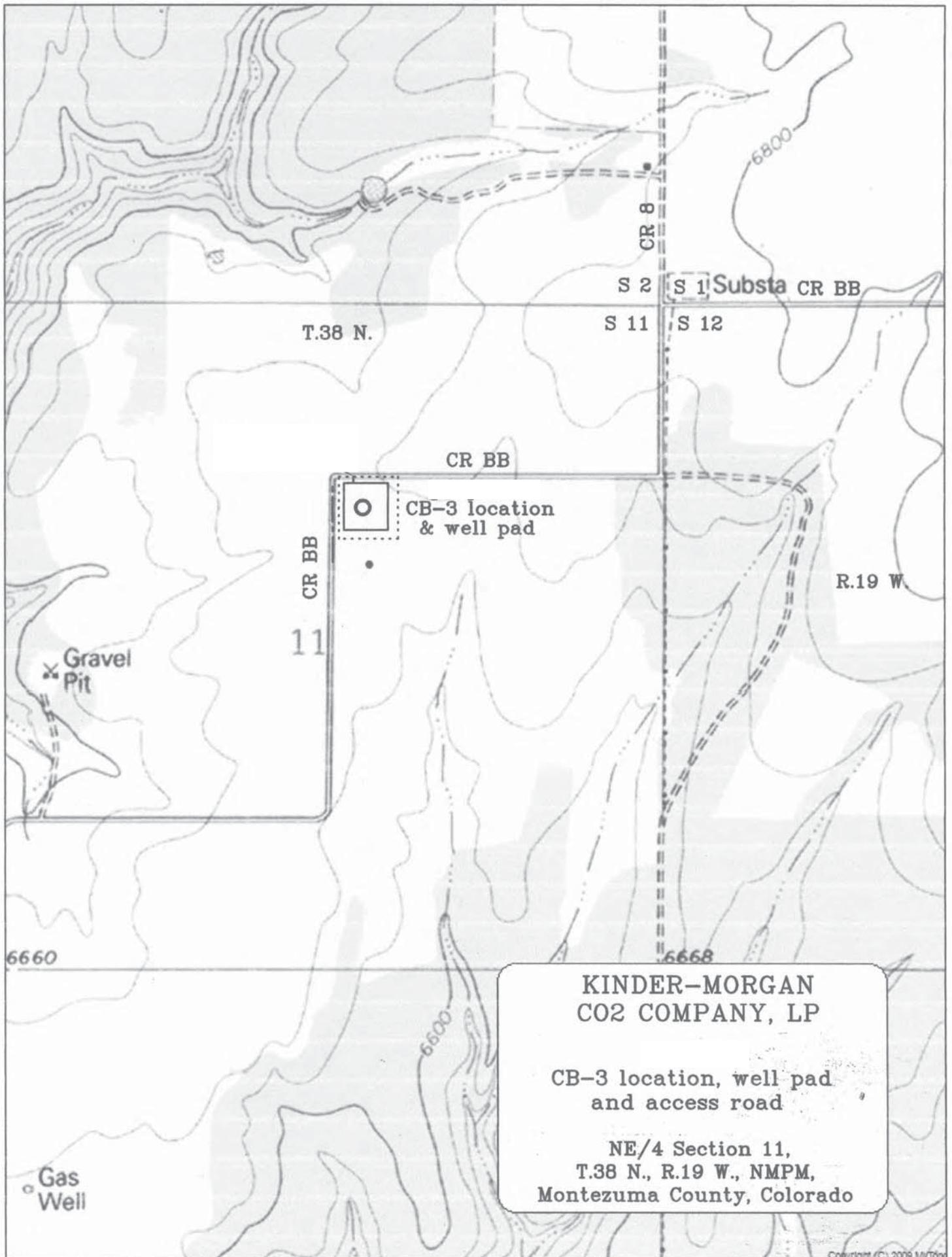


Tami C. Knight, CHMM
Operations Project Manager

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Vicinity Map
- Figure 3. Remedial Excavation Sample Locations,
October 2014
- Table 1. Soil Analytical Results Summary
Disposal Documentation
Green Analytical Laboratories Report 1410-162

H:\Spills-Releases\Drilling\CB 3 Release 092214\CB-3 Drilling Fluid Release Final Report
010815.docx



T.38 N.

S 2 S 1 Substa CR BB

S 11 S 12

CR BB

○ CB-3 location & well pad

CR BB
11

R.19 W.

Gravel Pit

6660

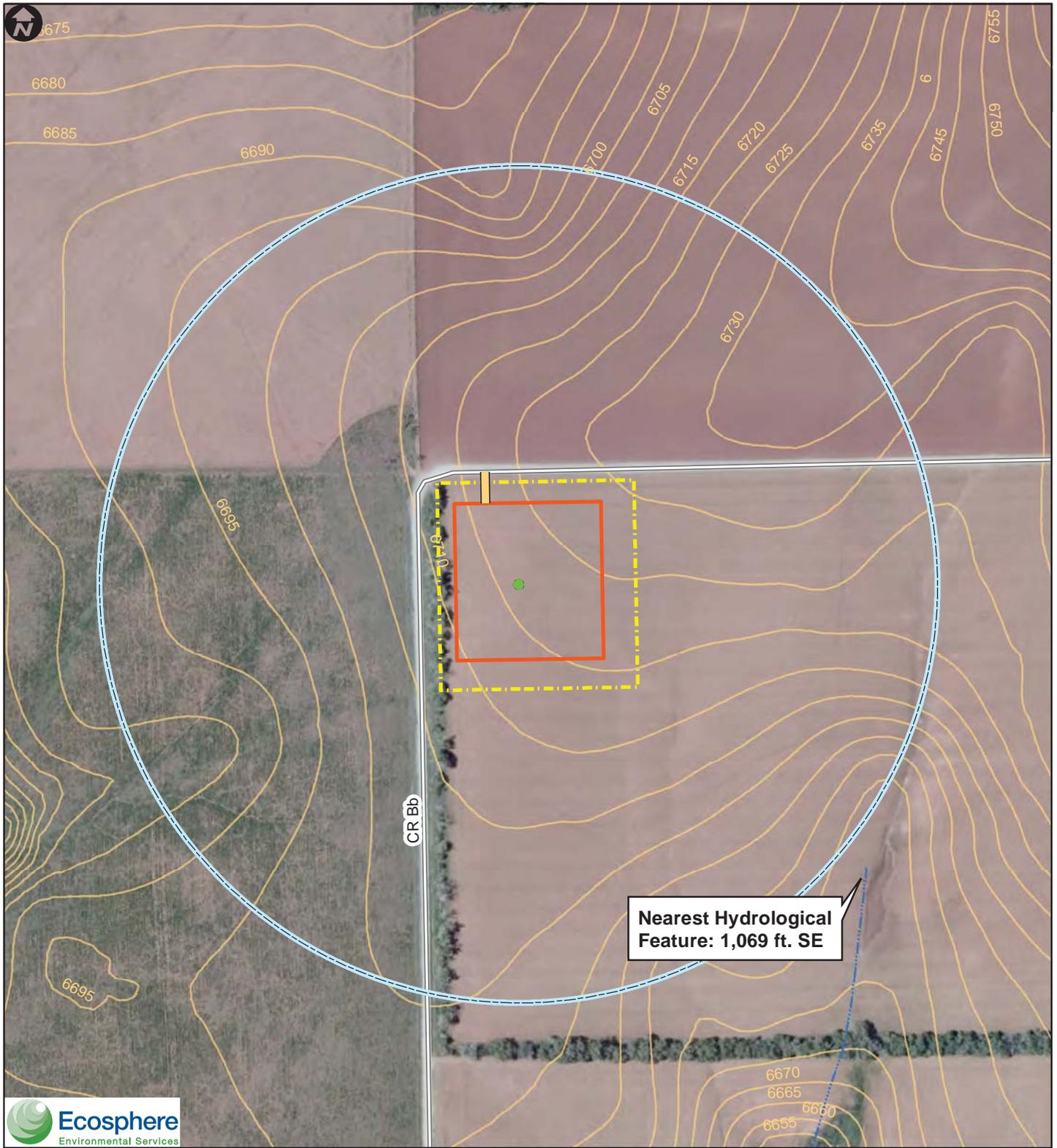
6668

**KINDER-MORGAN
CO2 COMPANY, LP**

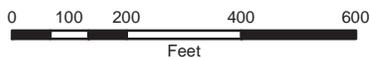
CB-3 location, well pad
and access road

NE/4 Section 11,
T.38 N., R.19 W., NMPM,
Montezuma County, Colorado

Gas Well



- CB-3 Wellhead
- CB-3 Wellpad
- CB-3 Limits of Disturbance
- Drilled and Abandoned
- 1,000 ft. Radius
- Driveway Access 5 ft.
- Contours
- Streets
- Intermittent Stream



1:4,000

Date: 2/5/2014

Coordinate System: NAD 1983 UTM Zone 12N

Kinder Morgan CO2

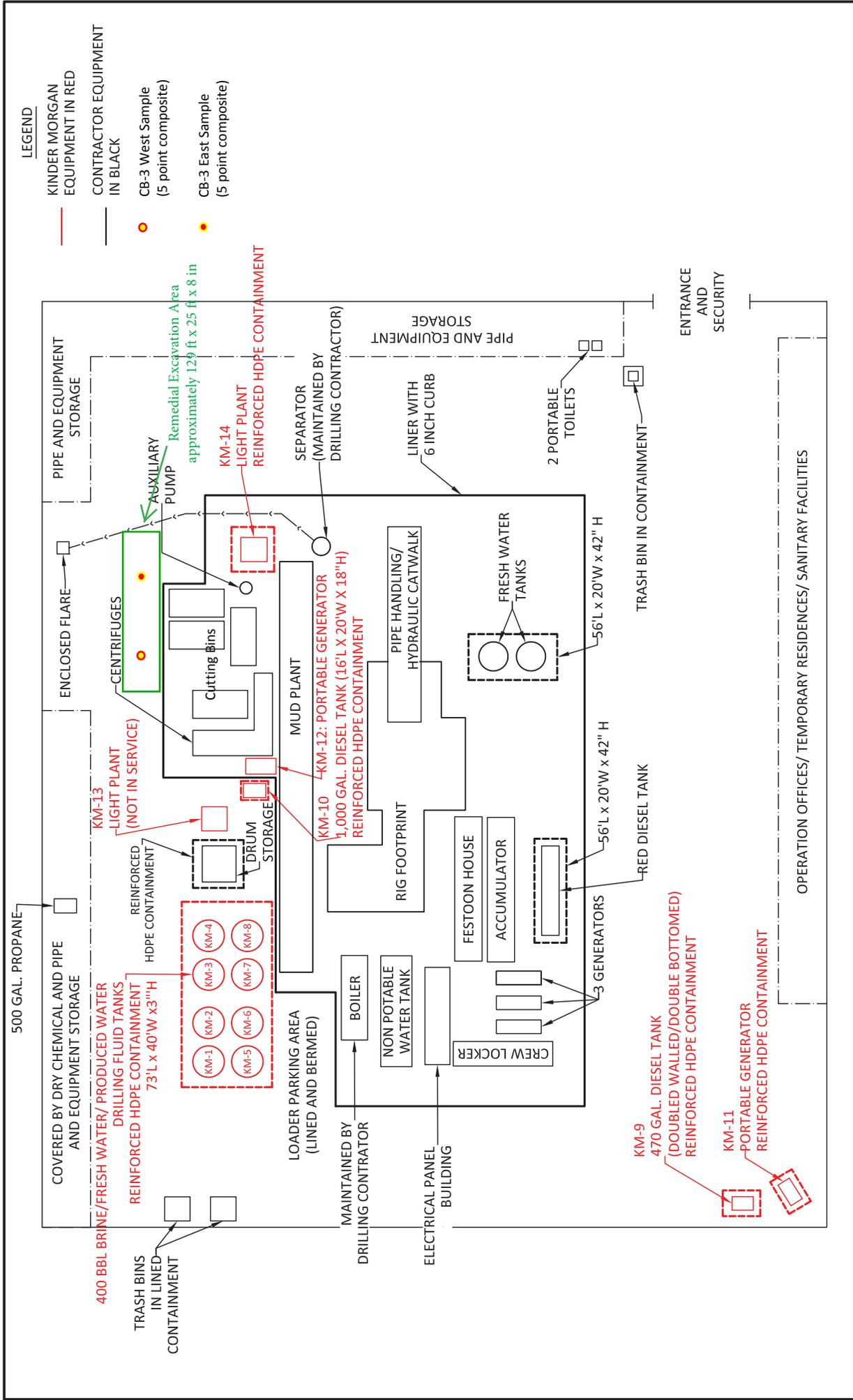
CB-3 CO2 Well

Hydrology Map

Montezuma County, CO

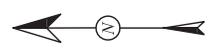
Section 11, Township 38N,
Range 19W, NMPM

Ruin Canyon, CO 1:24k



- LEGEND**
- KINDER MORGAN EQUIPMENT IN RED
 - CONTRACTOR EQUIPMENT IN BLACK
 - CB-3 West Sample (5 point composite)
 - CB-3 East Sample (5 point composite)

NOT TO SCALE



DRAWN BY: C. Lamerian	DATE DRAWN: August 20, 2014	FIGURE 3 Remedial Excavation	
REVISIONS BY: T. Knight	DATE REVISED: December 4, 2014	Confirmation Sample Locations October 2014	
CHECKED BY: P. Kennedy	DATE CHECKED: December 4, 2014	Kinder Morgan CO2 Company, L.P.	
APPROVED BY: J. Stewart	DATE APPROVED: December 4, 2014	CB-3 Well Location L 7, Sec 11, T 38 N, R 19 W, N.P.M. 37.568930; -108.911790	

OPERATION OFFICES/ TEMPORARY RESIDENCES/ SANITARY FACILITIES

ENTRANCE AND SECURITY

Kinder Morgan - CB-3

Drilling Fluid Release Remediation Excavation - Soil Analytical Results Summary

January 8, 2015

**Table 910-1
Concentration Levels
Confirmation Samples
10/15/2014**

Analyte	CDPHE/COGCC Standard	Units	CB-3 West	CB-3 East
Diesel Range Organics (DRO)	500	mg/Kg	16.2	ND
Motor Oil Range Organics (MRO)		mg/Kg	33.1	ND
Gasoline Range Organics (GRO)		mg/Kg	ND	ND
Benzene	0.17	mg/Kg	ND	ND
Toluene	85	mg/Kg	ND	ND
Ethyl Benzene	100	mg/Kg	ND	ND
Xylenes, Total	175	mg/Kg	ND	ND
Mercury	23	mg/Kg	ND	ND
Arsenic	0.39	mg/Kg	3.61	4.22
Barium	15,000	mg/Kg	275	246
Cadmium	70	mg/Kg	ND	ND
Chromium	23	mg/Kg	7.43	8.73
Copper	3100	mg/Kg	16	14.6
Lead	400	mg/Kg	11	ND
Nickel	1600	mg/Kg	8.2	11.2
Selenium	390	mg/Kg	ND	ND
Silver	390	mg/Kg	ND	ND
Zinc	23000	mg/Kg	58.4	49.9
Calcium		mg/L	778	202
Magnesium		mg/L	83.1	50.2
Sodium		mg/L	7,380	219
Sodium Adsorption Ratio	<12	--	67.2	3.57
Naphthalene	23	mg/Kg	ND	ND
Acenaphthene	1,000	mg/Kg	ND	ND
Fluorene	1,000	mg/Kg	ND	ND
Anthracene	1,000	mg/Kg	ND	ND
Fluoranthene	1,000	mg/Kg	ND	ND
Pyrene	1,000	mg/Kg	ND	ND
Benzo(A)anthracene	0.22	mg/Kg	ND	ND
Chrysene	22	mg/Kg	ND	ND
Benzo(B)fluoranthene	0.22	mg/Kg	ND	ND
Benzo(K)fluoranthene	2.2	mg/Kg	ND	ND
Benzo(A)pyrene	0.022	mg/Kg	ND	ND
Dibenzo(A,H)anthracene	0.022	mg/Kg	ND	ND
Indeno(1,2,3,C,D)pyrene	0.22	mg/Kg	ND	ND
Specific Conductance	< 4,000 µmhos/cm or 2x background	mmhos/cm	39,000	2,230
pH			7.41	7.62

NA- Not Analyzed

ND - Not Detected

BDL - Below Detection Limit

Value

Shading represents a value above the Table 910-1 Standard



Industrial Ecosystems Inc.
Soil Reclamation Center

P.O. Box 2043
Farmington NM 87499

Phone: (505) 632-1782
Fax: (505) 632-1876

#49 CR 3150
Aztec NM 87410

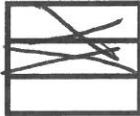
Material Entry Record

Date: 9-22-14 Company Representatives Name: Neil Jones
 Generator of Material: KINDER Morgan Phone Number: 970-560-9397
 Origin of Material (Location): CB # Drill Location (Rig M#13) Rig # M#13
 Material Transported by: Lingo #3 Trucking H2S Gas Non-Detect Detect: Level ____
 Driver's Name: Cody Lingo ____ Chlorides ____ PH ____ TDS
 Driver's Cell #: ____ Paint Filter Test: Passed Failed
 Truck Number: 4 Pit Tanks
 Pile Number: ____
 Logged in Corresponding BioPile Sheet

DENIED / REJECTED

Type of Material

Soil
 Gravel
 Solidified Liquid
 Other _____



Tank Bottom Sludge
 Tank Cleaning Residue
 Charcoal Filter Media



Washout by: _____

Dilution Material _____

Amount of Material _____

	Load #1	Load #2	Load #3	Load #4	Load #5	Load #6	Load #7	Load #8	Load #9	Load #10
Cubic Yards	18	18	18							
Barrels	0	0	0							
Washout	0	0	0							
Truck #	4	04								
Time In	8:11pm	9:40pm	11:35pm							
Time Out	8:45pm	10:07pm	11:50pm							
Login Initials	MS	MS	MS							

Exempt

XXX

Non Exempt

54cy

I certify that the quantity and type of waste is that listed above. To the best of my knowledge, no other quantities or types of wastes have been added or removed.

Driver's signature: Cody Lingo

Attendant's Signature: Michael Story

*Attach copy of test results to C-138



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

30 October 2014

Tami Knight
Kinder Morgan
17801 Hwy 491
Cortez, CO 81321
RE: CB-3 Release

Enclosed are the results of analyses for samples received by the laboratory on 10/15/14 16:15.
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Debbie Zufelt". The signature is written in a cursive, flowing style.

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



Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: CB-3 Release Project Name / Number: [none] Project Manager: Tami Knight	Reported: 10/30/14 10:10
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB-3 West	1410162-01	Solid	10/15/14 11:21	10/15/14 16:15
CB-3 East	1410162-02	Solid	10/15/14 11:41	10/15/14 16:15

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: CB-3 Release Project Name / Number: [none] Project Manager: Tami Knight	Reported: 10/30/14 10:10
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CB-3 West

1410162-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	93.7			%	1	10/17/14	EPA160.3		JGS
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Saturated Paste Extraction

Calcium	778	10.0	0.039	mg/L	10	10/22/14	EPA200.7		ICP
Conductivity	39000			umhos/cm	1	10/21/14	ASA#9 10-3.3		ACH
Magnesium	83.1	10.0	0.190	mg/L	10	10/22/14	EPA200.7		ICP
pH	7.41			pH Units	1	10/21/14	ASA#9 12-2.6		ACH
SAR	67.2			[blank]	1	10/22/14	Calculation		ICP
Sodium	7380	10.0	0.041	mg/L	10	10/22/14	EPA200.7		ICP

Total Metals by ICP

Barium	275	1.00	0.368	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Cadmium	<5.00	5.00	0.125	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Chromium	7.43	5.00	0.767	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Copper	16.0	2.00	0.603	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Lead	11.0	10.0	1.95	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Nickel	8.20	5.00	1.27	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Selenium	<20.0	20.0	3.38	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Silver	<5.00	5.00	0.212	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Zinc	58.4	1.00	0.699	mg/kg dry	100	10/20/14	EPA6010 B		JGS

Total Metals by ICPMS

Arsenic	3.61	0.500	0.202	mg/kg dry	1000	10/21/14	6020 A		JGS
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Total Mercury by CVAA

Mercury	<0.0988	0.0988	0.0186	mg/kg dry	463	10/21/14	EPA7471		JGS
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Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: CB-3 Release Project Name / Number: [none] Project Manager: Tami Knight	Reported: 10/30/14 10:10
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CB-3 West

1410162-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Hot Water Extractable

Boron	<1.50	1.50	0.163	mg/kg dry	5	10/20/14	EPA200.7		JGS
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Subcontracted -- **Cardinal Laboratories**

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.004	mg/kg	50	10/17/14	8021B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	10/17/14	8021B		MS
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	10/17/14	8021B		MS
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	10/17/14	8021B		MS
Total BTEX	<0.300	0.300		mg/kg	50	10/17/14	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154 10/17/14 8021B MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	10/17/14	8015B		ms
DRO >C10-C28	16.2	10.0	2.91	mg/kg	1	10/17/14	8015B		ms
EXT DRO >C28-C35	33.1	10.0	2.91	mg/kg	1	10/17/14	8015B		ms

Surrogate: 1-Chlorooctane 103 % 47.2-157 10/17/14 8015B ms

Surrogate: 1-Chlorooctadecane 108 % 52.1-176 10/17/14 8015B ms

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Kinder Morgan
17801 Hwy 491
Cortez CO, 81321

Project: CB-3 Release
Project Name / Number: [none]
Project Manager: Tami Knight

Reported:
10/30/14 10:10

CB-3 West

1410162-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatiles Organic Compounds by GCMS

Naphthalene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
2-Methylnaphthalene	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
1-Methylnaphthalene	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
Acenaphthylene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Acenaphthene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Fluorene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Phenanthrene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Anthracene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Carbazole	<0.040	0.040	0.004	mg/kg	40	10/28/14	8270C		MS
Fluoranthene	<0.040	0.040	0.003	mg/kg	40	10/28/14	8270C		MS
Pyrene	<0.040	0.040	0.003	mg/kg	40	10/28/14	8270C		MS
Benzo[a]anthracene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Chrysene	<0.040	0.040	0.005	mg/kg	40	10/28/14	8270C		MS
Benzo[b]fluoranthene	<0.040	0.040	0.003	mg/kg	40	10/28/14	8270C		MS
Benzo[k]fluoranthene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Benzo[a]pyrene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Indeno[1,2,3-cd]pyrene	<0.040	0.040	0.001	mg/kg	40	10/28/14	8270C		MS
Dibenz[a,h]anthracene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Benzo[g,h,i]perylene	<0.040	0.040	0.001	mg/kg	40	10/28/14	8270C		MS
Surrogate: Nitrobenzene-d5			70.5 %	20.4-109		10/28/14	8270C		MS
Surrogate: 2-Fluorobiphenyl			60.8 %	23.4-133		10/28/14	8270C		MS
Surrogate: Terphenyl-d14			67.5 %	38.4-163		10/28/14	8270C		MS

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: CB-3 Release Project Name / Number: [none] Project Manager: Tami Knight	Reported: 10/30/14 10:10
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CB-3 East

1410162-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	92.0			%	1	10/17/14	EPA160.3		JGS
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Saturated Paste Extraction

Calcium	202	10.0	0.039	mg/L	10	10/22/14	EPA200.7		ICP
Conductivity	2230			umhos/cm	1	10/21/14	ASA#9 10-3.3		ACH
Magnesium	50.2	10.0	0.190	mg/L	10	10/22/14	EPA200.7		ICP
pH	7.62			pH Units	1	10/21/14	ASA#9 12-2.6		ACH
SAR	3.57			[blank]	1	10/22/14	Calculation		ICP
Sodium	219	10.0	0.041	mg/L	10	10/22/14	EPA200.7		ICP

Total Metals by ICP

Barium	246	1.00	0.368	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Cadmium	<5.00	5.00	0.125	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Chromium	8.73	5.00	0.767	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Copper	14.6	2.00	0.603	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Lead	<10.0	10.0	1.95	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Nickel	11.2	5.00	1.27	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Selenium	<20.0	20.0	3.38	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Silver	<5.00	5.00	0.212	mg/kg dry	100	10/20/14	EPA6010 B		JGS
Zinc	49.9	1.00	0.699	mg/kg dry	100	10/20/14	EPA6010 B		JGS

Total Metals by ICPMS

Arsenic	4.22	0.500	0.202	mg/kg dry	1000	10/21/14	6020 A		JGS
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Total Mercury by CVAA

Mercury	<0.103	0.103	0.0193	mg/kg dry	472	10/21/14	EPA7471		JGS
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Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: CB-3 Release Project Name / Number: [none] Project Manager: Tami Knight	Reported: 10/30/14 10:10
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CB-3 East

1410162-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Hot Water Extractable

Boron	<1.50	1.50	0.163	mg/kg dry	5	10/20/14	EPA200.7		JGS
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Subcontracted -- **Cardinal Laboratories**

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.004	mg/kg	50	10/17/14	8021B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	10/17/14	8021B		MS
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	10/17/14	8021B		MS
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	10/17/14	8021B		MS
Total BTEX	<0.300	0.300		mg/kg	50	10/17/14	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154 10/17/14 8021B MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	10/17/14	8015B		ms
DRO >C10-C28	<10.0	10.0	2.91	mg/kg	1	10/17/14	8015B		ms
EXT DRO >C28-C35	<10.0	10.0	2.91	mg/kg	1	10/17/14	8015B		ms

Surrogate: 1-Chlorooctane 113 % 47.2-157 10/17/14 8015B ms

Surrogate: 1-Chlorooctadecane 112 % 52.1-176 10/17/14 8015B ms

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: CB-3 Release Project Name / Number: [none] Project Manager: Tami Knight	Reported: 10/30/14 10:10
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CB-3 East

1410162-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatiles Organic Compounds by GCMS

Naphthalene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
2-Methylnaphthalene	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
1-Methylnaphthalene	<0.040	0.040		mg/kg	40	10/28/14	8270C		MS
Acenaphthylene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Acenaphthene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Fluorene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Phenanthrene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Anthracene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Carbazole	<0.040	0.040	0.004	mg/kg	40	10/28/14	8270C		MS
Fluoranthene	<0.040	0.040	0.003	mg/kg	40	10/28/14	8270C		MS
Pyrene	<0.040	0.040	0.003	mg/kg	40	10/28/14	8270C		MS
Benzo[a]anthracene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Chrysene	<0.040	0.040	0.005	mg/kg	40	10/28/14	8270C		MS
Benzo[b]fluoranthene	<0.040	0.040	0.003	mg/kg	40	10/28/14	8270C		MS
Benzo[k]fluoranthene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Benzo[a]pyrene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Indeno[1,2,3-cd]pyrene	<0.040	0.040	0.001	mg/kg	40	10/28/14	8270C		MS
Dibenz[a,h]anthracene	<0.040	0.040	0.002	mg/kg	40	10/28/14	8270C		MS
Benzo[g,h,i]perylene	<0.040	0.040	0.001	mg/kg	40	10/28/14	8270C		MS
Surrogate: Nitrobenzene-d5			60.6 %	20.4-109		10/28/14	8270C		MS
Surrogate: 2-Fluorobiphenyl			56.7 %	23.4-133		10/28/14	8270C		MS
Surrogate: Terphenyl-d14			66.1 %	38.4-163		10/28/14	8270C		MS

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: CB-3 Release Project Name / Number: [none] Project Manager: Tami Knight	Reported: 10/30/14 10:10
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Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B410201 - Dissolved Metals, E200.7/E200.8

Duplicate (B410201-DUP1)	Source: 1410182-02			Prepared: 10/21/14 Analyzed: 10/22/14		
Calcium	182	10.0	mg/L	164	10.4	20
Magnesium	112	10.0	mg/L	99.0	12.2	20
Sodium	1110	10.0	mg/L	1070	3.51	20

Batch B410215 - General Prep - Wet Chem

Duplicate (B410215-DUP1)	Source: 1410182-02			Prepared & Analyzed: 10/21/14		
Conductivity	5070		umhos/cm	4890	3.61	20
pH	7.62		pH Units	7.62	0.00	20

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: CB-3 Release Project Name / Number: [none] Project Manager: Tami Knight	Reported: 10/30/14 10:10
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Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B410189 - EPA 3050

Blank (B410189-BLK1)

Prepared & Analyzed: 10/20/14

Barium	0.022	0.010	mg/kg dry							B1
Cadmium	ND	0.050	mg/kg dry							
Chromium	ND	0.050	mg/kg dry							
Copper	0.030	0.020	mg/kg dry							B1
Lead	ND	0.100	mg/kg dry							
Nickel	ND	0.050	mg/kg dry							
Selenium	ND	0.200	mg/kg dry							
Silver	ND	0.050	mg/kg dry							
Zinc	ND	0.010	mg/kg dry							

LCS (B410189-BS1)

Prepared & Analyzed: 10/20/14

Barium	1.92	0.010	mg/kg dry	2.00		95.8	85-115			
Cadmium	1.87	0.050	mg/kg dry	2.00		93.6	85-115			
Chromium	1.99	0.050	mg/kg dry	2.00		99.5	85-115			
Copper	4.16	0.020	mg/kg dry	4.00		104	85-115			
Lead	1.96	0.100	mg/kg dry	2.00		98.2	85-115			
Nickel	1.93	0.050	mg/kg dry	2.00		96.7	85-115			
Selenium	7.85	0.200	mg/kg dry	8.00		98.1	85-115			
Silver	0.096	0.050	mg/kg dry	0.100		96.2	85-115			
Zinc	1.87	0.010	mg/kg dry	2.00		93.5	85-115			

LCS Dup (B410189-BSD1)

Prepared & Analyzed: 10/20/14

Barium	1.92	0.010	mg/kg dry	2.00		95.9	85-115	0.0581	20	
Cadmium	1.87	0.050	mg/kg dry	2.00		93.7	85-115	0.150	20	
Chromium	2.00	0.050	mg/kg dry	2.00		99.9	85-115	0.463	20	
Copper	4.18	0.020	mg/kg dry	4.00		104	85-115	0.365	20	
Lead	1.98	0.100	mg/kg dry	2.00		99.0	85-115	0.760	20	
Nickel	1.93	0.050	mg/kg dry	2.00		96.3	85-115	0.378	20	
Selenium	7.88	0.200	mg/kg dry	8.00		98.6	85-115	0.454	20	
Silver	0.096	0.050	mg/kg dry	0.100		96.2	85-115	0.0653	20	
Zinc	1.87	0.010	mg/kg dry	2.00		93.6	85-115	0.145	20	

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: CB-3 Release Project Name / Number: [none] Project Manager: Tami Knight	Reported: 10/30/14 10:10
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Total Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B410196 - EPA 3050M

Blank (B410196-BLK1)										
Prepared: 10/20/14 Analyzed: 10/21/14										
Arsenic	ND	0.0005	mg/kg dry							
LCS (B410196-BS1)										
Prepared: 10/20/14 Analyzed: 10/21/14										
Arsenic	0.0450	0.0005	mg/kg dry	0.0500		90.0	85-115			
LCS Dup (B410196-BSD1)										
Prepared: 10/20/14 Analyzed: 10/21/14										
Arsenic	0.0474	0.0005	mg/kg dry	0.0500		94.8	85-115	5.12	20	

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Total Mercury by CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B410195 - EPA 7471										
Blank (B410195-BLK1)										
Mercury	ND	0.0002	mg/kg wet							Prepared: 10/20/14 Analyzed: 10/21/14
LCS (B410195-BS1)										
Mercury	0.0020	0.0002	mg/kg wet	0.00200		102	85-115			Prepared: 10/20/14 Analyzed: 10/21/14
LCS Dup (B410195-BSD1)										
Mercury	0.0020	0.0002	mg/kg wet	0.00200		99.1	85-115	3.13	20	

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: CB-3 Release Project Name / Number: [none] Project Manager: Tami Knight	Reported: 10/30/14 10:10
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Hot Water Extractable - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B410176 - Hot Water Soluble Metals Extract

Blank (B410176-BLK1)				Prepared & Analyzed: 10/20/14						
Boron	ND	0.300	mg/kg dry							
LCS (B410176-BS1)				Prepared & Analyzed: 10/20/14						
Boron	5.07	0.300	mg/kg dry	5.00		101	85-115			
LCS Dup (B410176-BSD1)				Prepared & Analyzed: 10/20/14						
Boron	5.12	0.300	mg/kg dry	5.00		102	85-115	0.986	20	

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: CB-3 Release Project Name / Number: [none] Project Manager: Tami Knight	Reported: 10/30/14 10:10
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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
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Batch 4101611 - Volatiles

Blank (4101611-BLK1)

Prepared: 10/16/14 Analyzed: 10/17/14

Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	61-154			
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 (4101611-BS1)

Prepared: 10/16/14 Analyzed: 10/17/14

Surrogate: 4-Bromofluorobenzene (PID)	0.0496		mg/kg	0.0500		99.3	61-154			
Benzene	1.74	0.050	mg/kg	2.00		86.8	77.1-114			
Ethylbenzene	1.74	0.050	mg/kg	2.00		87.0	63.5-121			
Toluene	1.73	0.050	mg/kg	2.00		86.6	67-114			
Total Xylenes	5.14	0.150	mg/kg	6.00		85.7	62.4-125			

LCS Dup (4101611-BSD1)

Prepared: 10/16/14 Analyzed: 10/17/14

Surrogate: 4-Bromofluorobenzene (PID)	0.0497		mg/kg	0.0500		99.4	61-154			
Benzene	1.82	0.050	mg/kg	2.00		91.0	77.1-114	4.70	16.4	
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.3	63.5-121	4.74	17	
Toluene	1.81	0.050	mg/kg	2.00		90.7	67-114	4.59	16.2	
Total Xylenes	5.37	0.150	mg/kg	6.00		89.6	62.4-125	4.45	17	

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Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4101702 - General Prep - Organics

Blank (4101702-BLK1)

Prepared & Analyzed: 10/17/14

Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0		104	52.1-176			
Surrogate: 1-Chlorooctane	53.4		mg/kg	50.0		107	47.2-157			
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 (4101702-BS1)

Prepared & Analyzed: 10/17/14

Surrogate: 1-Chlorooctadecane	56.6		mg/kg	50.0		113	52.1-176			
Surrogate: 1-Chlorooctane	57.2		mg/kg	50.0		114	47.2-157			
DRO >C10-C28	198	10.0	mg/kg	200		99.0	81.3-118			
GRO C6-C10	184	10.0	mg/kg	200		91.8	72.5-115			
Total TPH C6-C28	382	10.0	mg/kg	400		95.4	80-113			

LCS Dup (4101702-BSD1)

Prepared & Analyzed: 10/17/14

Surrogate: 1-Chlorooctadecane	65.2		mg/kg	50.0		130	52.1-176			
Surrogate: 1-Chlorooctane	58.6		mg/kg	50.0		117	47.2-157			
DRO >C10-C28	204	10.0	mg/kg	200		102	81.3-118	2.93	15.3	
GRO C6-C10	187	10.0	mg/kg	200		93.4	72.5-115	1.79	10.1	
Total TPH C6-C28	391	10.0	mg/kg	400		97.7	80-113	2.39	12.1	

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: CB-3 Release Project Name / Number: [none] Project Manager: Tami Knight	Reported: 10/30/14 10:10
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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4093003 - SW846-3510

Blank (4093003-BLK1)

Prepared: 09/30/14 Analyzed: 10/13/14

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	1.42		mg/kg	2.00		71.1	23.4-133			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Naphthalene	ND	0.040	mg/kg							
<i>Surrogate: Nitrobenzene-d5</i>	1.59		mg/kg	2.00		79.4	20.4-109			
Phenanthrene	0.045	0.040	mg/kg							B
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	1.78		mg/kg	2.00		89.2	38.4-163			

LCS (4093003-BS1)

Prepared: 09/30/14 Analyzed: 10/13/14

<i>Surrogate: 2-Fluorobiphenyl</i>	1.65		mg/kg	2.00		82.6	23.4-133			
2-Methylnaphthalene	0.386	0.040	mg/kg	0.400		96.5	41.4-151			
Acenaphthene	0.340	0.040	mg/kg	0.400		85.1	39.3-154			
Acenaphthylene	0.336	0.040	mg/kg	0.400		83.9	39.2-150			
Anthracene	0.364	0.040	mg/kg	0.400		91.0	33.5-162			
Benzo[a]anthracene	0.376	0.040	mg/kg	0.400		94.1	28.6-167			
Benzo[a]pyrene	0.392	0.040	mg/kg	0.400		98.0	27.2-163			
Benzo[b]fluoranthene	0.419	0.040	mg/kg	0.400		105	24-168			
Benzo[g,h,i]perylene	0.419	0.040	mg/kg	0.400		105	14.1-172			
Benzo[k]fluoranthene	0.398	0.040	mg/kg	0.400		99.6	28.9-170			
Carbazole	0.378	0.040	mg/kg	0.400		94.5	31.6-163			
Chrysene	0.353	0.040	mg/kg	0.400		88.3	27.7-171			
Dibenz[a,h]anthracene	0.393	0.040	mg/kg	0.400		98.2	19-164			
Fluoranthene	0.415	0.040	mg/kg	0.400		104	38.5-165			

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: CB-3 Release Project Name / Number: [none] Project Manager: Tami Knight	Reported: 10/30/14 10:10
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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4093003 - SW846-3510

LCS (4093003-BS1)

Prepared: 09/30/14 Analyzed: 10/13/14

Fluorene	0.354	0.040	mg/kg	0.400		88.4	40.4-158			
Indeno[1,2,3-cd]pyrene	0.428	0.040	mg/kg	0.400		107	21.9-162			
Naphthalene	0.316	0.040	mg/kg	0.400		78.9	33.8-147			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.84</i>		mg/kg	<i>2.00</i>		<i>91.9</i>	<i>20.4-109</i>			
Phenanthrene	0.440	0.040	mg/kg	0.400		110	34.7-164			
Pyrene	0.391	0.040	mg/kg	0.400		97.7	28-180			
<i>Surrogate: Terphenyl-dl4</i>	<i>1.96</i>		mg/kg	<i>2.00</i>		<i>97.8</i>	<i>38.4-163</i>			

LCS Dup (4093003-BSD1)

Prepared: 09/30/14 Analyzed: 10/13/14

<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.68</i>		mg/kg	<i>2.00</i>		<i>84.0</i>	<i>23.4-133</i>			
2-Methylnaphthalene	0.388	0.040	mg/kg	0.400		97.0	41.4-151	0.527	20	
Acenaphthene	0.339	0.040	mg/kg	0.400		84.7	39.3-154	0.447	20	
Acenaphthylene	0.332	0.040	mg/kg	0.400		82.9	39.2-150	1.12	20	
Anthracene	0.365	0.040	mg/kg	0.400		91.2	33.5-162	0.198	20	
Benzo[a]anthracene	0.371	0.040	mg/kg	0.400		92.8	28.6-167	1.40	20	
Benzo[a]pyrene	0.389	0.040	mg/kg	0.400		97.2	27.2-163	0.784	20	
Benzo[b]fluoranthene	0.436	0.040	mg/kg	0.400		109	24-168	4.11	21.5	
Benzo[g,h,i]perylene	0.404	0.040	mg/kg	0.400		101	14.1-172	3.77	39.3	
Benzo[k]fluoranthene	0.376	0.040	mg/kg	0.400		94.0	28.9-170	5.71	20.5	
Carbazole	0.381	0.040	mg/kg	0.400		95.4	31.6-163	0.882	20	
Chrysene	0.355	0.040	mg/kg	0.400		88.8	27.7-171	0.570	20	
Dibenz[a,h]anthracene	0.377	0.040	mg/kg	0.400		94.1	19-164	4.18	30.5	
Fluoranthene	0.415	0.040	mg/kg	0.400		104	38.5-165	0.0241	20	
Fluorene	0.354	0.040	mg/kg	0.400		88.5	40.4-158	0.0537	20	
Indeno[1,2,3-cd]pyrene	0.409	0.040	mg/kg	0.400		102	21.9-162	4.41	32.1	
Naphthalene	0.317	0.040	mg/kg	0.400		79.3	33.8-147	0.496	20	
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.90</i>		mg/kg	<i>2.00</i>		<i>95.0</i>	<i>20.4-109</i>			
Phenanthrene	0.440	0.040	mg/kg	0.400		110	34.7-164	0.175	20	
Pyrene	0.390	0.040	mg/kg	0.400		97.6	28-180	0.156	20	
<i>Surrogate: Terphenyl-dl4</i>	<i>1.98</i>		mg/kg	<i>2.00</i>		<i>98.8</i>	<i>38.4-163</i>			

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: CB-3 Release Project Name / Number: [none] Project Manager: Tami Knight	Reported: 10/30/14 10:10
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Notes and Definitions

- B1 Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.
- B Analyte is found in the associated blank as well as in the sample (CLP B-flag).
- 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)
- RL Report Limit
- MDL Method Detection Limit

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Green Analytical Laboratories

CHAIN OF CUSTODY RECORD

Page 1 of 1

Client: Kinder Morgan CO2

Contact: Tami Knight

Address: 17801 Hwy 491

Corte2, CO 81321

Phone Number: 970-882-5520

Email: tami_knight@kindermorgan.com

NOTES:

- 1) Ensure proper container packaging.
- 2) Ship samples promptly following collection.
- 3) Designate Sample Reject Disposition.

PO#

Project Name: CB-3 Release

Table 1. - Matrix Type
 1 = Surface Water, 2 = Ground Water
 3 = Soil/Sediment, 4 = Rinsate, 5 = Oil
 6 = Waste, 7 = Other (Specify)

FOR GAL USE ONLY
 GAL JOB #
1410-162

Samplers Signature: Tami Knight

Lab Name: Green Analytical Laboratories

(970) 247-4220 FAX (970) 247-4227

Address: 75 Suttle Street, Durango, CO 81303

www.greenanalytical.com

Analyses Required

Sample ID	Date	Time	Collected by: (Init.)	Miscellaneous			Preservative(s)				Comments	
				Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HNO3	HCL	H2SO4		NAOH
1. CB-3 West	10/15/14	1121	TK	SOIL	3	2	✓					10°C #18 on ice
2. CB-3 East	10/15/14	1141	TK	SOIL	3	2	✓					TABLE 910-1
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

Relinquished by: Tami Knight Date: 10/15/14 Time: 1453
 Received by: Michael Juvante Date: 10-15-14 Time: 1415

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

- e. Operators shall notify the local emergency dispatch or the local governmental designee of any natural gas flaring. Notice shall be given prior to flaring when flaring can be reasonably anticipated, or as soon as possible, but in no event more than two (2) hours after the flaring occurs.

Table 910-1
CONCENTRATION
LEVELS¹

Contaminant of Concern	Concentrations
Organic Compounds in Soil	
TPH (total volatile and extractable petroleum hydrocarbons)	500 mg/kg
Benzene	0.17 mg/kg ²
Toluene	85 mg/kg ²
Ethylbenzene	100 mg/kg ²
Xylenes (total)	175 mg/kg ²
Acenaphthene	1,000 mg/kg ²
Anthracene	1,000 mg/kg ²
Benz(a)anthracene	0.22 mg/kg ²
Benzo(b)fluoranthene	0.22 mg/kg ²
Benzo(k)fluoranthene	2.2 mg/kg ²
Benzo(a)pyrene	0.022 mg/kg ²
Chrysene	22 mg/kg ²
Dibenzo(a,h)anthracene	0.022 mg/kg ²
Fluoranthene	1,000 mg/kg ²
Fluorene	1,000 mg/kg ²
Indeno(1,2,3,c,d)pyrene	0.22 mg/kg ²
Naphthalene	23 mg/kg ²
Pyrene	1,000 mg/kg ²
Organic Compounds in Ground Water	
Benzene	5 µg/l ³
Toluene	560 to 1,000 µg/l ³
Ethylbenzene	700 µg/l ³
Xylenes (Total)	1,400 to 10,000 µg/l ^{3,4}
Inorganics in Soils	
Electrical Conductivity (EC)	<4 mmhos/cm or 2x background
Sodium Adsorption Ratio (SAR)	<12 ⁵
pH	6-9
Inorganics in Ground Water	
Total Dissolved Solids (TDS)	<1.25 x background ³
Chlorides	<1.25 x background ³
Sulfates	<1.25 x background ³
Metals in Soils	
Arsenic	0.39 mg/kg ²
Barium (LDNR True Total Barium)	15,000 mg/kg ²
Boron (Hot Water Soluble)	2 mg/l ³
Cadmium	70 mg/kg ^{3,6}
Chromium (III)	120,000 mg/kg ²
Chromium (VI)	23 mg/kg ^{2,6}
Copper	3,100 mg/kg ²
Lead (inorganic)	400 mg/kg ²
Mercury	23 mg/kg ²
Nickel (soluble salts)	1,600 mg/kg ^{2,6}
Selenium	390 mg/kg ^{2,6}