



75 Suttle Street  
Durango, CO 81303  
970.247.4220 Phone  
970.247.4227 Fax  
[www.greenanalytical.com](http://www.greenanalytical.com)

12 October 2012

Grant Gibbons  
Kinder Morgan  
17801 Hwy 491  
Cortez, CO 81321  
RE: Table 910; VOC, CI

Enclosed are the results of analyses for samples received by the laboratory on 10/05/12 15:50. The data to follow was performed, in whole or in part, by a subcontract laboratory with an additional report attached.

If you any 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



Kinder Morgan  
17801 Hwy 491  
Cortez CO, 81321

Project: Table 910; VOC, CI  
Project Name / Number: McElmo Dome Field Unit Drilling Dept.  
Project Manager: Grant Gibbons

Reported:  
10/12/12 11:24

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
KM/ CA-4	1210059-01	Solid	10/01/12 07:00	10/05/12 15:50
KM/ CB-4	1210059-02	Solid	10/01/12 09:38	10/05/12 15:50
KM/ CC-4	1210059-03	Solid	10/01/12 13:30	10/05/12 15:50

Green Analytical Laboratories

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.



Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910; VOC, CI Project Name / Number: McElmo Dome Field Unit Drilling Dept. Project Manager: Grant Gibbons	Reported: 10/12/12 11:24
--	---	-----------------------------

**KM/ CA-4**

**1210059-01 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

**General Chemistry**

% Dry Solids	83.4			%	1	10/08/12	160.3/D2216	H2	ABP
--------------	------	--	--	---	---	----------	-------------	----	-----

**Soluble (DI Water Extraction)**

Chloride	40500	2000	1000	mg/kg dry	200	10/09/12	4500CI- C		ABP
----------	-------	------	------	-----------	-----	----------	-----------	--	-----

**Saturated Paste Extraction**

Calcium	2530	100	0.658	mg/kg dry	100	10/11/12	200.7		JGS
Conductivity	2520			umhos/cm	1	10/10/12	ASA#9 10-3.3		ACH
Magnesium	<100	100	2.07	mg/kg dry	100	10/11/12	200.7		JGS
pH	9.10			pH Units	1	10/10/12	ASA#9 12-2.6		ACH
SAR	353			[blank]	1	10/11/12	Calculation		JGS
Sodium	65400	100	2.34	mg/kg dry	100	10/11/12	200.7		JGS

**Total Metals by ICP**

Barium	249	1.00	0.279	mg/kg dry	100	10/09/12	6010B		JGS
Cadmium	<5.00	5.00	0.125	mg/kg dry	100	10/09/12	6010B		JGS
Chromium	40.5	5.00	0.330	mg/kg dry	100	10/09/12	6010B		JGS
Copper	56.5	2.00	0.969	mg/kg dry	100	10/09/12	6010B		JGS
Lead	<10.0	10.0	3.16	mg/kg dry	100	10/09/12	6010B		JGS
Nickel	29.7	5.00	1.79	mg/kg dry	100	10/09/12	6010B		JGS
Selenium	<20.0	20.0	3.48	mg/kg dry	100	10/09/12	6010B		JGS
Silver	<5.00	5.00	0.105	mg/kg dry	100	10/09/12	6010B		JGS
Zinc	208	5.00	0.234	mg/kg dry	100	10/09/12	6010B		JGS

**Total Metals by ICPMS**

Arsenic	4.64	0.0500	0.0230	mg/kg dry	100	10/10/12	6020A		JGS
---------	------	--------	--------	-----------	-----	----------	-------	--	-----

Green Analytical Laboratories

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.



Kinder Morgan  
17801 Hwy 491  
Cortez CO, 81321

Project: Table 910; VOC, CI  
Project Name / Number: McElmo Dome Field Unit Drilling Dept.  
Project Manager: Grant Gibbons

Reported:  
10/12/12 11:24

**KM/ CA-4**

**1210059-01 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

**Total Mercury by CVAA**

Mercury	<0.0990	0.0990		mg/kg dry dry	495	10/10/12	7471		JGS
---------	---------	--------	--	---------------	-----	----------	------	--	-----

**Hot Water Extractable**

Boron	<7.50	7.50	2.50	mg/kg dry	25	10/11/12	200.7		JGS
-------	-------	------	------	-----------	----	----------	-------	--	-----

Green Analytical Laboratories

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.



Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910; VOC, CI Project Name / Number: McElmo Dome Field Unit Drilling Dept. Project Manager: Grant Gibbons	Reported: 10/12/12 11:24
--	---	-----------------------------

**KM/ CB-4**

**1210059-02 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

**General Chemistry**

% Dry Solids	78.5			%	1	10/08/12	160.3/D2216	H2	ABP
--------------	------	--	--	---	---	----------	-------------	----	-----

**Soluble (DI Water Extraction)**

Chloride	51400	4000	2000	mg/kg dry	400	10/09/12	4500Cl- C		ABP
----------	-------	------	------	-----------	-----	----------	-----------	--	-----

**Saturated Paste Extraction**

Calcium	2630	100	0.658	mg/kg dry	100	10/11/12	200.7		JGS
Conductivity	2620			umhos/cm	1	10/10/12	ASA#9 10-3.3		ACH
Magnesium	<100	100	2.07	mg/kg dry	100	10/11/12	200.7		JGS
pH	9.65			pH Units	1	10/10/12	ASA#9 12-2.6		ACH
SAR	382			[blank]	1	10/11/12	Calculation		JGS
Sodium	71300	100	2.34	mg/kg dry	100	10/11/12	200.7		JGS

**Total Metals by ICP**

Barium	236	1.00	0.279	mg/kg dry	100	10/09/12	6010B		JGS
Cadmium	<5.00	5.00	0.125	mg/kg dry	100	10/09/12	6010B		JGS
Chromium	42.5	5.00	0.330	mg/kg dry	100	10/09/12	6010B		JGS
Copper	59.3	2.00	0.969	mg/kg dry	100	10/09/12	6010B		JGS
Lead	<10.0	10.0	3.16	mg/kg dry	100	10/09/12	6010B		JGS
Nickel	31.0	5.00	1.79	mg/kg dry	100	10/09/12	6010B		JGS
Selenium	<20.0	20.0	3.48	mg/kg dry	100	10/09/12	6010B		JGS
Silver	<5.00	5.00	0.105	mg/kg dry	100	10/09/12	6010B		JGS
Zinc	272	5.00	0.234	mg/kg dry	100	10/09/12	6010B		JGS

**Total Metals by ICPMS**

Arsenic	4.28	0.0500	0.0230	mg/kg dry	100	10/10/12	6020A		JGS
---------	------	--------	--------	-----------	-----	----------	-------	--	-----

Green Analytical Laboratories

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.



Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910; VOC, CI Project Name / Number: McElmo Dome Field Unit Drilling Dept. Project Manager: Grant Gibbons	<b>Reported:</b> 10/12/12 11:24
--	---	------------------------------------

**KM/ CB-4**

**1210059-02 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

**Total Mercury by CVAA**

Mercury	<0.100	0.100		mg/kg dry dry	500	10/10/12	7471		JGS
---------	--------	-------	--	---------------	-----	----------	------	--	-----

**Hot Water Extractable**

Boron	<7.50	7.50	2.50	mg/kg dry	25	10/11/12	200.7		JGS
-------	-------	------	------	-----------	----	----------	-------	--	-----

Green Analytical Laboratories

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.



Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910; VOC, CI Project Name / Number: McElmo Dome Field Unit Drilling Dept. Project Manager: Grant Gibbons	Reported: 10/12/12 11:24
--	---	-----------------------------

**KM/ CC-4**

**1210059-03 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

**General Chemistry**

% Dry Solids	67.0			%	1	10/08/12	160.3/D2216	H2	ABP
--------------	------	--	--	---	---	----------	-------------	----	-----

**Soluble (DI Water Extraction)**

Chloride	37600	4000	2000	mg/kg dry	400	10/09/12	4500Cl- C		ABP
----------	-------	------	------	-----------	-----	----------	-----------	--	-----

**Saturated Paste Extraction**

Calcium	2240	100	0.658	mg/kg dry	100	10/12/12	200.7		JGS
Conductivity	130000			umhos/cm	1	10/10/12	ASA#9 10-3.3		ACH
Magnesium	<100	100	2.07	mg/kg dry	100	10/12/12	200.7		JGS
pH	10.4			pH Units	1	10/10/12	ASA#9 12-2.6		ACH
SAR	170			[blank]	1	10/12/12	Calculation		JGS
Sodium	29200	100	2.34	mg/kg dry	100	10/12/12	200.7		JGS

**Total Metals by ICP**

Barium	185	1.00	0.279	mg/kg dry	100	10/09/12	6010B		JGS
Cadmium	<5.00	5.00	0.125	mg/kg dry	100	10/09/12	6010B		JGS
Chromium	73.3	5.00	0.330	mg/kg dry	100	10/09/12	6010B		JGS
Copper	76.5	2.00	0.969	mg/kg dry	100	10/09/12	6010B		JGS
Lead	<10.0	10.0	3.16	mg/kg dry	100	10/09/12	6010B		JGS
Nickel	25.7	5.00	1.79	mg/kg dry	100	10/09/12	6010B		JGS
Selenium	<20.0	20.0	3.48	mg/kg dry	100	10/09/12	6010B		JGS
Silver	<5.00	5.00	0.105	mg/kg dry	100	10/09/12	6010B		JGS
Zinc	326	5.00	0.234	mg/kg dry	100	10/09/12	6010B		JGS

**Total Metals by ICPMS**

Arsenic	3.14	0.0500	0.0230	mg/kg dry	100	10/10/12	6020A		JGS
---------	------	--------	--------	-----------	-----	----------	-------	--	-----

Green Analytical Laboratories

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.



Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910; VOC, CI Project Name / Number: McElmo Dome Field Unit Drilling Dept. Project Manager: Grant Gibbons	<b>Reported:</b> 10/12/12 11:24
--	---	------------------------------------

**KM/ CC-4**

**1210059-03 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

**Total Mercury by CVAA**

Mercury	<0.0980	0.0980		mg/kg dry dry	490	10/10/12	7471		JGS
---------	---------	--------	--	---------------	-----	----------	------	--	-----

**Hot Water Extractable**

Boron	<7.50	7.50	2.50	mg/kg dry	25	10/12/12	200.7		JGS
-------	-------	------	------	-----------	----	----------	-------	--	-----

Green Analytical Laboratories

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.



Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910; VOC, CI Project Name / Number: McElmo Dome Field Unit Drilling Dept. Project Manager: Grant Gibbons	Reported: 10/12/12 11:24
--	---	-----------------------------

**Soluble (DI Water Extraction) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B210082 - General Prep - Wet Chem**

**Blank (B210082-BLK1)**

Prepared & Analyzed: 10/09/12

Chloride ND 10.0 mg/kg wet

**LCS (B210082-BS1)**

Prepared & Analyzed: 10/09/12

Chloride 98.0 10.0 mg/kg wet 100 98.0 85-115

**LCS Dup (B210082-BSD1)**

Prepared & Analyzed: 10/09/12

Chloride 97.0 10.0 mg/kg wet 100 97.0 85-115 1.03 20

Green Analytical Laboratories

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.



Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910; VOC, CI Project Name / Number: McElmo Dome Field Unit Drilling Dept. Project Manager: Grant Gibbons	Reported: 10/12/12 11:24
--	---	-----------------------------

**Total Metals by ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B210075 - EPA 3050**

**Blank (B210075-BLK1)**

Prepared & Analyzed: 10/09/12

Barium	ND	0.010	mg/kg dry
Cadmium	ND	0.050	mg/kg dry
Chromium	ND	0.050	mg/kg dry
Copper	ND	0.020	mg/kg dry
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	0.050	mg/kg dry

**Blank (B210075-BLK2)**

Prepared & Analyzed: 10/09/12

Barium	ND	0.010	mg/kg dry
Cadmium	ND	0.050	mg/kg dry
Chromium	ND	0.050	mg/kg dry
Copper	ND	0.020	mg/kg dry
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	0.050	mg/kg dry

**LCS (B210075-BS1)**

Prepared & Analyzed: 10/09/12

Barium	1.93	0.010	mg/kg dry	2.00	96.4	85-115
Cadmium	1.97	0.050	mg/kg dry	2.00	98.4	85-115
Chromium	1.98	0.050	mg/kg dry	2.00	99.0	85-115
Copper	3.81	0.020	mg/kg dry	4.00	95.3	85-115
Lead	2.02	0.100	mg/kg dry	2.00	101	85-115
Nickel	1.90	0.050	mg/kg dry	2.00	95.0	85-115
Selenium	7.71	0.200	mg/kg dry	8.00	96.4	85-115
Silver	0.095	0.050	mg/kg dry	0.100	95.4	85-115
Zinc	1.91	0.050	mg/kg dry	2.00	95.3	85-115

Green Analytical Laboratories

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.



Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910; VOC, CI Project Name / Number: McElmo Dome Field Unit Drilling Dept. Project Manager: Grant Gibbons	Reported: 10/12/12 11:24
--	---	-----------------------------

**Total Metals by ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B210075 - EPA 3050**

**LCS Dup (B210075-BSD1)**

Prepared & Analyzed: 10/09/12

Barium	1.95	0.010	mg/kg dry	2.00		97.4	85-115	0.955	20	
Cadmium	1.98	0.050	mg/kg dry	2.00		99.1	85-115	0.746	20	
Chromium	2.00	0.050	mg/kg dry	2.00		99.8	85-115	0.870	20	
Copper	3.83	0.020	mg/kg dry	4.00		95.8	85-115	0.537	20	
Lead	2.02	0.100	mg/kg dry	2.00		101	85-115	0.00571	20	
Nickel	1.90	0.050	mg/kg dry	2.00		95.2	85-115	0.249	20	
Selenium	7.70	0.200	mg/kg dry	8.00		96.3	85-115	0.108	20	
Silver	0.097	0.050	mg/kg dry	0.100		97.3	85-115	1.89	20	
Zinc	1.92	0.050	mg/kg dry	2.00		95.9	85-115	0.690	20	

Green Analytical Laboratories

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.



Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910; VOC, CI Project Name / Number: McElmo Dome Field Unit Drilling Dept. Project Manager: Grant Gibbons	Reported: 10/12/12 11:24
--	---	-----------------------------

**Total Metals by ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B210091 - EPA 3050M**

<b>Blank (B210091-BLK1)</b>										
Prepared & Analyzed: 10/10/12										
Arsenic	ND	0.0005	mg/kg dry							
<b>LCS (B210091-BS1)</b>										
Prepared & Analyzed: 10/10/12										
Arsenic	0.0514	0.0005	mg/kg dry	0.0500		103	85-115			
<b>LCS Dup (B210091-BSD1)</b>										
Prepared & Analyzed: 10/10/12										
Arsenic	0.0509	0.0005	mg/kg dry	0.0500		102	85-115	0.803	20	

Green Analytical Laboratories

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.



Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910; VOC, CI Project Name / Number: McElmo Dome Field Unit Drilling Dept. Project Manager: Grant Gibbons	Reported: 10/12/12 11:24
--	---	-----------------------------

**Total Mercury by CVAA - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B210094 - EPA 7471**

**Blank (B210094-BLK1)**

Prepared & Analyzed: 10/10/12

Mercury	ND	0.0002	mg/kg dry wet							
---------	----	--------	---------------	--	--	--	--	--	--	--

**LCS (B210094-BS1)**

Prepared & Analyzed: 10/10/12

Mercury	0.0021	0.0002	mg/kg dry wet	0.00200		103	85-115			
---------	--------	--------	---------------	---------	--	-----	--------	--	--	--

Green Analytical Laboratories

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.



Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910; VOC, CI Project Name / Number: McElmo Dome Field Unit Drilling Dept. Project Manager: Grant Gibbons	Reported: 10/12/12 11:24
--	---	-----------------------------

**Hot Water Extractable - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B210116 - Hot Water Soluble Metals Extract**

<b>Blank (B210116-BLK1)</b>				Prepared & Analyzed: 10/11/12						
Boron	ND	0.300	mg/kg dry							
<b>LCS (B210116-BS1)</b>				Prepared & Analyzed: 10/11/12						
Boron	4.71	0.300	mg/kg dry	5.00		94.3	85-115			
<b>LCS Dup (B210116-BSD1)</b>				Prepared & Analyzed: 10/11/12						
Boron	4.61	0.300	mg/kg dry	5.00		92.3	85-115	2.15	20	

Green Analytical Laboratories

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.



Kinder Morgan  
17801 Hwy 491  
Cortez CO, 81321

Project: Table 910; VOC, CI  
Project Name / Number: McElmo Dome Field Unit Drilling Dept.  
Project Manager: Grant Gibbons

Reported:  
10/12/12 11:24

Notes and Definitions

- Q1 Sample received outside of acceptable temperature range for analyses requiring cold storage.
- H2 Sample analysis performed past hold time.
- 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

Green Analytical Laboratories

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.

# POLLUTION CONTROL SERVICES

## MULTIPLE SAMPLE ANALYSIS REQUEST AND CHAIN OF CUSTODY FORM

1210-059  
Chain of Custody Number  
002-13

Name: Kinder Moege Air Cor REPORT INFORMATION TO: GRAAT Gibbons 850-321-6681  
Attention: GRAAT Gibbons Phone: 850-321-6681 Fax: 850-321-6681

Project Information: Mexlmo Dome Fieldcraft Drilling Dept.  
Report "Soils"  As Is  Dry Wt.  
Collected By: GRAAT Gibbons Requested Analysis: COGCC Table 910-1 VOC chloride

Client / Field Sample ID	Collected		Field Chlorine Residual mg/L	Composite or Grab	Matrix DW-Drinking Water; NPW-Non-potable water; WW-Wastewater; LW-Liquid Waste	Type	Number	Preservative	Requested Analysis	Instructions/Comments:
	Date	Time								
01 KM/CA-4	10/01/12	0700		<input checked="" type="checkbox"/> C	<input checked="" type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW	<input checked="" type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O	3	<input checked="" type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>	X	KM/CA-4 PCS Sample Number
02 KM/CB-4	10/01/12	0938		<input checked="" type="checkbox"/> C	<input checked="" type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW	<input checked="" type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O	3	<input checked="" type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>	X	KM/CB-4
03 KM/CC-4	10/01/12	1330		<input checked="" type="checkbox"/> C	<input checked="" type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW	<input checked="" type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O	3	<input checked="" type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>	X	KM/CC-4
	Start	Start		<input type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>		
	End	End		<input type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>		
	Start	Start		<input type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>		
	End	End		<input type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>		
	Start	Start		<input type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>		
	End	End		<input type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> LW	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O		<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/>		

Required Turnaround:  Routine (6-10 days)  EXPEDITE: (See Surcharge Schedule)  < 8 Hrs.  < 16 Hrs.  5 days  Other: \_\_\_\_\_  
Rush Charges Authorized by: \_\_\_\_\_

Sample Archive/Disposal:  Laboratory Standard  Hold for client pick up  
Relinquished By: \_\_\_\_\_ Date: 10/01/12 Time: 1550  
Carrier ID: 3218 Date: 10-5-12 Time: 1550

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received By: Michael Vukobratovic Date: \_\_\_\_\_ Time: \_\_\_\_\_

Multiple Sample COC 20110204

15321 Universal City Blvd., Ste. 100, Universal City, Texas 78148  
P (210) 340-0343 or (800) 880-4616 - F (210) 658-7903

*Client requested phone call when analysis is done. @ 9:50 am via #18 Day TAT*

© 2011 Pollution Control Services - All rights reserved  
Login at [www.pcslab.net](http://www.pcslab.net)  
TCEQ NEI.LAP T104704361-1X

October 12, 2012

Debbie Zufelt

Green Analytical Laboratories

75 Suttle Street

Durango, CO 81303

RE: KINDER MORGAN

Enclosed are the results of analyses for samples received by the laboratory on 10/09/12 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/09/2012	Sampling Date:	10/01/2012
Reported:	10/12/2012	Sampling Type:	Soil
Project Name:	KINDER MORGAN	Sampling Condition:	Cool & Intact
Project Number:	1210-059-01-03	Sample Received By:	Jodi Henson
Project Location:	KINDER MORGAN		

**Sample ID: KM / CA - 4 (H202460-01)**

PAH 8270C	mg/kg	Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Naphthalene</b>	<b>0.094</b>	0.040	10/11/2012	ND	0.450	90.1	0.500	0.753	
<b>2-Methylnaphthalene</b>	<b>0.302</b>	0.040	10/11/2012	ND	0.481	96.2	0.500	3.31	
1-Methylnaphthalene	<0.040	0.040	10/11/2012	ND					
Acenaphthylene	<0.040	0.040	10/11/2012	ND	0.488	97.6	0.500	2.45	
Acenaphthene	<0.040	0.040	10/11/2012	ND	0.497	99.4	0.500	2.76	
Fluorene	<0.040	0.040	10/11/2012	ND	0.513	103	0.500	0.989	
<b>Phenanthrene</b>	<b>0.067</b>	0.040	10/11/2012	ND	0.521	104	0.500	3.43	
Anthracene	<0.040	0.040	10/11/2012	ND	0.530	106	0.500	2.13	
Carbazole	<0.040	0.040	10/11/2012	ND	0.617	123	0.500	11.7	
Fluoranthene	<0.040	0.040	10/11/2012	ND	0.572	114	0.500	4.52	
Pyrene	<0.040	0.040	10/11/2012	ND	0.484	96.9	0.500	21.7	
Benzo[a]anthracene	<0.040	0.040	10/11/2012	ND	0.526	105	0.500	1.15	
Chrysene	<0.040	0.040	10/11/2012	ND	0.540	108	0.500	1.19	
Benzo[b]flouranthene	<0.040	0.040	10/11/2012	ND	0.601	120	0.500	3.98	
Benzo[k]flouranthene	<0.040	0.040	10/11/2012	ND	0.597	119	0.500	7.23	
Benzo[a]pyrene	<0.040	0.040	10/11/2012	ND	0.638	128	0.500	5.16	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	10/11/2012	ND	0.607	121	0.500	4.67	
Dibenz[a,h]anthracene	<0.040	0.040	10/11/2012	ND	0.603	121	0.500	5.53	
Benzo[g,h,i]perylene	<0.040	0.040	10/11/2012	ND	0.563	113	0.500	3.65	

Surrogate: Nitrobenzene-d5                      81.9 %                      16.1-91.8  
 Surrogate: 2-Fluorobiphenyl                      71.7 %                      27.2-92.9

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/09/2012	Sampling Date:	10/01/2012
Reported:	10/12/2012	Sampling Type:	Soil
Project Name:	KINDER MORGAN	Sampling Condition:	Cool & Intact
Project Number:	1210-059-01-03	Sample Received By:	Jodi Henson
Project Location:	KINDER MORGAN		

**Sample ID: KM / CA - 4 (H202460-01)**

PAH 8270C		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<i>Surrogate: Terphenyl-d14</i>	70.2 %	21.3-96.1							

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/09/2012	ND	183	91.6	200	1.21	
DRO >C10-C28	<10.0	10.0	10/09/2012	ND	179	89.5	200	1.93	
EXT DRO >C28-C35	<10.0	10.0	10/09/2012	ND					
<i>Surrogate: 1-Chlorooctane</i>	90.1 %	65.2-140							
<i>Surrogate: 1-Chlorooctadecane</i>	91.0 %	63.6-154							

Volatile 8260		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Dichlorodifluoromethane*	<0.050	0.050	10/10/2012	ND	0.607	48.6	1.25	53.8	
Chloromethane*	<0.050	0.050	10/10/2012	ND	0.784	62.8	1.25	15.8	
Vinyl chloride*	<0.050	0.050	10/10/2012	ND	0.965	77.2	1.25	25.8	
Bromomethane*	<0.050	0.050	10/10/2012	ND	0.208	16.6	1.25	18.7	
Chloroethane*	<0.050	0.050	10/10/2012	ND	0.182	14.5	1.25	16.7	
Trichlorofluoromethane*	<0.050	0.050	10/10/2012	ND	0.350	28.0	1.25	31.1	
1,1-Dichloroethene*	<0.050	0.050	10/10/2012	ND	1.51	120	1.25	24.8	
Carbon disulfide*	<0.050	0.050	10/10/2012	ND	1.28	102	1.25	23.4	
Iodomethane	<0.050	0.050	10/10/2012	ND	1.43	114	1.25	12.7	
Acrolein*	<2.50	2.50	10/10/2012	ND	5.78	92.5	6.25	4.45	
<b>Methylene chloride*</b>	<b>0.075</b>	0.050	10/10/2012	ND	1.21	96.7	1.25	6.94	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/09/2012	Sampling Date:	10/01/2012
Reported:	10/12/2012	Sampling Type:	Soil
Project Name:	KINDER MORGAN	Sampling Condition:	Cool & Intact
Project Number:	1210-059-01-03	Sample Received By:	Jodi Henson
Project Location:	KINDER MORGAN		

**Sample ID: KM / CA - 4 (H202460-01)**

Analyte	Volatile 8260		Analyzed By: ms						
	mg/kg	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Acetone*	<0.250	0.250	10/10/2012	ND	1.37	110	1.25	9.93	
trans-1,2-Dichloroethene*	<0.050	0.050	10/10/2012	ND	1.33	106	1.25	13.0	
Methyl t-Butyl Ether*	<0.050	0.050	10/10/2012	ND	1.45	116	1.25	4.00	
1,1-Dichloroethane*	<0.050	0.050	10/10/2012	ND	1.28	102	1.25	9.99	
Acrylonitrile*	<0.050	0.050	10/10/2012	ND	1.28	102	1.25	5.26	
Vinyl acetate*	<0.250	0.250	10/10/2012	ND	1.17	93.7	1.25	6.84	
cis-1,2-Dichloroethene*	<0.050	0.050	10/10/2012	ND	1.38	110	1.25	7.86	
2,2-Dichloropropane*	<0.050	0.050	10/10/2012	ND	1.29	104	1.25	15.7	
Bromochloromethane*	<0.050	0.050	10/10/2012	ND	1.22	97.5	1.25	5.63	
Chloroform*	<0.050	0.050	10/10/2012	ND	1.16	93.1	1.25	8.47	
Carbon tetrachloride*	<0.050	0.050	10/10/2012	ND	1.35	108	1.25	17.8	
1,1,1-Trichloroethane*	<0.050	0.050	10/10/2012	ND	1.33	106	1.25	16.5	
1,1-Dichloropropene*	<0.050	0.050	10/10/2012	ND	1.50	120	1.25	18.5	
2-Butanone*	<0.250	0.250	10/10/2012	ND	1.34	108	1.25	7.48	
<b>Benzene*</b>	<b>0.142</b>	0.050	10/10/2012	ND	1.30	104	1.25	10.6	
1,2-Dichloroethane*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	5.93	
Trichloroethene*	<0.050	0.050	10/10/2012	ND	1.37	109	1.25	11.9	
Dibromomethane*	<0.050	0.050	10/10/2012	ND	1.20	95.8	1.25	5.28	
1,2-Dichloropropane*	<0.050	0.050	10/10/2012	ND	1.32	106	1.25	7.39	
Bromodichloromethane*	<0.050	0.050	10/10/2012	ND	1.21	96.6	1.25	7.55	
cis-1,3-Dichloropropene*	<0.050	0.050	10/10/2012	ND	1.22	97.3	1.25	6.93	
<b>Toluene*</b>	<b>0.686</b>	0.050	10/10/2012	ND	1.32	106	1.25	10.2	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/09/2012	Sampling Date:	10/01/2012
Reported:	10/12/2012	Sampling Type:	Soil
Project Name:	KINDER MORGAN	Sampling Condition:	Cool & Intact
Project Number:	1210-059-01-03	Sample Received By:	Jodi Henson
Project Location:	KINDER MORGAN		

**Sample ID: KM / CA - 4 (H202460-01)**

Volatile 8260		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
4-Methyl-2-pentanone*	<0.250	0.250	10/10/2012	ND	1.15	92.1	1.25	5.62	
Tetrachloroethene*	<0.050	0.050	10/10/2012	ND	1.28	103	1.25	14.1	
trans-1,3-Dichloropropene*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	6.23	
1,1,2-Trichloroethane*	<0.050	0.050	10/10/2012	ND	1.15	92.0	1.25	5.16	
Dibromochloromethane*	<0.050	0.050	10/10/2012	ND	1.15	92.0	1.25	7.35	
1,3-Dichloropropane*	<0.050	0.050	10/10/2012	ND	1.24	98.8	1.25	7.43	
1,2-Dibromoethane*	<0.050	0.050	10/10/2012	ND	1.22	97.7	1.25	6.43	
2-Hexanone*	<0.250	0.250	10/10/2012	ND	1.16	92.9	1.25	5.49	
Chlorobenzene*	<0.050	0.050	10/10/2012	ND	1.24	99.3	1.25	7.93	
<b>Ethylbenzene*</b>	<b>0.084</b>	0.050	10/10/2012	ND	1.39	111	1.25	10.8	
1,1,1,2-Tetrachloroethane*	<0.050	0.050	10/10/2012	ND	1.17	93.9	1.25	7.38	
<b>m+p - Xylene*</b>	<b>0.741</b>	0.100	10/10/2012	ND	2.40	96.1	2.50	9.98	
<b>o-Xylene*</b>	<b>0.241</b>	0.050	10/10/2012	ND	1.25	100	1.25	8.35	
<b>Total Xylenes*</b>	<b>0.982</b>	0.150	10/10/2012	ND	3.65	97.4	3.75	9.42	
Bromoform*	<0.050	0.050	10/10/2012	ND	1.07	85.9	1.25	8.25	
Styrene*	<0.050	0.050	10/10/2012	ND	1.18	94.1	1.25	7.73	
<b>Isopropylbenzene*</b>	<b>0.125</b>	0.050	10/10/2012	ND	1.27	101	1.25	11.2	
Bromobenzene*	<0.050	0.050	10/10/2012	ND	1.22	97.6	1.25	6.55	
<b>n-Propylbenzene*</b>	<b>0.132</b>	0.050	10/10/2012	ND	1.24	99.4	1.25	10.7	
1,1,1,2-Tetrachloroethane*	<0.050	0.050	10/10/2012	ND	1.07	85.8	1.25	5.48	
2-Chlorotoluene*	<0.050	0.050	10/10/2012	ND	1.22	97.9	1.25	7.77	
1,2,3-trichloropropane*	<0.050	0.050	10/10/2012	ND	1.03	82.3	1.25	5.84	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/09/2012	Sampling Date:	10/01/2012
Reported:	10/12/2012	Sampling Type:	Soil
Project Name:	KINDER MORGAN	Sampling Condition:	Cool & Intact
Project Number:	1210-059-01-03	Sample Received By:	Jodi Henson
Project Location:	KINDER MORGAN		

**Sample ID: KM / CA - 4 (H202460-01)**

Volatile 8260		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>1,3,5-Trimethylbenzene*</b>	<b>0.211</b>	0.050	10/10/2012	ND	1.22	97.2	1.25	8.53	
trans-1,4-Dichloro-2-butene	<0.050	0.050	10/10/2012	ND	0.828	66.3	1.25	8.17	
4-Chlorotoluene*	<0.050	0.050	10/10/2012	ND	1.22	97.3	1.25	7.50	
tert-Butylbenzene*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	9.84	
<b>1,2,4-Trimethylbenzene*</b>	<b>0.376</b>	0.050	10/10/2012	ND	1.21	96.8	1.25	7.65	
<b>sec-Butylbenzene*</b>	<b>0.119</b>	0.050	10/10/2012	ND	1.26	101	1.25	11.3	
p-Isopropyltoluene*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	10.7	
1,3-Dichlorobenzene*	<0.050	0.050	10/10/2012	ND	1.24	99.1	1.25	7.50	
1,4 Dichlorobenzene*	<0.050	0.050	10/10/2012	ND	1.16	92.6	1.25	6.35	
<b>n-Butylbenzene*</b>	<b>0.154</b>	0.050	10/10/2012	ND	1.24	99.5	1.25	11.8	
1,2-Dichlorobenzene*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	7.01	
1,2-Dibromo-3-chloropropane*	<0.050	0.050	10/10/2012	ND	1.12	89.9	1.25	6.99	
Hexachlorobutadiene*	<0.050	0.050	10/10/2012	ND	1.29	103	1.25	12.2	
1,2,4-Trichlorobenzene*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	6.19	
<b>Naphthalene*</b>	<b>0.175</b>	0.050	10/10/2012	ND	1.20	96.3	1.25	4.70	
1,2,3-Trichlorobenzene*	<0.050	0.050	10/10/2012	ND	1.34	107	1.25	6.22	

Surrogate: Dibromofluoromethane      90.4 %      70-130  
 Surrogate: Toluene-d8      100 %      70-130  
 Surrogate: 4-Bromofluorobenzene      121 %      70-130

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

 Received: 10/09/2012  
 Reported: 10/12/2012  
 Project Name: KINDER MORGAN  
 Project Number: 1210-059-01-03  
 Project Location: KINDER MORGAN

 Sampling Date: 10/01/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: KM / CB - 4 (H202460-02)**

PAH 8270C	mg/kg	Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Naphthalene</b>	<b>0.078</b>	0.040	10/11/2012	ND	0.450	90.1	0.500	0.753	
<b>2-Methylnaphthalene</b>	<b>0.247</b>	0.040	10/11/2012	ND	0.481	96.2	0.500	3.31	
<b>1-Methylnaphthalene</b>	<b>0.135</b>	0.040	10/11/2012	ND					
Acenaphthylene	<0.040	0.040	10/11/2012	ND	0.488	97.6	0.500	2.45	
Acenaphthene	<0.040	0.040	10/11/2012	ND	0.497	99.4	0.500	2.76	
Fluorene	<0.040	0.040	10/11/2012	ND	0.513	103	0.500	0.989	
<b>Phenanthrene</b>	<b>0.053</b>	0.040	10/11/2012	ND	0.521	104	0.500	3.43	
Anthracene	<0.040	0.040	10/11/2012	ND	0.530	106	0.500	2.13	
Carbazole	<0.040	0.040	10/11/2012	ND	0.617	123	0.500	11.7	
Fluoranthene	<0.040	0.040	10/11/2012	ND	0.572	114	0.500	4.52	
Pyrene	<0.040	0.040	10/11/2012	ND	0.484	96.9	0.500	21.7	
Benzo[a]anthracene	<0.040	0.040	10/11/2012	ND	0.526	105	0.500	1.15	
Chrysene	<0.040	0.040	10/11/2012	ND	0.540	108	0.500	1.19	
Benzo[b]fluoranthene	<0.040	0.040	10/11/2012	ND	0.601	120	0.500	3.98	
Benzo[k]fluoranthene	<0.040	0.040	10/11/2012	ND	0.597	119	0.500	7.23	
Benzo[a]pyrene	<0.040	0.040	10/11/2012	ND	0.638	128	0.500	5.16	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	10/11/2012	ND	0.607	121	0.500	4.67	
Dibenz[a,h]anthracene	<0.040	0.040	10/11/2012	ND	0.603	121	0.500	5.53	
Benzo[g,h,i]perylene	<0.040	0.040	10/11/2012	ND	0.563	113	0.500	3.65	

Surrogate: Nitrobenzene-d5 97.6 % 16.1-91.8

Surrogate: 2-Fluorobiphenyl 61.5 % 27.2-92.9

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

 Received: 10/09/2012  
 Reported: 10/12/2012  
 Project Name: KINDER MORGAN  
 Project Number: 1210-059-01-03  
 Project Location: KINDER MORGAN

 Sampling Date: 10/01/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: KM / CB - 4 (H202460-02)**

PAH 8270C		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<i>Surrogate: Terphenyl-d14</i>	57.1 %	21.3-96.1							

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/09/2012	ND	183	91.6	200	1.21	
<b>DRO &gt;C10-C28</b>	<b>10.2</b>	10.0	10/09/2012	ND	179	89.5	200	1.93	
EXT DRO >C28-C35	<10.0	10.0	10/09/2012	ND					

*Surrogate: 1-Chlorooctane* 84.1 % 65.2-140  
*Surrogate: 1-Chlorooctadecane* 86.5 % 63.6-154

Volatile 8260		mg/kg		Analyzed By: ms						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Dichlorodifluoromethane*	<0.050	0.050	10/10/2012	ND	0.607	48.6	1.25	53.8		
Chloromethane*	<0.050	0.050	10/10/2012	ND	0.784	62.8	1.25	15.8		
Vinyl chloride*	<0.050	0.050	10/10/2012	ND	0.965	77.2	1.25	25.8		
Bromomethane*	<0.050	0.050	10/10/2012	ND	0.208	16.6	1.25	18.7		
Chloroethane*	<0.050	0.050	10/10/2012	ND	0.182	14.5	1.25	16.7		
Trichlorofluoromethane*	<0.050	0.050	10/10/2012	ND	0.350	28.0	1.25	31.1		
1,1-Dichloroethene*	<0.050	0.050	10/10/2012	ND	1.51	120	1.25	24.8		
Carbon disulfide*	<0.050	0.050	10/10/2012	ND	1.28	102	1.25	23.4		
Iodomethane	<0.050	0.050	10/10/2012	ND	1.43	114	1.25	12.7		
Acrolein*	<2.50	2.50	10/10/2012	ND	5.78	92.5	6.25	4.45		
Methylene chloride*	<0.050	0.050	10/10/2012	ND	1.21	96.7	1.25	6.94		

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/09/2012	Sampling Date:	10/01/2012
Reported:	10/12/2012	Sampling Type:	Soil
Project Name:	KINDER MORGAN	Sampling Condition:	Cool & Intact
Project Number:	1210-059-01-03	Sample Received By:	Jodi Henson
Project Location:	KINDER MORGAN		

**Sample ID: KM / CB - 4 (H202460-02)**

Volatile 8260		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Acetone*	<0.250	0.250	10/10/2012	ND	1.37	110	1.25	9.93	
trans-1,2-Dichloroethene*	<0.050	0.050	10/10/2012	ND	1.33	106	1.25	13.0	
Methyl t-Butyl Ether*	<0.050	0.050	10/10/2012	ND	1.45	116	1.25	4.00	
1,1-Dichloroethane*	<0.050	0.050	10/10/2012	ND	1.28	102	1.25	9.99	
Acrylonitrile*	<0.050	0.050	10/10/2012	ND	1.28	102	1.25	5.26	
Vinyl acetate*	<0.250	0.250	10/10/2012	ND	1.17	93.7	1.25	6.84	
cis-1,2-Dichloroethene*	<0.050	0.050	10/10/2012	ND	1.38	110	1.25	7.86	
2,2-Dichloropropane*	<0.050	0.050	10/10/2012	ND	1.29	104	1.25	15.7	
Bromochloromethane*	<0.050	0.050	10/10/2012	ND	1.22	97.5	1.25	5.63	
Chloroform*	<0.050	0.050	10/10/2012	ND	1.16	93.1	1.25	8.47	
Carbon tetrachloride*	<0.050	0.050	10/10/2012	ND	1.35	108	1.25	17.8	
1,1,1-Trichloroethane*	<0.050	0.050	10/10/2012	ND	1.33	106	1.25	16.5	
1,1-Dichloropropene*	<0.050	0.050	10/10/2012	ND	1.50	120	1.25	18.5	
2-Butanone*	<0.250	0.250	10/10/2012	ND	1.34	108	1.25	7.48	
<b>Benzene*</b>	<b>0.305</b>	0.050	10/10/2012	ND	1.30	104	1.25	10.6	
1,2-Dichloroethane*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	5.93	
Trichloroethene*	<0.050	0.050	10/10/2012	ND	1.37	109	1.25	11.9	
Dibromomethane*	<0.050	0.050	10/10/2012	ND	1.20	95.8	1.25	5.28	
1,2-Dichloropropane*	<0.050	0.050	10/10/2012	ND	1.32	106	1.25	7.39	
Bromodichloromethane*	<0.050	0.050	10/10/2012	ND	1.21	96.6	1.25	7.55	
cis-1,3-Dichloropropene*	<0.050	0.050	10/10/2012	ND	1.22	97.3	1.25	6.93	
<b>Toluene*</b>	<b>1.79</b>	0.050	10/10/2012	ND	1.32	106	1.25	10.2	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/09/2012	Sampling Date:	10/01/2012
Reported:	10/12/2012	Sampling Type:	Soil
Project Name:	KINDER MORGAN	Sampling Condition:	Cool & Intact
Project Number:	1210-059-01-03	Sample Received By:	Jodi Henson
Project Location:	KINDER MORGAN		

**Sample ID: KM / CB - 4 (H202460-02)**

Analyte	mg/kg		Analyzed By: ms				S-04		
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
4-Methyl-2-pentanone*	<0.250	0.250	10/10/2012	ND	1.15	92.1	1.25	5.62	
Tetrachloroethene*	<0.050	0.050	10/10/2012	ND	1.28	103	1.25	14.1	
trans-1,3-Dichloropropene*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	6.23	
1,1,2-Trichloroethane*	<0.050	0.050	10/10/2012	ND	1.15	92.0	1.25	5.16	
Dibromochloromethane*	<0.050	0.050	10/10/2012	ND	1.15	92.0	1.25	7.35	
1,3-Dichloropropane*	<0.050	0.050	10/10/2012	ND	1.24	98.8	1.25	7.43	
1,2-Dibromoethane*	<0.050	0.050	10/10/2012	ND	1.22	97.7	1.25	6.43	
2-Hexanone*	<0.250	0.250	10/10/2012	ND	1.16	92.9	1.25	5.49	
Chlorobenzene*	<0.050	0.050	10/10/2012	ND	1.24	99.3	1.25	7.93	
<b>Ethylbenzene*</b>	<b>0.260</b>	0.050	10/10/2012	ND	1.39	111	1.25	10.8	
1,1,1,2-Tetrachloroethane*	<0.050	0.050	10/10/2012	ND	1.17	93.9	1.25	7.38	
<b>m+p - Xylene*</b>	<b>1.85</b>	0.100	10/10/2012	ND	2.40	96.1	2.50	9.98	
<b>o-Xylene*</b>	<b>0.519</b>	0.050	10/10/2012	ND	1.25	100	1.25	8.35	
<b>Total Xylenes*</b>	<b>2.36</b>	0.150	10/10/2012	ND	3.65	97.4	3.75	9.42	
Bromoform*	<0.050	0.050	10/10/2012	ND	1.07	85.9	1.25	8.25	
Styrene*	<0.050	0.050	10/10/2012	ND	1.18	94.1	1.25	7.73	
<b>Isopropylbenzene*</b>	<b>0.168</b>	0.050	10/10/2012	ND	1.27	101	1.25	11.2	
Bromobenzene*	<0.050	0.050	10/10/2012	ND	1.22	97.6	1.25	6.55	
<b>n-Propylbenzene*</b>	<b>0.218</b>	0.050	10/10/2012	ND	1.24	99.4	1.25	10.7	
1,1,2,2-Tetrachloroethane*	<0.050	0.050	10/10/2012	ND	1.07	85.8	1.25	5.48	
2-Chlorotoluene*	<0.050	0.050	10/10/2012	ND	1.22	97.9	1.25	7.77	
1,2,3-trichloropropane*	<0.050	0.050	10/10/2012	ND	1.03	82.3	1.25	5.84	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/09/2012	Sampling Date:	10/01/2012
Reported:	10/12/2012	Sampling Type:	Soil
Project Name:	KINDER MORGAN	Sampling Condition:	Cool & Intact
Project Number:	1210-059-01-03	Sample Received By:	Jodi Henson
Project Location:	KINDER MORGAN		

**Sample ID: KM / CB - 4 (H202460-02)**

Volatile 8260		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>1,3,5-Trimethylbenzene*</b>	<b>0.441</b>	0.050	10/10/2012	ND	1.22	97.2	1.25	8.53	
trans-1,4-Dichloro-2-butene	<0.050	0.050	10/10/2012	ND	0.828	66.3	1.25	8.17	
4-Chlorotoluene*	<0.050	0.050	10/10/2012	ND	1.22	97.3	1.25	7.50	
tert-Butylbenzene*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	9.84	
<b>1,2,4-Trimethylbenzene*</b>	<b>0.876</b>	0.050	10/10/2012	ND	1.21	96.8	1.25	7.65	
<b>sec-Butylbenzene*</b>	<b>0.176</b>	0.050	10/10/2012	ND	1.26	101	1.25	11.3	
<b>p-Isopropyltoluene*</b>	<b>0.160</b>	0.050	10/10/2012	ND	1.25	100	1.25	10.7	
1,3-Dichlorobenzene*	<0.050	0.050	10/10/2012	ND	1.24	99.1	1.25	7.50	
1,4 Dichlorobenzene*	<0.050	0.050	10/10/2012	ND	1.16	92.6	1.25	6.35	
<b>n-Butylbenzene*</b>	<b>0.238</b>	0.050	10/10/2012	ND	1.24	99.5	1.25	11.8	
1,2-Dichlorobenzene*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	7.01	
1,2-Dibromo-3-chloropropane*	<0.050	0.050	10/10/2012	ND	1.12	89.9	1.25	6.99	
Hexachlorobutadiene*	<0.050	0.050	10/10/2012	ND	1.29	103	1.25	12.2	
1,2,4-Trichlorobenzene*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	6.19	
<b>Naphthalene*</b>	<b>0.236</b>	0.050	10/10/2012	ND	1.20	96.3	1.25	4.70	
1,2,3-Trichlorobenzene*	<0.050	0.050	10/10/2012	ND	1.34	107	1.25	6.22	

Surrogate: Dibromofluoromethane      88.5 %      70-130  
 Surrogate: Toluene-d8      101 %      70-130  
 Surrogate: 4-Bromofluorobenzene      137 %      70-130

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

 Received: 10/09/2012  
 Reported: 10/12/2012  
 Project Name: KINDER MORGAN  
 Project Number: 1210-059-01-03  
 Project Location: KINDER MORGAN

 Sampling Date: 10/01/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: KM / CC - 4 (H202460-03)**

PAH 8270C	mg/kg	Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Naphthalene</b>	<b>0.042</b>	0.040	10/11/2012	ND	0.450	90.1	0.500	0.753	
<b>2-Methylnaphthalene</b>	<b>0.080</b>	0.040	10/11/2012	ND	0.481	96.2	0.500	3.31	
<b>1-Methylnaphthalene</b>	<b>0.050</b>	0.040	10/11/2012	ND					
Acenaphthylene	<0.040	0.040	10/11/2012	ND	0.488	97.6	0.500	2.45	
Acenaphthene	<0.040	0.040	10/11/2012	ND	0.497	99.4	0.500	2.76	
Fluorene	<0.040	0.040	10/11/2012	ND	0.513	103	0.500	0.989	
Phenanthrene	<0.040	0.040	10/11/2012	ND	0.521	104	0.500	3.43	
Anthracene	<0.040	0.040	10/11/2012	ND	0.530	106	0.500	2.13	
Carbazole	<0.040	0.040	10/11/2012	ND	0.617	123	0.500	11.7	
Fluoranthene	<0.040	0.040	10/11/2012	ND	0.572	114	0.500	4.52	
Pyrene	<0.040	0.040	10/11/2012	ND	0.484	96.9	0.500	21.7	
Benzo[a]anthracene	<0.040	0.040	10/11/2012	ND	0.526	105	0.500	1.15	
Chrysene	<0.040	0.040	10/11/2012	ND	0.540	108	0.500	1.19	
Benzo[b]flouranthene	<0.040	0.040	10/11/2012	ND	0.601	120	0.500	3.98	
Benzo[k]flouranthene	<0.040	0.040	10/11/2012	ND	0.597	119	0.500	7.23	
Benzo[a]pyrene	<0.040	0.040	10/11/2012	ND	0.638	128	0.500	5.16	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	10/11/2012	ND	0.607	121	0.500	4.67	
Dibenz[a,h]anthracene	<0.040	0.040	10/11/2012	ND	0.603	121	0.500	5.53	
Benzo[g,h,i]perylene	<0.040	0.040	10/11/2012	ND	0.563	113	0.500	3.65	

Surrogate: Nitrobenzene-d5 65.6 % 16.1-91.8

Surrogate: 2-Fluorobiphenyl 60.7 % 27.2-92.9

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

 Received: 10/09/2012  
 Reported: 10/12/2012  
 Project Name: KINDER MORGAN  
 Project Number: 1210-059-01-03  
 Project Location: KINDER MORGAN

 Sampling Date: 10/01/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: KM / CC - 4 (H202460-03)**

PAH 8270C		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<i>Surrogate: Terphenyl-d14</i>	56.7 %	21.3-96.1							

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/09/2012	ND	183	91.6	200	1.21	
<b>DRO &gt;C10-C28</b>	<b>19.3</b>	10.0	10/09/2012	ND	179	89.5	200	1.93	
EXT DRO >C28-C35	<10.0	10.0	10/09/2012	ND					

*Surrogate: 1-Chlorooctane* 88.4 % 65.2-140  
*Surrogate: 1-Chlorooctadecane* 90.4 % 63.6-154

Volatile 8260		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Dichlorodifluoromethane*	<0.050	0.050	10/10/2012	ND	0.607	48.6	1.25	53.8	
Chloromethane*	<0.050	0.050	10/10/2012	ND	0.784	62.8	1.25	15.8	
Vinyl chloride*	<0.050	0.050	10/10/2012	ND	0.965	77.2	1.25	25.8	
Bromomethane*	<0.050	0.050	10/10/2012	ND	0.208	16.6	1.25	18.7	
Chloroethane*	<0.050	0.050	10/10/2012	ND	0.182	14.5	1.25	16.7	
Trichlorofluoromethane*	<0.050	0.050	10/10/2012	ND	0.350	28.0	1.25	31.1	
1,1-Dichloroethene*	<0.050	0.050	10/10/2012	ND	1.51	120	1.25	24.8	
Carbon disulfide*	<0.050	0.050	10/10/2012	ND	1.28	102	1.25	23.4	
Iodomethane	<0.050	0.050	10/10/2012	ND	1.43	114	1.25	12.7	
Acrolein*	<2.50	2.50	10/10/2012	ND	5.78	92.5	6.25	4.45	
Methylene chloride*	<0.050	0.050	10/10/2012	ND	1.21	96.7	1.25	6.94	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/09/2012	Sampling Date:	10/01/2012
Reported:	10/12/2012	Sampling Type:	Soil
Project Name:	KINDER MORGAN	Sampling Condition:	Cool & Intact
Project Number:	1210-059-01-03	Sample Received By:	Jodi Henson
Project Location:	KINDER MORGAN		

**Sample ID: KM / CC - 4 (H202460-03)**

Volatile 8260		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Acetone*	<0.250	0.250	10/10/2012	ND	1.37	110	1.25	9.93	
trans-1,2-Dichloroethene*	<0.050	0.050	10/10/2012	ND	1.33	106	1.25	13.0	
Methyl t-Butyl Ether*	<0.050	0.050	10/10/2012	ND	1.45	116	1.25	4.00	
1,1-Dichloroethane*	<0.050	0.050	10/10/2012	ND	1.28	102	1.25	9.99	
Acrylonitrile*	<0.050	0.050	10/10/2012	ND	1.28	102	1.25	5.26	
Vinyl acetate*	<0.250	0.250	10/10/2012	ND	1.17	93.7	1.25	6.84	
cis-1,2-Dichloroethene*	<0.050	0.050	10/10/2012	ND	1.38	110	1.25	7.86	
2,2-Dichloropropane*	<0.050	0.050	10/10/2012	ND	1.29	104	1.25	15.7	
Bromochloromethane*	<0.050	0.050	10/10/2012	ND	1.22	97.5	1.25	5.63	
Chloroform*	<0.050	0.050	10/10/2012	ND	1.16	93.1	1.25	8.47	
Carbon tetrachloride*	<0.050	0.050	10/10/2012	ND	1.35	108	1.25	17.8	
1,1,1-Trichloroethane*	<0.050	0.050	10/10/2012	ND	1.33	106	1.25	16.5	
1,1-Dichloropropene*	<0.050	0.050	10/10/2012	ND	1.50	120	1.25	18.5	
2-Butanone*	<0.250	0.250	10/10/2012	ND	1.34	108	1.25	7.48	
Benzene*	<0.050	0.050	10/10/2012	ND	1.30	104	1.25	10.6	
1,2-Dichloroethane*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	5.93	
Trichloroethene*	<0.050	0.050	10/10/2012	ND	1.37	109	1.25	11.9	
Dibromomethane*	<0.050	0.050	10/10/2012	ND	1.20	95.8	1.25	5.28	
1,2-Dichloropropane*	<0.050	0.050	10/10/2012	ND	1.32	106	1.25	7.39	
Bromodichloromethane*	<0.050	0.050	10/10/2012	ND	1.21	96.6	1.25	7.55	
cis-1,3-Dichloropropene*	<0.050	0.050	10/10/2012	ND	1.22	97.3	1.25	6.93	
<b>Toluene*</b>	<b>0.054</b>	0.050	10/10/2012	ND	1.32	106	1.25	10.2	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/09/2012	Sampling Date:	10/01/2012
Reported:	10/12/2012	Sampling Type:	Soil
Project Name:	KINDER MORGAN	Sampling Condition:	Cool & Intact
Project Number:	1210-059-01-03	Sample Received By:	Jodi Henson
Project Location:	KINDER MORGAN		

**Sample ID: KM / CC - 4 (H202460-03)**

Analyte	mg/kg		Analyzed By: ms						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
4-Methyl-2-pentanone*	<0.250	0.250	10/10/2012	ND	1.15	92.1	1.25	5.62	
Tetrachloroethene*	<0.050	0.050	10/10/2012	ND	1.28	103	1.25	14.1	
trans-1,3-Dichloropropene*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	6.23	
1,1,2-Trichloroethane*	<0.050	0.050	10/10/2012	ND	1.15	92.0	1.25	5.16	
Dibromochloromethane*	<0.050	0.050	10/10/2012	ND	1.15	92.0	1.25	7.35	
1,3-Dichloropropane*	<0.050	0.050	10/10/2012	ND	1.24	98.8	1.25	7.43	
1,2-Dibromoethane*	<0.050	0.050	10/10/2012	ND	1.22	97.7	1.25	6.43	
2-Hexanone*	<0.250	0.250	10/10/2012	ND	1.16	92.9	1.25	5.49	
Chlorobenzene*	<0.050	0.050	10/10/2012	ND	1.24	99.3	1.25	7.93	
<b>Ethylbenzene*</b>	<b>0.092</b>	0.050	10/10/2012	ND	1.39	111	1.25	10.8	
1,1,1,2-Tetrachloroethane*	<0.050	0.050	10/10/2012	ND	1.17	93.9	1.25	7.38	
<b>m+p - Xylene*</b>	<b>0.272</b>	0.100	10/10/2012	ND	2.40	96.1	2.50	9.98	
<b>o-Xylene*</b>	<b>0.176</b>	0.050	10/10/2012	ND	1.25	100	1.25	8.35	
<b>Total Xylenes*</b>	<b>0.448</b>	0.150	10/10/2012	ND	3.65	97.4	3.75	9.42	
Bromoform*	<0.050	0.050	10/10/2012	ND	1.07	85.9	1.25	8.25	
Styrene*	<0.050	0.050	10/10/2012	ND	1.18	94.1	1.25	7.73	
<b>Isopropylbenzene*</b>	<b>0.128</b>	0.050	10/10/2012	ND	1.27	101	1.25	11.2	
Bromobenzene*	<0.050	0.050	10/10/2012	ND	1.22	97.6	1.25	6.55	
<b>n-Propylbenzene*</b>	<b>0.166</b>	0.050	10/10/2012	ND	1.24	99.4	1.25	10.7	
1,1,1,2-Tetrachloroethane*	<0.050	0.050	10/10/2012	ND	1.07	85.8	1.25	5.48	
2-Chlorotoluene*	<0.050	0.050	10/10/2012	ND	1.22	97.9	1.25	7.77	
1,2,3-trichloropropane*	<0.050	0.050	10/10/2012	ND	1.03	82.3	1.25	5.84	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/09/2012	Sampling Date:	10/01/2012
Reported:	10/12/2012	Sampling Type:	Soil
Project Name:	KINDER MORGAN	Sampling Condition:	Cool & Intact
Project Number:	1210-059-01-03	Sample Received By:	Jodi Henson
Project Location:	KINDER MORGAN		

**Sample ID: KM / CC - 4 (H202460-03)**

Volatile 8260		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>1,3,5-Trimethylbenzene*</b>	<b>0.153</b>	0.050	10/10/2012	ND	1.22	97.2	1.25	8.53	
trans-1,4-Dichloro-2-butene	<0.050	0.050	10/10/2012	ND	0.828	66.3	1.25	8.17	
4-Chlorotoluene*	<0.050	0.050	10/10/2012	ND	1.22	97.3	1.25	7.50	
tert-Butylbenzene*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	9.84	
<b>1,2,4-Trimethylbenzene*</b>	<b>0.465</b>	0.050	10/10/2012	ND	1.21	96.8	1.25	7.65	
<b>sec-Butylbenzene*</b>	<b>0.146</b>	0.050	10/10/2012	ND	1.26	101	1.25	11.3	
<b>p-Isopropyltoluene*</b>	<b>0.131</b>	0.050	10/10/2012	ND	1.25	100	1.25	10.7	
1,3-Dichlorobenzene*	<0.050	0.050	10/10/2012	ND	1.24	99.1	1.25	7.50	
1,4 Dichlorobenzene*	<0.050	0.050	10/10/2012	ND	1.16	92.6	1.25	6.35	
<b>n-Butylbenzene*</b>	<b>0.200</b>	0.050	10/10/2012	ND	1.24	99.5	1.25	11.8	
1,2-Dichlorobenzene*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	7.01	
1,2-Dibromo-3-chloropropane*	<0.050	0.050	10/10/2012	ND	1.12	89.9	1.25	6.99	
Hexachlorobutadiene*	<0.050	0.050	10/10/2012	ND	1.29	103	1.25	12.2	
1,2,4-Trichlorobenzene*	<0.050	0.050	10/10/2012	ND	1.25	100	1.25	6.19	
<b>Naphthalene*</b>	<b>0.158</b>	0.050	10/10/2012	ND	1.20	96.3	1.25	4.70	
1,2,3-Trichlorobenzene*	<0.050	0.050	10/10/2012	ND	1.34	107	1.25	6.22	

Surrogate: Dibromofluoromethane      90.1 %      70-130  
 Surrogate: Toluene-d8      94.5 %      70-130  
 Surrogate: 4-Bromofluorobenzene      124 %      70-130

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM450Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report



---

Celey D. Keene, Lab Director/Quality Manager

