

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: El Paso Natural Gas Company, LLC, a subsidiary of Kinder Morgan Inc.	Contact: Amy Blythe	
Address: 2 North Nevada Avenue Colorado Springs, Colorado 80903	Telephone No. (719) 520-4813	
Facility Name: EPNG's California Main Line (Line No. 1100)	Facility Type: 26-inch Outside Diameter (O.D.) steel natural gas pipeline	
Surface Owner: Private Land	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter	Section 8	Township 23 South	Range 17 West	Feet from the	North/South Line	Feet from the	East/West Line	County: Hidalgo
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Latitude 32.31527 Longitude -108.61816 NAD83

NATURE OF RELEASE

Type of Release: Hydrostatic test water from an existing natural gas pipeline	Volume of Release: Approximately 50,000 gallons	Volume Recovered
Source of Release: pipeline failure during hydrostatic pressure test	Date and Hour of Occurrence 10/26/2017 8:30 am	Date and Hour of Discovery 10/26/2017 8:30 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? NMOCD District Office (Hobbs), Env. Specialist - Mike Bratcher NMOCD State Office, Environmental Bureau Chief - Jim Griswold	
By Whom? Amy Blythe	Date and Hour: 10/26/2017	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully. *Not Applicable

Describe Cause of Problem and Remedial Action Taken.*

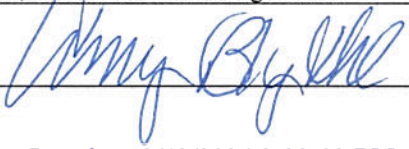
EPNG was in the process of conducting a hydrostatic pressure test of the existing 26" O.D. Line No. 1100 in **Segment 2 between Milepost 341+2674 and Milepost 343+1634** when the pipe failed. Approximately 50,000 gallons of hydrostatic test water was released into the ground. EPNG Crews have repaired the pipe by cutting out the defective segment and replacing it with approximately 40 feet of new pipe. **See Attachment A – Aerial View Map.**

The recovered test water was collected using a hydrovac truck and hauled to EPNG's Lordsburg Station where it was stored in a frac tank. Samples of the test water and impacted soil were collected on 10/28/2017 and shipped to Xenco Laboratories in El Paso Texas. The waste water sample was analyzed for the following tests: Flashpoint, pH, VPC's (Method 8260), TCLP Metals, PCB's, TCLP BTEX, TPH Method 8015. The soil sample was analyzed for the following parameters: VOC's (Method 8260), PCB's, LCLP BTEX, PHG Method 8015 and NORMS. **See Attachment B, Certificate of Analysis Summary 566847.**

Describe Area Affected and Cleanup Action Taken.*

Initially, the impacted soil was side cast and kept separate during the pipeline repair. The analytical results have been received and the soil is confirmed to be nonhazardous.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION
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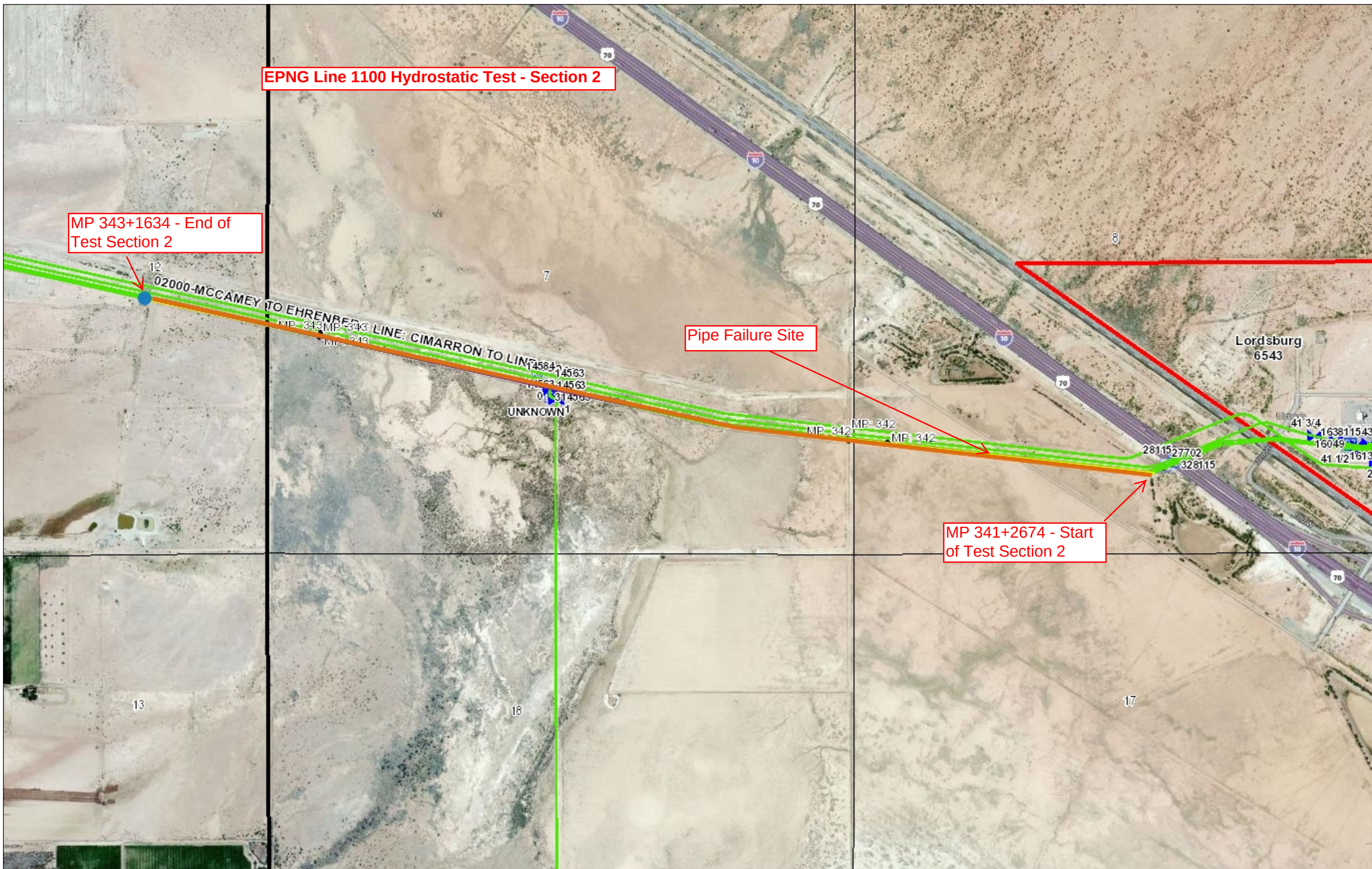
Printed Name: Amy Blythe		Approved by Environmental Specialist:	
Title: Environmental Specialist II		Approval Date:	Expiration Date:
E-mail Address: amy_blythe@kindermorgan.com		Conditions of Approval:	Attached ☐
Date: 11/7/2017 Phone: (719) 520-4813			

* Attach Additional Sheets If Necessary

Attachment A – Aerial View Maps



A Different Kind of ENERGY COMPANY



Legend

- M.P. MARKER
- PIPE SEGMENT
- ✕ VALVE
- ROUTE
- Ⓜ METER
- DOT_SEGMENT
 - OTHER
 - EFC
 - HORIZON
 - KINDERHAWK
 - KM Illinois Pipeline
 - KM Louisiana Pipeline
 - KM Meir Monterrey
 - KM North Texas Pipeline
 - KM Treating LP
 - KM Texas Pipeline
 - Midcontinent Express Pipeline
 - NGPL
 - TransColorado Pipeline
 - KM Tejas Pipeline
 - Colorado Interstate Gas
 - El Paso Natural Gas
 - Southern Natural Gas
 - Tennessee Gas Pipeline
 - COPANO
 - HILAND PARTNERS
 - SIERRITA
 - ALTAMONT
- Station Outlines
- Parcels
- JEFF TOWNSHIP RANGE
- CARTERTWP
- JEFFSEC_Project
- TEXASABS
- CONTOURS
- OFFSHORE AREAS
- FedState
- OFFSHORE BLOCKS
- Fairways_Anchorages

1: 12,526



Notes

0.4 0 0.20 0.4 Miles
WGS_1984_Web_Mercator_Auxiliary_Sphere



A Different Kind of ENERGY COMPANY



Legend

- M.P. MARKER
- PIPE SEGMENT
- ✕ VALVE
- ROUTE
- [M] METER
- DOT_SEGMENT
 - OTHER
 - EFC
 - HORIZON
 - KINDERHAWK
 - KM Illinois Pipeline
 - KM Louisiana Pipeline
 - KM Meir Monterrey
 - KM North Texas Pipeline
 - KM Treating LP
 - KM Texas Pipeline
 - Midcontinent Express Pipeline
 - NGPL
 - TransColorado Pipeline
 - KM Tejas Pipeline
 - Colorado Interstate Gas
 - El Paso Natural Gas
 - Southern Natural Gas
 - Tennessee Gas Pipeline
 - COPANO
 - HILAND PARTNERS
 - SIERRITA
 - ALTAMONT
- [] Station Outlines
- [] Parcels
- [] JEFF TOWNSHIP RANGE
- [] CARTERTWP
- [] JEFFSEC_Project
- [] TEXASABS

Notes

0.2 0 0.10 0.2 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Kinder Morgan

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

Attachment B – Xenco Laboratories
Certificate of Analysis Summary 565094



Certificate of Analysis Summary 566847

Kinder Morgan-El Paso, El Paso, TX

Project Name: KMI L1100-Hydrotest - SV2639ZL Tank

Project Id: KMI L1100- Hydrotest

Contact: Amy Blythe

Project Location: Lordburge, NM

Date Received in Lab: Sun Oct-29-17 10:00 am

Report Date: 03-NOV-17

Project Manager: Mike Kimmel

<i>Analysis Requested</i>	<i>Lab Id:</i>	566847-001	566847-002	566847-003	566847-004	566847-005	566847-006
	<i>Field Id:</i>	S102817 - 001, Site HZ Rup	WW102817-002, LBCS	WW102817-003, LBCS	WW102817-004, LBCS	WW102817-005, LBCS	WW102817-006, LBCS
	<i>Depth:</i>	6" N/A	N/A	N/A	N/A	N/A	N/A
	<i>Matrix:</i>	SOIL	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER
	<i>Sampled:</i>	Oct-28-17 07:10	Oct-28-17 09:40	Oct-28-17 09:45	Oct-28-17 09:50	Oct-28-17 09:55	Oct-28-17 09:59
TCLP BTEX by SW 8260B SUB: TX104704215-17-23	<i>Extracted:</i>	Nov-01-17 12:00					
	<i>Analyzed:</i>	Nov-01-17 12:18					
	<i>Units/RL:</i>	mg/L RL					
	Benzene	<0.00500 0.00500					
	Toluene	<0.00500 0.00500					
	Ethylbenzene	<0.00500 0.00500					
	m,p-Xylenes	<0.0100 0.0100					
	o-Xylene	<0.00500 0.00500					

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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 566847

Kinder Morgan-El Paso, El Paso, TX

Project Name: KMI L1100-Hydrotest - SV2639ZL Tank

Project Id: KMI L1100- Hydrotest

Contact: Amy Blythe

Project Location: Lordburge, NM

Date Received in Lab: Sun Oct-29-17 10:00 am

Report Date: 03-NOV-17

Project Manager: Mike Kimmel

Analysis Requested	Lab Id:	566847-001	566847-002	566847-003	566847-004	566847-005	566847-006
	Field Id:	S102817 - 001, Site HZ Rup	WW102817-002, LBCS	WW102817-003, LBCS	WW102817-004, LBCS	WW102817-005, LBCS	WW102817-006, LBCS
	Depth:	6"- N/A	N/A	N/A	N/A	N/A	N/A
	Matrix:	SOIL	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER
	Sampled:	Oct-28-17 07:10	Oct-28-17 09:40	Oct-28-17 09:45	Oct-28-17 09:50	Oct-28-17 09:55	Oct-28-17 09:59
Flash Point (CC) SW-846 1010 SUB: TX104704215-17-23	Extracted:						
	Analyzed:		Nov-01-17 14:30				
	Units/RL:		Deg F RL				
Flash Point			>180				
PCBs by EPA 8082 SUB: TX104704215-17-23	Extracted:	Oct-31-17 16:09					Oct-31-17 16:46
	Analyzed:	Nov-01-17 12:41					Nov-01-17 15:02
	Units/RL:	mg/kg RL					mg/L RL
PCB-1016		<0.00333 0.00333					<0.000111 0.000111
PCB-1221		<0.00333 0.00333					<0.000111 0.000111
PCB-1232		<0.00333 0.00333					<0.000111 0.000111
PCB-1242		<0.00333 0.00333					<0.000111 0.000111
PCB-1248		<0.00333 0.00333					<0.000111 0.000111
PCB-1254		0.0210 0.00333					<0.000111 0.000111
PCB-1260		<0.00333 0.00333					<0.000111 0.000111
Total PCB		0.0210 0.00333					<0.000111 0.000111
TCLP Mercury by SW 7470A SUB: TX104704215-17-23	Extracted:					Nov-02-17 12:40	
	Analyzed:					Nov-02-17 18:17	
	Units/RL:					mg/L RL	
Mercury						<0.000200 0.000200	

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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 566847

Kinder Morgan-El Paso, El Paso, TX

Project Name: KMI L1100-Hydrotest - SV2639ZL Tank

Project Id: KMI L1100- Hydrotest

Contact: Amy Blythe

Project Location: Lordburge, NM

Date Received in Lab: Sun Oct-29-17 10:00 am

Report Date: 03-NOV-17

Project Manager: Mike Kimmel

Analysis Requested	Lab Id:	566847-001	566847-002	566847-003	566847-004	566847-005	566847-006
	Field Id:	S102817 - 001, Site HZ Rup	WW102817-002, LBCS	WW102817-003, LBCS	WW102817-004, LBCS	WW102817-005, LBCS	WW102817-006, LBCS
	Depth:	6"- N/A	N/A	N/A	N/A	N/A	N/A
	Matrix:	SOIL	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER
	Sampled:	Oct-28-17 07:10	Oct-28-17 09:40	Oct-28-17 09:45	Oct-28-17 09:50	Oct-28-17 09:55	Oct-28-17 09:59
TCLP Metals by SW 1311/6010B SUB: TX104704215-17-23	Extracted:					Nov-02-17 07:55	
	Analyzed:					Nov-02-17 17:40	
	Units/RL:					mg/L RL	
	Arsenic					<0.0500 0.0500	
	Barium					<0.0500 0.0500	
	Cadmium					<0.0250 0.0250	
	Chromium					<0.0500 0.0500	
	Lead					<0.0500 0.0500	
TPH by SW 8015B SUB: TX104704215-17-23	Selenium					<0.100 0.100	
	Silver					<0.100 0.100	
	Extracted:	Oct-31-17 15:39					
	Analyzed:	Nov-02-17 13:06					
	Units/RL:	mg/kg RL					
	C6-C10 Gasoline Range Hydrocarbons	<15.0 15.0					
	C10-C28 Diesel Range Organics	<15.0 15.0					
	Total TPH	<15.0 15.0					

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	Depth:	6"- N/A	N/A	N/A	N/A	N/A	N/A
	Matrix:	SOIL	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER
	Sampled:	Oct-28-17 07:10	Oct-28-17 09:40	Oct-28-17 09:45	Oct-28-17 09:50	Oct-28-17 09:55	Oct-28-17 09:59
VOCs By SW846 8260C SUB: TX104704215-17-23	Extracted:				Oct-31-17 17:00		
	Analyzed:				Oct-31-17 17:37		
	Units/RL:				mg/L RL		
Benzene					<0.00500 0.00500		
Bromobenzene					<0.00500 0.00500		
Bromochloromethane					<0.00500 0.00500		
Bromodichloromethane					<0.00500 0.00500		
Bromoform					<0.00500 0.00500		
Methyl bromide					<0.00500 0.00500		
n-Butylbenzene					<0.00500 0.00500		
Sec-Butylbenzene					<0.00500 0.00500		
tert-Butylbenzene					<0.00500 0.00500		
Carbon Tetrachloride					<0.00500 0.00500		
Chlorobenzene					<0.00500 0.00500		
Chloroethane					<0.0100 0.0100		
Chloroform					<0.00500 0.00500		
Methyl Chloride					<0.0100 0.0100		
2-Chlorotoluene					<0.00500 0.00500		
4-Chlorotoluene					<0.00500 0.00500		
p-Cymene (p-Isopropyltoluene)					<0.00500 0.00500		
Dibromochloromethane					<0.00500 0.00500		
1,2-Dibromo-3-Chloropropane					<0.00500 0.00500		
1,2-Dibromoethane					<0.00500 0.00500		
Methylene bromide					<0.00500 0.00500		
1,2-Dichlorobenzene					<0.00500 0.00500		
1,3-Dichlorobenzene					<0.00500 0.00500		
1,4-Dichlorobenzene					<0.00500 0.00500		

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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 566847

Kinder Morgan-El Paso, El Paso, TX

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Project Id: KMI L1100- Hydrotest

Contact: Amy Blythe

Project Location: Lordburge, NM

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	Field Id:	S102817 - 001, Site HZ Rup	WW102817-002, LBCS	WW102817-003, LBCS	WW102817-004, LBCS	WW102817-005, LBCS	WW102817-006, LBCS
	Depth:	6"- N/A	N/A	N/A	N/A	N/A	N/A
	Matrix:	SOIL	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER
	Sampled:	Oct-28-17 07:10	Oct-28-17 09:40	Oct-28-17 09:45	Oct-28-17 09:50	Oct-28-17 09:55	Oct-28-17 09:59
VOCs By SW846 8260C SUB: TX104704215-17-23	Extracted:				Oct-31-17 17:00		
	Analyzed:				Oct-31-17 17:37		
	Units/RL:				mg/L RL		
Dichlorodifluoromethane					<0.00500 0.00500		
1,1-Dichloroethane					<0.00500 0.00500		
1,2-Dichloroethane					<0.00500 0.00500		
1,1-Dichloroethene					<0.00500 0.00500		
cis-1,2-Dichloroethylene					<0.00500 0.00500		
trans-1,2-dichloroethylene					<0.00500 0.00500		
1,2-Dichloropropane					<0.00500 0.00500		
1,3-Dichloropropane					<0.00500 0.00500		
2,2-Dichloropropane					<0.00500 0.00500		
1,1-Dichloropropene					<0.00500 0.00500		
cis-1,3-Dichloropropene					<0.00500 0.00500		
trans-1,3-dichloropropene					<0.00500 0.00500		
Ethylbenzene					<0.00500 0.00500		
Hexachlorobutadiene					<0.00500 0.00500		
Isopropylbenzene					<0.00500 0.00500		
Methylene Chloride					<0.00500 0.00500		
MTBE					<0.00500 0.00500		
Naphthalene					<0.0100 0.0100		
n-Propylbenzene					<0.00500 0.00500		
Styrene					<0.00500 0.00500		
1,1,1,2-Tetrachloroethane					<0.00500 0.00500		
1,1,2,2-Tetrachloroethane					<0.00500 0.00500		
Tetrachloroethylene					<0.00500 0.00500		
Toluene					<0.00500 0.00500		

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	Depth:	6"- N/A	N/A	N/A	N/A	N/A	N/A
	Matrix:	SOIL	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER
	Sampled:	Oct-28-17 07:10	Oct-28-17 09:40	Oct-28-17 09:45	Oct-28-17 09:50	Oct-28-17 09:55	Oct-28-17 09:59
VOCs By SW846 8260C SUB: TX104704215-17-23	Extracted:				Oct-31-17 17:00		
	Analyzed:				Oct-31-17 17:37		
	Units/RL:				mg/L RL		
	1,2,3-Trichlorobenzene				<0.00500 0.00500		
	1,2,4-Trichlorobenzene				<0.00500 0.00500		
	1,1,1-Trichloroethane				<0.00500 0.00500		
	1,1,2-Trichloroethane				<0.00500 0.00500		
	Trichloroethylene				<0.00500 0.00500		
	Trichlorofluoromethane				<0.00500 0.00500		
	1,2,3-Trichloropropane				<0.00500 0.00500		
	1,2,4-Trimethylbenzene				<0.00500 0.00500		
	1,3,5-Trimethylbenzene				<0.00500 0.00500		
	o-Xylene				<0.00500 0.00500		
	m,p-Xylenes				<0.0100 0.0100		
	Vinyl Chloride				<0.00200 0.00200		
	Total Xylenes				<0.00500 0.00500		

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	Depth:	6"- N/A	N/A	N/A	N/A	N/A	N/A
	Matrix:	SOIL	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER
	Sampled:	Oct-28-17 07:10	Oct-28-17 09:40	Oct-28-17 09:45	Oct-28-17 09:50	Oct-28-17 09:55	Oct-28-17 09:59
VOCs by SW-846 8260B SUB: TX104704215-17-23	Extracted:	Nov-01-17 12:02					
	Analyzed:	Nov-01-17 13:38					
	Units/RL:	mg/kg RL					
Benzene		<0.00502 0.00502					
Bromobenzene		<0.00502 0.00502					
Bromochloromethane		<0.00502 0.00502					
Bromodichloromethane		<0.00502 0.00502					
Bromoform		<0.00502 0.00502					
Methyl bromide		<0.00502 0.00502					
tert-Butylbenzene		<0.00502 0.00502					
Sec-Butylbenzene		<0.00502 0.00502					
n-Butylbenzene		<0.00502 0.00502					
Carbon Tetrachloride		<0.00502 0.00502					
Chlorobenzene		<0.00502 0.00502					
Chloroethane		<0.0100 0.0100					
Chloroform		<0.00502 0.00502					
Methyl Chloride		<0.0100 0.0100					
2-Chlorotoluene		<0.00502 0.00502					
4-Chlorotoluene		<0.00502 0.00502					
p-Cymene (p-Isopropyltoluene)		<0.00502 0.00502					
1,2-Dibromo-3-Chloropropane		<0.00502 0.00502					
Dibromochloromethane		<0.00502 0.00502					
1,2-Dibromoethane		<0.00502 0.00502					
Methylene bromide		<0.00502 0.00502					
1,2-Dichlorobenzene		<0.00502 0.00502					
1,3-Dichlorobenzene		<0.00502 0.00502					
1,4-Dichlorobenzene		<0.00502 0.00502					

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Version: 1.0%

Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 566847

Kinder Morgan-El Paso, El Paso, TX

Project Name: KMI L1100-Hydrotest - SV2639ZL Tank

Project Id: KMI L1100- Hydrotest

Contact: Amy Blythe

Project Location: Lordburge, NM

Date Received in Lab: Sun Oct-29-17 10:00 am

Report Date: 03-NOV-17

Project Manager: Mike Kimmel

Analysis Requested	Lab Id:	566847-001	566847-002	566847-003	566847-004	566847-005	566847-006
	Field Id:	S102817 - 001, Site HZ Rup	WW102817-002, LBCS	WW102817-003, LBCS	WW102817-004, LBCS	WW102817-005, LBCS	WW102817-006, LBCS
	Depth:	6"- N/A	N/A	N/A	N/A	N/A	N/A
	Matrix:	SOIL	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER
	Sampled:	Oct-28-17 07:10	Oct-28-17 09:40	Oct-28-17 09:45	Oct-28-17 09:50	Oct-28-17 09:55	Oct-28-17 09:59
VOCs by SW-846 8260B SUB: TX104704215-17-23	Extracted:	Nov-01-17 12:02					
	Analyzed:	Nov-01-17 13:38					
	Units/RL:	mg/kg RL					
Dichlorodifluoromethane		<0.00502 0.00502					
1,2-Dichloroethane		<0.00502 0.00502					
1,1-Dichloroethane		<0.00502 0.00502					
trans-1,2-dichloroethylene		<0.00502 0.00502					
cis-1,2-Dichloroethylene		<0.00502 0.00502					
1,1-Dichloroethene		<0.00502 0.00502					
2,2-Dichloropropane		<0.00502 0.00502					
1,3-Dichloropropane		<0.00502 0.00502					
1,2-Dichloropropane		<0.00502 0.00502					
trans-1,3-dichloropropene		<0.00502 0.00502					
1,1-Dichloropropene		<0.00502 0.00502					
cis-1,3-Dichloropropene		<0.00502 0.00502					
Ethylbenzene		<0.00502 0.00502					
Hexachlorobutadiene		<0.00502 0.00502					
Isopropylbenzene		<0.00502 0.00502					
Methylene Chloride		<0.0201 0.0201					
MTBE		<0.00502 0.00502					
Naphthalene		<0.0100 0.0100					
n-Propylbenzene		<0.00502 0.00502					
Styrene		<0.00502 0.00502					
1,1,1,2-Tetrachloroethane		<0.00502 0.00502					
1,1,2,2-Tetrachloroethane		<0.00502 0.00502					
Tetrachloroethylene		<0.00502 0.00502					
Toluene		<0.00502 0.00502					

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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 566847

Kinder Morgan-El Paso, El Paso, TX

Project Name: KMI L1100-Hydrotest - SV2639ZL Tank

Project Id: KMI L1100- Hydrotest

Contact: Amy Blythe

Project Location: Lordburge, NM

Date Received in Lab: Sun Oct-29-17 10:00 am

Report Date: 03-NOV-17

Project Manager: Mike Kimmel

Analysis Requested	Lab Id:	566847-001	566847-002	566847-003	566847-004	566847-005	566847-006
	Field Id:	S102817 - 001, Site HZ Rup	WW102817-002, LBCS	WW102817-003, LBCS	WW102817-004, LBCS	WW102817-005, LBCS	WW102817-006, LBCS
	Depth:	6"- N/A	N/A	N/A	N/A	N/A	N/A
	Matrix:	SOIL	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER
	Sampled:	Oct-28-17 07:10	Oct-28-17 09:40	Oct-28-17 09:45	Oct-28-17 09:50	Oct-28-17 09:55	Oct-28-17 09:59
VOCs by SW-846 8260B SUB: TX104704215-17-23	Extracted:	Nov-01-17 12:02					
	Analyzed:	Nov-01-17 13:38					
	Units/RL:	mg/kg RL					
	1,2,3-Trichlorobenzene	<0.00502 0.00502					
	1,2,4-Trichlorobenzene	<0.00502 0.00502					
	1,1,2-Trichloroethane	<0.00502 0.00502					
	1,1,1-Trichloroethane	<0.00502 0.00502					
	Trichloroethylene	<0.00502 0.00502					
	Trichlorofluoromethane	<0.00502 0.00502					
	1,2,3-Trichloropropane	<0.00502 0.00502					
	1,2,4-Trimethylbenzene	<0.00502 0.00502					
	1,3,5-Trimethylbenzene	<0.00502 0.00502					
	Vinyl Chloride	<0.00201 0.00201					
	o-Xylene	<0.00502 0.00502					
	m,p-Xylenes	<0.0100 0.0100					
	Total Xylenes	<0.00502 0.00502					
pH by SM4500-H	Extracted:						
	Analyzed:			Oct-30-17 17:00			
Temperature	Units/RL:			Deg C RL			
				24.7 K			
pH by SM4500-H	Extracted:						
	Analyzed:			Oct-30-17 17:00			
pH	Units/RL:			SU RL			
				8.12 K			

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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 566847

Kinder Morgan-El Paso, El Paso, TX

Project Name: KMI L1100-Hydrotest - SV2639ZL Tank

Project Id: KMI L1100- Hydrotest

Contact: Amy Blythe

Project Location: Lordburge, NM

Date Received in Lab: Sun Oct-29-17 10:00 am

Report Date: 03-NOV-17

Project Manager: Mike Kimmel

Analysis Requested	Lab Id:	566847-007	566847-008				
	Field Id:	WW102817-007, LBCS	WW102817-008, LBCS				
	Depth:	N/A	N/A				
	Matrix:	WASTE WATER	WASTE WATER				
	Sampled:	Oct-28-17 10:05	Oct-28-17 10:15				
TCLP BTEX by SW 8260B SUB: TX104704215-17-23	Extracted:	Nov-01-17 11:30					
	Analyzed:	Nov-01-17 12:37					
	Units/RL:	mg/L RL					
	Benzene	<0.00500 0.00500					
	Toluene	<0.00500 0.00500					
Ethylbenzene		<0.00500 0.00500					
	m,p-Xylenes	<0.0100 0.0100					
	o-Xylene	<0.00500 0.00500					
TPH by SW 8015B SUB: TX104704215-17-23	Extracted:		Oct-31-17 16:24				
	Analyzed:		Nov-02-17 13:48				
	Units/RL:		mg/L RL				
	C6-C10 Gasoline Range Hydrocarbons		<1.43 1.43				
	C10-C28 Diesel Range Organics		<1.43 1.43				
Total TPH			<1.43 1.43				

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Mike Kimmel
Client Services Manager

Analytical Report 566847

for

Kinder Morgan-El Paso

Project Manager: Amy Blythe

KMI L1100-Hydrotest - SV2639ZL Tank

KMI L1100- Hydrotest

03-NOV-17

Collected By: Client



200 East Sunset Rd, Suite E, El Paso, TX 79922

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):

Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



03-NOV-17

Project Manager: **Amy Blythe**

Kinder Morgan-El Paso

8645 Railroad Dr.

El Paso, TX 79904

Reference: XENCO Report No(s): **566847**

KMI L1100-Hydrotest - SV2639ZL Tank

Project Address: Lordburge, NM

Amy Blythe :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 566847. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 566847 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink, appearing to read 'Mike Kimmel', is written over a light gray rectangular background.

Mike Kimmel

Client Services Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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**Sample Cross Reference 566847****Kinder Morgan-El Paso, El Paso, TX**

KMI L1100-Hydrotest - SV2639ZL Tank

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S102817 - 001, Site HZ Rupture	S	10-28-17 07:10	6" N/A	566847-001
WW102817-002, LBCS	W	10-28-17 09:40	N/A	566847-002
WW102817-003, LBCS	W	10-28-17 09:45	N/A	566847-003
WW102817-004, LBCS	W	10-28-17 09:50	N/A	566847-004
WW102817-005, LBCS	W	10-28-17 09:55	N/A	566847-005
WW102817-006, LBCS	W	10-28-17 09:59	N/A	566847-006
WW102817-007, LBCS	W	10-28-17 10:05	N/A	566847-007
WW102817-008, LBCS	W	10-28-17 10:15	N/A	566847-008

**CASE NARRATIVE****Client Name: Kinder Morgan-El Paso****Project Name: KMI L1100-Hydrotest - SV2639ZL Tank**

Project ID: KMI L1100- Hydrotest
Work Order Number(s): 566847

Report Date: 03-NOV-17
Date Received: 10/29/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3032172 VOCs by SW-846 8260B

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

Dichlorodifluoromethane recovered above QC limits in the Blank Spike and Duplicate. Analyte was not detected in any of the associated samples and therefore the data was accepted. Samples in the analytical batch are: 566847-001.

Lab Sample ID 566847-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Bromodichloromethane, Dibromochloromethane, Methylene Chloride, cis-1,3-Dichloropropene recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 566847-001.

The Laboratory Control Sample for Bromodichloromethane, Methylene Chloride, cis-1,3-Dichloropropene, Dibromochloromethane is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analytical Results 566847

Kinder Morgan-El Paso, El Paso, TX

KMI L1100-Hydrotest - SV2639ZL Tank

Sample Id: **S102817 - 001, Site HZ Rupture**

Matrix: Soil

Date Received: 10.29.17 10.00

Lab Sample Id: 566847-001

Date Collected: 10.28.17 07.10

Sample Depth: 6" N/A

Analytical Method: PCBs by EPA 8082

Prep Method: SW3545

Tech: DRU

% Moisture:

Analyst: JVI

Date Prep: 10.31.17 16.09

Basis: Wet Weight

Seq Number: 3032022

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
PCB-1016	12674-11-2	<0.00333	0.00333	mg/kg	11.01.17 12.41	U	1
PCB-1221	11104-28-2	<0.00333	0.00333	mg/kg	11.01.17 12.41	U	1
PCB-1232	11141-16-5	<0.00333	0.00333	mg/kg	11.01.17 12.41	U	1
PCB-1242	53469-21-9	<0.00333	0.00333	mg/kg	11.01.17 12.41	U	1
PCB-1248	12672-29-6	<0.00333	0.00333	mg/kg	11.01.17 12.41	U	1
PCB-1254	11097-69-1	0.0210	0.00333	mg/kg	11.01.17 12.41		1
PCB-1260	11096-82-5	<0.00333	0.00333	mg/kg	11.01.17 12.41	U	1
Total PCB	1336-36-3	0.0210	0.00333	mg/kg	11.01.17 12.41		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Decachlorobiphenyl	2051-24-3	112	%	39-125	11.01.17 12.41		
Tetrachloro-m-xylene	877-09-8	76	%	37-124	11.01.17 12.41		

Analytical Method: TPH by SW 8015B

Prep Method: SW8015P

Tech: MJP

% Moisture:

Analyst: ARL

Date Prep: 10.31.17 15.39

Basis: Wet Weight

Seq Number: 3032163

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	11.02.17 13.06	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<15.0	15.0	mg/kg	11.02.17 13.06	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.02.17 13.06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	126	%	70-135	11.02.17 13.06		
o-Terphenyl	84-15-1	110	%	70-135	11.02.17 13.06		



Certificate of Analytical Results 566847

Kinder Morgan-El Paso, El Paso, TX

KMI L1100-Hydrotest - SV2639ZL Tank

Sample Id: **S102817 - 001, Site HZ Rupture**

Matrix: Soil

Date Received: 10.29.17 10.00

Lab Sample Id: 566847-001

Date Collected: 10.28.17 07.10

Sample Depth: 6" N/A

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MCH

% Moisture:

Analyst: MCH

Date Prep: 11.01.17 12.02

Basis: Wet Weight

Seq Number: 3032172

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Bromobenzene	108-86-1	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Bromochloromethane	74-97-5	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Bromodichloromethane	75-27-4	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Bromoform	75-25-2	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Methyl bromide	74-83-9	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
tert-Butylbenzene	98-06-6	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Sec-Butylbenzene	135-98-8	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
n-Butylbenzene	104-51-8	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Carbon Tetrachloride	56-23-5	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Chlorobenzene	108-90-7	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Chloroethane	75-00-3	<0.0100	0.0100	mg/kg	11.01.17 13.38	U	1
Chloroform	67-66-3	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Methyl Chloride	74-87-3	<0.0100	0.0100	mg/kg	11.01.17 13.38	U	1
2-Chlorotoluene	95-49-8	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
4-Chlorotoluene	106-43-4	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Dibromochloromethane	124-48-1	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,2-Dibromoethane	106-93-4	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Methylene bromide	74-95-3	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,2-Dichlorobenzene	95-50-1	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,3-Dichlorobenzene	541-73-1	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,4-Dichlorobenzene	106-46-7	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Dichlorodifluoromethane	75-71-8	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,2-Dichloroethane	107-06-2	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,1-Dichloroethane	75-34-3	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
trans-1,2-dichloroethylene	156-60-5	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,1-Dichloroethene	75-35-4	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
2,2-Dichloropropane	594-20-7	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,3-Dichloropropane	142-28-9	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,2-Dichloropropane	78-87-5	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
trans-1,3-dichloropropene	10061-02-6	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,1-Dichloropropene	563-58-6	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Ethylbenzene	100-41-4	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Hexachlorobutadiene	87-68-3	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Isopropylbenzene	98-82-8	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1



Certificate of Analytical Results 566847

Kinder Morgan-El Paso, El Paso, TX

KMI L1100-Hydrotest - SV2639ZL Tank

Sample Id: **S102817 - 001, Site HZ Rupture**

Matrix: Soil

Date Received: 10.29.17 10.00

Lab Sample Id: 566847-001

Date Collected: 10.28.17 07.10

Sample Depth: 6" N/A

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MCH

% Moisture:

Analyst: MCH

Date Prep: 11.01.17 12.02

Basis: Wet Weight

Seq Number: 3032172

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methylene Chloride	75-09-2	<0.0201	0.0201	mg/kg	11.01.17 13.38	U	1
MTBE	1634-04-4	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Naphthalene	91-20-3	<0.0100	0.0100	mg/kg	11.01.17 13.38	U	1
n-Propylbenzene	103-65-1	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Styrene	100-42-5	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Tetrachloroethylene	127-18-4	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Toluene	108-88-3	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,1,2-Trichloroethane	79-00-5	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,1,1-Trichloroethane	71-55-6	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Trichloroethylene	79-01-6	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Trichlorofluoromethane	75-69-4	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,2,3-Trichloropropane	96-18-4	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
Vinyl Chloride	75-01-4	<0.00201	0.00201	mg/kg	11.01.17 13.38	U	1
o-Xylene	95-47-6	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1
m,p-Xylenes	179601-23-1	<0.0100	0.0100	mg/kg	11.01.17 13.38	U	1
Total Xylenes	1330-20-7	<0.00502	0.00502	mg/kg	11.01.17 13.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	103	%	53-142	11.01.17 13.38	
1,2-Dichloroethane-D4	17060-07-0	101	%	56-150	11.01.17 13.38	
Toluene-D8	2037-26-5	99	%	70-130	11.01.17 13.38	
4-Bromofluorobenzene	460-00-4	108	%	68-152	11.01.17 13.38	



Certificate of Analytical Results 566847

Kinder Morgan-El Paso, El Paso, TX

KMI L1100-Hydrotest - SV2639ZL Tank

Sample Id: **S102817 - 001, Site HZ Rupture**

Matrix: Soil

Date Received: 10.29.17 10.00

Lab Sample Id: 566847-001

Date Collected: 10.28.17 07.10

Sample Depth: 6" N/A

Analytical Method: TCLP BTEX by SW 8260B

Prep Method: SW5030B

Tech: JTR

% Moisture:

Analyst: JTR

Date Prep: 11.01.17 12.00

Seq Number: 3032118

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00500	0.00500	mg/L	11.01.17 12.18	U	5
Toluene	108-88-3	<0.00500	0.00500	mg/L	11.01.17 12.18	U	5
Ethylbenzene	100-41-4	<0.00500	0.00500	mg/L	11.01.17 12.18	U	5
m,p-Xylenes	179601-23-1	<0.0100	0.0100	mg/L	11.01.17 12.18	U	5
o-Xylene	95-47-6	<0.00500	0.00500	mg/L	11.01.17 12.18	U	5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane	1868-53-7	98	%	75-131	11.01.17 12.18		
1,2-Dichloroethane-D4	17060-07-0	110	%	63-144	11.01.17 12.18		
Toluene-D8	2037-26-5	86	%	80-117	11.01.17 12.18		



Certificate of Analytical Results 566847

Kinder Morgan-El Paso, El Paso, TX
KMI L1100-Hydrotest - SV2639ZL Tank

Sample Id: **WW102817-002, LBCS** Matrix: Waste Water Date Received:10.29.17 10.00
Lab Sample Id: 566847-002 Date Collected: 10.28.17 09.40

Analytical Method: Flash Point (CC) SW-846 1010

Tech: DHE % Moisture:
Analyst: DHE
Seq Number: 3032051 SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Flash Point		>180		Deg F	11.01.17 14.30	U	1

**Certificate of Analytical Results 566847****Kinder Morgan-El Paso, El Paso, TX****KMI L1100-Hydrotest - SV2639ZL Tank**Sample Id: **WW102817-003, LBCS**

Matrix: Waste Water

Date Received: 10.29.17 10.00

Lab Sample Id: 566847-003

Date Collected: 10.28.17 09.45

Analytical Method: pH by SM4500-H

Tech: MLC

% Moisture:

Analyst: MLC

Seq Number: 3031894

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
pH	12408-02-5	8.12		SU	10.30.17 17.00	K	1
Temperature	TEMP	24.7		Deg C	10.30.17 17.00	K	1



Certificate of Analytical Results 566847

Kinder Morgan-El Paso, El Paso, TX

KMI L1100-Hydrotest - SV2639ZL Tank

Sample Id: **WW102817-004, LBCS**

Matrix: Waste Water

Date Received: 10.29.17 10.00

Lab Sample Id: 566847-004

Date Collected: 10.28.17 09.50

Analytical Method: VOCs By SW846 8260C

Prep Method: SW5030C

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 10.31.17 17.00

Seq Number: 3032034

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Bromobenzene	108-86-1	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Bromochloromethane	74-97-5	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Bromodichloromethane	75-27-4	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Bromoform	75-25-2	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Methyl bromide	74-83-9	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
n-Butylbenzene	104-51-8	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Sec-Butylbenzene	135-98-8	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
tert-Butylbenzene	98-06-6	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Carbon Tetrachloride	56-23-5	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Chlorobenzene	108-90-7	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Chloroethane	75-00-3	<0.0100	0.0100	mg/L	10.31.17 17.37	U	1
Chloroform	67-66-3	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Methyl Chloride	74-87-3	<0.0100	0.0100	mg/L	10.31.17 17.37	U	1
2-Chlorotoluene	95-49-8	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
4-Chlorotoluene	106-43-4	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Dibromochloromethane	124-48-1	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,2-Dibromoethane	106-93-4	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Methylene bromide	74-95-3	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,2-Dichlorobenzene	95-50-1	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,3-Dichlorobenzene	541-73-1	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,4-Dichlorobenzene	106-46-7	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Dichlorodifluoromethane	75-71-8	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,1-Dichloroethane	75-34-3	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,2-Dichloroethane	107-06-2	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,1-Dichloroethene	75-35-4	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
trans-1,2-dichloroethylene	156-60-5	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,2-Dichloropropane	78-87-5	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,3-Dichloropropane	142-28-9	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
2,2-Dichloropropane	594-20-7	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,1-Dichloropropene	563-58-6	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
trans-1,3-dichloropropene	10061-02-6	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Ethylbenzene	100-41-4	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Hexachlorobutadiene	87-68-3	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Isopropylbenzene	98-82-8	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1



Certificate of Analytical Results 566847

Kinder Morgan-El Paso, El Paso, TX

KMI L1100-Hydrotest - SV2639ZL Tank

Sample Id: **WW102817-004, LBCS**

Matrix: Waste Water

Date Received: 10.29.17 10.00

Lab Sample Id: 566847-004

Date Collected: 10.28.17 09.50

Analytical Method: VOCs By SW846 8260C

Prep Method: SW5030C

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 10.31.17 17.00

Seq Number: 3032034

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methylene Chloride	75-09-2	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
MTBE	1634-04-4	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Naphthalene	91-20-3	<0.0100	0.0100	mg/L	10.31.17 17.37	U	1
n-Propylbenzene	103-65-1	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Styrene	100-42-5	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Tetrachloroethylene	127-18-4	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Toluene	108-88-3	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,1,1-Trichloroethane	71-55-6	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,1,2-Trichloroethane	79-00-5	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Trichloroethylene	79-01-6	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
Trichlorofluoromethane	75-69-4	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,2,3-Trichloropropane	96-18-4	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
o-Xylene	95-47-6	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1
m,p-Xylenes	179601-23-1	<0.0100	0.0100	mg/L	10.31.17 17.37	U	1
Vinyl Chloride	75-01-4	<0.00200	0.00200	mg/L	10.31.17 17.37	U	1
Total Xylenes	1330-20-7	<0.00500	0.00500	mg/L	10.31.17 17.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	103	%	75-131	10.31.17 17.37	
1,2-Dichloroethane-D4	17060-07-0	97	%	63-144	10.31.17 17.37	
Toluene-D8	2037-26-5	101	%	80-117	10.31.17 17.37	
4-Bromofluorobenzene	460-00-4	105	%	74-124	10.31.17 17.37	



Certificate of Analytical Results 566847

Kinder Morgan-El Paso, El Paso, TX

KMI L1100-Hydrotest - SV2639ZL Tank

Sample Id: **WW102817-005, LBCS**

Matrix: Waste Water

Date Received: 10.29.17 10.00

Lab Sample Id: 566847-005

Date Collected: 10.28.17 09.55

Analytical Method: TCLP Mercury by SW 7470A

Prep Method: SW7470P

Tech: PJB

% Moisture:

Analyst: ELW

Date Prep: 11.02.17 12.40

Seq Number: 3032221

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	<0.000200	0.000200	mg/L	11.02.17 18.17	U	1

Analytical Method: TCLP Metals by SW 1311/6010B

Prep Method: SW3010A

Tech: MLI

% Moisture:

Analyst: DEP

Date Prep: 11.02.17 07.55

Seq Number: 3032235

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	<0.0500	0.0500	mg/L	11.02.17 17.40	U	1
Barium	7440-39-3	<0.0500	0.0500	mg/L	11.02.17 17.40	U	1
Cadmium	7440-43-9	<0.0250	0.0250	mg/L	11.02.17 17.40	U	1
Chromium	7440-47-3	<0.0500	0.0500	mg/L	11.02.17 17.40	U	1
Lead	7439-92-1	<0.0500	0.0500	mg/L	11.02.17 17.40	U	1
Selenium	7782-49-2	<0.100	0.100	mg/L	11.02.17 17.40	U	1
Silver	7440-22-4	<0.100	0.100	mg/L	11.02.17 17.40	U	1



Certificate of Analytical Results 566847

Kinder Morgan-El Paso, El Paso, TX

KMI L1100-Hydrotest - SV2639ZL Tank

Sample Id: **WW102817-006, LBCS**

Matrix: Waste Water

Date Received: 10.29.17 10.00

Lab Sample Id: 566847-006

Date Collected: 10.28.17 09.59

Analytical Method: PCBs by EPA 8082

Prep Method: SW3510C

Tech: JVI

% Moisture:

Analyst: JVI

Date Prep: 10.31.17 16.46

Seq Number: 3032089

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
PCB-1016	12674-11-2	<0.000111	0.000111	mg/L	11.01.17 15.02	U	1
PCB-1221	11104-28-2	<0.000111	0.000111	mg/L	11.01.17 15.02	U	1
PCB-1232	11141-16-5	<0.000111	0.000111	mg/L	11.01.17 15.02	U	1
PCB-1242	53469-21-9	<0.000111	0.000111	mg/L	11.01.17 15.02	U	1
PCB-1248	12672-29-6	<0.000111	0.000111	mg/L	11.01.17 15.02	U	1
PCB-1254	11097-69-1	<0.000111	0.000111	mg/L	11.01.17 15.02	U	1
PCB-1260	11096-82-5	<0.000111	0.000111	mg/L	11.01.17 15.02	U	1
Total PCB	1336-36-3	<0.000111	0.000111	mg/L	11.01.17 15.02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Decachlorobiphenyl	2051-24-3	90	%	45-162	11.01.17 15.02		
Tetrachloro-m-xylene	877-09-8	61	%	50-125	11.01.17 15.02		



Certificate of Analytical Results 566847

Kinder Morgan-El Paso, El Paso, TX

KMI L1100-Hydrotest - SV2639ZL Tank

Sample Id: **WW102817-007, LBCS**

Matrix: Waste Water

Date Received: 10.29.17 10.00

Lab Sample Id: 566847-007

Date Collected: 10.28.17 10.05

Analytical Method: TCLP BTEX by SW 8260B

Prep Method: SW5030B

Tech: JTR

% Moisture:

Analyst: JTR

Date Prep: 11.01.17 11.30

Seq Number: 3032121

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00500	0.00500	mg/L	11.01.17 12.37	U	5
Toluene	108-88-3	<0.00500	0.00500	mg/L	11.01.17 12.37	U	5
Ethylbenzene	100-41-4	<0.00500	0.00500	mg/L	11.01.17 12.37	U	5
m,p-Xylenes	179601-23-1	<0.0100	0.0100	mg/L	11.01.17 12.37	U	5
o-Xylene	95-47-6	<0.00500	0.00500	mg/L	11.01.17 12.37	U	5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane	1868-53-7	96	%	75-131	11.01.17 12.37		
1,2-Dichloroethane-D4	17060-07-0	114	%	63-144	11.01.17 12.37		
Toluene-D8	2037-26-5	90	%	80-117	11.01.17 12.37		



Certificate of Analytical Results 566847

Kinder Morgan-El Paso, El Paso, TX

KMI L1100-Hydrotest - SV2639ZL Tank

Sample Id: **WW102817-008, LBCS**

Matrix: Waste Water

Date Received: 10.29.17 10.00

Lab Sample Id: 566847-008

Date Collected: 10.28.17 10.15

Analytical Method: TPH by SW 8015B

Prep Method: SW8015P

Tech: MJP

% Moisture:

Analyst: ARL

Date Prep: 10.31.17 16.24

Seq Number: 3032158

SUB: TX104704215-17-23

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<1.43	1.43	mg/L	11.02.17 13.48	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<1.43	1.43	mg/L	11.02.17 13.48	U	1
Total TPH	PHC635	<1.43	1.43	mg/L	11.02.17 13.48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	99	%	70-135	11.02.17 13.48		
o-Terphenyl	84-15-1	88	%	70-135	11.02.17 13.48		



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

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

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(602) 437-0330	



Kinder Morgan-El Paso
KMI L1100-Hydrotest - SV2639ZL Tank

Analytical Method: pH by SM4500-H

Seq Number: 3031894

Matrix: Waste Water

Parent Sample Id: 566847-003

MD Sample Id: 566847-003 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
pH	8.12	8.13	0	20	SU	10.30.17 17:00	
Temperature	24.7	24.6	0	20	Deg C	10.30.17 17:00	

Analytical Method: TCLP Mercury by SW 7470A

Seq Number: 3032221

Matrix: Water

Prep Method: SW7470P

MB Sample Id: 7633673-1-BLK

LCS Sample Id: 7633673-1-BKS

Date Prep: 11.02.17

LCSD Sample Id: 7633673-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.000200	0.00200	0.00201	101	0.00202	101	80-120	0	20	mg/L	11.02.17 17:31	

Analytical Method: TCLP Mercury by SW 7470A

Seq Number: 3032221

Matrix: Solid

Prep Method: SW7470P

Parent Sample Id: 566608-001

MS Sample Id: 566608-001 S

Date Prep: 11.02.17

MSD Sample Id: 566608-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.000200	0.00200	0.00193	97	0.00191	96	75-125	1	20	mg/L	11.02.17 17:36	

Analytical Method: TCLP Mercury by SW 7470A

Seq Number: 3032221

Matrix: Soil

Prep Method: SW7470P

Parent Sample Id: 566625-007

MS Sample Id: 566625-007 S

Date Prep: 11.02.17

MSD Sample Id: 566625-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.000200	0.00200	0.00201	101	0.00219	110	75-125	9	20	mg/L	11.02.17 17:42	

Analytical Method: TCLP Metals by SW 1311/6010B

Seq Number: 3032235

Matrix: Water

Prep Method: SW3010A

MB Sample Id: 7633632-1-BLK

LCS Sample Id: 7633632-1-BKS

Date Prep: 11.02.17

LCSD Sample Id: 7633632-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.0100	1.00	0.920	92	0.927	93	75-125	1	20	mg/L	11.02.17 17:32	
Barium	<0.0100	1.00	0.930	93	0.927	93	75-125	0	20	mg/L	11.02.17 17:32	
Cadmium	<0.00500	1.00	0.946	95	0.938	94	75-125	1	20	mg/L	11.02.17 17:32	
Chromium	<0.0100	1.00	0.972	97	0.961	96	75-125	1	20	mg/L	11.02.17 17:32	
Lead	<0.0100	1.00	0.982	98	0.976	98	75-125	1	20	mg/L	11.02.17 17:32	
Selenium	<0.0200	1.00	0.936	94	0.923	92	75-125	1	20	mg/L	11.02.17 17:32	
Silver	<0.0200	0.500	0.487	97	0.484	97	75-125	1	20	mg/L	11.02.17 17:32	



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Analytical Method: TCLP Metals by SW 1311/6010B

Seq Number: 3032235

Matrix: Soil

Prep Method: SW3010A

Parent Sample Id: 566899-001

MS Sample Id: 566899-001 S

Date Prep: 11.02.17

MSD Sample Id: 566899-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.0500	5.00	4.73	95	4.60	92	75-125	3	20	mg/L	11.02.17 17:48	
Barium	0.429	5.00	4.94	90	4.92	90	75-125	0	20	mg/L	11.02.17 17:48	
Cadmium	<0.0250	5.00	4.76	95	4.76	95	75-125	0	20	mg/L	11.02.17 17:48	
Chromium	<0.0500	5.00	4.83	97	4.81	96	75-125	0	20	mg/L	11.02.17 17:48	
Lead	0.0730	5.00	4.92	97	4.89	96	75-125	1	20	mg/L	11.02.17 17:48	
Selenium	<0.100	5.00	4.87	97	4.82	96	75-125	1	20	mg/L	11.02.17 17:48	
Silver	<0.100	2.50	2.43	97	2.43	97	75-125	0	20	mg/L	11.02.17 17:48	

Analytical Method: Flash Point (CC) SW-846 1010

Seq Number: 3032051

Matrix: Water

LCS Sample Id: 3032051-1-BKS

Parameter		Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Flash Point	80.0	81.0	80.0	99	70-140	Deg F	11.01.17 10:00	

Analytical Method: Flash Point (CC) SW-846 1010

Seq Number: 3032021

Matrix: Waste Water

Parent Sample Id: 566847-002

MD Sample Id: 566847-002 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Flash Point	>180	>180	0	25	Deg F	11.01.17 15:20	U

Analytical Method: PCBs by EPA 8082

Seq Number: 3032022

Matrix: Solid

Prep Method: SW3545

MB Sample Id: 7633410-1-BLK

LCS Sample Id: 7633410-1-BKS

Date Prep: 10.31.17

LCSD Sample Id: 7633410-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
PCB-1016	<0.00333	0.167	0.176	105	0.155	93	56-121	13	20	mg/kg	11.01.17 10:02	
PCB-1260	<0.00333	0.167	0.173	104	0.152	91	41-126	13	20	mg/kg	11.01.17 10:02	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
Decachlorobiphenyl	96		100		83		39-125	%	11.01.17 10:02			
Tetrachloro-m-xylene	101		105		92		37-124	%	11.01.17 10:02			



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Analytical Method: PCBs by EPA 8082

Seq Number: 3032089

MB Sample Id: 7633587-1-BLK

Matrix: Water

LCS Sample Id: 7633587-1-BKS

Prep Method: SW3510C

Date Prep: 10.31.17

LCSD Sample Id: 7633587-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
PCB-1016	<0.000100	0.00500	0.00455	91	0.00397	79	54-125	14	20	mg/L	11.01.17 14:41	
PCB-1260	<0.000100	0.00500	0.00469	94	0.00394	79	41-126	17	20	mg/L	11.01.17 14:41	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
Decachlorobiphenyl	91		97		81		45-162	%	11.01.17 14:41			
Tetrachloro-m-xylene	83		86		75		50-125	%	11.01.17 14:41			

Analytical Method: PCBs by EPA 8082

Seq Number: 3032022

Parent Sample Id: 567008-001

Matrix: Soil

MS Sample Id: 567008-001 S

Prep Method: SW3545

Date Prep: 10.31.17

MSD Sample Id: 567008-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
PCB-1016	<0.00364	0.182	0.143	79	0.156	86	56-121	9	20	mg/kg	11.01.17 10:23	
PCB-1260	<0.00364	0.182	0.191	105	0.194	107	41-126	2	20	mg/kg	11.01.17 10:23	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
Decachlorobiphenyl			102		116		39-125	%	11.01.17 10:23			
Tetrachloro-m-xylene			76		81		37-124	%	11.01.17 10:23			

Analytical Method: TPH by SW 8015B

Seq Number: 3032163

MB Sample Id: 7633557-1-BLK

Matrix: Solid

LCS Sample Id: 7633557-1-BKS

Prep Method: SW8015P

Date Prep: 10.31.17

LCSD Sample Id: 7633557-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	774	77	819	82	70-135	6	35	mg/kg	10.31.17 10:18	
C10-C28 Diesel Range Organics	<15.0	1000	915	92	957	96	70-135	4	35	mg/kg	10.31.17 10:18	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	129		70		74		70-135	%	10.31.17 10:18			
o-Terphenyl	124		74		72		70-135	%	10.31.17 10:18			



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Analytical Method: TPH by SW 8015B

Seq Number: 3032158

MB Sample Id: 7633558-1-BLK

Matrix: Water

LCS Sample Id: 7633558-1-BKS

Prep Method: SW8015P

Date Prep: 10.31.17

LCSD Sample Id: 7633558-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<1.50	100	90.5	91	76.8	77	70-135	16	25	mg/L	11.01.17 21:20	
C10-C28 Diesel Range Organics	<1.50	100	103	103	90.6	91	70-135	13	25	mg/L	11.01.17 21:20	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	129		81		84		70-135	%	11.01.17 21:20			
o-Terphenyl	119		74		73		70-135	%	11.01.17 21:20			

Analytical Method: TCLP BTEX by SW 8260B

Seq Number: 3032118

MB Sample Id: 7633629-1-BLK

Matrix: Water

LCS Sample Id: 7633629-1-BKS

Prep Method: SW5030B

Date Prep: 11.01.17

LCSD Sample Id: 7633629-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00500	0.500	0.421	84	0.416	83	66-142	1	20	mg/L	11.01.17 08:57	
Toluene	<0.00500	0.500	0.450	90	0.439	88	59-139	2	20	mg/L	11.01.17 08:57	
Ethylbenzene	<0.00500	0.500	0.484	97	0.468	94	75-125	3	20	mg/L	11.01.17 08:57	
m,p-Xylenes	<0.0100	1.00	1.00	100	0.965	97	75-125	4	20	mg/L	11.01.17 08:57	
o-Xylene	<0.00500	0.500	0.498	100	0.485	97	75-125	3	20	mg/L	11.01.17 08:57	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date	Flag		
Dibromofluoromethane	97		92		92		75-131	%	11.01.17 08:57			
1,2-Dichloroethane-D4	106		106		107		63-144	%	11.01.17 08:57			
Toluene-D8	88		96		96		80-117	%	11.01.17 08:57			

Analytical Method: TCLP BTEX by SW 8260B

Seq Number: 3032121

MB Sample Id: 7633630-1-BLK

Matrix: Water

LCS Sample Id: 7633630-1-BKS

Prep Method: SW5030B

Date Prep: 11.01.17

LCSD Sample Id: 7633630-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.0918	92	0.0915	92	66-142	0	20	mg/L	11.01.17 07:48	
Toluene	<0.00100	0.100	0.0962	96	0.0953	95	59-139	1	20	mg/L	11.01.17 07:48	
Ethylbenzene	<0.00100	0.100	0.103	103	0.103	103	75-125	0	20	mg/L	11.01.17 07:48	
m,p-Xylenes	<0.00200	0.200	0.212	106	0.210	105	75-125	1	20	mg/L	11.01.17 07:48	
o-Xylene	<0.00100	0.100	0.106	106	0.106	106	75-125	0	20	mg/L	11.01.17 07:48	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
Dibromofluoromethane	95		96		97		75-131			%	11.01.17 07:48	
1,2-Dichloroethane-D4	106		114		115		63-144			%	11.01.17 07:48	
Toluene-D8	87		95		97		80-117			%	11.01.17 07:48	



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Analytical Method: TCLP BTEX by SW 8260B

Seq Number: 3032121

Parent Sample Id: 566835-001

Matrix: Waste Water

MS Sample Id: 566835-001 S

Prep Method: SW5030B

Date Prep: 11.01.17

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.0860	86	66-142	mg/L	11.01.17 08:33	
Toluene	<0.00100	0.100	0.0910	91	59-139	mg/L	11.01.17 08:33	
Ethylbenzene	0.0358	0.100	0.131	95	75-125	mg/L	11.01.17 08:33	
m,p-Xylenes	0.158	0.200	0.341	92	75-125	mg/L	11.01.17 08:33	
o-Xylene	0.104	0.100	0.193	89	75-125	mg/L	11.01.17 08:33	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Dibromofluoromethane	93		75-131	%	11.01.17 08:33
1,2-Dichloroethane-D4	109		63-144	%	11.01.17 08:33
Toluene-D8	98		80-117	%	11.01.17 08:33

Analytical Method: TCLP BTEX by SW 8260B

Seq Number: 3032118

Parent Sample Id: 566847-001

Matrix: Soil

MS Sample Id: 566847-001 S

Prep Method: SW5030B

Date Prep: 11.01.17

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.00500	0.500	0.421	84	66-142	mg/L	11.01.17 15:14	
Toluene	<0.00500	0.500	0.445	89	59-139	mg/L	11.01.17 15:14	
Ethylbenzene	<0.00500	0.500	0.467	93	75-125	mg/L	11.01.17 15:14	
m,p-Xylenes	<0.0100	1.00	0.987	99	75-125	mg/L	11.01.17 15:14	
o-Xylene	<0.00500	0.500	0.496	99	75-125	mg/L	11.01.17 15:14	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Dibromofluoromethane	99		75-131	%	11.01.17 15:14
1,2-Dichloroethane-D4	99		63-144	%	11.01.17 15:14
Toluene-D8	97		80-117	%	11.01.17 15:14



Kinder Morgan-El Paso
KMI L1100-Hydrotest - SV2639ZL Tank

Analytical Method: VOCs By SW846 8260C

Seq Number: 3032034

MB Sample Id: 7633590-1-BLK

Matrix: Water

LCS Sample Id: 7633590-1-BKS

Prep Method: SW5030C

Date Prep: 10.31.17

LCSD Sample Id: 7633590-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00500	0.0500	0.0468	94	0.0428	86	66-142	9	25	mg/L	10.31.17 13:42	
Bromobenzene	<0.00500	0.0500	0.0464	93	0.0420	84	75-125	10	25	mg/L	10.31.17 13:42	
Bromochloromethane	<0.00500	0.0500	0.0502	100	0.0475	95	60-140	6	25	mg/L	10.31.17 13:42	
Bromodichloromethane	<0.00500	0.0500	0.0509	102	0.0472	94	75-125	8	25	mg/L	10.31.17 13:42	
Bromoform	<0.00500	0.0500	0.0555	111	0.0545	109	75-125	2	25	mg/L	10.31.17 13:42	
Methyl bromide	<0.00500	0.0500	0.0451	90	0.0426	85	60-140	6	25	mg/L	10.31.17 13:42	
n-Butylbenzene	<0.00500	0.0500	0.0528	106	0.0469	94	75-125	12	25	mg/L	10.31.17 13:42	
Sec-Butylbenzene	<0.00500	0.0500	0.0520	104	0.0466	93	75-125	11	25	mg/L	10.31.17 13:42	
tert-Butylbenzene	<0.00500	0.0500	0.0527	105	0.0465	93	75-125	13	25	mg/L	10.31.17 13:42	
Carbon Tetrachloride	<0.00500	0.0500	0.0533	107	0.0487	97	62-125	9	25	mg/L	10.31.17 13:42	
Chlorobenzene	<0.00500	0.0500	0.0481	96	0.0440	88	60-133	9	25	mg/L	10.31.17 13:42	
Chloroethane	<0.0100	0.0500	0.0472	94	0.0435	87	60-140	8	25	mg/L	10.31.17 13:42	
Chloroform	<0.00500	0.0500	0.0484	97	0.0456	91	70-130	6	25	mg/L	10.31.17 13:42	
Methyl Chloride	<0.0100	0.0500	0.0424	85	0.0385	77	60-140	10	25	mg/L	10.31.17 13:42	
2-Chlorotoluene	<0.00500	0.0500	0.0480	96	0.0441	88	73-125	8	25	mg/L	10.31.17 13:42	
4-Chlorotoluene	<0.00500	0.0500	0.0476	95	0.0436	87	74-125	9	25	mg/L	10.31.17 13:42	
p-Cymene (p-Isopropyltoluene)	<0.00500	0.0500	0.0528	106	0.0474	95	75-125	11	25	mg/L	10.31.17 13:42	
Dibromochloromethane	<0.00500	0.0500	0.0517	103	0.0492	98	73-125	5	25	mg/L	10.31.17 13:42	
1,2-Dibromo-3-Chloropropane	<0.00500	0.0500	0.0467	93	0.0441	88	59-125	6	25	mg/L	10.31.17 13:42	
1,2-Dibromoethane	<0.00500	0.0500	0.0476	95	0.0461	92	73-125	3	25	mg/L	10.31.17 13:42	
Methylene bromide	<0.00500	0.0500	0.0472	94	0.0456	91	69-127	3	25	mg/L	10.31.17 13:42	
1,2-Dichlorobenzene	<0.00500	0.0500	0.0463	93	0.0426	85	75-125	8	25	mg/L	10.31.17 13:42	
1,3-Dichlorobenzene	<0.00500	0.0500	0.0460	92	0.0419	84	75-125	9	25	mg/L	10.31.17 13:42	
1,4-Dichlorobenzene	<0.00500	0.0500	0.0451	90	0.0413	83	75-125	9	25	mg/L	10.31.17 13:42	
Dichlorodifluoromethane	<0.00500	0.0500	0.0419	84	0.0384	77	70-130	9	25	mg/L	10.31.17 13:42	
1,1-Dichloroethane	<0.00500	0.0500	0.0510	102	0.0467	93	72-125	9	25	mg/L	10.31.17 13:42	
1,2-Dichloroethane	<0.00500	0.0500	0.0448	90	0.0425	85	68-127	5	25	mg/L	10.31.17 13:42	
1,1-Dichloroethene	<0.00500	0.0500	0.0497	99	0.0461	92	59-172	8	25	mg/L	10.31.17 13:42	
cis-1,2-Dichloroethylene	<0.00500	0.0500	0.0494	99	0.0467	93	75-125	6	25	mg/L	10.31.17 13:42	
trans-1,2-dichloroethylene	<0.00500	0.0500	0.0482	96	0.0448	90	75-125	7	25	mg/L	10.31.17 13:42	
1,2-Dichloropropane	<0.00500	0.0500	0.0496	99	0.0463	93	74-125	7	25	mg/L	10.31.17 13:42	
1,3-Dichloropropane	<0.00500	0.0500	0.0475	95	0.0454	91	75-125	5	25	mg/L	10.31.17 13:42	
2,2-Dichloropropane	<0.00500	0.0500	0.0540	108	0.0494	99	75-125	9	25	mg/L	10.31.17 13:42	
1,1-Dichloropropene	<0.00500	0.0500	0.0525	105	0.0481	96	75-125	9	25	mg/L	10.31.17 13:42	
cis-1,3-Dichloropropene	<0.00500	0.0500	0.0535	107	0.0499	100	74-125	7	25	mg/L	10.31.17 13:42	
trans-1,3-dichloropropene	<0.00500	0.0500	0.0519	104	0.0489	98	66-125	6	25	mg/L	10.31.17 13:42	
Ethylbenzene	<0.00500	0.0500	0.0477	95	0.0440	88	75-125	8	25	mg/L	10.31.17 13:42	
Hexachlorobutadiene	<0.00500	0.0500	0.0438	88	0.0391	78	75-125	11	25	mg/L	10.31.17 13:42	
Isopropylbenzene	<0.00500	0.0500	0.0510	102	0.0466	93	75-125	9	25	mg/L	10.31.17 13:42	
Methylene Chloride	<0.00500	0.0500	0.0432	86	0.0402	80	75-125	7	25	mg/L	10.31.17 13:42	
MTBE	<0.00500	0.0500	0.0533	107	0.0518	104	65-135	3	25	mg/L	10.31.17 13:42	
Naphthalene	<0.0100	0.0500	0.0444	89	0.0447	89	70-130	1	25	mg/L	10.31.17 13:42	
n-Propylbenzene	<0.00500	0.0500	0.0504	101	0.0458	92	75-125	10	25	mg/L	10.31.17 13:42	
Styrene	<0.00500	0.0500	0.0533	107	0.0494	99	75-125	8	25	mg/L	10.31.17 13:42	
1,1,1,2-Tetrachloroethane	<0.00500	0.0500	0.0497	99	0.0461	92	72-125	8	25	mg/L	10.31.17 13:42	
1,1,2,2-Tetrachloroethane	<0.00500	0.0500	0.0474	95	0.0461	92	74-125	3	25	mg/L	10.31.17 13:42	
Tetrachloroethylene	<0.00500	0.0500	0.0454	91	0.0419	84	71-125	8	25	mg/L	10.31.17 13:42	
Toluene	<0.00500	0.0500	0.0460	92	0.0426	85	59-139	8	25	mg/L	10.31.17 13:42	
1,2,3-Trichlorobenzene	<0.00500	0.0500	0.0430	86	0.0419	84	75-137	3	25	mg/L	10.31.17 13:42	
1,2,4-Trichlorobenzene	<0.00500	0.0500	0.0427	85	0.0410	82	75-135	4	25	mg/L	10.31.17 13:42	
1,1,1-Trichloroethane	<0.00500	0.0500	0.0508	102	0.0456	91	75-125	11	25	mg/L	10.31.17 13:42	
1,1,2-Trichloroethane	<0.00500	0.0500	0.0469	94	0.0450	90	75-127	4	25	mg/L	10.31.17 13:42	



Kinder Morgan-El Paso
KMI L1100-Hydrotest - SV2639ZL Tank

Analytical Method: VOCs By SW846 8260C

Seq Number: 3032034

MB Sample Id: 7633590-1-BLK

Matrix: Water

LCS Sample Id: 7633590-1-BKS

Prep Method: SW5030C

Date Prep: 10.31.17

LCSD Sample Id: 7633590-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Trichloroethylene	<0.00500	0.0500	0.0473	95	0.0435	87	62-137	8	25	mg/L	10.31.17 13:42	
Trichlorofluoromethane	<0.00500	0.0500	0.0505	101	0.0450	90	60-140	12	25	mg/L	10.31.17 13:42	
1,2,3-Trichloropropane	<0.00500	0.0500	0.0482	96	0.0462	92	75-125	4	25	mg/L	10.31.17 13:42	
1,2,4-Trimethylbenzene	<0.00500	0.0500	0.0504	101	0.0453	91	75-125	11	25	mg/L	10.31.17 13:42	
1,3,5-Trimethylbenzene	<0.00500	0.0500	0.0498	100	0.0443	89	70-125	12	25	mg/L	10.31.17 13:42	
o-Xylene	<0.00500	0.0500	0.0507	101	0.0464	93	75-125	9	25	mg/L	10.31.17 13:42	
m,p-Xylenes	<0.0100	0.100	0.0973	97	0.0898	90	75-125	8	25	mg/L	10.31.17 13:42	
Vinyl Chloride	<0.00200	0.0500	0.0503	101	0.0448	90	60-140	12	25	mg/L	10.31.17 13:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	100		102		102		75-131	%	10.31.17 13:42
1,2-Dichloroethane-D4	95		94		95		63-144	%	10.31.17 13:42
Toluene-D8	102		97		97		80-117	%	10.31.17 13:42
4-Bromofluorobenzene	106		105		104		74-124	%	10.31.17 13:42



Kinder Morgan-El Paso
KMI L1100-Hydrotest - SV2639ZL Tank

Analytical Method: VOCs By SW846 8260C

Seq Number: 3032034

Matrix: Water

Prep Method: SW5030C

Parent Sample Id: 566650-005

MS Sample Id: 566650-005 S

Date Prep: 10.31.17

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.00500	0.0500	0.0432	86	66-142	mg/L	10.31.17 14:54	
Bromobenzene	<0.00500	0.0500	0.0438	88	75-125	mg/L	10.31.17 14:54	
Bromochloromethane	<0.00500	0.0500	0.0464	93	60-140	mg/L	10.31.17 14:54	
Bromodichloromethane	<0.00500	0.0500	0.0465	93	75-125	mg/L	10.31.17 14:54	
Bromoform	<0.00500	0.0500	0.0517	103	75-125	mg/L	10.31.17 14:54	
Methyl bromide	<0.00500	0.0500	0.0402	80	60-140	mg/L	10.31.17 14:54	
n-Butylbenzene	<0.00500	0.0500	0.0510	102	75-125	mg/L	10.31.17 14:54	
Sec-Butylbenzene	<0.00500	0.0500	0.0502	100	75-125	mg/L	10.31.17 14:54	
tert-Butylbenzene	<0.00500	0.0500	0.0499	100	75-125	mg/L	10.31.17 14:54	
Carbon Tetrachloride	<0.00500	0.0500	0.0511	102	62-125	mg/L	10.31.17 14:54	
Chlorobenzene	<0.00500	0.0500	0.0449	90	60-133	mg/L	10.31.17 14:54	
Chloroethane	<0.0100	0.0500	0.0425	85	60-140	mg/L	10.31.17 14:54	
Chloroform	<0.00500	0.0500	0.0456	91	70-130	mg/L	10.31.17 14:54	
Methyl Chloride	<0.0100	0.0500	0.0376	75	60-140	mg/L	10.31.17 14:54	
2-Chlorotoluene	<0.00500	0.0500	0.0460	92	73-125	mg/L	10.31.17 14:54	
4-Chlorotoluene	<0.00500	0.0500	0.0448	90	74-125	mg/L	10.31.17 14:54	
p-Cymene (p-Isopropyltoluene)	<0.00500	0.0500	0.0507	101	75-125	mg/L	10.31.17 14:54	
Dibromochloromethane	<0.00500	0.0500	0.0484	97	73-125	mg/L	10.31.17 14:54	
1,2-Dibromo-3-Chloropropane	<0.00500	0.0500	0.0424	85	59-125	mg/L	10.31.17 14:54	
1,2-Dibromoethane	<0.00500	0.0500	0.0443	89	73-125	mg/L	10.31.17 14:54	
Methylene bromide	<0.00500	0.0500	0.0439	88	69-127	mg/L	10.31.17 14:54	
1,2-Dichlorobenzene	<0.00500	0.0500	0.0436	87	75-125	mg/L	10.31.17 14:54	
1,3-Dichlorobenzene	<0.00500	0.0500	0.0434	87	75-125	mg/L	10.31.17 14:54	
1,4-Dichlorobenzene	<0.00500	0.0500	0.0429	86	75-125	mg/L	10.31.17 14:54	
Dichlorodifluoromethane	<0.00500	0.0500	0.0380	76	70-130	mg/L	10.31.17 14:54	
1,1-Dichloroethane	<0.00500	0.0500	0.0474	95	72-125	mg/L	10.31.17 14:54	
1,2-Dichloroethane	<0.00500	0.0500	0.0407	81	68-127	mg/L	10.31.17 14:54	
1,1-Dichloroethene	<0.00500	0.0500	0.0472	94	59-172	mg/L	10.31.17 14:54	
cis-1,2-Dichloroethylene	<0.00500	0.0500	0.0471	94	75-125	mg/L	10.31.17 14:54	
trans-1,2-dichloroethylene	<0.00500	0.0500	0.0460	92	75-125	mg/L	10.31.17 14:54	
1,2-Dichloropropane	<0.00500	0.0500	0.0450	90	74-125	mg/L	10.31.17 14:54	
1,3-Dichloropropane	<0.00500	0.0500	0.0433	87	75-125	mg/L	10.31.17 14:54	
2,2-Dichloropropane	<0.00500	0.0500	0.0511	102	75-125	mg/L	10.31.17 14:54	
1,1-Dichloropropene	<0.00500	0.0500	0.0499	100	75-125	mg/L	10.31.17 14:54	
cis-1,3-Dichloropropene	<0.00500	0.0500	0.0489	98	74-125	mg/L	10.31.17 14:54	
trans-1,3-dichloropropene	<0.00500	0.0500	0.0482	96	66-125	mg/L	10.31.17 14:54	
Ethylbenzene	<0.00500	0.0500	0.0449	90	75-125	mg/L	10.31.17 14:54	
Hexachlorobutadiene	<0.00500	0.0500	0.0455	91	75-125	mg/L	10.31.17 14:54	
Isopropylbenzene	<0.00500	0.0500	0.0482	96	75-125	mg/L	10.31.17 14:54	
Methylene Chloride	<0.00500	0.0500	0.0378	76	75-125	mg/L	10.31.17 14:54	
MTBE	<0.00500	0.0500	0.0488	98	65-135	mg/L	10.31.17 14:54	
Naphthalene	<0.0100	0.0500	0.0511	102	70-130	mg/L	10.31.17 14:54	
n-Propylbenzene	<0.00500	0.0500	0.0486	97	75-125	mg/L	10.31.17 14:54	
Styrene	<0.00500	0.0500	0.0494	99	75-125	mg/L	10.31.17 14:54	
1,1,1,2-Tetrachloroethane	<0.00500	0.0500	0.0459	92	72-125	mg/L	10.31.17 14:54	
1,1,2,2-Tetrachloroethane	<0.00500	0.0500	0.0442	88	74-125	mg/L	10.31.17 14:54	
Tetrachloroethylene	<0.00500	0.0500	0.0437	87	71-125	mg/L	10.31.17 14:54	
Toluene	<0.00500	0.0500	0.0433	87	59-139	mg/L	10.31.17 14:54	
1,2,3-Trichlorobenzene	<0.00500	0.0500	0.0476	95	75-137	mg/L	10.31.17 14:54	
1,2,4-Trichlorobenzene	<0.00500	0.0500	0.0438	88	75-135	mg/L	10.31.17 14:54	
1,1,1-Trichloroethane	<0.00500	0.0500	0.0476	95	75-125	mg/L	10.31.17 14:54	
1,1,2-Trichloroethane	<0.00500	0.0500	0.0427	85	75-127	mg/L	10.31.17 14:54	



Kinder Morgan-El Paso
KMI L1100-Hydrotest - SV2639ZL Tank

Analytical Method: VOCs By SW846 8260C

Seq Number: 3032034

Parent Sample Id: 566650-005

Matrix: Water

MS Sample Id: 566650-005 S

Prep Method: SW5030C

Date Prep: 10.31.17

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Trichloroethylene	<0.00500	0.0500	0.0451	90	62-137	mg/L	10.31.17 14:54	
Trichlorofluoromethane	<0.00500	0.0500	0.0473	95	60-140	mg/L	10.31.17 14:54	
1,2,3-Trichloropropane	<0.00500	0.0500	0.0446	89	75-125	mg/L	10.31.17 14:54	
1,2,4-Trimethylbenzene	<0.00500	0.0500	0.0475	95	75-125	mg/L	10.31.17 14:54	
1,3,5-Trimethylbenzene	<0.00500	0.0500	0.0458	92	70-125	mg/L	10.31.17 14:54	
o-Xylene	<0.00500	0.0500	0.0479	96	75-125	mg/L	10.31.17 14:54	
m,p-Xylenes	<0.0100	0.100	0.0918	92	75-125	mg/L	10.31.17 14:54	
Vinyl Chloride	<0.00200	0.0500	0.0457	91	60-140	mg/L	10.31.17 14:54	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Dibromofluoromethane	101		75-131	%	10.31.17 14:54
1,2-Dichloroethane-D4	93		63-144	%	10.31.17 14:54
Toluene-D8	98		80-117	%	10.31.17 14:54
4-Bromofluorobenzene	107		74-124	%	10.31.17 14:54



Kinder Morgan-El Paso
KMI L1100-Hydrotest - SV2639ZL Tank

Analytical Method: VOCs by SW-846 8260B

Seq Number: 3032172

MB Sample Id: 7633669-1-BLK

Matrix: Solid

LCS Sample Id: 7633669-1-BKS

Prep Method: SW5030B

Date Prep: 11.01.17

LCSD Sample Id: 7633669-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00500	0.0500	0.0518	104	0.0530	106	71-119	2	25	mg/kg	11.01.17 09:22	
Bromobenzene	<0.00500	0.0500	0.0526	105	0.0528	106	84-123	0	25	mg/kg	11.01.17 09:22	
Bromochloromethane	<0.00500	0.0500	0.0516	103	0.0534	107	71-120	3	25	mg/kg	11.01.17 09:22	
Bromodichloromethane	<0.00500	0.0500	0.0558	112	0.0581	116	78-126	4	25	mg/kg	11.01.17 09:22	
Bromoform	<0.00500	0.0500	0.0463	93	0.0479	96	63-136	3	25	mg/kg	11.01.17 09:22	
Methyl bromide	<0.00500	0.0500	0.0438	88	0.0413	83	57-118	6	25	mg/kg	11.01.17 09:22	
tert-Butylbenzene	<0.00500	0.0500	0.0549	110	0.0550	110	83-132	0	25	mg/kg	11.01.17 09:22	
Sec-Butylbenzene	<0.00500	0.0500	0.0540	108	0.0535	107	84-131	1	25	mg/kg	11.01.17 09:22	
n-Butylbenzene	<0.00500	0.0500	0.0544	109	0.0536	107	82-127	1	25	mg/kg	11.01.17 09:22	
Carbon Tetrachloride	<0.00500	0.0500	0.0526	105	0.0525	105	63-135	0	25	mg/kg	11.01.17 09:22	
Chlorobenzene	<0.00500	0.0500	0.0498	100	0.0511	102	83-121	3	25	mg/kg	11.01.17 09:22	
Chloroethane	<0.0100	0.0500	0.0462	92	0.0445	89	57-122	4	25	mg/kg	11.01.17 09:22	
Chloroform	<0.00500	0.0500	0.0528	106	0.0532	106	74-118	1	25	mg/kg	11.01.17 09:22	
Methyl Chloride	<0.0100	0.0500	0.0526	105	0.0485	97	71-132	8	25	mg/kg	11.01.17 09:22	
2-Chlorotoluene	<0.00500	0.0500	0.0530	106	0.0532	106	83-129	0	25	mg/kg	11.01.17 09:22	
4-Chlorotoluene	<0.00500	0.0500	0.0525	105	0.0529	106	83-125	1	25	mg/kg	11.01.17 09:22	
p-Cymene (p-Isopropyltoluene)	<0.00500	0.0500	0.0513	103	0.0511	102	84-130	0	25	mg/kg	11.01.17 09:22	
1,2-Dibromo-3-Chloropropane	<0.00500	0.0500	0.0521	104	0.0510	102	58-133	2	25	mg/kg	11.01.17 09:22	
Dibromochloromethane	<0.00500	0.0500	0.0554	111	0.0573	115	77-130	3	25	mg/kg	11.01.17 09:22	
1,2-Dibromoethane	<0.00500	0.0500	0.0512	102	0.0520	104	80-127	2	25	mg/kg	11.01.17 09:22	
Methylene bromide	<0.00500	0.0500	0.0505	101	0.0517	103	73-126	2	25	mg/kg	11.01.17 09:22	
1,2-Dichlorobenzene	<0.00500	0.0500	0.0509	102	0.0512	102	84-121	1	25	mg/kg	11.01.17 09:22	
1,3-Dichlorobenzene	<0.00500	0.0500	0.0505	101	0.0515	103	84-124	2	25	mg/kg	11.01.17 09:22	
1,4-Dichlorobenzene	<0.00500	0.0500	0.0501	100	0.0508	102	82-120	1	25	mg/kg	11.01.17 09:22	
Dichlorodifluoromethane	<0.00500	0.0500	0.0679	136	0.0616	123	54-122	10	25	mg/kg	11.01.17 09:22	H
1,2-Dichloroethane	<0.00500	0.0500	0.0506	101	0.0520	104	70-123	3	25	mg/kg	11.01.17 09:22	
1,1-Dichloroethane	<0.00500	0.0500	0.0546	109	0.0543	109	73-124	1	25	mg/kg	11.01.17 09:22	
trans-1,2-dichloroethylene	<0.00500	0.0500	0.0522	104	0.0522	104	63-110	0	25	mg/kg	11.01.17 09:22	
cis-1,2-Dichloroethylene	<0.00500	0.0500	0.0519	104	0.0521	104	72-131	0	25	mg/kg	11.01.17 09:22	
1,1-Dichloroethene	<0.00500	0.0500	0.0534	107	0.0531	106	71-122	1	25	mg/kg	11.01.17 09:22	
2,2-Dichloropropane	<0.00500	0.0500	0.0520	104	0.0519	104	67-137	0	25	mg/kg	11.01.17 09:22	
1,3-Dichloropropane	<0.00500	0.0500	0.0505	101	0.0517	103	82-131	2	25	mg/kg	11.01.17 09:22	
1,2-Dichloropropane	<0.00500	0.0500	0.0525	105	0.0546	109	75-122	4	25	mg/kg	11.01.17 09:22	
trans-1,3-dichloropropene	<0.00500	0.0500	0.0561	112	0.0582	116	73-125	4	25	mg/kg	11.01.17 09:22	
1,1-Dichloropropene	<0.00500	0.0500	0.0523	105	0.0524	105	72-118	0	25	mg/kg	11.01.17 09:22	
cis-1,3-Dichloropropene	<0.00500	0.0500	0.0561	112	0.0588	118	74-135	5	25	mg/kg	11.01.17 09:22	
Ethylbenzene	<0.00500	0.0500	0.0525	105	0.0531	106	80-123	1	25	mg/kg	11.01.17 09:22	
Hexachlorobutadiene	<0.00500	0.0500	0.0555	111	0.0552	110	77-130	1	25	mg/kg	11.01.17 09:22	
Isopropylbenzene	<0.00500	0.0500	0.0534	107	0.0536	107	55-155	0	25	mg/kg	11.01.17 09:22	
Methylene Chloride	<0.0200	0.0500	0.0515	103	0.0525	105	57-134	2	25	mg/kg	11.01.17 09:22	
MTBE	<0.00500	0.0500	0.0560	112	0.0566	113	64-148	1	25	mg/kg	11.01.17 09:22	
Naphthalene	<0.0100	0.0500	0.0575	115	0.0578	116	53-162	1	25	mg/kg	11.01.17 09:22	
n-Propylbenzene	<0.00500	0.0500	0.0530	106	0.0527	105	84-131	1	25	mg/kg	11.01.17 09:22	
Styrene	<0.00500	0.0500	0.0531	106	0.0552	110	80-126	4	25	mg/kg	11.01.17 09:22	
1,1,1,2-Tetrachloroethane	<0.00500	0.0500	0.0515	103	0.0528	106	81-127	2	25	mg/kg	11.01.17 09:22	
1,1,2,2-Tetrachloroethane	<0.00500	0.0500	0.0510	102	0.0513	103	75-133	1	25	mg/kg	11.01.17 09:22	
Tetrachloroethylene	<0.00500	0.0500	0.0535	107	0.0543	109	79-124	1	25	mg/kg	11.01.17 09:22	
Toluene	<0.00500	0.0500	0.0507	101	0.0511	102	74-122	1	25	mg/kg	11.01.17 09:22	
1,2,3-Trichlorobenzene	<0.00500	0.0500	0.0531	106	0.0544	109	75-131	2	25	mg/kg	11.01.17 09:22	
1,2,4-Trichlorobenzene	<0.00500	0.0500	0.0545	109	0.0559	112	79-128	3	25	mg/kg	11.01.17 09:22	
1,1,2-Trichloroethane	<0.00500	0.0500	0.0519	104	0.0526	105	75-131	1	25	mg/kg	11.01.17 09:22	
1,1,1-Trichloroethane	<0.00500	0.0500	0.0541	108	0.0539	108	71-124	0	25	mg/kg	11.01.17 09:22	



Kinder Morgan-El Paso
KMI L1100-Hydrotest - SV2639ZL Tank

Analytical Method: VOCs by SW-846 8260B

Seq Number: 3032172

MB Sample Id: 7633669-1-BLK

Matrix: Solid

LCS Sample Id: 7633669-1-BKS

Prep Method: SW5030B

Date Prep: 11.01.17

LCSD Sample Id: 7633669-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Trichloroethylene	<0.00500	0.0500	0.0512	102	0.0515	103	78-119	1	25	mg/kg	11.01.17 09:22	
Trichlorofluoromethane	<0.00500	0.0500	0.0492	98	0.0453	91	71-148	8	25	mg/kg	11.01.17 09:22	
1,2,3-Trichloropropane	<0.00500	0.0500	0.0528	106	0.0516	103	75-131	2	25	mg/kg	11.01.17 09:22	
1,2,4-Trimethylbenzene	<0.00500	0.0500	0.0506	101	0.0508	102	60-159	0	25	mg/kg	11.01.17 09:22	
1,3,5-Trimethylbenzene	<0.00500	0.0500	0.0545	109	0.0553	111	61-160	1	25	mg/kg	11.01.17 09:22	
Vinyl Chloride	<0.00200	0.0500	0.0483	97	0.0453	91	60-123	6	25	mg/kg	11.01.17 09:22	
o-Xylene	<0.00500	0.0500	0.0552	110	0.0567	113	79-125	3	25	mg/kg	11.01.17 09:22	
m,p-Xylenes	<0.0100	0.100	0.106	106	0.109	109	78-127	3	25	mg/kg	11.01.17 09:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	97		100		100		53-142	%	11.01.17 09:22
1,2-Dichloroethane-D4	103		100		99		56-150	%	11.01.17 09:22
Toluene-D8	100		98		97		70-130	%	11.01.17 09:22
4-Bromofluorobenzene	96		104		102		68-152	%	11.01.17 09:22



Kinder Morgan-El Paso
KMI L1100-Hydrotest - SV2639ZL Tank

Analytical Method: VOCs by SW-846 8260B

Seq Number: 3032172

Parent Sample Id: 566847-001

Matrix: Soil

MS Sample Id: 566847-001 S

Prep Method: SW5030B

Date Prep: 11.01.17

MSD Sample Id: 566847-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00501	0.0501	0.0498	99	0.0507	101	61-125	2	25	mg/kg	11.01.17 11:11	
Bromobenzene	<0.00501	0.0501	0.0563	112	0.0552	110	78-125	2	25	mg/kg	11.01.17 11:11	
Bromochloromethane	<0.00501	0.0501	0.0535	107	0.0530	106	84-113	1	25	mg/kg	11.01.17 11:11	
Bromodichloromethane	<0.00501	0.0501	0.0556	111	0.0567	113	80-105	2	25	mg/kg	11.01.17 11:11	X
Bromoform	<0.00501	0.0501	0.0474	95	0.0481	96	35-127	1	25	mg/kg	11.01.17 11:11	
Methyl bromide	<0.00501	0.0501	0.0382	76	0.0380	76	34-129	1	25	mg/kg	11.01.17 11:11	
tert-Butylbenzene	<0.00501	0.0501	0.0571	114	0.0566	113	89-114	1	25	mg/kg	11.01.17 11:11	
Sec-Butylbenzene	<0.00501	0.0501	0.0545	109	0.0541	108	69-125	1	25	mg/kg	11.01.17 11:11	
n-Butylbenzene	<0.00501	0.0501	0.0528	105	0.0510	102	52-134	3	25	mg/kg	11.01.17 11:11	
Carbon Tetrachloride	<0.00501	0.0501	0.0507	101	0.0519	103	70-112	2	25	mg/kg	11.01.17 11:11	
Chlorobenzene	<0.00501	0.0501	0.0494	99	0.0492	98	82-116	0	25	mg/kg	11.01.17 11:11	
Chloroethane	<0.0100	0.0501	0.0414	83	0.0414	82	60-140	0	25	mg/kg	11.01.17 11:11	
Chloroform	<0.00501	0.0501	0.0525	105	0.0534	106	64-118	2	25	mg/kg	11.01.17 11:11	
Methyl Chloride	<0.0100	0.0501	0.0412	82	0.0429	85	61-106	4	25	mg/kg	11.01.17 11:11	
2-Chlorotoluene	<0.00501	0.0501	0.0555	111	0.0557	111	60-132	0	25	mg/kg	11.01.17 11:11	
4-Chlorotoluene	<0.00501	0.0501	0.0549	110	0.0543	108	57-134	1	25	mg/kg	11.01.17 11:11	
p-Cymene (p-Isopropyltoluene)	<0.00501	0.0501	0.0515	103	0.0509	101	57-126	1	25	mg/kg	11.01.17 11:11	
1,2-Dibromo-3-Chloropropane	<0.00501	0.0501	0.0565	113	0.0579	115	57-138	2	25	mg/kg	11.01.17 11:11	
Dibromochloromethane	<0.00501	0.0501	0.0574	115	0.0574	114	79-112	0	25	mg/kg	11.01.17 11:11	X
1,2-Dibromoethane	<0.00501	0.0501	0.0516	103	0.0522	104	52-142	1	25	mg/kg	11.01.17 11:11	
Methylene bromide	<0.00501	0.0501	0.0501	100	0.0524	104	47-135	4	25	mg/kg	11.01.17 11:11	
1,2-Dichlorobenzene	<0.00501	0.0501	0.0513	102	0.0507	101	59-134	1	25	mg/kg	11.01.17 11:11	
1,3-Dichlorobenzene	<0.00501	0.0501	0.0523	104	0.0500	100	60-133	4	25	mg/kg	11.01.17 11:11	
1,4-Dichlorobenzene	<0.00501	0.0501	0.0515	103	0.0496	99	55-133	4	25	mg/kg	11.01.17 11:11	
Dichlorodifluoromethane	<0.00501	0.0501	0.0450	90	0.0528	105	60-112	16	25	mg/kg	11.01.17 11:11	
1,2-Dichloroethane	<0.00501	0.0501	0.0505	101	0.0513	102	61-123	2	25	mg/kg	11.01.17 11:11	
1,1-Dichloroethane	<0.00501	0.0501	0.0544	109	0.0553	110	69-112	2	25	mg/kg	11.01.17 11:11	
trans-1,2-dichloroethylene	<0.00501	0.0501	0.0511	102	0.0518	103	64-121	1	25	mg/kg	11.01.17 11:11	
cis-1,2-Dichloroethylene	<0.00501	0.0501	0.0520	104	0.0537	107	76-115	3	25	mg/kg	11.01.17 11:11	
1,1-Dichloroethene	<0.00501	0.0501	0.0506	101	0.0531	106	67-120	5	25	mg/kg	11.01.17 11:11	
2,2-Dichloropropane	<0.00501	0.0501	0.0545	109	0.0533	106	58-123	2	25	mg/kg	11.01.17 11:11	
1,3-Dichloropropane	<0.00501	0.0501	0.0511	102	0.0528	105	57-134	3	25	mg/kg	11.01.17 11:11	
1,2-Dichloropropane	<0.00501	0.0501	0.0522	104	0.0533	106	57-126	2	25	mg/kg	11.01.17 11:11	
trans-1,3-dichloropropene	<0.00501	0.0501	0.0562	112	0.0566	113	41-141	1	25	mg/kg	11.01.17 11:11	
1,1-Dichloropropene	<0.00501	0.0501	0.0509	102	0.0519	103	66-122	2	25	mg/kg	11.01.17 11:11	
cis-1,3-Dichloropropene	<0.00501	0.0501	0.0557	111	0.0557	111	81-109	0	25	mg/kg	11.01.17 11:11	X
Ethylbenzene	<0.00501	0.0501	0.0508	101	0.0519	103	59-135	2	25	mg/kg	11.01.17 11:11	
Hexachlorobutadiene	<0.00501	0.0501	0.0406	81	0.0391	78	48-149	4	25	mg/kg	11.01.17 11:11	
Isopropylbenzene	<0.00501	0.0501	0.0522	104	0.0516	103	69-123	1	25	mg/kg	11.01.17 11:11	
Methylene Chloride	<0.0200	0.0501	0.0519	104	0.0539	107	83-100	4	25	mg/kg	11.01.17 11:11	X
MTBE	<0.00501	0.0501	0.0564	113	0.0586	117	54-136	4	25	mg/kg	11.01.17 11:11	
Naphthalene	<0.0100	0.0501	0.0510	102	0.0498	99	83-134	2	25	mg/kg	11.01.17 11:11	
n-Propylbenzene	<0.00501	0.0501	0.0553	110	0.0555	111	60-134	0	25	mg/kg	11.01.17 11:11	
Styrene	<0.00501	0.0501	0.0517	103	0.0520	104	77-114	1	25	mg/kg	11.01.17 11:11	
1,1,1,2-Tetrachloroethane	<0.00501	0.0501	0.0524	105	0.0520	104	52-132	1	25	mg/kg	11.01.17 11:11	
1,1,2,2-Tetrachloroethane	<0.00501	0.0501	0.0535	107	0.0553	110	47-138	3	25	mg/kg	11.01.17 11:11	
Tetrachloroethylene	<0.00501	0.0501	0.0515	103	0.0516	103	56-134	0	25	mg/kg	11.01.17 11:11	
Toluene	<0.00501	0.0501	0.0493	98	0.0500	100	59-125	1	25	mg/kg	11.01.17 11:11	
1,2,3-Trichlorobenzene	<0.00501	0.0501	0.0426	85	0.0399	79	65-165	7	25	mg/kg	11.01.17 11:11	
1,2,4-Trichlorobenzene	<0.00501	0.0501	0.0476	95	0.0441	88	58-148	8	25	mg/kg	11.01.17 11:11	
1,1,2-Trichloroethane	<0.00501	0.0501	0.0525	105	0.0534	106	59-132	2	25	mg/kg	11.01.17 11:11	
1,1,1-Trichloroethane	<0.00501	0.0501	0.0527	105	0.0539	107	65-114	2	25	mg/kg	11.01.17 11:11	



Kinder Morgan-El Paso
KMI L1100-Hydrotest - SV2639ZL Tank

Analytical Method: VOCs by SW-846 8260B

Seq Number: 3032172

Parent Sample Id: 566847-001

Matrix: Soil

MS Sample Id: 566847-001 S

Prep Method: SW5030B

Date Prep: 11.01.17

MSD Sample Id: 566847-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Trichloroethylene	<0.00501	0.0501	0.0507	101	0.0517	103	61-127	2	25	mg/kg	11.01.17 11:11	
Trichlorofluoromethane	<0.00501	0.0501	0.0425	85	0.0427	85	34-133	0	25	mg/kg	11.01.17 11:11	
1,2,3-Trichloropropane	<0.00501	0.0501	0.0567	113	0.0598	119	46-139	5	25	mg/kg	11.01.17 11:11	
1,2,4-Trimethylbenzene	<0.00501	0.0501	0.0528	105	0.0521	104	67-134	1	25	mg/kg	11.01.17 11:11	
1,3,5-Trimethylbenzene	<0.00501	0.0501	0.0585	117	0.0584	116	61-136	0	25	mg/kg	11.01.17 11:11	
Vinyl Chloride	<0.00200	0.0501	0.0401	80	0.0411	82	63-108	2	25	mg/kg	11.01.17 11:11	
o-Xylene	<0.00501	0.0501	0.0543	108	0.0553	110	82-117	2	25	mg/kg	11.01.17 11:11	
m,p-Xylenes	<0.0100	0.100	0.105	105	0.106	106	58-136	1	25	mg/kg	11.01.17 11:11	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	103		104		53-142	%	11.01.17 11:11
1,2-Dichloroethane-D4	98		102		56-150	%	11.01.17 11:11
Toluene-D8	99		100		70-130	%	11.01.17 11:11
4-Bromofluorobenzene	108		109		68-152	%	11.01.17 11:11

CHAIN OF CUSTODY

Page 7 of 7



Setting the Standard since 1990

Stafford, TX (281) 240-4200
Dallas, TX (214) 902-0300
El Paso, TX (915) 585-3443
Lubbock, TX (806) 794-1296

Midland, TX (432) 704-5440
San Antonio, TX (210) 509-3334

Phoenix, AZ (480) 355-0900
Service Center - Baton Rouge

Service Center- Amarillo, TX (806)678-4514
Service Center- Hobbs, NM (575) 392-7550

Client / Reporting Information				Project Information				Analytical Information				Matrix Codes			
Company Name / Branch:		Kinder Morgan		Project Name/Number:		KM1 L1100-Hydrotest									
Company Address:		Colorado Springs, CO Z North Nevada Ave. 80903		Project Location:		Lordsburg, NM									
Email:		amy-blythe@kindermorgan.com		Invoice To:		KM - Amy Blythe									
Phone No:		719.520.4813		PO Number:											
Project Contact:		Amy Blythe													
Sampplers's Name:		Charles Griffin													
No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	# of bottles	HCl	NaOH/Zn	Acetate	HNO ₃	H ₂ SO ₄	NaOH	NaHSO ₄	MEOH	NONE	Field Comments
1	S102817-001, Side Capture	6"	10/28/17	7:10a	5										+03Z, 31533/-108.61887
2	WW102817-002, LBOS		10/28/17	9:40a	WW 1										SV26392L Tank
3	WW102817-003, LBOS		10/28/17	9:45a	WW 1										SV26392L Tank
4	WW102817-004, LBOS		10/28/17	9:50a	WW 3	3									SV26392L Tank
5	WW102817-005, LBOS		10/28/17	9:55a	WW 1										SV26392L Tank
6	WW102817-006, LBOS		10/28/17	9:59a	WW 1										SV26392L Tank
7	WW102817-007, LBOS		10/28/17	10:05a	WW 3										SV26392L Tank
8	WW102817-008, LBOS		10/28/17	10:15a	WW 3	3									SV26392L Tank
9															
10															

Data Deliverable Information			
☐ Same Day TAT	☐ 5 Day TAT	☐ Level II Std QC	☐ Level IV (Full Data Pkg /raw data)
☐ Next Day EMERGENCY	☐ 7 Day TAT	☐ Level III Std QC+ Forms	☐ TRRP Level IV
☐ 2 Day EMERGENCY	☐ Contract TAT	☐ Level 3 (CLP Forms)	☐ UST / RG -411
☒ 3 Day EMERGENCY		☐ Level II Report with TRRP checklist	
TAT Starts Day received by Lab, if received by 5:00 pm			
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY			
Relinquished by Samples:	Date Time:	Received By:	Date Time:
1. [Signature]	10-29-17 16:00	[Signature]	10/29/17 10:00
Relinquished by:	Date Time:	Received By:	Date Time:
3. [Signature]		[Signature]	
Relinquished by:	Date Time:	Received By:	Date Time:

FED-EX / UPS: Tracking #		Date Time:	
		Received By:	10/29/17 17:00
		Received By:	10/29/17 17:00
		Received By:	10/29/17 17:00
		Received By:	10/29/17 17:00

On Ice		Thermo. Corr. Factor	
X	JR3 3.9/3.9		

[illegible]

Sampling and Lab Coordination

Xenco Laboratory: Coordinate with **Ms. Pepper Corell**

Email: melissa.corell@xenco.com

Address: 200 East Sunset Road, Suite E
El Paso, Texas 79922
Phone: (915) 585-3443

EPNG Env Inspector: Charles "Chuck" Griffin – (619) 729-7225

Email: Charles.griffin@nv5.com

- Call lab ahead of time and arrange to pick up sampling kits.
- **In Case of a Rupture**
 - Sample waste water for following parameters:
 - Flashpoint *SW1010 520NP*
 - E* ▪ pH *45004 250 NP*
 - VPC's (method 8260) *3 voas HCl*
 - TCLP Metals *500NP*
 - PCB's *14A NP*
 - TCLP BTEX *3 voas NP*
 - L* ▪ TPH Method 8015 *3 voas HCl*
 - Sample soil for following parameters:
 - VOC's (method 8260)
 - PCB's *2-40z jars*
 - LCLP BTEX,
 - TPH Method 8015
 - Midland* ▪ NORMS
- Have analytical reports sent to Amy Blythe and/or Cesar Ochoa
Amy_blythe@kindermorgan.com
Cesar_ochoa@kindermorgan.com



Inter-Office Shipment

Page 1 of 1

IOS Number **1051046**

Date/Time: 10/29/17 12:40

Created by: Melissa Corell

Please send report to Mike Kimmel

Lab# From: **El Paso**

Delivery Priority: Fedex

Address: 200 East Sunset Rd, Suite E, El Paso, TX 79922

Lab# To: **Lubbock**

Air Bill No.:

Phone:

E-Mail: mike.kimmel@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
566847-001	W	S102817 - 001, Site HZ	10/28/17 07:10	SW8015B_NM	TPH by SW 8015B	11/01/17	11/04/17	MKI	PHCC10C28 PHCC6C10 T	

Inter Office Shipment or Sample Comments:

Relinquished By

A handwritten signature in cursive script that reads "Melissa R. Corell".

Melissa Corell

Received By: _____

Date Relinquished: 10/29/2017

Date Received: _____

Cooler Temperature: _____

Inter-Office Shipment

IOS Number 1051047

Date/Time: 10/29/17 12:41 Created by: Melissa Corell

Please send report to Mike Kimmel

Lab# From: **El Paso** Delivery Priority: Fedex

Address: 200 East Sunset Rd, Suite E, El Paso, TX 79922
 Phone:

Lab# To: **Houston** Air Bill No.:

E-Mail: mike.kimmel@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
566847-001	W	S102817 - 001, Site HZ	10/28/17 07:10	SW8260BTX_TCLP	TCLP BTEX by SW 8260B	11/01/17	11/11/17	MKI	BZ BZME EBZ XYLMP X	
566847-001	S	S102817 - 001, Site HZ	10/28/17 07:10	SW8082	PCBs by EPA 8082	11/01/17	11/11/17	MKI	PCB1016 PCB1221 PCB12	
566847-001	S	S102817 - 001, Site HZ	10/28/17 07:10	SW8260C	VOCs By SW846 8260C	11/01/17	11/11/17	MKI	BDCME BRBZ BRCLME I	
566847-002	W	WW102817-002, LBSCS	10/28/17 09:40	SW7470A_TCLP	TCLP Mercury by SW 7470A	11/01/17	11/25/17	MKI	HG	
566847-002	W	WW102817-002, LBSCS	10/28/17 09:40	SW8260BTX_TCLP	TCLP BTEX by SW 8260B	11/01/17	11/11/17	MKI	BZ BZME EBZ XYLMP X	
566847-002	W	WW102817-002, LBSCS	10/28/17 09:40	SW8082	PCBs by EPA 8082	11/01/17	11/04/17	MKI	PCB1016 PCB1221 PCB12	
566847-002	W	WW102817-002, LBSCS	10/28/17 09:40	SW8260B	VOCs by SW-846 8260B	11/01/17	11/11/17	MKI	BDCME BRBZ BRCLME I	
566847-002	W	WW102817-002, LBSCS	10/28/17 09:40	SW1010	Flash Point (CC) SW-846 1010	11/01/17	11/27/17	MKI	FLASHPT	
566847-002	W	WW102817-002, LBSCS	10/28/17 09:40	SW8015B_NM	TPH by SW 8015B	11/01/17	11/04/17	MKI	PHCC10C28 PHCC6C10 T	
566847-002	W	WW102817-002, LBSCS	10/28/17 09:40	SW6010BTCLP	TCLP Metals by SW 1311/6010B	11/01/17	04/26/18	MKI	AG AS BA CD CR PB SE	
566847-003	W	WW102817-003, LBSCS	10/28/17 09:45	SW8260BTX_TCLP	TCLP BTEX by SW 8260B	11/01/17	11/11/17	MKI	BZ BZME EBZ XYLMP X	
566847-003	W	WW102817-003, LBSCS	10/28/17 09:45	SW1010	Flash Point (CC) SW-846 1010	11/01/17	11/27/17	MKI	FLASHPT	
566847-003	W	WW102817-003, LBSCS	10/28/17 09:45	SW8082	PCBs by EPA 8082	11/01/17	11/04/17	MKI	PCB1016 PCB1221 PCB12	
566847-003	W	WW102817-003, LBSCS	10/28/17 09:45	SW8015B_NM	TPH by SW 8015B	11/01/17	11/04/17	MKI	PHCC10C28 PHCC6C10 T	
566847-003	W	WW102817-003, LBSCS	10/28/17 09:45	SW8260B	VOCs by SW-846 8260B	11/01/17	11/11/17	MKI	BDCME BRBZ BRCLME I	
566847-003	W	WW102817-003, LBSCS	10/28/17 09:45	SW7470A_TCLP	TCLP Mercury by SW 7470A	11/01/17	11/25/17	MKI	HG	
566847-003	W	WW102817-003, LBSCS	10/28/17 09:45	SW6010BTCLP	TCLP Metals by SW 1311/6010B	11/01/17	04/26/18	MKI	AG AS BA CD CR PB SE	
566847-004	W	WW102817-004, LBSCS	10/28/17 09:50	SW8015B_NM	TPH by SW 8015B	11/01/17	11/11/17	MKI	PHCC10C28 PHCC6C10 T	
566847-004	W	WW102817-004, LBSCS	10/28/17 09:50	SW8260BTX_TCLP	TCLP BTEX by SW 8260B	11/01/17	11/11/17	MKI	BZ BZME EBZ XYLMP X	
566847-004	W	WW102817-004, LBSCS	10/28/17 09:50	SW8082	PCBs by EPA 8082	11/01/17	11/04/17	MKI	PCB1016 PCB1221 PCB12	
566847-004	W	WW102817-004, LBSCS	10/28/17 09:50	SW8260B	VOCs by SW-846 8260B	11/01/17	11/11/17	MKI	BDCME BRBZ BRCLME I	
566847-004	W	WW102817-004, LBSCS	10/28/17 09:50	SW7470A_TCLP	TCLP Mercury by SW 7470A	11/01/17	11/25/17	MKI	HG	
566847-004	W	WW102817-004, LBSCS	10/28/17 09:50	SW6010BTCLP	TCLP Metals by SW 1311/6010B	11/01/17	04/26/18	MKI	AG AS BA CD CR PB SE	
566847-004	W	WW102817-004, LBSCS	10/28/17 09:50	SW1010	Flash Point (CC) SW-846 1010	11/01/17	11/27/17	MKI	FLASHPT	
566847-005	W	WW102817-005, LBSCS	10/28/17 09:55	SW6010BTCLP	TCLP Metals by SW 1311/6010B	11/01/17	04/26/18	MKI	AG AS BA CD CR PB SE	

IOS Number **1051047**

Date/Time: 10/29/17 12:41

Created by: Melissa Corell

Please send report to Mike Kimmel

Lab# From: **El Paso**

Delivery Priority: Fedex

Address: 200 East Sunset Rd, Suite E, El Paso, TX 79922

Lab# To: **Houston**

Air Bill No.:

Phone:

E-Mail: mike.kimmel@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
566847-005	W	WW102817-005, LBCS	10/28/17 09:55	SW8082	PCBs by EPA 8082	11/01/17	11/04/17	MKI	PCB1016 PCB1221 PCB12	
566847-005	W	WW102817-005, LBCS	10/28/17 09:55	SW7470A_TCLP	TCLP Mercury by SW 7470A	11/01/17	11/25/17	MKI	HG	
566847-005	W	WW102817-005, LBCS	10/28/17 09:55	SW8015B_NM	TPH by SW 8015B	11/01/17	11/04/17	MKI	PHCC10C28 PHCC6C10 T	
566847-005	W	WW102817-005, LBCS	10/28/17 09:55	SW1010	Flash Point (CC) SW-846 1010	11/01/17	11/27/17	MKI	FLASHPT	
566847-005	W	WW102817-005, LBCS	10/28/17 09:55	SW8260B	VOCs by SW-846 8260B	11/01/17	11/11/17	MKI	BDCME BRBZ BRCLME I	
566847-005	W	WW102817-005, LBCS	10/28/17 09:55	SW8260BTX_TCLP	TCLP BTEX by SW 8260B	11/01/17	11/11/17	MKI	BZ BZME EBZ XYLMP X	
566847-006	W	WW102817-006, LBCS	10/28/17 09:59	SW6010BTCLP	TCLP Metals by SW 1311/6010B	11/01/17	04/26/18	MKI	AG AS BA CD CR PB SE	
566847-006	W	WW102817-006, LBCS	10/28/17 09:59	SW7470A_TCLP	TCLP Mercury by SW 7470A	11/01/17	11/25/17	MKI	HG	
566847-006	W	WW102817-006, LBCS	10/28/17 09:59	SW8082	PCBs by EPA 8082	11/01/17	11/04/17	MKI	PCB1016 PCB1221 PCB12	
566847-006	W	WW102817-006, LBCS	10/28/17 09:59	SW1010	Flash Point (CC) SW-846 1010	11/01/17	11/27/17	MKI	FLASHPT	
566847-006	W	WW102817-006, LBCS	10/28/17 09:59	SW8015B_NM	TPH by SW 8015B	11/01/17	11/04/17	MKI	PHCC10C28 PHCC6C10 T	
566847-006	W	WW102817-006, LBCS	10/28/17 09:59	SW8260BTX_TCLP	TCLP BTEX by SW 8260B	11/01/17	11/11/17	MKI	BZ BZME EBZ XYLMP X	
566847-006	W	WW102817-006, LBCS	10/28/17 09:59	SW8260B	VOCs by SW-846 8260B	11/01/17	11/11/17	MKI	BDCME BRBZ BRCLME I	
566847-007	W	WW102817-007, LBCS	10/28/17 10:05	SW8015B_NM	TPH by SW 8015B	11/01/17	11/04/17	MKI	PHCC10C28 PHCC6C10 T	
566847-007	W	WW102817-007, LBCS	10/28/17 10:05	SW7470A_TCLP	TCLP Mercury by SW 7470A	11/01/17	11/25/17	MKI	HG	
566847-007	W	WW102817-007, LBCS	10/28/17 10:05	SW8082	PCBs by EPA 8082	11/01/17	11/04/17	MKI	PCB1016 PCB1221 PCB12	
566847-007	W	WW102817-007, LBCS	10/28/17 10:05	SW1010	Flash Point (CC) SW-846 1010	11/01/17	11/27/17	MKI	FLASHPT	
566847-007	W	WW102817-007, LBCS	10/28/17 10:05	SW8260BTX_TCLP	TCLP BTEX by SW 8260B	11/01/17	11/11/17	MKI	BZ BZME EBZ XYLMP X	
566847-007	W	WW102817-007, LBCS	10/28/17 10:05	SW6010BTCLP	TCLP Metals by SW 1311/6010B	11/01/17	04/26/18	MKI	AG AS BA CD CR PB SE	
566847-007	W	WW102817-007, LBCS	10/28/17 10:05	SW8260B	VOCs by SW-846 8260B	11/01/17	11/11/17	MKI	BDCME BRBZ BRCLME I	
566847-008	W	WW102817-008, LBCS	10/28/17 10:15	SW8015B_NM	TPH by SW 8015B	11/01/17	11/11/17	MKI	PHCC10C28 PHCC6C10 T	
566847-008	W	WW102817-008, LBCS	10/28/17 10:15	SW7470A_TCLP	TCLP Mercury by SW 7470A	11/01/17	11/25/17	MKI	HG	
566847-008	W	WW102817-008, LBCS	10/28/17 10:15	SW8260B	VOCs by SW-846 8260B	11/01/17	11/11/17	MKI	BDCME BRBZ BRCLME I	
566847-008	W	WW102817-008, LBCS	10/28/17 10:15	SW8260BTX_TCLP	TCLP BTEX by SW 8260B	11/01/17	11/11/17	MKI	BZ BZME EBZ XYLMP X	
566847-008	W	WW102817-008, LBCS	10/28/17 10:15	SW1010	Flash Point (CC) SW-846 1010	11/01/17	11/27/17	MKI	FLASHPT	



Inter-Office Shipment

Page 3 of 3

IOS Number **1051047**

Date/Time: 10/29/17 12:41

Created by: Melissa Corell

Please send report to Mike Kimmel

Lab# From: **El Paso**

Delivery Priority: Fedex

Address: 200 East Sunset Rd, Suite E, El Paso, TX 79922

Lab# To: **Houston**

Air Bill No.:

Phone:

E-Mail: mike.kimmel@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
566847-008	W	WW102817-008, LBCS	10/28/17 10:15	SW8082	PCBs by EPA 8082	11/01/17	11/04/17	MKI	PCB1016 PCB1221 PCB12	
566847-008	W	WW102817-008, LBCS	10/28/17 10:15	SW6010BTCLP	TCLP Metals by SW 1311/6010B	11/01/17	04/26/18	MKI	AG AS BA CD CR PB SE	

Inter Office Shipment or Sample Comments:

Relinquished By

Melissa Corell

Received By: _____

Date Relinquished: 10/29/2017

Date Received: _____

Cooler Temperature: _____



Inter-Office Shipment

Page 1 of 1

IOS Number **1051048**

Date/Time: 10/29/17 12:46

Created by: Melissa Corell

Please send report to Mike Kimmel

Lab# From: **El Paso**

Delivery Priority: Fedex

Address: 200 East Sunset Rd, Suite E, El Paso, TX 79922

Lab# To: **Midland**

Air Bill No.:

Phone:

E-Mail: mike.kimmel@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
566847-001	S	S102817 - 001, Site HZ	10/28/17 07:10	E901.1	NORM analysis by E901.1 MOD	11/01/17	04/26/18	MKI	Y	

Inter Office Shipment or Sample Comments:

Relinquished By

A handwritten signature in cursive script, reading 'Melissa R. Corell'.

Melissa Corell

Received By: _____

Date Relinquished: 10/29/2017

Date Received: _____

Cooler Temperature: _____



Inter-Office Shipment

Page 1 of 1

IOS Number **1051061**

Date/Time: 10/30/17 10:55

Created by: Melissa Corell

Please send report to: Mike Kimmel

Lab# From: **El Paso**

Delivery Priority: Fedex

Address: 200 East Sunset Rd, Suite E, El Paso, TX 79922

Lab# To: **Houston**

Air Bill No.: 409248456171

Phone:

E-Mail: mike.kimmel@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
566847-001	S	S102817 - 001, Site HZ	10/28/17 07:10	SW8082	PCBs by EPA 8082	11/01/17	11/11/17	MKI	PCB1016 PCB1221 PCB12	
566847-001	W	S102817 - 001, Site HZ	10/28/17 07:10	SW8260BTX_TCLP	TCLP BTEX by SW 8260B	11/01/17	11/11/17	MKI	BZ BZME EBZ XYLMP X	
566847-001	S	S102817 - 001, Site HZ	10/28/17 07:10	SW8260B	VOCs by SW-846 8260B	11/01/17	11/11/17	MKI	BDCME BRBZ BRCLME I	
566847-001	S	S102817 - 001, Site HZ	10/28/17 07:10	SW8015B_NM	TPH by SW 8015B	11/01/17	11/11/17	MKI	PHCC10C28 PHCC6C10 T	
566847-002	W	WW102817-002, LBC	10/28/17 09:40	SW1010	Flash Point (CC) SW-846 1010	11/01/17	11/27/17	MKI	FLASHPT	
566847-004	W	WW102817-004, LBC	10/28/17 09:50	SW8260C	VOCs By SW846 8260C	11/01/17	11/11/17	MKI	BDCME BRBZ BRCLME I	
566847-005	W	WW102817-005, LBC	10/28/17 09:55	SW7470A_TCLP	TCLP Mercury by SW 7470A	11/01/17	11/25/17	MKI	HG	
566847-005	W	WW102817-005, LBC	10/28/17 09:55	SW6010BTCLP	TCLP Metals by SW 1311/6010B	11/01/17	04/26/18	MKI	AG AS BA CD CR PB SE	
566847-006	W	WW102817-006, LBC	10/28/17 09:59	SW8082	PCBs by EPA 8082	11/01/17	11/04/17	MKI	PCB1016 PCB1221 PCB12	
566847-007	W	WW102817-007, LBC	10/28/17 10:05	SW8260BTX_TCLP	TCLP BTEX by SW 8260B	11/01/17	11/11/17	MKI	BZ BZME EBZ XYLMP X	
566847-008	W	WW102817-008, LBC	10/28/17 10:15	SW8015B_NM	TPH by SW 8015B	11/01/17	11/11/17	MKI	PHCC10C28 PHCC6C10 T	

Inter Office Shipment or Sample Comments:

Relinquished By

Melissa Corell

Received By:

Jean Quila

Date Relinquished: 10/30/2017

Date Received: 10/31/2017 14:45

Inter-Office Shipment

Page 1 of 1

IOS Number 1051063

Date/Time: 10/30/17 10:58

Created by: Melissa Corell

Please send report to Mike Kimmel

Lab# From: **El Paso**

Delivery Priority: Fedex

Address: 200 East Sunset Rd, Suite E, El Paso, TX 79922

Lab# To: **Midland**

Air Bill No.:

Phone:

E-Mail: mike.kimmel@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
566847-001	S	S102817 - 001, Site HZ	10/28/17 07:10	E901.1	NORM analysis by E901.1 MOD	11/01/17	04/26/18	MKI	Y	

Inter Office Shipment or Sample Comments:

Relinquished By



Melissa Corell

Received By: _____

Date Relinquished: 10/30/2017

Date Received: _____

Cooler Temperature: _____



XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 1051061

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sent By: Melissa Corell

Date Sent: 10/30/2017 10:55 AM

Received By: Jean Quila

Date Received: 10/31/2017 02:45 PM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	3.4
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 *Custody Seals Signed and dated for Containers/coolers	No
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Jean Quila

Date: 10/31/2017



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Kinder Morgan-El Paso

Date/ Time Received: 10/29/2017 10:00:00 AM

Work Order #: 566847

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR3

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	3.9	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	No	
#5 Custody Seals intact on sample bottles?	N/A	
#6 *Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	Yes	Houston, Midland, Lubbock
#18 Water VOC samples have zero headspace?	Yes	

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

Analyst: MLC

PH Device/Lot#: 195894

Checklist completed by:

Melissa Corell

Date: 10/30/2017

Checklist reviewed by:

Mike Kimmel

Date: 10/31/2017



Kinder Morgan- El paso

ATTN: Amy Blythe
8645 Railroad Dr.
El Paso, TX 79904
915-587-3694

Sample Type: Soil

Sample Condition: Intact/ Ambient deg C

Lab ID#: 566847-001

Project Name: KMI L1100-Hydrotest - SV2639ZL Tank

Project # : KMI L1100- Hydrotest

Project Location: Lordburge, NM

Sample Date: 10/28/17

Sample Time: 07:10

Receiving Date: 10/29/17

Analysis Date: 11/03/17

Analysis Time: 11:08

Field Code: S102817 - 001, Site HZ Rupl

Analysis Description	Analysis Results pCi/G	Analysis Error +/- 2s	Analysis Results Bq/G	Analysis Error +/- 2s	Analysis Test Method	Analysis Technician
Ra-226	<2.92	N/A	<.11	N/A	EPA 901.1M	KEB
Ra-228	<1.38	N/A	<.05	N/A	EPA 901.1M	KEB
Pb-210	<3.73	N/A	<.14	N/A	EPA 901.1M	KEB
Th-228	<7.62	N/A	<.28	N/A	EPA 901.1M	KEB
Ra-224	14.68	2.17	0.54	0.08	EPA 901.1M	KEB
Pb-212	2.20	0.32	0.08	0.01	EPA 901.1M	KEB
Total Activity	16.88	N/A	0.62	N/A	EPA 901.1M	KEB
Notes:						

Quality Assurance Review

Xenco Laboratories assumes no liability for the use or interpretation of any analytical results other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Xenco Laboratories 1211 W Florida Ave, Midland TX 79701 (432)-704-5440

ture

From: [Weaver, Crystal, EMNRD](#)
To: ["Blythe, Amy M \(Amy\)"; Bratcher, Mike, EMNRD; Griswold, Jim, EMNRD](#)
Cc: [Christensen, Lynn A; Ochoa Vidales, Cesar G; Palmer, David P \(Dave\); King, Allen E; White, Deborah A \(Deb\) \(Contractor\)](#)
Subject: RE: OCD Tracking No. 2RP-4476 - EPNG Line No. 1100 Spike Hydrotest - Segment 2 - Test Successfully Completed - Request to Backfill Leak Site
Date: Wednesday, December 27, 2017 1:51:00 PM

Amy,

I am of the mind to give the exact same type of backfill approval that Mike Bratcher gave you for the 2RP-4499 case number. However, I have one question. These hydrostatic tests that are being done are being done on buried natural gas lines correct? How far down is this line buried?

When you all mention a soil sample was pulled at 6" would that be 6" down vertically from the leak point starting from directly below the pipeline or is that 6" vertically from where you all excavated out what you all perceived as the impacted soil? Also typically we require sampling be done both vertically and horizontally to prove that all impacted material was removed.

OCD notes on Xenco's "Sample Receipt Checklist" that Custody Seals were not intact and Custody Seals were not signed and dated.

Please remit 2 additional discrete soil samples pulled from 1 foot depths within the excavation pile and sidewall and bottom hole confirmation samples from within the hole as well. Please have these samples laboratory tested and please take care to make sure proper sampling procedures are conducted with proper temperatures maintained and Custody Seals included.

Upon review of the sample results approvals will be considered for your backfill request.

Thank you,

Crystal Weaver

Environmental Specialist

OCD – Artesia District II

811 S. 1st Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963

Fax: 575-748-9720

From: Blythe, Amy M (Amy) [mailto:Amy_Blythe@kindermorgan.com]

Sent: Thursday, December 14, 2017 11:43 AM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Cc: Christensen, Lynn A <Lynn_Christensen@kindermorgan.com>; Ochoa Vidales, Cesar G <Cesar_Ochoa@kindermorgan.com>; Palmer, David P (Dave) <David_P_Palmer@kindermorgan.com>; King, Allen E <Allen_King@kindermorgan.com>; White, Deborah A (Deb) (Contractor) <Deborah_White@kindermorgan.com>
Subject: OCD Tracking No. 2RP-4476 - EPNG Line No. 1100 Spike Hydrotest - Segment 2 - Test Successfully Completed - Request to Backfill Leak Site

Dear NMOCD Team,

We have good news to report! EPNG has successfully completed the hydrostatic testing of Segment 2, which completes the **entire project**.

As you recall, EPNG submitted Form C-141 on 11/7/2017 for a leak that occurred within Segment 2. The submittal included location maps and the analytical sampling results from the test water and soil (attached). The pipe was replaced at the leak site and Segment 2 was successfully tested on 12/14/2017. Therefore, EPNG requests approval to backfill the site. The site is located on private land.

Thanks so much for your assistance in this matter.

Amy

KINDER MORGAN

Amy Blythe
Environmental Specialist
Two North Nevada Ave
Colorado Springs, CO 80903
719.520.4813 or 575.644.3336
(Child Ambassador - www.worldvision.org)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 385223

CONDITIONS

Operator: El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	OGRID: 7046
	Action Number: 385223
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Historical document upload.	9/19/2024