

November 11, 2013

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: LIVINGSTON RIDGE SWD WATER LINE

Enclosed are the results of analyses for samples received by the laboratory on 11/06/13 13:00.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 1-2 (H302701-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/08/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/08/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/08/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	77.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	81.4	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 1-4 (H302701-02)

BTEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/08/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/08/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/08/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	81.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.1	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 1-6 (H302701-03)

BTEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/08/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/08/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/08/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	6 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	89.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.6	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 1-8 (H302701-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/08/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/08/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/08/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	105 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 1-10 (H302701-05)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	99.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101 9	% 63.6-15	4						

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Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 1-12 (H302701-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	87.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.1	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 1-14 (H302701-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	107 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 1-16 (H302701-08)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	98.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.9	% 63.6-15	4						

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Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 2-2 (H302701-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	98.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.1	% 63.6-15	4						

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Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 2-4 (H302701-10)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	101	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	% 63.6-15	4						

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YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 2-6 (H302701-11)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.4-12	6						
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	73.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	83.2	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 2-8 (H302701-12)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 89.4-12	6						
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	103 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107 9	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 2-10 (H302701-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	101 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 9	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 2-12 (H302701-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	94.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.9	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 2-14 (H302701-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	94.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.6	% 63.6-15	4						

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Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 3-2 (H302701-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	78.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.0	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 3-4 (H302701-17)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	98.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104 9	63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 3-6 (H302701-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	104 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	109 9	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 3-8 (H302701-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	104 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	% 63.6-15	4						

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Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 3-10 (H302701-20)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	96.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104 9	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 3-12 (H302701-21)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	91.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.0	% 63.6-15	4						

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YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 3-14 (H302701-22)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	98.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107 9	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 3-16 (H302701-23)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/08/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/08/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	91.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	105 9	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 4-2 (H302701-24)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	86.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.8	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 4-4 (H302701-25)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	97.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	102 9	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 4-6 (H302701-26)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	90.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.8	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 4-8 (H302701-27)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 89.4-12	6						
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	95.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	105 9	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 4-10 (H302701-28)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	91.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103 9	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 4-12 (H302701-29)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	65.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	68.4	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 4-14 (H302701-30)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	99.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106 9	% 63.6-15	4						

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Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 4-16 (H302701-31)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	113 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	120 9	% 63.6-15	4						

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YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 5-2 (H302701-32)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	95.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	102 9	% 63.6-15	4						

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YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 5-4 (H302701-33)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	97.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 9	63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 5-6 (H302701-34)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 89.4-12	6						
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	92.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	102 5	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 5-8 (H302701-35)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	90.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.5	% 63.6-15	4						

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Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 5-10 (H302701-36)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	96.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106 9	% 63.6-15	4						

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YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 5-12 (H302701-37)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	96.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.4	% 63.6-15	4						

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YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 5-14 (H302701-38)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	91.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.1	% 63.6-15	4						

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YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received: 11/06/2013 Sampling Date: 11/04/2013

Reported: 11/11/2013 Sampling Type: Soil

Project Name: LIVINGSTON RIDGE SWD WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2020 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LR 5-16 (H302701-39)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	91.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104 9	% 63.6-15	4						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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		annin	Se							-			FIELD CODE	H502101		S	Sampler Signature: ()		/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street		anager: Amber Cannon	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	
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Project Manager:	Amber Cannon		Project Name:	Livingston Ridge SWD Water Line of D	ī
Company Name	Yates Petroleum Corporation		Project #:		1
Company Address: 105 South 4th Street	105 South 4th Street		Project Loc:	Eddy County	
City/State/Zin	Artesia NM 88210		PO#:	103-2020	1
Telephone No:	575-748-4111 or 575-513-8799	Fax No: 575-748-4131	Report Format: X Standard	x Standard ☐ TRRP ☐ NPDES	
	Des har Company	e-mail:	acannon@yatespetroleum.com		

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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Project Manager:	Amber Cannon			Project Name:	Livingston Ridge	Livingston Ridge SWD Water Line	Pag
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Company Address: 105 South 4th Street	105 South 4th Street			Project Loc:	Eddy	Eddy County]
Company Address.	1000000			PO#	103	103-2020	
Telephone No:	575-748-4111 or 575-513-8799	Fax No:	575-748-4131 Rep	Report Format: X Standard		TRRP NPDES	
Sampler Signature	Sampler Signature: Onbe Conno	e-mail:	acannon@yatespetroleum.com		Analyze For:		
A				7 -1	TCLP:	2 hrs	

ORDER #: (lab use only) Special Instructions: Relinquished by: R 5-16 quished by: MON LR 5-14 LR 5-4 LR 5-8 LR 5-6 LR 5-12 LR 5-10 LR 5-2 FIELD CODE separate report. TPH: 8015B, BTEX: 8021B. 11 W 13 Date 4 Beginning Depth ġ <u>გ</u> 14' 12 තු ထ္ Thank you. Time **Ending Depth** <u>6</u> 14' 12 10 œ တ္ 4 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 Please show BTEX results as mg/kg. 11/4/2013 **Date Sampled** 1:48 PM 1:54 PM 1:43 PM 1:40 PM 1:35 PM 1:29 PM 1:20 PM :23 PM Time Sampled Field Filtered Total #. of Containers X × × × lce × HNO₃ HCI Please put chlorides on a H₂SO₄ NaOH Na₂S₂O₃ None Other (Specify) DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid ഗ ഗ S Ó S ഗ S S NP=Non-Potable Specify Other 418.1 8015M 8015 TPH: × \times × \times × TX 1006 TX 1005 VOCs Free of Headspace?
Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s)
Sample Hand Delivered
by Sample/Client Rep.?
by Courier? UPS DHL Cations (Ca, Mg, Na, K) Laboratory Comments: Sample Containers Intact? Anions (CI, SO4, Alkalinity) SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg Se Volatiles Semivolatiles BTEX 8021B/5030 or BTEX 8260 × \times × RCI N.O.R.M. Chlorides × × \times × × SAR RUSH TAT (Pre-Schedule) 24, 48, 7 Standard TAT

.AB # (lab use only)

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Relinquished by:

Date

Time

Received by ELOT:

Date

ime

Temperature Upon Receipt: