

Table 910-1		PIONEER NATURAL RESOURCES		6-Jan-20		
CONCENTRATION LEVELS						
Contaminant of Concern	Concentrations	Units	SS1 LORENCITO 7-7 OFFSITE SPILL PATH SS	SS2 LORENCITO 7-7 OFFSITE SPILL PATH SS	SS3 LORENCITO 7-7 OFFSITE SPILL PATH SS	SS4 LORENCITO 7-7 OFFSITE SPILL PATH SS
Organic Compounds in Soil						
TPH (Gasoline Range Organics)	500	mg/kg	ND	ND	ND	ND
TPH (Diesel Range Organics)		mg/kg	14	20	19	68
Benzene	0.17	mg/kg	ND	ND	ND	ND
Toluene	85	mg/kg	ND	ND	ND	ND
Ethylbenzene	100	mg/kg	ND	ND	ND	ND
Xylenes (total)	175	mg/kg	ND	ND	ND	ND
Acenaphthene	1000	mg/kg				
Anthracene	1000	mg/kg				
Benzo(A)anthracene	0.22	mg/kg				
Benzo(B)fluoranthene	0.22	mg/kg				
Benzo(K)fluoranthene	2.2	mg/kg				
Benzo(A)pyrene	0.022	mg/kg				
Chrysene	22	mg/kg				
Dibenzo(A,H)anthracene	0.022	mg/kg				
Fluoranthene	1000	mg/kg				
Fluorene	1000	mg/kg				
Indeno(1,2,3,C,D)pyrene	0.22	mg/kg				
Napthalene	23	mg/kg				
Pyrene	1000	mg/kg				
Organic Compounds in Ground Water						
Benzene	5	µg/l				
Toluene	560 to 1000	µg/l				
Ethylbenzene	700	µg/l				
Xylenes (total)	1400 to 10,000	µg/l				
Inorganics in Soils						
Electrical Conductivity (EC)	<4000 or 2x background	umhos/cm	530	510	610	800
Sodium Adsorption Ratio (SAR)	<12	NA	13	3.8	18	16
pH	6.0-9.0	NA	8.6	8.7	8.5	8.1
Inorganics in Ground Water						
Total Dissolved Solids (TDS)	<1.25 x background	NA				
Chlorides	<1.25 x background	NA				
Sulfates	<1.25 x background	NA				
Metals in Soils						
Arsenic	0.39	mg/kg				
Barium Total	15,000	mg/kg	240	380	310	730
Boron		mg/kg	ND	ND	ND	ND
Boron (Hot Water Soluble)	2	mg/L				
Cadmium	70	mg/kg	ND	ND	ND	ND
Chromium (III)	120,000	mg/kg				
Chromium (VI)	23	mg/kg				
Copper	3,100	mg/kg	16	26	24	28
Lead	400	mg/kg	11	15	15	16
Mercury	23	mg/kg	ND	ND	ND	ND
Nickel	1,600	mg/kg	9.7	15	14	17
Selenium	390	mg/kg	0.37	0.53	0.58	0.56
Silver	390	mg/kg	ND	ND	ND	ND
Zinc	23,000	mg/kg	54	79	76	82
Chromium		mg/kg	8.5	13	11	17
Liquid Hydrocarbons in Soils and Ground Water						
Liquid hydrocarbons including condensate and oil	Below detection level	NA				

NA - not applicable

NT - not tested

ND - below the method detection limit

Cr - if Total Cr is >23 mg/kg, an analysis is completed for Cr VI, to facilitate calculation of Cr III

Sample Summary

Client: Evergreen Natural Resources LLC
Project/Site: Soil Testing Suite

Job ID: 280-132554-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-132554-1	SS1 LORENCITO 7-7 OFFSITE SPILL PATH SS	Solid	01/06/20 13:49	01/07/20 10:15	
280-132554-2	SS2 LORENCITO 7-7 OFFSITE SPILL PATH SS	Solid	01/06/20 14:00	01/07/20 10:15	
280-132554-3	SS3 LORENCITO 7-7 OFFSITE SPILL PATH SS	Solid	01/06/20 14:05	01/07/20 10:15	
280-132554-4	SS4 LORENCITO 7-7 OFFSITE SPILL PATH SS	Solid	01/06/20 14:12	01/07/20 10:15	

Client Sample Results

Client: Evergreen Natural Resources LLC
Project/Site: Soil Testing Suite

Job ID: 280-132554-1

Client Sample ID: SS1 LORENCITO 7-7 OFFSITE SPILL PATH SS

Lab Sample ID: 280-132554-1

Date Collected: 01/06/20 13:49

Matrix: Solid

Date Received: 01/07/20 10:15

Percent Solids: 76.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0065		mg/Kg	☼	01/09/20 13:28	01/10/20 15:11	1
Ethylbenzene	ND		0.0065		mg/Kg	☼	01/09/20 13:28	01/10/20 15:11	1
Toluene	ND		0.0065		mg/Kg	☼	01/09/20 13:28	01/10/20 15:11	1
Xylenes, Total	ND		0.0065		mg/Kg	☼	01/09/20 13:28	01/10/20 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		58 - 140	01/09/20 13:28	01/10/20 15:11	1
Toluene-d8 (Surr)	113		80 - 126	01/09/20 13:28	01/10/20 15:11	1
4-Bromofluorobenzene (Surr)	119		76 - 127	01/09/20 13:28	01/10/20 15:11	1
Dibromofluoromethane (Surr)	98		75 - 121	01/09/20 13:28	01/10/20 15:11	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		2.6		mg/Kg	☼	01/10/20 09:40	01/10/20 12:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	92		77 - 123	01/10/20 09:40	01/10/20 12:20	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14		9.8		mg/Kg	☼	01/08/20 10:20	01/09/20 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	61		49 - 115	01/08/20 10:20	01/09/20 19:07	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	13		1.2		No Unit	—	01/10/20 09:17	01/15/20 19:08	10

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	240		1.0		mg/Kg	☼	01/14/20 08:05	01/14/20 20:41	1
Boron	ND		10		mg/Kg	☼	01/14/20 08:05	01/14/20 20:41	1
Cadmium	ND		2.5		mg/Kg	☼	01/14/20 08:05	01/15/20 19:23	5
Calcium	4000		50		mg/Kg	☼	01/14/20 08:05	01/14/20 20:41	1
Magnesium	2800		100		mg/Kg	☼	01/14/20 08:05	01/15/20 19:23	5
Molybdenum	ND		2.0		mg/Kg	☼	01/14/20 08:05	01/14/20 20:41	1
Silver	ND		1.0		mg/Kg	☼	01/14/20 08:05	01/14/20 20:41	1
Sodium	670		500		mg/Kg	☼	01/14/20 08:05	01/14/20 20:41	1

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	8.5	F1	0.20		mg/Kg	☼	01/15/20 08:15	01/16/20 16:31	1
Copper	16	F1	0.25		mg/Kg	☼	01/15/20 08:15	01/16/20 16:31	1
Lead	11		0.10		mg/Kg	☼	01/15/20 08:15	01/16/20 16:31	1
Nickel	9.7	F1	0.17		mg/Kg	☼	01/15/20 08:15	01/16/20 16:31	1
Selenium	0.37	F2	0.20		mg/Kg	☼	01/15/20 08:15	01/16/20 16:31	1
Zinc	54	F1	1.0		mg/Kg	☼	01/15/20 08:15	01/16/20 16:31	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Evergreen Natural Resources LLC
Project/Site: Soil Testing Suite

Job ID: 280-132554-1

Client Sample ID: SS1 LORENCITO 7-7 OFFSITE SPILL PATH SS

Lab Sample ID: 280-132554-1

Date Collected: 01/06/20 13:49

Matrix: Solid

Date Received: 01/07/20 10:15

Percent Solids: 76.3

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.024		mg/Kg	☼	01/21/20 16:30	01/21/20 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6	HF	0.1		SU	—		01/16/20 10:10	1
Percent Moisture	23.7		0.1		%			01/08/20 13:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	530		1.0		umhos/cm	—	01/16/20 10:00	01/16/20 14:10	1

Client Sample Results

Client: Evergreen Natural Resources LLC
Project/Site: Soil Testing Suite

Job ID: 280-132554-1

Client Sample ID: SS2 LORENCITO 7-7 OFFSITE SPILL PATH SS

Lab Sample ID: 280-132554-2

Date Collected: 01/06/20 14:00

Matrix: Solid

Date Received: 01/07/20 10:15

Percent Solids: 77.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0065		mg/Kg	☼	01/09/20 13:28	01/10/20 16:16	1
Ethylbenzene	ND		0.0065		mg/Kg	☼	01/09/20 13:28	01/10/20 16:16	1
Toluene	ND		0.0065		mg/Kg	☼	01/09/20 13:28	01/10/20 16:16	1
Xylenes, Total	ND		0.0065		mg/Kg	☼	01/09/20 13:28	01/10/20 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		58 - 140	01/09/20 13:28	01/10/20 16:16	1
Toluene-d8 (Surr)	118		80 - 126	01/09/20 13:28	01/10/20 16:16	1
4-Bromofluorobenzene (Surr)	103		76 - 127	01/09/20 13:28	01/10/20 16:16	1
Dibromofluoromethane (Surr)	96		75 - 121	01/09/20 13:28	01/10/20 16:16	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		2.6		mg/Kg	☼	01/10/20 09:40	01/10/20 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		77 - 123	01/10/20 09:40	01/10/20 13:30	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	20		9.6		mg/Kg	☼	01/08/20 10:20	01/09/20 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	66		49 - 115	01/08/20 10:20	01/09/20 19:29	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	3.8		1.2		No Unit	—	01/10/20 09:17	01/15/20 19:08	10

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	380		1.1		mg/Kg	☼	01/14/20 08:05	01/14/20 20:44	1
Boron	ND		11		mg/Kg	☼	01/14/20 08:05	01/14/20 20:44	1
Cadmium	ND		0.53		mg/Kg	☼	01/14/20 08:05	01/14/20 20:44	1
Calcium	4400		53		mg/Kg	☼	01/14/20 08:05	01/14/20 20:44	1
Magnesium	3000		21		mg/Kg	☼	01/14/20 08:05	01/14/20 20:44	1
Molybdenum	ND		2.1		mg/Kg	☼	01/14/20 08:05	01/14/20 20:44	1
Silver	ND		1.1		mg/Kg	☼	01/14/20 08:05	01/14/20 20:44	1
Sodium	1000		530		mg/Kg	☼	01/14/20 08:05	01/14/20 20:44	1

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	13		0.25		mg/Kg	☼	01/15/20 08:15	01/16/20 16:50	1
Copper	26		0.31		mg/Kg	☼	01/15/20 08:15	01/16/20 16:50	1
Lead	15		0.12		mg/Kg	☼	01/15/20 08:15	01/16/20 16:50	1
Nickel	15		0.21		mg/Kg	☼	01/15/20 08:15	01/16/20 16:50	1
Selenium	0.53		0.25		mg/Kg	☼	01/15/20 08:15	01/16/20 16:50	1
Zinc	79		1.2		mg/Kg	☼	01/15/20 08:15	01/16/20 16:50	1

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Client Sample Results

Client: Evergreen Natural Resources LLC
Project/Site: Soil Testing Suite

Job ID: 280-132554-1

**Client Sample ID: SS2 LORENCITO 7-7 OFFSITE SPILL PATH
SS**

Lab Sample ID: 280-132554-2

Date Collected: 01/06/20 14:00

Matrix: Solid

Date Received: 01/07/20 10:15

Percent Solids: 77.1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.025		mg/Kg	☼	01/21/20 16:30	01/21/20 17:57	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.7	HF	0.1		SU	—		01/16/20 10:10	1
Percent Moisture	22.9		0.1		%			01/08/20 13:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	510		1.0		umhos/cm	—	01/16/20 10:00	01/16/20 14:10	1

Client Sample Results

Client: Evergreen Natural Resources LLC
Project/Site: Soil Testing Suite

Job ID: 280-132554-1

Client Sample ID: SS3 LORENCITO 7-7 OFFSITE SPILL PATH SS

Lab Sample ID: 280-132554-3

Date Collected: 01/06/20 14:05

Matrix: Solid

Date Received: 01/07/20 10:15

Percent Solids: 78.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0055		mg/Kg	☼	01/09/20 13:28	01/10/20 16:38	1
Ethylbenzene	ND		0.0055		mg/Kg	☼	01/09/20 13:28	01/10/20 16:38	1
Toluene	ND		0.0055		mg/Kg	☼	01/09/20 13:28	01/10/20 16:38	1
Xylenes, Total	ND		0.0055		mg/Kg	☼	01/09/20 13:28	01/10/20 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		58 - 140	01/09/20 13:28	01/10/20 16:38	1
Toluene-d8 (Surr)	101		80 - 126	01/09/20 13:28	01/10/20 16:38	1
4-Bromofluorobenzene (Surr)	114		76 - 127	01/09/20 13:28	01/10/20 16:38	1
Dibromofluoromethane (Surr)	89		75 - 121	01/09/20 13:28	01/10/20 16:38	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		2.6		mg/Kg	☼	01/10/20 09:40	01/10/20 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		77 - 123	01/10/20 09:40	01/10/20 13:53	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	19		9.6		mg/Kg	☼	01/08/20 10:20	01/09/20 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	64		49 - 115	01/08/20 10:20	01/09/20 19:51	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	18		1.2		No Unit	—	01/10/20 09:17	01/15/20 19:08	10

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	310		0.96		mg/Kg	☼	01/14/20 08:05	01/14/20 20:46	1
Boron	ND		9.6		mg/Kg	☼	01/14/20 08:05	01/14/20 20:46	1
Cadmium	ND		2.4		mg/Kg	☼	01/14/20 08:05	01/15/20 19:25	5
Calcium	4300		48		mg/Kg	☼	01/14/20 08:05	01/14/20 20:46	1
Magnesium	2300		96		mg/Kg	☼	01/14/20 08:05	01/15/20 19:25	5
Molybdenum	ND		1.9		mg/Kg	☼	01/14/20 08:05	01/14/20 20:46	1
Silver	ND		0.96		mg/Kg	☼	01/14/20 08:05	01/14/20 20:46	1
Sodium	880		480		mg/Kg	☼	01/14/20 08:05	01/14/20 20:46	1

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	11		0.23		mg/Kg	☼	01/15/20 08:15	01/16/20 16:53	1
Copper	24		0.29		mg/Kg	☼	01/15/20 08:15	01/16/20 16:53	1
Lead	15		0.12		mg/Kg	☼	01/15/20 08:15	01/16/20 16:53	1
Nickel	14		0.19		mg/Kg	☼	01/15/20 08:15	01/16/20 16:53	1
Selenium	0.58		0.23		mg/Kg	☼	01/15/20 08:15	01/16/20 16:53	1
Zinc	76		1.2		mg/Kg	☼	01/15/20 08:15	01/16/20 16:53	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Evergreen Natural Resources LLC
Project/Site: Soil Testing Suite

Job ID: 280-132554-1

**Client Sample ID: SS3 LORENCITO 7-7 OFFSITE SPILL PATH
SS**

Lab Sample ID: 280-132554-3

Date Collected: 01/06/20 14:05

Matrix: Solid

Date Received: 01/07/20 10:15

Percent Solids: 78.9

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.024		mg/Kg	☼	01/21/20 16:30	01/21/20 17:59	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5	HF	0.1		SU	—		01/16/20 10:10	1
Percent Moisture	21.1		0.1		%			01/08/20 13:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	610		1.0		umhos/cm	—	01/16/20 10:00	01/16/20 14:10	1

Client Sample Results

Client: Evergreen Natural Resources LLC
Project/Site: Soil Testing Suite

Job ID: 280-132554-1

Client Sample ID: SS4 LORENCITO 7-7 OFFSITE SPILL PATH SS

Lab Sample ID: 280-132554-4

Date Collected: 01/06/20 14:12

Matrix: Solid

Date Received: 01/07/20 10:15

Percent Solids: 54.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0078		mg/Kg	☼	01/09/20 13:28	01/10/20 17:00	1
Ethylbenzene	ND		0.0078		mg/Kg	☼	01/09/20 13:28	01/10/20 17:00	1
Toluene	ND		0.0078		mg/Kg	☼	01/09/20 13:28	01/10/20 17:00	1
Xylenes, Total	ND		0.0078		mg/Kg	☼	01/09/20 13:28	01/10/20 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		58 - 140	01/09/20 13:28	01/10/20 17:00	1
Toluene-d8 (Surr)	108		80 - 126	01/09/20 13:28	01/10/20 17:00	1
4-Bromofluorobenzene (Surr)	103		76 - 127	01/09/20 13:28	01/10/20 17:00	1
Dibromofluoromethane (Surr)	96		75 - 121	01/09/20 13:28	01/10/20 17:00	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		3.7		mg/Kg	☼	01/10/20 09:40	01/10/20 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		77 - 123	01/10/20 09:40	01/10/20 14:17	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	68		15		mg/Kg	☼	01/08/20 10:20	01/09/20 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	72		49 - 115	01/08/20 10:20	01/09/20 20:13	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	16		1.2		No Unit	—	01/10/20 09:17	01/15/20 19:08	10

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	730		1.4		mg/Kg	☼	01/14/20 08:05	01/14/20 20:49	1
Boron	ND		14		mg/Kg	☼	01/14/20 08:05	01/14/20 20:49	1
Cadmium	ND		0.68		mg/Kg	☼	01/14/20 08:05	01/14/20 20:49	1
Calcium	3600		68		mg/Kg	☼	01/14/20 08:05	01/14/20 20:49	1
Magnesium	3000		27		mg/Kg	☼	01/14/20 08:05	01/14/20 20:49	1
Molybdenum	ND		2.7		mg/Kg	☼	01/14/20 08:05	01/14/20 20:49	1
Silver	ND		1.4		mg/Kg	☼	01/14/20 08:05	01/14/20 20:49	1
Sodium	1700		680		mg/Kg	☼	01/14/20 08:05	01/14/20 20:49	1

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	17		0.31		mg/Kg	☼	01/15/20 08:15	01/16/20 16:57	1
Copper	28		0.38		mg/Kg	☼	01/15/20 08:15	01/16/20 16:57	1
Lead	16		0.15		mg/Kg	☼	01/15/20 08:15	01/16/20 16:57	1
Nickel	17		0.26		mg/Kg	☼	01/15/20 08:15	01/16/20 16:57	1
Selenium	0.56		0.31		mg/Kg	☼	01/15/20 08:15	01/16/20 16:57	1
Zinc	82		1.5		mg/Kg	☼	01/15/20 08:15	01/16/20 16:57	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Evergreen Natural Resources LLC
Project/Site: Soil Testing Suite

Job ID: 280-132554-1

**Client Sample ID: SS4 LORENCITO 7-7 OFFSITE SPILL PATH
SS**

Lab Sample ID: 280-132554-4

Date Collected: 01/06/20 14:12

Matrix: Solid

Date Received: 01/07/20 10:15

Percent Solids: 54.3

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.035		mg/Kg	☼	01/21/20 16:30	01/21/20 18:01	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1	HF	0.1		SU	—		01/16/20 10:10	1
Percent Moisture	45.7		0.1		%			01/08/20 13:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	800		1.0		umhos/cm	—	01/16/20 10:00	01/16/20 14:10	1

Surrogate Summary

Client: Evergreen Natural Resources LLC
Project/Site: Soil Testing Suite

Job ID: 280-132554-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (58-140)	TOL (80-126)	BFB (76-127)	DBFM (75-121)
280-132554-1	SS1 LORENCITO 7-7 OFFSITE	101	113	119	98
280-132554-1 MS	SS1 LORENCITO 7-7 OFFSITE	103	100	104	100
280-132554-1 MSD	SPILL PATH SS				
	SS1 LORENCITO 7-7 OFFSITE	103	103	107	99
280-132554-2	SPILL PATH SS				
	SS2 LORENCITO 7-7 OFFSITE	99	118	103	96
280-132554-3	SPILL PATH SS				
	SS3 LORENCITO 7-7 OFFSITE	96	101	114	89
280-132554-4	SPILL PATH SS				
	SS4 LORENCITO 7-7 OFFSITE	96	108	103	96
LCS 280-482558/1-A	Lab Control Sample	100	108	93	99
MB 280-482558/2-A	Method Blank	103	98	103	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TFT1 (77-123)			
280-132554-1	SS1 LORENCITO 7-7 OFFSITE	92			
280-132554-1 MS	SS1 LORENCITO 7-7 OFFSITE	87			
280-132554-1 MSD	SPILL PATH SS				
	SS1 LORENCITO 7-7 OFFSITE	85			
280-132554-2	SPILL PATH SS				
	SS2 LORENCITO 7-7 OFFSITE	88			
280-132554-3	SPILL PATH SS				
	SS3 LORENCITO 7-7 OFFSITE	90			
280-132554-4	SPILL PATH SS				
	SS4 LORENCITO 7-7 OFFSITE	88			
LCS 280-482620/2-A	Lab Control Sample	101			
LCSD 280-482620/3-A	Lab Control Sample Dup	101			
MB 280-482620/1-A	Method Blank	103			

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		OTPH1 (49-115)			
280-132554-1	SS1 LORENCITO 7-7 OFFSITE	61			
280-132554-2	SS2 LORENCITO 7-7 OFFSITE	66			
	SPILL PATH SS				

Eurofins TestAmerica, Denver

Surrogate Summary

Client: Evergreen Natural Resources LLC
Project/Site: Soil Testing Suite

Job ID: 280-132554-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (49-115)
280-132554-3	SS3 LORENCITO 7-7 OFFSITE	64
280-132554-4	SS4 LORENCITO 7-7 OFFSITE	72
LCS 280-482379/2-A	SPILL PATH SS Lab Control Sample	76
LCSD 280-482379/3-A	Lab Control Sample Dup	77
MB 280-482379/1-A	Method Blank	76

Surrogate Legend

OTPH = o-Terphenyl

Lab Chronicle

Client: Evergreen Natural Resources LLC
Project/Site: Soil Testing Suite

Job ID: 280-132554-1

Client Sample ID: SS1 LORENCITO 7-7 OFFSITE SPILL PATH SS

Lab Sample ID: 280-132554-1

Date Collected: 01/06/20 13:49

Matrix: Solid

Date Received: 01/07/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	20B			100.078 g	30 mL	482614	01/10/20 09:17	DEG	TAL DEN
Soluble	Analysis	20B		10			483197	01/15/20 19:08	LMT	TAL DEN
Total/NA	Analysis	9045D		1	20 g	20 mL	170735	01/16/20 10:10	MAS	TAL CC
Soluble	Prep	Sat Paste Ext			20 g	20 mL	170748	01/16/20 10:00	LDK	TAL CC
Soluble	Analysis	9050A		1			170749	01/16/20 14:10	LDK	TAL CC
Total/NA	Analysis	Moisture		1			482420	01/08/20 13:24	SAH	TAL DEN

Client Sample ID: SS1 LORENCITO 7-7 OFFSITE SPILL PATH SS

Lab Sample ID: 280-132554-1

Date Collected: 01/06/20 13:49

Matrix: Solid

Date Received: 01/07/20 10:15

Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			5.065 g	5 mL	482558	01/09/20 13:28	GPM	TAL DEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	482641	01/10/20 15:11	GPM	TAL DEN
Total/NA	Prep	5030A			4.999 g	5 mL	482620	01/10/20 09:40	CAS	TAL DEN
Total/NA	Analysis	8015B		1	1 mL	50 mL	482633	01/10/20 12:20	CAS	TAL DEN
Total/NA	Prep	3546			16.1 g	1 mL	482379	01/08/20 10:20	MB	TAL DEN
Total/NA	Analysis	8015B		1			482567	01/09/20 19:07	RDP	TAL DEN
Total/NA	Prep	3050B			1.307 g	100 mL	482615	01/14/20 08:05	AL	TAL DEN
Total/NA	Analysis	6010B		1			483034	01/14/20 20:41	LMT	TAL DEN
Total/NA	Prep	3050B			1.307 g	100 mL	482615	01/14/20 08:05	AL	TAL DEN
Total/NA	Analysis	6010B		5			483096	01/15/20 19:23	LMT	TAL DEN
Total/NA	Prep	3050B			1.287 g	100 mL	482872	01/15/20 08:15	AL	TAL DEN
Total/NA	Analysis	6020		1			483227	01/16/20 16:31	LMT	TAL DEN
Total/NA	Prep	7471A			.55 g	50 mL	483533	01/21/20 16:30	MRJ	TAL DEN
Total/NA	Analysis	7471A		1			483617	01/21/20 17:54	MRJ	TAL DEN

Client Sample ID: SS2 LORENCITO 7-7 OFFSITE SPILL PATH SS

Lab Sample ID: 280-132554-2

Date Collected: 01/06/20 14:00

Matrix: Solid

Date Received: 01/07/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	20B			100.063 g	20 mL	482614	01/10/20 09:17	DEG	TAL DEN
Soluble	Analysis	20B		10			483197	01/15/20 19:08	LMT	TAL DEN
Total/NA	Analysis	9045D		1	20 g	20 mL	170735	01/16/20 10:10	MAS	TAL CC
Soluble	Prep	Sat Paste Ext			20 g	20 mL	170748	01/16/20 10:00	LDK	TAL CC
Soluble	Analysis	9050A		1			170749	01/16/20 14:10	LDK	TAL CC
Total/NA	Analysis	Moisture		1			482420	01/08/20 13:24	SAH	TAL DEN

Eurofins TestAmerica, Denver

Lab Chronicle

Client: Evergreen Natural Resources LLC
Project/Site: Soil Testing Suite

Job ID: 280-132554-1

Client Sample ID: SS2 LORENCITO 7-7 OFFSITE SPILL PATH
SS

Lab Sample ID: 280-132554-2

Date Collected: 01/06/20 14:00

Matrix: Solid

Date Received: 01/07/20 10:15

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			4.993 g	5 mL	482558	01/09/20 13:28	GPM	TAL DEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	482641	01/10/20 16:16	GPM	TAL DEN
Total/NA	Prep	5030A			4.962 g	5 mL	482620	01/10/20 09:40	CAS	TAL DEN
Total/NA	Analysis	8015B		1	1 mL	50 mL	482633	01/10/20 13:30	CAS	TAL DEN
Total/NA	Prep	3546			16.2 g	1 mL	482379	01/08/20 10:20	MB	TAL DEN
Total/NA	Analysis	8015B		1			482567	01/09/20 19:29	RDP	TAL DEN
Total/NA	Prep	3050B			1.233 g	100 mL	482615	01/14/20 08:05	AL	TAL DEN
Total/NA	Analysis	6010B		1			483034	01/14/20 20:44	LMT	TAL DEN
Total/NA	Prep	3050B			1.055 g	100 mL	482872	01/15/20 08:15	AL	TAL DEN
Total/NA	Analysis	6020		1			483227	01/16/20 16:50	LMT	TAL DEN
Total/NA	Prep	7471A			.54 g	50 mL	483533	01/21/20 16:30	MRJ	TAL DEN
Total/NA	Analysis	7471A		1			483617	01/21/20 17:57	MRJ	TAL DEN

Client Sample ID: SS3 LORENCITO 7-7 OFFSITE SPILL PATH
SS

Lab Sample ID: 280-132554-3

Date Collected: 01/06/20 14:05

Matrix: Solid

Date Received: 01/07/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	20B			100.192 g	50 mL	482614	01/10/20 09:17	DEG	TAL DEN
Soluble	Analysis	20B		10			483197	01/15/20 19:08	LMT	TAL DEN
Total/NA	Analysis	9045D		1	20 g	20 mL	170735	01/16/20 10:10	MAS	TAL CC
Soluble	Prep	Sat Paste Ext			20 g	20 mL	170748	01/16/20 10:00	LDK	TAL CC
Soluble	Analysis	9050A		1			170749	01/16/20 14:10	LDK	TAL CC
Total/NA	Analysis	Moisture		1			482420	01/08/20 13:24	SAH	TAL DEN

Client Sample ID: SS3 LORENCITO 7-7 OFFSITE SPILL PATH
SS

Lab Sample ID: 280-132554-3

Date Collected: 01/06/20 14:05

Matrix: Solid

Date Received: 01/07/20 10:15

Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			5.760 g	5 mL	482558	01/09/20 13:28	GPM	TAL DEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	482641	01/10/20 16:38	GPM	TAL DEN
Total/NA	Prep	5030A			4.966 g	5 mL	482620	01/10/20 09:40	CAS	TAL DEN
Total/NA	Analysis	8015B		1	1 mL	50 mL	482633	01/10/20 13:53	CAS	TAL DEN
Total/NA	Prep	3546			15.8 g	1 mL	482379	01/08/20 10:20	MB	TAL DEN
Total/NA	Analysis	8015B		1			482567	01/09/20 19:51	RDP	TAL DEN
Total/NA	Prep	3050B			1.318 g	100 mL	482615	01/14/20 08:05	AL	TAL DEN
Total/NA	Analysis	6010B		1			483034	01/14/20 20:46	LMT	TAL DEN
Total/NA	Prep	3050B			1.318 g	100 mL	482615	01/14/20 08:05	AL	TAL DEN
Total/NA	Analysis	6010B		5			483096	01/15/20 19:25	LMT	TAL DEN

Eurofins TestAmerica, Denver

Lab Chronicle

Client: Evergreen Natural Resources LLC
Project/Site: Soil Testing Suite

Job ID: 280-132554-1

Client Sample ID: SS3 LORENCITO 7-7 OFFSITE SPILL PATH
SS

Lab Sample ID: 280-132554-3

Date Collected: 01/06/20 14:05

Matrix: Solid

Date Received: 01/07/20 10:15

Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.100 g	100 mL	482872	01/15/20 08:15	AL	TAL DEN
Total/NA	Analysis	6020		1			483227	01/16/20 16:53	LMT	TAL DEN
Total/NA	Prep	7471A			.55 g	50 mL	483533	01/21/20 16:30	MRJ	TAL DEN
Total/NA	Analysis	7471A		1			483617	01/21/20 17:59	MRJ	TAL DEN

Client Sample ID: SS4 LORENCITO 7-7 OFFSITE SPILL PATH
SS

Lab Sample ID: 280-132554-4

Date Collected: 01/06/20 14:12

Matrix: Solid

Date Received: 01/07/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	20B			100.215 g	30 mL	482614	01/10/20 09:17	DEG	TAL DEN
Soluble	Analysis	20B		10			483197	01/15/20 19:08	LMT	TAL DEN
Total/NA	Analysis	9045D		1	20 g	20 mL	170735	01/16/20 10:10	MAS	TAL CC
Soluble	Prep	Sat Paste Ext			20 g	20 mL	170748	01/16/20 10:00	LDK	TAL CC
Soluble	Analysis	9050A		1			170749	01/16/20 14:10	LDK	TAL CC
Total/NA	Analysis	Moisture		1			482420	01/08/20 13:24	SAH	TAL DEN

Client Sample ID: SS4 LORENCITO 7-7 OFFSITE SPILL PATH
SS

Lab Sample ID: 280-132554-4

Date Collected: 01/06/20 14:12

Matrix: Solid

Date Received: 01/07/20 10:15

Percent Solids: 54.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			5.866 g	5 mL	482558	01/09/20 13:28	GPM	TAL DEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	482641	01/10/20 17:00	GPM	TAL DEN
Total/NA	Prep	5030A			4.990 g	5 mL	482620	01/10/20 09:40	CAS	TAL DEN
Total/NA	Analysis	8015B		1	1 mL	50 mL	482633	01/10/20 14:17	CAS	TAL DEN
Total/NA	Prep	3546			15.0 g	1 mL	482379	01/08/20 10:20	MB	TAL DEN
Total/NA	Analysis	8015B		1			482567	01/09/20 20:13	RDP	TAL DEN
Total/NA	Prep	3050B			1.354 g	100 mL	482615	01/14/20 08:05	AL	TAL DEN
Total/NA	Analysis	6010B		1			483034	01/14/20 20:49	LMT	TAL DEN
Total/NA	Prep	3050B			1.196 g	100 mL	482872	01/15/20 08:15	AL	TAL DEN
Total/NA	Analysis	6020		1			483227	01/16/20 16:57	LMT	TAL DEN
Total/NA	Prep	7471A			.53 g	50 mL	483533	01/21/20 16:30	MRJ	TAL DEN
Total/NA	Analysis	7471A		1			483617	01/21/20 18:01	MRJ	TAL DEN

Laboratory References:

TAL CC = Eurofins TestAmerica, Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins TestAmerica, Denver

Chain of Custody Record

[illegible]