

TABLE 1  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
PDC 69175  
WILSON IC PAD, WELD COUNTY, COLORADO  
REM #

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
Waste Char	4/22/2024	2	23	87	26	43	53	18	0.35	6100	4700	1200
MW-1 18 Ft	4/26/2024	18	0.00212	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<0.200	<25.0	<100
MW-1 20 Ft	4/26/2024	20	0.325	0.79	0.127	1.01	0.291	0.0857	0.004	101	28.3	<100
MW-2 18 Ft	4/26/2024	18	0.00718	0.0059	<0.00200	0.00358	0.00212	<0.00200	<0.002	<0.200	<25.0	<100
MW-2 20 Ft	4/26/2024	20	1.24	8.77	1.83	14.2	4.23	1.27	0.15	389	110	<100
MW-3 14 Ft	4/26/2024	14	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<0.200	<25.0	<100
MW-3 22 Ft	4/26/2024	22	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<0.200	<25.0	<100
MW-4 14 Ft	4/26/2024	14	0.0212	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	0.277	<25.0	<100
MW-4 19 Ft	4/26/2024	19	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<0.200	<25.0	<100
MW-5 16 Ft	4/26/2024	16	<0.00200	0.0116	0.00914	0.182	0.208	0.0518	0.018	5.94	<25.0	<100
MW-5 20 Ft	4/26/2024	20	<0.00200	0.387	0.355	3.29	1.83	0.543	<0.002	95	212	<100
MW-6 22 Ft	4/26/2024	22	0.00488	0.012	<0.00200	0.0326	0.0202	0.00484	<0.002	0.524	<25.0	<100
MW-7 22 Ft	4/26/2024	22	0.204	2.000	0.638	6.130	2.7	0.789	<0.002	116	385	<100

1. Bold values exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. \* Indicates laboratory minimum detection limit in excess of SSL
4. \*\* Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.  
 = Material excavated and transported off site for disposal.

TABLE 2  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
PDC 69175  
WILSON IC PAD, WELD COUNTY, COLORADO  
REM #

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl - Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
Waste Char	4/22/2024	2	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
MW-1 18 Ft	4/26/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
MW-1 20 Ft	4/26/2024	20	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<b>0.009</b>	0.016
MW-2 18 Ft	4/26/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
MW-2 20 Ft	4/26/2024	20	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.059	<0.020	<0.020	<b>0.308</b>	<b>0.551</b>
MW-3 14 Ft	4/26/2024	14	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
MW-3 22 Ft	4/26/2024	22	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
MW-4 14 Ft	4/26/2024	14	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
MW-4 19 Ft	4/26/2024	19	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
MW-5 16 Ft	4/26/2024	16	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<b>0.041</b>	<b>0.073</b>
MW-5 20 Ft	4/26/2024	20	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.073	<0.020	<0.020	<b>0.359</b>	<b>0.634</b>
MW-6 22 Ft	4/26/2024	22	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	0.022	<0.020	<0.020	0.118	<0.020	<0.020	<b>0.624</b>	<b>1.11</b>
MW-7 22 Ft	4/26/2024	22	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002

1. Bold values exceed the ECMC Table 915-1 limit(s)  
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)  
3. \* Indicates laboratory minimum detection limit in excess of SSL  
NA - Not analyzed  
= Source material characterization sample, excavated and transported off site for disposal.  
= Material excavated and transported off site for disposal.

**TABLE 3**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**PDC 69175**  
**WILSON IC PAD, WELD COUNTY, COLORADO**  
**REM #**

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Waste Char	4/22/2024	2	8.04	0.244	0.115	<2.00
MW-1 18 Ft	4/26/2024	18	<b>8.62</b>	0.665	0.821	0.459
MW-1 20 Ft	4/26/2024	20	<b>8.59</b>	0.416	0.836	0.398
MW-2 18 Ft	4/26/2024	18	<b>8.45</b>	0.816	1.03	0.538
MW-2 20 Ft	4/26/2024	20	<b>8.48</b>	0.368	0.701	0.353
MW-3 14 Ft	4/26/2024	14	<b>8.52</b>	0.337	0.403	0.522
MW-3 22 Ft	4/26/2024	22	<b>8.44</b>	0.377	0.864	0.291
MW-4 14 Ft	4/26/2024	14	<b>8.51</b>	0.404	0.667	0.425
MW-4 19 Ft	4/26/2024	19	<b>8.53</b>	0.429	0.775	0.376
MW-5 16 Ft	4/26/2024	16	<b>8.50</b>	0.267	0.267	0.310
MW-5 20 Ft	4/26/2024	20	<b>8.48</b>	1.07	0.294	0.344
MW-6 22 Ft	4/26/2024	22	<b>8.53</b>	1.01	0.379	0.309
MW-7 22 Ft	4/26/2024	22	<b>8.36</b>	1.04	0.419	0.714
Maximum Root Background Concentration (0 - 3 ft)						
Average Root Background Concentration (0 - 3 ft)						
Maximum Background Concentration						
Average Background Concentration						

1. Bold faced values exceed the ECMC Table 915-1 limit(s)

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

  = Source material characterization sample, excavated and transported off site for disposal.

  = Material excavated and transported off site for disposal.

TABLE 4  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
PDC 69175  
WILSON IC PAD, WELD COUNTY, COLORADO  
REM #

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Waste Char	4/22/2024	2	<b>2.24</b>	57.1	<0.200	<0.30	8.93	6.23	4.83	<0.260	0.032	25.3
MW-1 18 Ft	4/26/2024	18	<b>5.21</b>	44.6	0.0938	<0.142	<9.38	8.13	9.38	<0.244	<0.0938	35.7
MW-1 20 Ft	4/26/2024	20	<b>6.21</b>	82	0.0872	<0.141	8.73	9.49	10.5	<b>0.294</b>	<0.0864	41.6
MW-2 18 Ft	4/26/2024	18	<b>5.59</b>	33.2	0.11	<0.131	<8.45	8.38	10.2	<b>0.38</b>	<0.0845	40.1
MW-2 20 Ft	4/26/2024	20	<b>5.87</b>	53.6	<0.0991	<0.125	<9.91	8.6	9.08	<b>0.281</b>	<0.0991	<36.7
MW-3 14 Ft	4/26/2024	14	<b>5.58</b>	52.1	0.123	<0.102	<9.01	8.48	9.81	0.239	<0.0901	37.5
MW-3 22 Ft	4/26/2024	22	<b>20.6</b>	<b>291</b>	0.142	<0.131	14.2	<b>21</b>	13.8	<b>0.455</b>	<0.0889	85.6
MW-4 14 Ft	4/26/2024	14	<b>6.18</b>	49	0.118	<0.173	8.7	9.85	10.8	<b>0.357</b>	<0.0858	41.4
MW-4 19 Ft	4/26/2024	19	<b>5.92</b>	79.5	0.113	<0.163	9.49	9.67	11.5	<0.231	<0.0887	44.9
MW-5 16 Ft	4/26/2024	16	<b>10.1</b>	38.2	0.0998	<0.138	12.4	13.6	14	<0.224	<0.0860	60.8
MW-5 20 Ft	4/26/2024	20	<b>29.2</b>	32	<0.0979	<0.164	<9.79	8.95	8.34	<b>0.304</b>	<0.0979	37.6
MW-6 22 Ft	4/26/2024	22	<b>7.09</b>	53.7	0.0989	<0.175	<9.33	9.26	9.31	<0.243	<0.0933	39.3
MW-7 22 Ft	4/26/2024	22	<b>24.1</b>	37.1	<0.0973	<0.178	11.9	<b>17.5</b>	16	<b>0.272</b>	<0.0973	52.1
Maximum Root Zone Background Concentration (0 - 3 ft)												
125% Average Root Zone Background Concentration (0 - 3 ft)												
Maximum Background Concentration												
125% Average Background Concentration												

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

\* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

  = Source material characterization sample, excavated and transported off site for disposal.

  = Material excavated and transported off site for disposal.

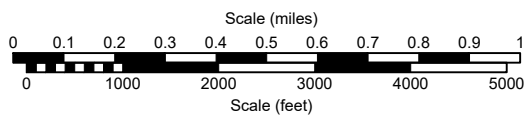
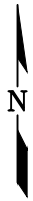
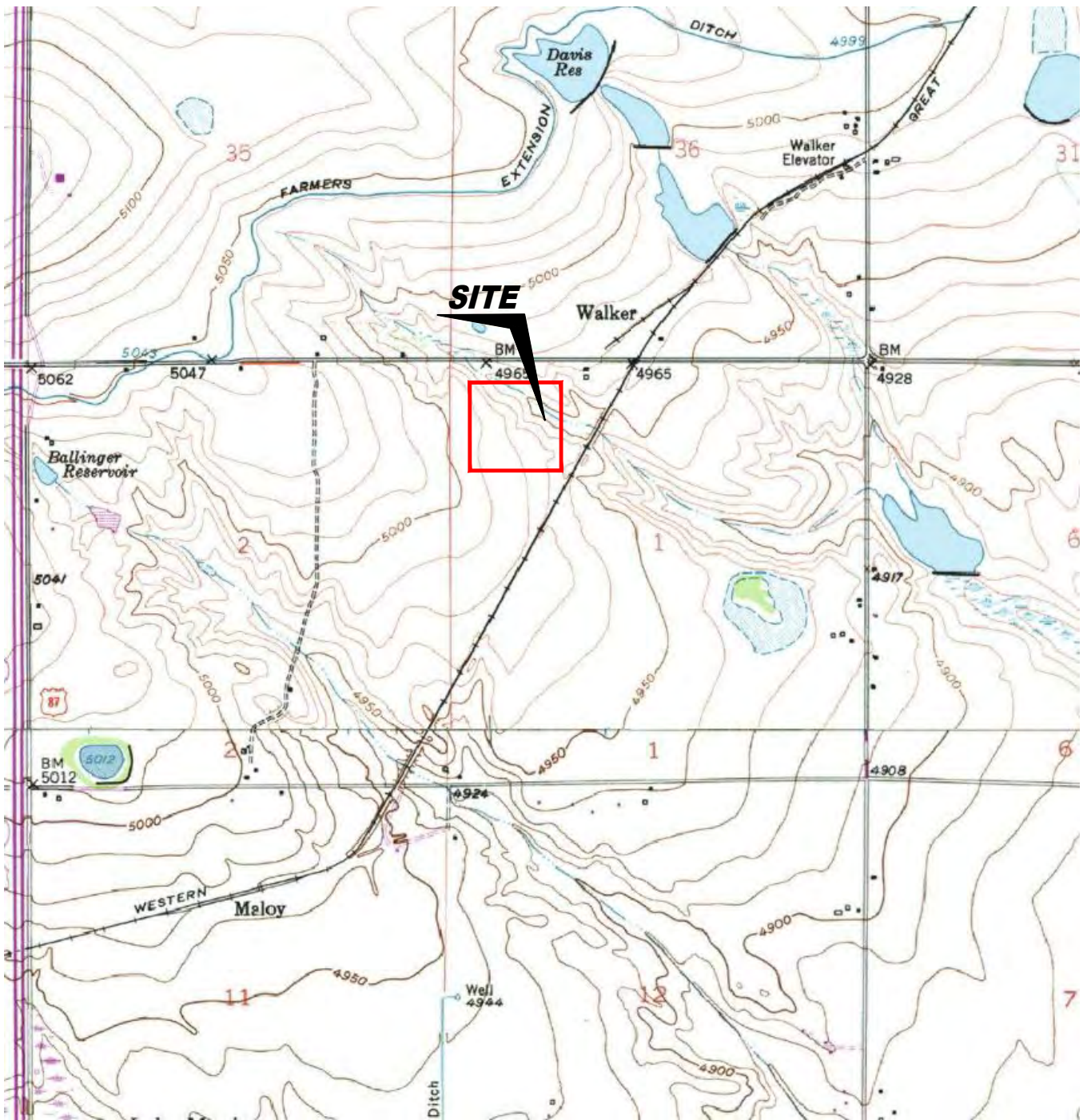
TABLE 5  
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA  
PDC 69175  
WILSON IC PAD, WELD COUNTY, COLORADO  
REM #

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater Below TOC (ft)	Groundwater Below Ground Surface (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67					
MW-1	04/29/24	<b>4120</b>	<b>3740</b>	219	<b>1760</b>	17.1	<b>200</b>	60.5	99.8	18.60		81.20	NP
	06/06/24	NS	NS	NS	NS	NS	NS	NS		18.65		81.15	NP
MW-2	04/29/24	<b>13600</b>	<b>9480</b>	409	<b>3130</b>	30.7	<b>220</b>	63.2	99.48	19.63		79.85	NP
	06/06/24	NS	NS	NS	NS	NS	NS	NS		19.68		79.80	NP
MW-3	04/29/24	<b>280</b>	5.28	1.08	17.7	3.45	2.27	<2.00	99.88	18.19		81.69	NP
	06/06/24	NS	NS	NS	NS	NS	NS	NS		18.25		81.63	NP
MW-4	04/29/24	<b>63.5</b>	1.27	<1.00	<1.00	<2.00	<2.00	<2.00	99.89	18.16		81.73	NP
	06/06/24	NS	NS	NS	NS	NS	NS	NS		18.21		81.68	NP
MW-5	04/29/24	<b>5330</b>	<b>9800</b>	550	<b>3700</b>	33.9	<b>366</b>	<b>93.2</b>	100	19.79		80.21	NP
	06/06/24	NS	NS	NS	NS	NS	NS	NS		19.83		80.17	NP
MW-6	04/29/24	insuff	insuff	insuff	insuff	insuff	insuff	insuff	99.9	20.01		79.89	NP
	06/06/24	NS	NS	NS	NS	NS	NS	NS		Dry		Dry	NP
MW-7	04/29/24	insuff	insuff	insuff	insuff	insuff	insuff	insuff	99.93	DRY		Dry	NP
	06/06/24	NS	NS	NS	NS	NS	NS	NS		21.02		78.91	NP

1. Bold values exceed the ECMC limit(s)

2. Red highlighted groundwater analytical values indicate a regulatory exceedance

NP - No measurable LNAPL, NA - Not Analyzed, NL - No Limit, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed, NS - Not Sampled



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

**PDC Energy, Inc. ~ Wilson IC Pad**  
 Lot 2, Section 1, T3N, R68W, 6th PM  
 Weld County, Colorado  
 40.259946°, -104.959729°

Project # <b>CO24-105</b>	API #	Facility #
Date <b>7/9/24</b>	Remediation #	Filename <b>24105T</b>





**LEGEND**

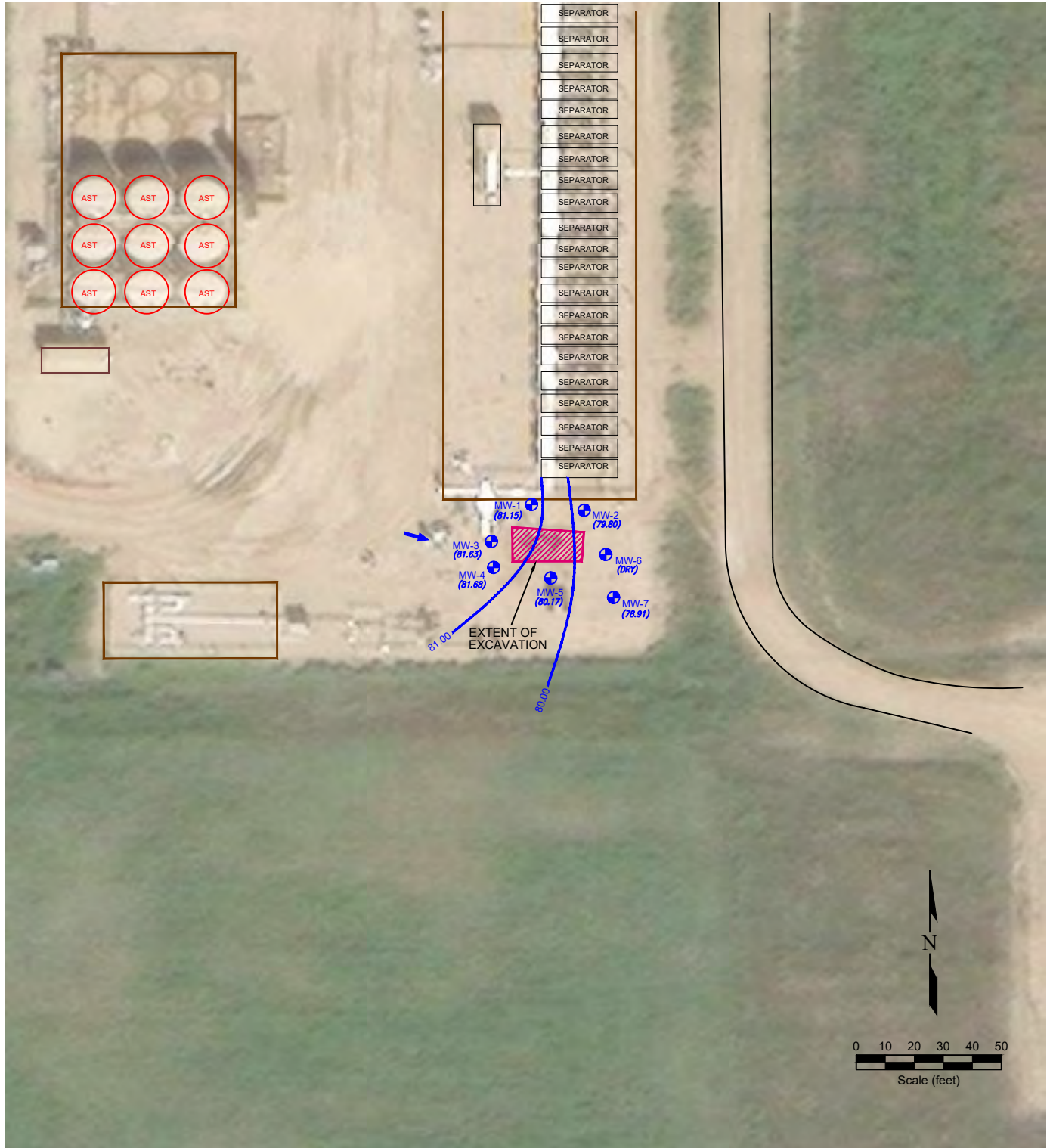
- MONITORING WELL
- ABOVE GROUND STORAGE TANK
- ▭ BUILDING
- ▭ BUILDING
- FENCE LINE
- ▭ AREA OF EXCAVATION
- ▭ CONTAINMENT BERM
- ▭ CONTAINMENT WALL
- ▭ EXTENT OF EXCAVATION

**Figure 2  
SITE MAP**

**PDC Energy, Inc. ~ Wilson IC Pad**  
 Lot 2, Section 1, T3N, R68W, 6th PM  
 Weld County, Colorado  
 40.259946°, -104.959729°

Project No. <b>CO24-105</b>	API #	Facility #
Date <b>7/9/24</b>	Remediation #	Filename <b>24105T</b>





**LEGEND**

- MONITORING WELL
- AST ABOVE GROUND STORAGE TANK
- BUILDING
- BUILDING
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL
- EXTENT OF EXCAVATION
- AREA OF EXCAVATION
- NOT USED IN CONTOURING
- (79.80) WATER NOT PRESENT
- (79.80) GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION (if above arbitrary datum)
- 80.00 WATER TABLE CONTOUR

Figure 3  
**INFERRED GROUNDWATER CONTOUR MAP**  
 June 6, 2024

**PDC Energy, Inc. ~ Wilson IC Pad**  
 Lot 2, Section 1, T3N, R68W, 6th PM  
 Weld County, Colorado  
 40.259946°, -104.959729°

Project No. <b>CO24-105</b>	API #	Facility #	
Date <b>7/9/24</b>	Remediation #	Filename <b>24105T</b>	

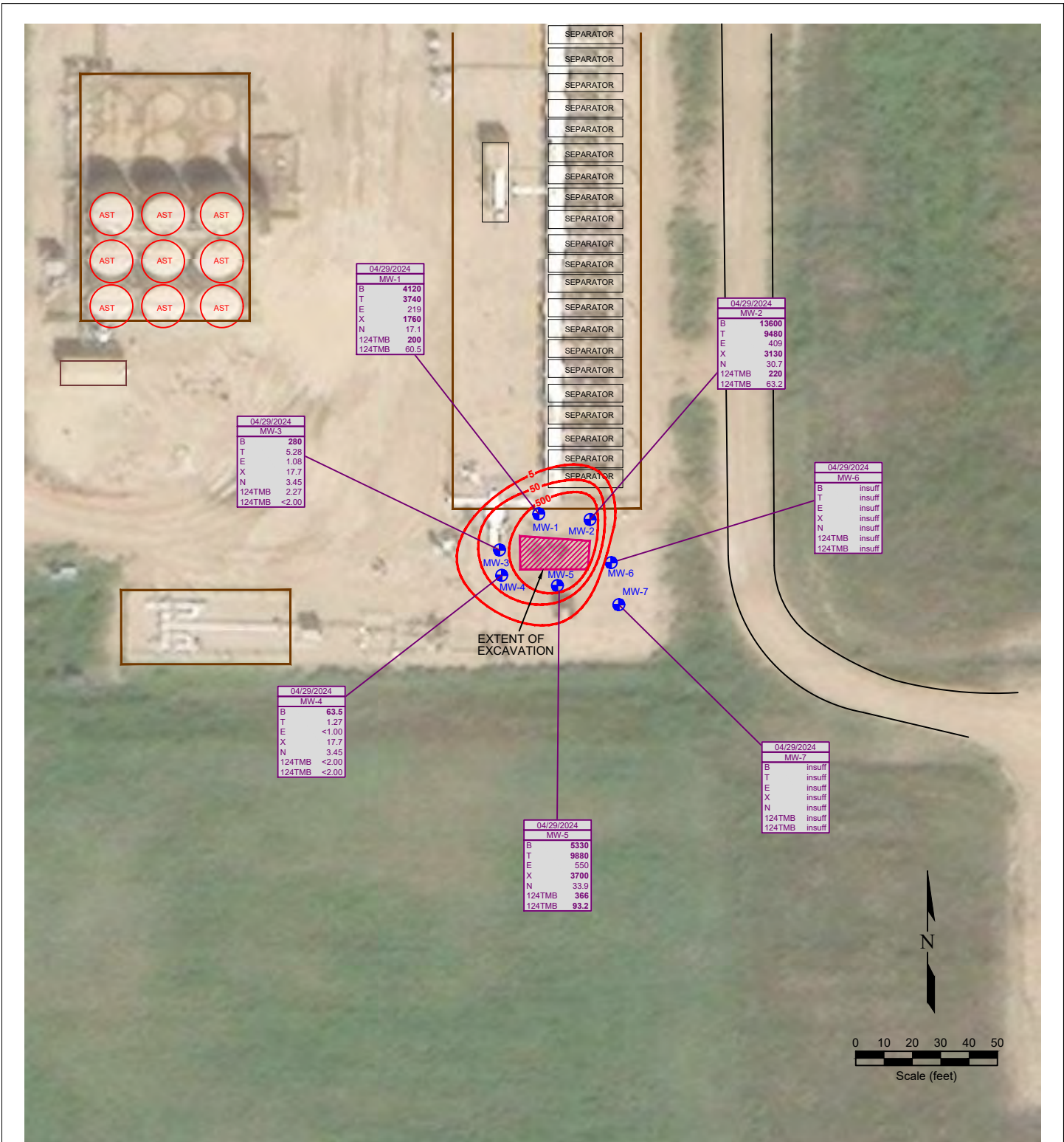


Figure 4  
**GROUNDWATER CHEMISTRY MAP**

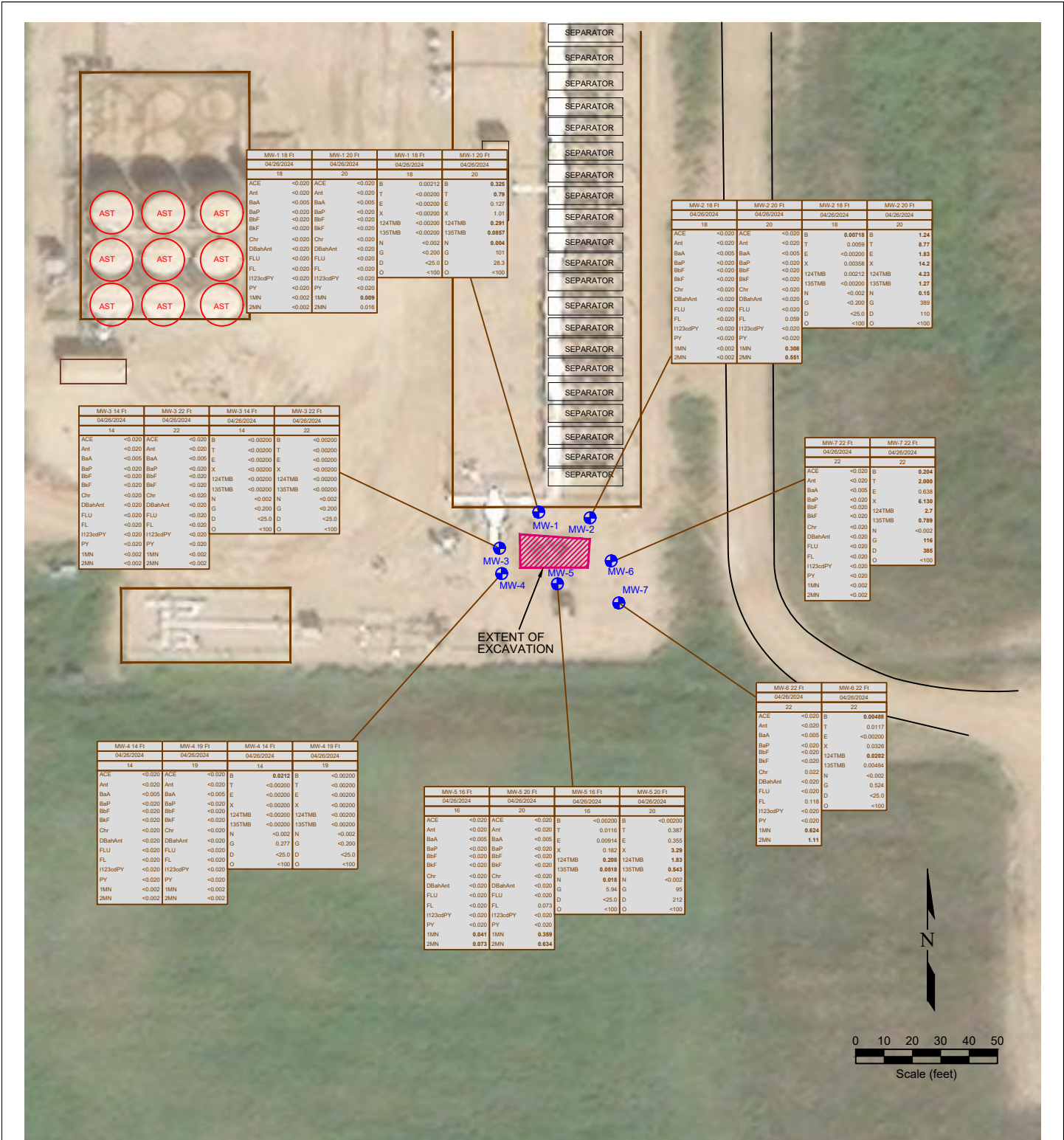
**PDC Energy, Inc. ~ Wilson IC Pad**  
 Lot 2, Section 1, T3N, R68W, 6th PM  
 Weld County, Colorado  
 40.259946°, -104.959729°

Project No. <b>CO24-105</b>	API #	Facility #
Date <b>7/9/24</b>	Remediation #	Filename <b>24105T</b>



DATE SAMPLED	SAMPLE ID	DATE SAMPLED	SAMPLE ID
04/29/2024	MW-1	04/29/2024	MW-1
B	4120	B	4120
T	3740	T	3740
E	219	E	219
X	1760	X	1760
N	17.1	N	17.1
124TMB	200	124TMB	200
124TMB	60.5	124TMB	60.5

BENZENE ISOCONCENTRATION (µg/L)  
 Dashed where inferred



**LEGEND**

Monitoring Well (Blue circle with 'M')

Above Ground Storage Tank (Red circle)

Building (Yellow rectangle)

Area of Excavation (Pink hatched rectangle)

Fence Line (Dashed line)

Containment Berm (Dotted line)

Containment Wall (Solid line)

Extent of Excavation (Red outline)

Not Analyzed (Blue 'N')

**Table 1: Sample ID**

SAMPLE ID	SAMPLE ID	DATE	DATE SAMPLED
ACE	<0.00000	ACENAPHTHENE (mg/kg)	
Ant	<0.00000	ANTHRACENE (mg/kg)	
BaA	<0.00000	BENZO (A) ANTHRACENE (mg/kg)	
BaP	<0.00000	BENZO (A) PYRENE (mg/kg)	
BbF	<0.00000	BENZO (B) FLUORANTHENE (mg/kg)	
BbF	<0.00000	BENZO (K) FLUORANTHENE (mg/kg)	
Chr	<0.00000	CHRYSENE (mg/kg)	
DBahAnt	<0.00000	DIBENZ (A,H) ANTHRACENE (mg/kg)	
FLU	<0.00000	FLUORANTHENE (mg/kg)	
FL	<0.00000	FLUORINE (mg/kg)	
I123cdPY	<0.00000	INDENO (1,2,3-CD) PYRENE (mg/kg)	
PY	<0.00000	PYRENE (mg/kg)	
1MN	<0.00000	1-METHYLNAPHTHALENE (mg/kg)	
2MN	<0.00000	2-METHYLNAPHTHALENE (mg/kg)	

**Table 2: Sample ID**

SAMPLE ID	SAMPLE ID	DATE	DATE SAMPLED
B	<0.0000	BENZENE (mg/kg)	
T	<0.0000	TOLUENE (mg/kg)	
E	<0.0000	ETHYL BENZENE (mg/kg)	
X	<0.010	TOTAL XYLENES (mg/kg)	
124TMB	<0.0050	1,2,4-TRIMETHYLBENZENE (mg/kg)	
135TMB	<0.0050	1,3,5-TRIMETHYLBENZENE (mg/kg)	
N	<0.0038	NAPHTHALENE (mg/kg)	
G	<0.50	TRH-GRO (mg/kg)	
D	<50	TRH-DRO (mg/kg)	
O	<50	TRH-ORO (mg/kg)	

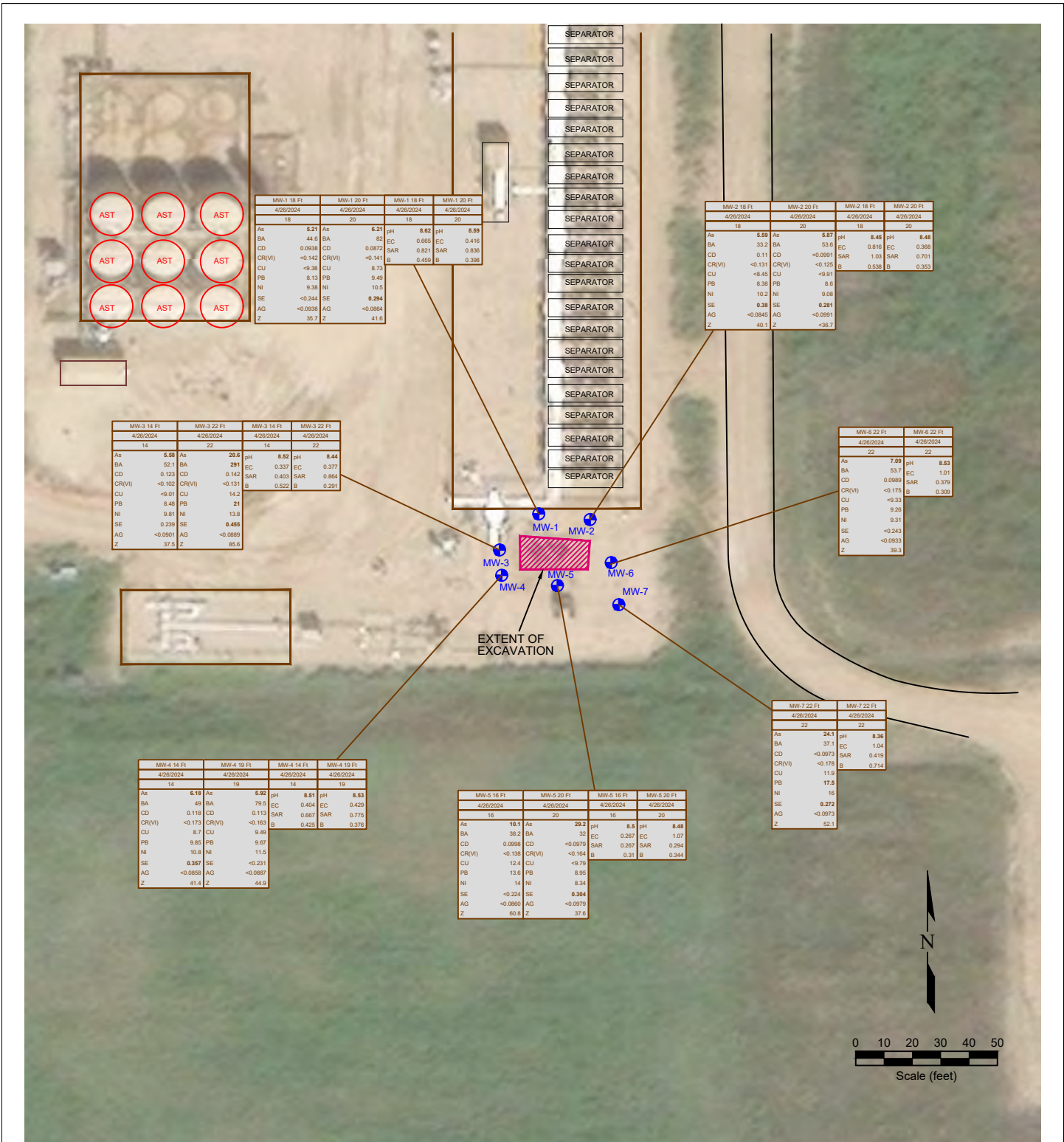
**Figure 5**

**ORGANIC SOIL CHEMISTRY MAP**

**PDC Energy, Inc. ~ Wilson IC Pad**  
 Lot 2, Section 1, T3N, R68W, 6th PM  
 Weld County, Colorado  
 40.259946°, -104.959729°

Project No. <b>CO24-105</b>	API #	Facility #
Date <b>7/9/24</b>	Remediation #	Filename <b>24105T</b>

**REMONT ENVIRONMENTAL**



**LEGEND**

- MONITORING WELL
- ABOVE GROUND STORAGE TANK
- BUILDING
- BUILDING
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL
- AREA OF EXCAVATION
- EXTENT OF EXCAVATION

SAMPLE DATE	SAMPLE ID	DEPTH (ft)	DATE SAMPLED	SAMPLE ID	DEPTH (ft)
As	-0.01	As	<20	As	<20
BA	-0.01	BA	7.00	BA	7.00
CD	-0.01	CD	<1	CD	<1
CR(VI)	-0.05	CR(VI)	<1	CR(VI)	<1
CU	-0.01	CU	<1	CU	<1
PB	-0.05	PB	<1	PB	<1
NI	-0.05	NI	<1	NI	<1
SE	-0.5	SE	<1	SE	<1
AG	-0.05	AG	<1	AG	<1
Z	-0.05	Z	<1	Z	<1

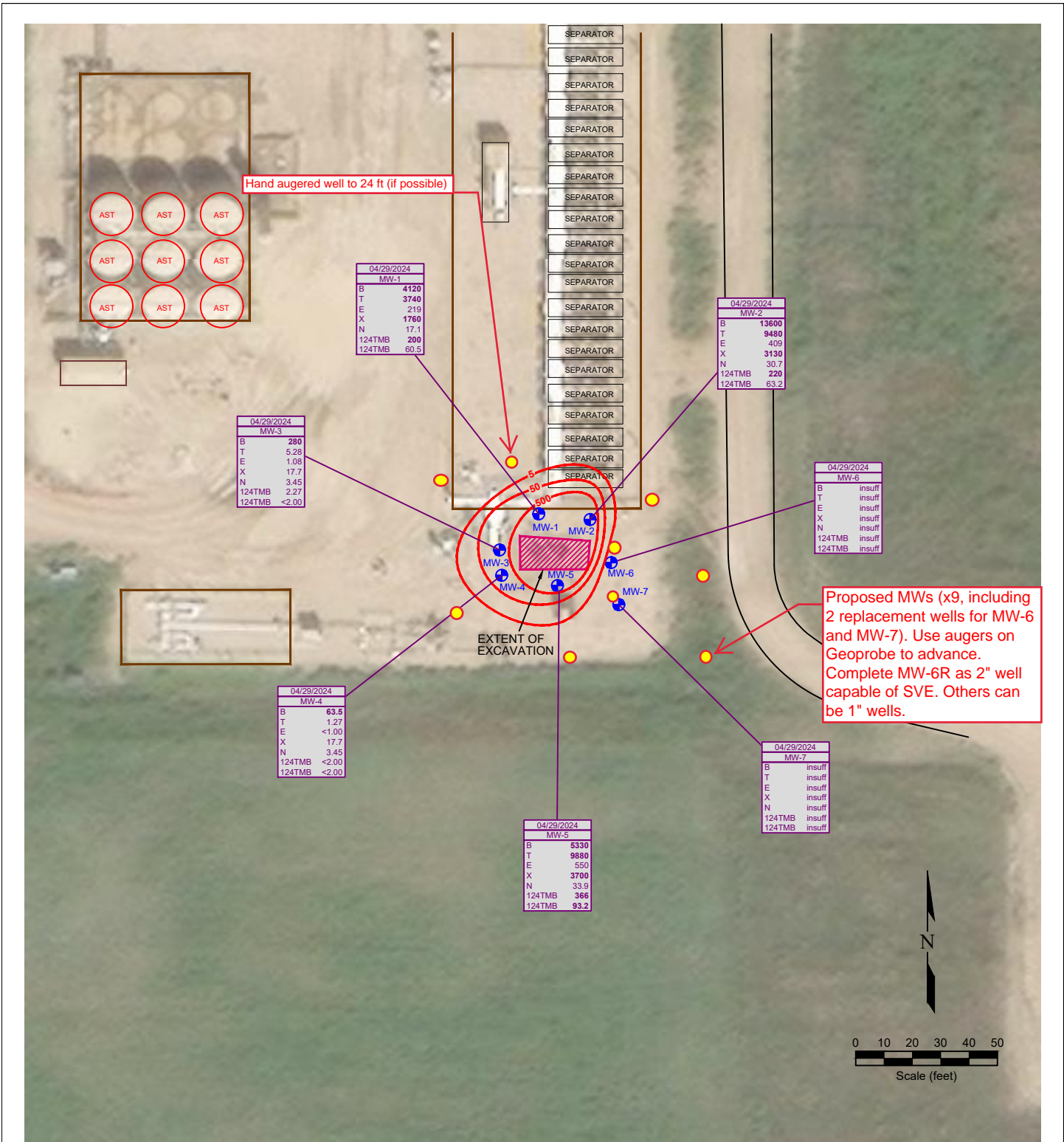
Figure 6

**METALS AND INORGANIC SOIL CHEMISTRY MAP**

**PDC Energy, Inc. ~ Wilson IC Pad**  
 Lot 2, Section 1, T3N, R68W, 6th PM  
 Weld County, Colorado  
 40.259946°, -104.959729°

Project No. <b>CO24-105</b>	API #	Facility #
Date <b>7/9/24</b>	Remediation #	Filename <b>24105T</b>





**LEGEND**

- MONITORING WELL
- ABOVE GROUND STORAGE TANK
- ▭ BUILDING
- ▨ AREA OF EXCAVATION
- FENCE LINE
- ▨ CONTAINMENT BERM
- ▨ CONTAINMENT WALL
- ▨ EXTENT OF EXCAVATION

DATE SAMPLED	SAMPLE ID	DATE SAMPLED
04/29/2024	MW-1	04/29/2024
B	4120	B
T	3740	T
E	219	E
X	1760	X
N	17.1	N
124TMB	200	124TMB
124TMB	60.5	124TMB

BENZENE ISOCONCENTRATION (ug/L)  
Dashed where inferred

Figure 7  
**PROPOSED MONITORING WELLS**

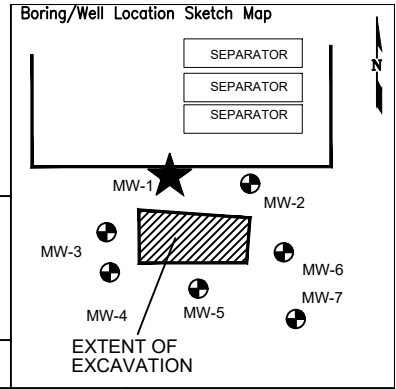
**PDC Energy, Inc. ~ Wilson IC Pad**  
Lot 2, Section 1, T3N, R68W, 6th PM  
Weld County, Colorado 40.259946°,  
-104.959729°

Project No. <b>CO24-105</b>	API #	Facility #
Date <b>6/7/24</b>	Remediation #	Filename <b>24105T</b>





# BORING/WELL CONSTRUCTION LOG



Page 1 of 2

Boring/Well No. <b>MW-1</b>		Total Depth <b>22'</b>	Location <b>PDC Energy, Inc. Wilson IC Pad Lot 2, Section 1, T3N, R68W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>CO24-105 / PDC Wilson IC Pad</b>		Drilling Contractor/Driller <b>Drill Pro</b>				
Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>		Approved By				
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>04/26/2024</b>		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Casing Mtrl./Dia. <b>PVC 1"</b>	Screen: Type <b>slotted</b>   Mtrl. <b>PVC</b>   Length <b>10'</b>   Dia. <b>1"</b>   Slot Size <b>0.010"</b>			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	Bentonite	1"	Blank	NA			NA
		NA			potholed		NA
		NA					NA
		NA					NA
		NA					NA
10		SC	Sandy clay, brown, a very light odor				1.6
		NA	NA				NA
		SC	Sandy clay, tan, very light odor		78%		3.9
			SC				3.5
			SC				2.9
15	#10-20 Silica Sand	1"	Screen				2.8
					98%		4.4
							4.2
			NA	NA			1.9
			NA	NA		75%	NA
20		SC	Sandy clay, moist, tan, light odor				9.6
		SC	Sandy clay, tan, light odor				12.1
							19.7



# BORING/WELL CONSTRUCTION LOG

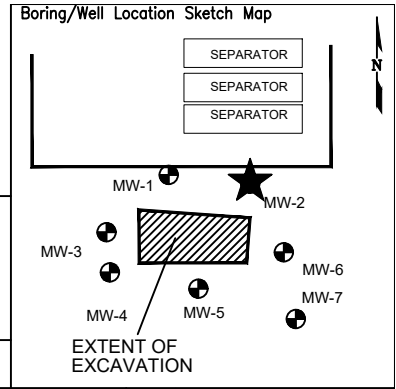
Page 2 of 2

Boring/Well No. <b>MW-1</b>	Location <b>PDC Energy, Inc.          Wilson IC Pad          Lot 2, Section 1, T3N, R68W, 6th PM          Weld County, Colorado</b>
Project No./Name <b>CO24-105 / PDC Wilson IC Pad</b>	

DEPTH (feet)	WELL CONSTRUCTION		LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			GRAPHIC LOG	VISUAL DESCRIPTION				
	#10-20 Silica Sand		1" Screen	<div style="border: 1px solid black; padding: 2px; width: 20px; margin: 0 auto;">SC</div>	Sandy clay, tan, odor			56.7
				<div style="border: 1px solid black; padding: 2px; width: 20px; margin: 0 auto;">SW</div>	Sand, very compact, tan	100%		7.7
25								
30								
35								
40								
45								
								TD 22' Refusal End of Boring



# BORING/WELL CONSTRUCTION LOG



Page 1 of 2

Boring/Well No. <b>MW-2</b>		Total Depth <b>22'</b>	Location <b>PDC Energy, Inc. Wilson IC Pad Lot 2, Section 1, T3N, R68W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>CO24-105 / PDC Wilson IC Pad</b>		Drilling Contractor/Driller <b>Drill Pro</b>				
Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>		Approved By				
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>04/26/2024</b>		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Casing Mtrl./Dia. <b>PVC 1"</b>	Screen: Type <b>slotted</b>   Mtrl. <b>PVC</b>   Length <b>10'</b>   Dia. <b>1"</b>   Slot Size <b>0.010"</b>			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	Bentonite	NA	NA		potholed		NA
	1" Blank		NA				NA
			NA				NA
			NA				NA
			NA				NA
			NA				NA
			NA				NA
			NA				NA
			NA				NA
			NA				NA
10		SC	Sandy clay, brown, a very light odor	50%		13.2	
		NA	NA			NA	
		SC	Sandy clay, tan, very light odor			20.1	
		NA	NA			35.7	
15	#10-20 Silica Sand	NA	NA	0%		NA	
	1" Screen		NA			NA	
			NA			NA	
			NA			NA	
			NA			NA	
			NA			NA	
20		SC	Sandy clay, brown, odor, moist	78%		54.2	
		SC	Saturated sandy clay, gray, odor			52.2	
						91.6	

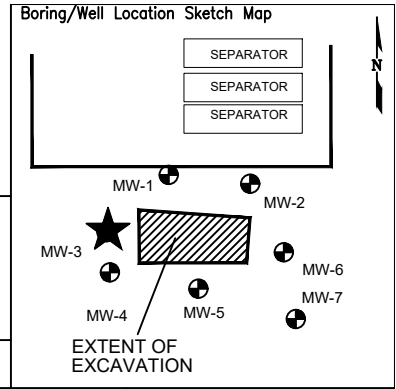
# BORING/WELL CONSTRUCTION LOG

Boring/Well No. <b>MW-2</b>	Location <b>PDC Energy, Inc.          Wilson IC Pad          Lot 2, Section 1, T3N, R68W, 6th PM          Weld County, Colorado</b>
Project No./Name <b>CO24-105 / PDC Wilson IC Pad</b>	

DEPTH (feet)	WELL CONSTRUCTION		LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			GRAPHIC LOG	VISUAL DESCRIPTION				
	#10-20 Silica Sand		<b>SC</b>	Saturated sandy clay, grey, odor			17.6	
			<b>SW</b>	Saturated sand, compact, light odor			15.0	
<b>25</b>				TD 22' Refusal End of Boring				
<b>30</b>								
<b>35</b>								
<b>40</b>								
<b>45</b>								



# BORING/WELL CONSTRUCTION LOG



Page 1 of 2

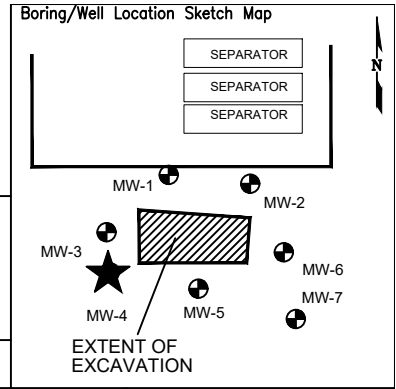
Boring/Well No. <b>MW-3</b>		Total Depth <b>22'</b>	Location <b>PDC Energy, Inc. Wilson IC Pad Lot 2, Section 1, T3N, R68W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>CO24-105 / PDC Wilson IC Pad</b>		Drilling Contractor/Driller <b>Drill Pro</b>				
Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>		Approved By				
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>04/26/2024</b>		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Casing Mtrl./Dia. <b>PVC 1"</b>	Screen: Type <b>slotted</b>   Mtrl. <b>PVC</b>   Length <b>10'</b>   Dia. <b>1"</b>   Slot Size <b>0.010"</b>			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION		LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			GRAPHIC LOG	VISUAL DESCRIPTION				
5	Bentonite	1" Blank	NA	NA		potholed		NA
			NA					NA
			NA					NA
			NA					NA
			NA					NA
10	#10-20 Silica Sand	1" Screen	SC	Sandy clay, brown, no odor		65%		NA
			NA					NA
			NA					NA
			NA					NA
			NA					NA
15	#10-20 Silica Sand	1" Screen	SC	Fine sand, sandy clay, tan, no odor		90%		6.2
			NA					NA
			NA					NA
			NA					NA
			NA					NA
20	#10-20 Silica Sand	1" Screen	SC	Sandy clay, moist, tan, no odor		48%		5.6
			NA					NA
			NA					NA
			NA					NA
			NA					NA
			SC	Saturated sandy clay, tan, no odor				0.1





# BORING/WELL CONSTRUCTION LOG



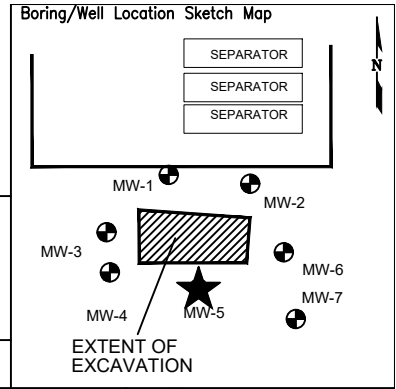
Page 1 of 1

Boring/Well No. <b>MW-4</b>		Total Depth <b>20'</b>	Location <b>PDC Energy, Inc. Wilson IC Pad Lot 2, Section 1, T3N, R68W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>CO24-105 / PDC Wilson IC Pad</b>		Drilling Contractor/Driller <b>Drill Pro</b>				
Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>		Approved By				
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>04/26/2024</b>		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Casing Mtrl./Dia. <b>PVC 1"</b>	Screen: Type <b>slotted</b> Mtrl. <b>PVC</b>	Length <b>10'</b>	Dia. <b>1"</b>	Slot Size <b>0.010"</b>
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)	
		GRAPHIC LOG	VISUAL DESCRIPTION					
5	Bentonite	NA	NA		potholed		NA	
	1" Blank					NA		
						NA		
						NA		
						NA		
10		SC	Sandy clay, brown, no odor		65%		NA	
							0.1	
							0.0	
							3.4	
							2.2	
15	#10-20 Silica Sand	SC	Fine sand, sandy clay, tan, no odor		100%		2.5	
	1" Screen						0.7	
								0.1
					Moist, sandy clay, tan, no odor,			3.7
								1.4
20		NA	NA		50%		0.0	
							NA	
				Saturated sandy clay, tan, no odor				NA
			SC					0.0
			SW	Sand, fine, no odor, compact				0.0
			TD 20'				0.0	



# BORING/WELL CONSTRUCTION LOG



Page 1 of 1

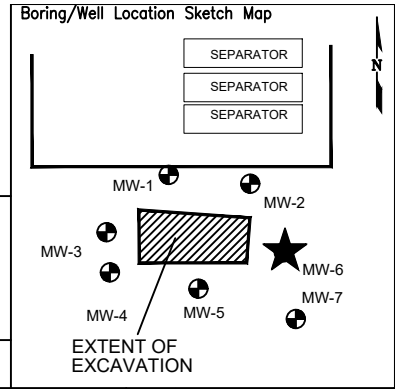
Boring/Well No. <b>MW-5</b>		Total Depth <b>22'</b>	Location <b>PDC Energy, Inc. Wilson IC Pad Lot 2, Section 1, T3N, R68W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>CO24-105 / PDC Wilson IC Pad</b>		Drilling Contractor/Driller <b>Drill Pro</b>				
Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>		Approved By				
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>04/26/2024</b>		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Casing Mtrl./Dia. <b>PVC 1"</b>	Screen: Type <b>slotted</b>   Mtrl. <b>PVC</b>   Length <b>10'</b>   Dia. <b>1"</b>   Slot Size <b>0.010"</b>			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	Bentonite	NA	NA		25%		NA
	1" Blank					NA	
						NA	
						NA	
						NA	
10		SC	Sandy clay, brown, no odor		98%		3.5
						2.7	
						8.6	
						6.3	
						6.3	
15	#10-20 Silica Sand		Sandy clay, tan, no odor		98%		12.9
	1" Screen					10.3	
						8.1	
						2.0	
						47.4	
20			Sandy clay, tan, odor		98%		2.8
						5.6	
						32.7	
						24.1	





# BORING/WELL CONSTRUCTION LOG



Page 1 of 1

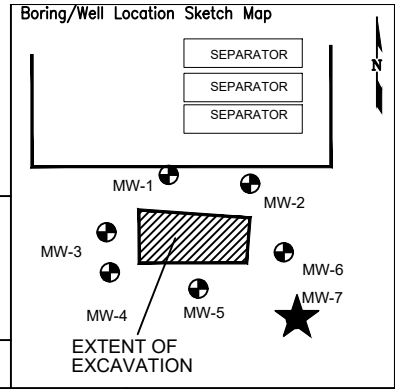
Boring/Well No. <b>MW-6</b>		Total Depth <b>22'</b>	Location <b>PDC Energy, Inc. Wilson IC Pad Lot 2, Section 1, T3N, R68W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>CO24-105 / PDC Wilson IC Pad</b>		Drilling Contractor/Driller <b>Drill Pro</b>				
Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>		Approved By				
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>04/26/2024</b>		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Casing Mtrl./Dia. <b>PVC 1"</b>	Screen: Type <b>slotted</b> Mtrl. <b>PVC</b> Length <b>10'</b> Dia. <b>1"</b> Slot Size <b>0.010"</b>			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION		LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)	
			GRAPHIC LOG	VISUAL DESCRIPTION					
5	Bentonite	1" Blank	<b>NA</b>	NA		potholed	NA	NA	
							NA	NA	
							10%	NA	0.0
								0.0	0.0
								0.0	0.0
								0.0	0.0
								0.0	0.0
								0.0	0.0
								0.0	0.0
								0.0	0.0
10			<b>SC</b>	Sandy clay, brown, no odor			97%	0.0	0.0
								0.0	0.0
								0.0	0.0
								0.0	0.0
								0.0	0.0
								0.0	0.0
								0.0	0.0
								0.0	0.0
								0.0	0.0
								0.0	0.0
15	#10-20 Silica Sand	1" Screen					100%	0.7	3.7
								0.5	0.8
								5.4	1.6
								1.4	





# BORING/WELL CONSTRUCTION LOG



Page 1 of 1

Boring/Well No. <b>MW-7</b>	Total Depth <b>22'</b>	Location <b>PDC Energy, Inc. Wilson IC Pad Lot 2, Section 1, T3N, R68W, 6th PM Weld County, Colorado</b>	
Project No./Name <b>CO24-105 / PDC Wilson IC Pad</b>		Approved By	
Drilling Contractor/Driller <b>Drill Pro</b>		Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>	
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>
		Start/Finish Date <b>04/26/2024</b>	
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. <b>PVC 1"</b>	Screen: Type <b>slotted</b> Mtrl. <b>PVC</b> Length <b>10'</b> Dia. <b>1"</b> Slot Size <b>0.010"</b>	
Elevation of: (ft. above datum)	Ground Surface	Top of Well Casing	Top of Screen Bottom of Screen Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	Bentonite	NA	NA		potholed		NA
	1" Blank		NA				
			NA				
			NA				
			NA				
10		SC	Sandy clay, brown, no odor		100%		0.0
			0.0				
			0.0				
15	#10-20 Silica Sand	NA	NA		75%		NA
	1" Screen		NA				
			0.0				
			0.0				
			0.0				
20			Fine sand, tan, no odor, compact		75%		0.0
			0.0				
			1.6				



# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 23, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: PDC - Wilson IC Pad  
Work Order #2404357

Enclosed are the results of analyses for samples received by Summit Scientific on 04/22/24 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is written in a cursive, flowing style.

Natalie Tessier For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Wilson IC Pad

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/23/24 13:59

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Waste Char	2404357-01	Soil	04/22/24 00:00	04/22/24 17:30

# Summit Scientific

2404357



4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Page 1 of 1

Client: Fremont Environmental Inc. Project Manager: Paul Henehan  
 Address: E-Mail: PDC - ~~WILSON IC PAD~~  
 City/State/Zip: Project Name: WILSON IC PAD  
 Phone: Project Number:  
 Sampler Name: HENEHAN

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested								Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN+TMBS	DRO,RRO	PAHs	pH, EC, SAR	Boron	915-1 metals	Arsenic		BTEXN + TMBS
1	WASTE CLEAR	4/22/24		2			✓		✓												Full TABLE 915-1
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>PAH/FE</u>	Date/Time: <u>4/22/24 1730</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/22/24 1730</u>	<b>Turn Around Time</b> (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard ___ 48 hours ___ <b>Sample Integrity:</b> Temperature Upon Receipt: <u>9.9</u> Samples Intact: <input checked="" type="checkbox"/> Yes No	<b>Notes:</b>
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2404357

Client: Fremont

Client Project ID: Wilson IG Pad

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: \_\_\_\_\_

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on 20E
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	San Joaquin
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no sample time
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

AS

Custodian Printed Name

4/22/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Wilson IC Pad

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/23/24 13:59

**Waste Char**  
**2404357-01 (Soil)**

Summit Scientific

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/22/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	23	0.20		mg/kg	100	BHD0785	04/22/24	04/22/24	EPA 8260B	
Toluene	87	0.50		"	"	"	"	"	"	E
Ethylbenzene	26	0.50		"	"	"	"	"	"	
Xylenes (total)	43	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	53	0.50		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	18	0.50		"	"	"	"	"	"	
Naphthalene	0.35	0.0038		"	1	"	"	04/23/24	"	
Gasoline Range Hydrocarbons	6100	50		"	100	"	"	04/22/24	"	

Date Sampled: **04/22/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.395	987 %		50-150		"	"	04/23/24	"	S-02
Surrogate: Toluene-d8	0.0663	166 %		50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	1.25	3120 %		50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/22/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	4700	50		mg/kg	1	BHD0787	04/22/24	04/22/24	EPA 8015M	
C28-C36 (ORO)	1200	50		"	"	"	"	"	"	

Date Sampled: **04/22/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	15.4	123 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: PDC - Wilson IC Pad

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/23/24 13:59

**Waste Char**  
**2404357-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthylene	ND	3.30	mg/kg	10	BHD0788	04/23/24	04/23/24	EPA 8270D SIM	R-05
Acenaphthene	ND	0.0500	"	"	"	"	"	"	R-05
Anthracene	ND	0.0500	"	"	"	"	"	"	R-05
<b>Benzo (a) anthracene</b>	<b>0.697</b>	0.0500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	R-05
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.210</b>	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	R-05
<b>Fluoranthene</b>	<b>0.0928</b>	0.0500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>1.07</b>	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	R-05
<b>Pyrene</b>	<b>0.265</b>	0.0500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>9.55</b>	0.0500	"	"	"	"	"	"	E
<b>2-Methylnaphthalene</b>	<b>11.9</b>	0.0500	"	"	"	"	"	"	E

Date Sampled: **04/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.00	%	40-150		"	"	"	"	S-01
Surrogate: Fluoranthene-d10	0.00	%	40-150		"	"	"	"	S-01

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0795	04/23/24	05/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

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Project: PDC - Wilson IC Pad

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/23/24 13:59

**Waste Char**  
**2404357-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/22/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.24	0.200	mg/kg dry	1	BHD1039	04/29/24	05/03/24	EPA 6020B	
Barium	57.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	8.93	0.400	"	"	"	"	"	"	
Lead	6.23	0.200	"	"	"	"	"	"	
Nickel	4.83	0.400	"	"	"	"	"	"	
Silver	0.0320	0.0200	"	"	"	"	"	"	
Zinc	25.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/22/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0804	04/23/24	04/24/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/22/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	80.8	0.0500	mg/L dry	1	BHE0036	05/01/24	05/22/24	EPA 6020B	
Magnesium	8.86	0.0500	"	"	"	"	"	"	
Sodium	4.09	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/22/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.115	0.00100	units	1	BHE0732	05/23/24	05/23/24	Calculation	

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Project: PDC - Wilson IC Pad

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/23/24 13:59

**Waste Char**  
**2404357-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BHD0794	04/23/24	04/23/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.244	0.0100	mmhos/cm	1	BHE0038	05/01/24	05/06/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BHE0037	05/01/24	05/06/24	EPA 9045D	

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Project: PDC - Wilson IC Pad

Project Number: [none]  
Project Manager: Paul Henchan

Reported:  
05/23/24 13:59

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BHD0785 - EPA 5030 Soil MS

##### Blank (BHD0785-BLK1)

Prepared: 04/22/24 Analyzed: 04/23/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0454		"	0.0400		113	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.1	50-150			

##### LCS (BHD0785-BS1)

Prepared: 04/22/24 Analyzed: 04/23/24

Benzene	0.0793	0.0020	mg/kg	0.100		79.3	70-130			
Toluene	0.0948	0.0050	"	0.100		94.8	70-130			
Ethylbenzene	0.0954	0.0050	"	0.100		95.4	70-130			
m,p-Xylene	0.182	0.010	"	0.200		90.9	70-130			
o-Xylene	0.0901	0.0050	"	0.100		90.1	70-130			
1,2,4-Trimethylbenzene	0.0903	0.0050	"	0.100		90.3	70-130			
1,3,5-Trimethylbenzene	0.0911	0.0050	"	0.100		91.1	70-130			
Naphthalene	0.0890	0.0038	"	0.100		89.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0424		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.7	50-150			

##### Matrix Spike (BHD0785-MS1)

Source: 2404351-01

Prepared: 04/22/24 Analyzed: 04/23/24

Benzene	0.0731	0.0020	mg/kg	0.100	ND	73.1	70-130			
Toluene	0.0695	0.0050	"	0.100	ND	69.5	70-130			QM-07
Ethylbenzene	0.0581	0.0050	"	0.100	ND	58.1	70-130			QM-07
m,p-Xylene	0.124	0.010	"	0.200	ND	62.0	70-130			QM-07
o-Xylene	0.0646	0.0050	"	0.100	ND	64.6	70-130			QM-07
1,2,4-Trimethylbenzene	0.0571	0.0050	"	0.100	0.00744	49.6	70-130			QM-07
1,3,5-Trimethylbenzene	0.0621	0.0050	"	0.100	ND	62.1	70-130			QM-07
Naphthalene	0.0448	0.0038	"	0.100	ND	44.8	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0400		90.4	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		97.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.5	50-150			

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Project: PDC - Wilson IC Pad

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/23/24 13:59

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BHD0785 - EPA 5030 Soil MS**

Matrix Spike Dup (BHD0785-MSD1)	Source: 2404351-01			Prepared: 04/22/24 Analyzed: 04/23/24						
Benzene	0.0692	0.0020	mg/kg	0.100	ND	69.2	70-130	5.56	30	QM-07
Toluene	0.0659	0.0050	"	0.100	ND	65.9	70-130	5.32	30	QM-07
Ethylbenzene	0.0534	0.0050	"	0.100	ND	53.4	70-130	8.45	30	QM-07
m,p-Xylene	0.116	0.010	"	0.200	ND	58.0	70-130	6.52	30	QM-07
o-Xylene	0.0620	0.0050	"	0.100	ND	62.0	70-130	4.17	30	QM-07
1,2,4-Trimethylbenzene	0.0509	0.0050	"	0.100	0.00744	43.5	70-130	11.3	30	QM-07
1,3,5-Trimethylbenzene	0.0572	0.0050	"	0.100	ND	57.2	70-130	8.20	30	QM-07
Naphthalene	0.0434	0.0038	"	0.100	ND	43.4	70-130	3.19	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0400		90.4	50-150			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.7	50-150			

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Fremont Environmental  
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Project: PDC - Wilson IC Pad

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/23/24 13:59

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BHD0787 - EPA 3550A**

**Blank (BHD0787-BLK1)**

Prepared: 04/22/24 Analyzed: 04/23/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.1		"	12.5		105		30-150			

**LCS (BHD0787-BS1)**

Prepared: 04/22/24 Analyzed: 04/23/24

C10-C28 (DRO)	532	50	mg/kg	500		106		70-130			
Surrogate: <i>o</i> -Terphenyl	13.0		"	12.5		104		30-150			

**Matrix Spike (BHD0787-MS1)**

Source: 2404358-01

Prepared: 04/22/24 Analyzed: 04/23/24

C10-C28 (DRO)	499	50	mg/kg	500	16.0	96.7		70-130			
Surrogate: <i>o</i> -Terphenyl	9.93		"	12.5		79.4		30-150			

**Matrix Spike Dup (BHD0787-MSD1)**

Source: 2404358-01

Prepared: 04/22/24 Analyzed: 04/23/24

C10-C28 (DRO)	550	50	mg/kg	500	16.0	107		70-130	9.65	20	
Surrogate: <i>o</i> -Terphenyl	8.79		"	12.5		70.3		30-150			

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Project: PDC - Wilson IC Pad

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/23/24 13:59

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BHD0788 - EPA 5030 Soil MS**

**Blank (BHD0788-BLK1)**

Prepared & Analyzed: 04/23/24

Acenaphthylene	ND	0.330	mg/kg							
Acenaphthene	ND	0.00500	"							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0357</i>		<i>"</i>	<i>0.0333</i>		<i>107</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0356</i>		<i>"</i>	<i>0.0333</i>		<i>107</i>		<i>40-150</i>		

**LCS (BHD0788-BS1)**

Prepared & Analyzed: 04/23/24

Acenaphthylene	0.0362	0.330	mg/kg	0.0333		109		30-120		
Acenaphthene	0.0385	0.00500	"	0.0333		115		31-137		
Anthracene	0.0370	0.00500	"	0.0333		111		30-120		
Benzo (a) anthracene	0.0333	0.00500	"	0.0333		99.8		30-120		
Benzo (a) pyrene	0.0354	0.00500	"	0.0333		106		30-120		
Benzo (b) fluoranthene	0.0373	0.00500	"	0.0333		112		30-120		
Benzo (k) fluoranthene	0.0342	0.00500	"	0.0333		103		30-120		
Chrysene	0.0394	0.00500	"	0.0333		118		30-120		
Dibenz (a,h) anthracene	0.0304	0.00500	"	0.0333		91.1		30-120		
Fluoranthene	0.0372	0.00500	"	0.0333		112		30-120		
Fluorene	0.0350	0.00500	"	0.0333		105		30-120		
Indeno (1,2,3-cd) pyrene	0.0337	0.00500	"	0.0333		101		30-120		
Pyrene	0.0326	0.00500	"	0.0333		97.8		35-142		
1-Methylnaphthalene	0.0371	0.00500	"	0.0333		111		35-142		
2-Methylnaphthalene	0.0374	0.00500	"	0.0333		112		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0377</i>		<i>"</i>	<i>0.0333</i>		<i>113</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0367</i>		<i>"</i>	<i>0.0333</i>		<i>110</i>		<i>40-150</i>		

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Project: PDC - Wilson IC Pad

Project Number: [none]  
Project Manager: Paul Henchan

Reported:  
05/23/24 13:59

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0788 - EPA 5030 Soil MS

Matrix Spike (BHD0788-MS1)	Source: 2404358-01			Prepared & Analyzed: 04/23/24						
Acenaphthylene	0.0178	0.330	mg/kg	0.0333	ND	53.4	15-130			
Acenaphthene	0.0163	0.00500	"	0.0333	ND	48.8	31-137			
Anthracene	0.0153	0.00500	"	0.0333	ND	45.9	30-120			
Benzo (a) anthracene	0.0155	0.00500	"	0.0333	ND	46.6	30-120			
Benzo (a) pyrene	0.0150	0.00500	"	0.0333	ND	45.0	30-120			
Benzo (b) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.3	30-120			
Benzo (k) fluoranthene	0.0137	0.00500	"	0.0333	ND	41.2	30-120			
Chrysene	0.0174	0.00500	"	0.0333	ND	52.2	30-120			
Dibenz (a,h) anthracene	0.0295	0.00500	"	0.0333	ND	88.4	30-120			
Fluoranthene	0.0146	0.00500	"	0.0333	0.000928	40.9	30-120			
Fluorene	0.0156	0.00500	"	0.0333	ND	46.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0251	0.00500	"	0.0333	ND	75.2	30-120			
Pyrene	0.0248	0.00500	"	0.0333	ND	74.4	35-142			
1-Methylnaphthalene	0.0152	0.00500	"	0.0333	ND	45.7	15-130			
2-Methylnaphthalene	0.0148	0.00500	"	0.0333	ND	44.3	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0155		"	0.0333		46.5	40-150			
Surrogate: Fluoranthene-d10	0.0154		"	0.0333		46.1	40-150			

Matrix Spike Dup (BHD0788-MSD1)	Source: 2404358-01			Prepared & Analyzed: 04/23/24						
Acenaphthylene	0.0204	0.330	mg/kg	0.0333	ND	61.1	15-130	13.4	50	
Acenaphthene	0.0188	0.00500	"	0.0333	ND	56.3	31-137	14.3	30	
Anthracene	0.0175	0.00500	"	0.0333	ND	52.4	30-120	13.1	30	
Benzo (a) anthracene	0.0176	0.00500	"	0.0333	ND	52.9	30-120	12.8	30	
Benzo (a) pyrene	0.0163	0.00500	"	0.0333	ND	48.8	30-120	8.08	30	
Benzo (b) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.5	30-120	6.23	30	
Benzo (k) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.7	30-120	8.01	30	
Chrysene	0.0193	0.00500	"	0.0333	ND	57.9	30-120	10.2	30	
Dibenz (a,h) anthracene	0.0235	0.00500	"	0.0333	ND	70.4	30-120	22.6	30	
Fluoranthene	0.0167	0.00500	"	0.0333	0.000928	47.2	30-120	13.4	30	
Fluorene	0.0181	0.00500	"	0.0333	ND	54.2	30-120	14.5	30	
Indeno (1,2,3-cd) pyrene	0.0307	0.00500	"	0.0333	ND	92.2	30-120	20.3	30	
Pyrene	0.0226	0.00500	"	0.0333	ND	67.8	35-142	9.26	30	
1-Methylnaphthalene	0.0183	0.00500	"	0.0333	ND	55.0	15-130	18.4	50	
2-Methylnaphthalene	0.0184	0.00500	"	0.0333	ND	55.1	15-130	21.6	50	
Surrogate: 2-Methylnaphthalene-d10	0.0190		"	0.0333		57.0	40-150			
Surrogate: Fluoranthene-d10	0.0178		"	0.0333		53.4	40-150			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Wilson IC Pad

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/23/24 13:59

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BHD0795 - EPA 3050B**

**Blank (BHD0795-BLK1)**

Prepared: 04/23/24 Analyzed: 05/17/24

Boron ND 2.00 mg/L

**LCS (BHD0795-BS1)**

Prepared: 04/23/24 Analyzed: 05/17/24

Boron 4.55 2.00 mg/L 5.00 90.9 80-120

**Duplicate (BHD0795-DUP1)**

Source: 2404340-01

Prepared: 04/23/24 Analyzed: 05/17/24

Boron 0.480 2.00 mg/L 0.540 11.8 20

**Matrix Spike (BHD0795-MS1)**

Source: 2404340-01

Prepared: 04/23/24 Analyzed: 05/17/24

Boron 5.43 2.00 mg/L 5.00 0.540 97.8 75-125

**Matrix Spike Dup (BHD0795-MSD1)**

Source: 2404340-01

Prepared: 04/23/24 Analyzed: 05/17/24

Boron 5.48 2.00 mg/L 5.00 0.540 98.9 75-125 1.01 25

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Wilson IC Pad

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/23/24 13:59

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHD1039 - EPA 3050B**

**Blank (BHD1039-BLK1)**

Prepared: 04/29/24 Analyzed: 05/03/24

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

**LCS (BHD1039-BS1)**

Prepared: 04/29/24 Analyzed: 05/03/24

Arsenic	39.5	0.200	mg/kg wet	40.0	98.8	80-120
Barium	38.5	0.400	"	40.0	96.2	80-120
Cadmium	1.91	0.200	"	2.00	95.3	80-120
Copper	38.5	0.400	"	40.0	96.4	80-120
Lead	18.7	0.200	"	20.0	93.3	80-120
Nickel	40.0	0.400	"	40.0	100	80-120
Silver	1.90	0.0200	"	2.00	95.2	80-120
Zinc	38.3	0.400	"	40.0	95.8	80-120
Selenium	4.00	0.260	"	4.00	100	80-120

**Duplicate (BHD1039-DUP1)**

Source: 2404298-01

Prepared: 04/29/24 Analyzed: 05/03/24

Arsenic	3.24	0.200	mg/kg dry	3.08	4.95	20
Barium	411	0.400	"	370	10.4	20
Cadmium	0.441	0.200	"	0.410	7.16	20
Copper	8.77	0.400	"	8.32	5.29	20
Lead	15.8	0.200	"	12.4	23.9	20
Nickel	3.63	0.400	"	3.62	0.297	20
Silver	0.0345	0.0200	"	0.0332	4.06	20
Zinc	28.8	0.400	"	29.0	0.636	20
Selenium	ND	0.260	"	ND		20

QR-04

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Wilson IC Pad

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/23/24 13:59

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHD1039 - EPA 3050B**

**Matrix Spike (BHD1039-MS1)**

Source: 2404298-01

Prepared: 04/29/24 Analyzed: 05/03/24

Arsenic	43.9	0.200	mg/kg dry	48.7	3.08	83.8	75-125				
Barium	401	0.400	"	48.7	370	63.3	75-125				QM-07
Cadmium	2.86	0.200	"	2.44	0.410	100	75-125				
Copper	55.2	0.400	"	48.7	8.32	96.2	75-125				
Lead	35.0	0.200	"	24.4	12.4	92.8	75-125				
Nickel	30.8	0.400	"	48.7	3.62	55.7	75-125				QM-05
Silver	2.42	0.0200	"	2.44	0.0332	97.8	75-125				
Zinc	78.5	0.400	"	48.7	29.0	101	75-125				
Selenium	3.81	0.260	"	4.87	ND	78.2	75-125				

**Matrix Spike Dup (BHD1039-MSD1)**

Source: 2404298-01

Prepared: 04/29/24 Analyzed: 05/03/24

Arsenic	43.7	0.200	mg/kg dry	48.7	3.08	83.3	75-125	0.602	25		
Barium	400	0.400	"	48.7	370	59.7	75-125	0.444	25		QM-07
Cadmium	2.85	0.200	"	2.44	0.410	100	75-125	0.325	25		
Copper	54.4	0.400	"	48.7	8.32	94.6	75-125	1.42	25		
Lead	34.6	0.200	"	24.4	12.4	91.0	75-125	1.28	25		
Nickel	30.2	0.400	"	48.7	3.62	54.5	75-125	1.90	25		QM-05
Silver	2.43	0.0200	"	2.44	0.0332	98.3	75-125	0.523	25		
Zinc	77.2	0.400	"	48.7	29.0	98.8	75-125	1.65	25		
Selenium	3.90	0.260	"	4.87	ND	80.0	75-125	2.38	25		

**Post Spike (BHD1039-PS1)**

Source: 2404298-01

Prepared: 04/29/24 Analyzed: 05/03/24

Arsenic	93.4		ug/l	100	5.94	87.5	75-125				
Barium	814		"	100	714	99.7	75-125				
Cadmium	5.80		"	5.00	0.791	100	75-125				
Copper	112		"	100	16.0	95.7	75-125				
Lead	70.1		"	50.0	23.9	92.3	75-125				
Nickel	65.9		"	100	6.99	58.9	75-125				QM-01
Silver	4.98		"	5.00	0.0640	98.4	75-125				
Zinc	153		"	100	56.0	97.4	75-125				
Selenium	8.99		"	10.0	0.223	87.7	75-125				

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Wilson IC Pad

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/23/24 13:59

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BHD0804 - 3060A Mod**

**Blank (BHD0804-BLK1)**

Prepared: 04/23/24 Analyzed: 04/24/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHD0804-BS1)**

Prepared: 04/23/24 Analyzed: 04/24/24

Chromium, Hexavalent 24.6 0.30 mg/kg wet 25.0 98.4 80-120

**Duplicate (BHD0804-DUP1)**

**Source: 2404262-01**

Prepared: 04/23/24 Analyzed: 04/24/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHD0804-MS1)**

**Source: 2404262-01**

Prepared: 04/23/24 Analyzed: 04/24/24

Chromium, Hexavalent 26.4 0.30 mg/kg dry 28.0 ND 94.2 75-125

**Matrix Spike Dup (BHD0804-MSD1)**

**Source: 2404262-01**

Prepared: 04/23/24 Analyzed: 04/24/24

Chromium, Hexavalent 26.4 0.30 mg/kg dry 28.0 ND 94.2 75-125 0.00 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Wilson IC Pad

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/23/24 13:59

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BHE0036 - General Preparation**

**Blank (BHE0036-BLK1)**

Prepared: 05/01/24 Analyzed: 05/22/24

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

**LCS (BHE0036-BS1)**

Prepared: 05/01/24 Analyzed: 05/22/24

Calcium	5.48	0.0500	mg/L wet	5.00		110	70-130			
Magnesium	5.10	0.0500	"	5.00		102	70-130			
Sodium	5.17	0.0500	"	5.00		103	70-130			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Wilson IC Pad

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/23/24 13:59

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

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

**Batch BHD0794 - General Preparation**

**Duplicate (BHD0794-DUP1)**

**Source: 2404310-01**

Prepared & Analyzed: 04/23/24

% Solids	91.6		%		92.0			0.456	20	
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Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Wilson IC Pad

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/23/24 13:59

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BHE0038 - General Preparation**

**Blank (BHE0038-BLK1)**

Prepared: 05/01/24 Analyzed: 05/06/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHE0038-BS1)**

Prepared: 05/01/24 Analyzed: 05/06/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

**Duplicate (BHE0038-DUP1)**

Source: 2404287-02

Prepared: 05/01/24 Analyzed: 05/06/24

Specific Conductance (EC) 0.686 0.0100 mmhos/cm 0.690 0.596 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Wilson IC Pad

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/23/24 13:59

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BHE0037 - General Preparation**

**LCS (BHE0037-BS1)**

Prepared: 05/01/24 Analyzed: 05/06/24

pH	9.11	pH Units	9.18	99.2	95-105
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**Duplicate (BHE0037-DUP1)**

Source: 2404287-02

Prepared: 05/01/24 Analyzed: 05/06/24

pH	8.27	pH Units	8.29	0.242	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Wilson IC Pad

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/23/24 13:59

### Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

May 17, 2024

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Wilson 1C Pad

Project Number - [none]

Attached are your analytical results for Wilson 1C Pad received by Origins Laboratory, Inc. April 26, 2024. This project is associated with Origins project number Y404790-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1 (18.0')	Y404790-01	Soil	April 26, 2024 0:00	04/26/2024 16:31
MW-1 (20.0')	Y404790-02	Soil	April 26, 2024 0:00	04/26/2024 16:31
MW-2 (18.0')	Y404790-03	Soil	April 26, 2024 0:00	04/26/2024 16:31
MW-2 (20.0')	Y404790-04	Soil	April 26, 2024 0:00	04/26/2024 16:31
MW-3 (14.0')	Y404790-05	Soil	April 26, 2024 0:00	04/26/2024 16:31
MW-3 (22.0')	Y404790-06	Soil	April 26, 2024 0:00	04/26/2024 16:31
MW-4 (14.0')	Y404790-07	Soil	April 26, 2024 0:00	04/26/2024 16:31
MW-4 (19.0')	Y404790-08	Soil	April 26, 2024 0:00	04/26/2024 16:31
MW-5 (16.0')	Y404790-09	Soil	April 26, 2024 0:00	04/26/2024 16:31
MW-5 (20.0')	Y404790-10	Soil	April 26, 2024 0:00	04/26/2024 16:31
MW-6 (22.0')	Y404790-11	Soil	April 26, 2024 0:00	04/26/2024 16:31
MW-7 (22.0')	Y404790-12	Soil	April 26, 2024 0:00	04/26/2024 16:31

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645



4404790

www.originslaboratory.com

page 1 of 2

Client: Fremont Env  
 Project Manager: Paul Henehan  
 Address: \_\_\_\_\_  
 Project Name: Wilson 1C Pad  
 Telephone Number: \_\_\_\_\_  
 Project Number: \_\_\_\_\_  
 Email Address: Paul.H@FremontEnv.com  
jeff@FremontEnv.com Ethna@FremontEnv.com  
 Samples Collected By: JG

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis				Sample Instructions		
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	BTEX+N	DRO,ORO, GAO		PAHs(9)	EC,PH,SM
MU-1 (18.0')	4/26/24		2	X								X	X	X	X	
MU-2 (20.0')												X	X	X	X	
MU-2 (18.0')												X	X	X	X	
MU-2 (20.0')												X	X	X	X	
MU-3 (14.0')												X	X	X	X	
MU-3 (22.0')												X	X	X	X	
MU-4 (14.0')												X	X	X	X	
MU-4 (19.0')												X	X	X	X	
MU-5 (16.0')												X	X	X	X	
MU-5 (20.0')												X	X	X	X	

Temp Received: 19.0 Date Results Needed

Relinquished By: [Signature] Date: 4/26/24 Time: 1632  
 Received By: [Signature] Date: 4/26/24 Time: 1631  
 Turnaround Time:  
 Same Day  24 Hr   
 48 Hr  72 Hr   
 Standard

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

Origins Laboratory F-012207-01-R1  
Effective Date: 01/09/12

**Sample Receipt Checklist**

Origins Work Order: 4404790 Client: Fremont  
 Client Project ID: Wilson 1C

Checklist Completed by: EAD/187 Shipped Via: HO  
 Date/time completed: 4/20/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 19.6 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0 °C to ≤ 6 °C <sup>(1)</sup> ?		/		SD
Is there ice present (document if blue ice is used)		/		
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/	/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/	/	
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?		/		no sample times
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		/	/	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		/	/	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 4/20/24

Origins Laboratory, Inc.

*[Signature]*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-1 (18.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.459		0.0995	mg/L	1	B4D2912	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2629	04/26/2024	04/27/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	92.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D2630	04/26/2024	04/27/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	0.00212		0.00200	"	"	"	"	"	
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.2 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-1 (18.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	105 %	70-130				B4D26 30	04/26/2024	04/27/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.73	0.499	meq/L	10	[CALC]		04/27/2024	04/29/2024	
Magnesium	4.75	0.823	"	"	"	"	"	"	
Sodium	1.48	0.435	"	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D2639		04/26/2024	04/29/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-1 (18.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-01 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4D2639	04/26/2024	04/29/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.8 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.62			pH Units	1	B4D2709	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.821		0.0100	SAR	1	B4D2703	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.665		0.00500	mmhos/cm	1	B4D2709	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	5.21		0.272	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-1 (18.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-01 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	44.6		9.38	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Cadmium	0.0938		0.0938	"	"	"	"	"	
Copper	ND		9.38	"	"	"	"	"	
Lead	8.13		0.938	"	"	"	"	"	
Nickel	9.38		0.938	"	"	"	"	"	
Selenium	ND		0.244	"	"	"	"	"	
Silver	ND		0.0938	"	"	"	"	"	
Zinc	35.7		34.7	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.142	0.354	mg/kg dry	1	2609817	05/13/2024	05/14/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-1 (20.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.398		0.100	mg/L	1	B4D2912	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	28.3		25.0	mg/kg	1	B4D2629	04/26/2024	04/27/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	91.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.291		0.00200	mg/kg	1	B4D2630	04/26/2024	04/27/2024	
1,3,5-Trimethylbenzene	0.0857		0.00200	"	"	"	"	"	
Benzene	0.325		0.00200	"	"	"	"	"	
Ethylbenzene	0.127		0.00200	"	"	"	"	"	
Toluene	0.790		0.0500	"	25	"	"	04/28/2024	
Xylenes, total	1.01		0.00200	"	1	"	"	04/27/2024	
Gasoline Range Hydrocarbons	101		5.00	"	25	"	"	04/28/2024	

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	04/27/2024	
Surrogate: Toluene-d8	150 %		70-130			"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene	97.1 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-1 (20.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-02 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.45		0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024	
Magnesium	2.63		0.823	"	"	"	"	"	
Sodium	1.19		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.009		0.002	mg/kg	1	B4D2639	04/26/2024	04/29/2024	
2-Methylnaphthalene	0.016		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	0.004		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	97.2 %		60-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-1 (20.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-02 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	99.8 %		60-130			B4D26 39	04/26/2024	04/29/2024	
Surrogate: Pyrene-d10	98.5 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.59			pH Units	1	B4D2709	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.836		0.0100	SAR	1	B4D2703	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.416		0.00500	mmhos/cm	1	B4D2709	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	6.21		0.250	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Barium	82.0		8.64	"	"	"	"	"	
Cadmium	0.0872		0.0864	"	"	"	"	"	
Copper	8.73		8.64	"	"	"	"	"	
Lead	9.49		0.864	"	"	"	"	"	
Nickel	10.5		0.864	"	"	"	"	"	
Selenium	0.294		0.225	"	"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Wilson 1C Pad

**MW-1 (20.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-02 (Soil)**

**Table 915 metals by EPA 6020B**

Silver	ND		0.0864	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Zinc	41.6		32.0	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.141	0.353	mg/kg dry	1	2609817	05/13/2024	05/14/2024	U
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Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-2 (18.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.538		0.0996	mg/L	1	B4D2912	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2629	04/26/2024	04/27/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	84.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.00212		0.00200	mg/kg	1	B4D2630	04/26/2024	04/27/2024	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	0.00718		0.00200	"	"	"	"	"	
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	0.00590		0.00200	"	"	"	"	"	
Xylenes, total	0.00358		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.9 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-2 (18.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	105 %	70-130				B4D26 30	04/26/2024	04/27/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.20	0.499	meq/L	10	[CALC]		04/27/2024	04/29/2024	
Magnesium	6.28	0.823	"	"	"	"	"	"	
Sodium	2.12	0.435	"	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D2639		04/26/2024	04/29/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-2 (18.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-03 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4D2639	04/26/2024	04/29/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.4 %		60-130			"	"	"	
Surrogate: Anthracene-d10	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	103 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.45			pH Units	1	B4D2709	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	1.03		0.0100	SAR	1	B4D2703	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.816		0.00500	mmhos/cm	1	B4D2709	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	5.59		0.245	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-2 (18.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-03 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	33.2		8.45	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Cadmium	0.110		0.0845	"	"	"	"	"	
Copper	ND		8.45	"	"	"	"	"	
Lead	8.38		0.845	"	"	"	"	"	
Nickel	10.2		0.845	"	"	"	"	"	
Selenium	0.380		0.220	"	"	"	"	"	
Silver	ND		0.0845	"	"	"	"	"	
Zinc	40.1		31.3	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.131	0.328	mg/kg dry	1	2609817	05/13/2024	05/14/2024	U
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Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-2 (20.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.353		0.101	mg/L	1	B4D2912	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	110		25.0	mg/kg	1	B4D2629	04/26/2024	04/27/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	94.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	4.23		0.0500	mg/kg	25	B4D2630	04/26/2024	04/27/2024	
1,3,5-Trimethylbenzene	1.27		0.0500	"	"	"	"	"	
Benzene	1.24		0.0500	"	"	"	"	"	
Ethylbenzene	1.83		0.0500	"	"	"	"	"	
Toluene	8.77		0.0500	"	"	"	"	"	
Xylenes, total	14.2		0.0500	"	"	"	"	"	
Gasoline Range Hydrocarbons	389		5.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	139 %		70-130			"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene	96.7 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-2 (20.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-04 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.48		0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024	
Magnesium	2.59		0.823	"	"	"	"	"	
Sodium	1.00		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.308		0.002	mg/kg	1	B4D2639	04/26/2024	04/29/2024	
2-Methylnaphthalene	0.551		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	0.059		0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	0.150		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	100 %		60-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-2 (20.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-04 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	99.5 %		60-130			B4D26 39	04/26/2024	04/29/2024	
Surrogate: Pyrene-d10	97.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	108 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.48			pH Units	1	B4D2709	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.701		0.0100	SAR	1	B4D2703	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.368		0.00500	mmhos/cm	1	B4D2709	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	5.87		0.287	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Barium	53.6		9.91	"	"	"	"	"	
Cadmium	ND		0.0991	"	"	"	"	"	
Copper	ND		9.91	"	"	"	"	"	
Lead	8.60		0.991	"	"	"	"	"	
Nickel	9.08		0.991	"	"	"	"	"	
Selenium	0.281		0.258	"	"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Wilson 1C Pad

**MW-2 (20.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-04 (Soil)**

**Table 915 metals by EPA 6020B**

Silver	ND		0.0991	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Zinc	ND		36.7	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.125	0.313	mg/kg dry	1	2609817	05/13/2024	05/14/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-3 (14.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.522		0.0995	mg/L	1	B4D2912	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2629	04/26/2024	04/27/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	88.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D2630	04/26/2024	04/27/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-3 (14.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	96.8 %		70-130			B4D26 30	04/26/2024	04/27/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>0.810</b>	0.499	meq/L	10	[CALC]		04/27/2024	04/29/2024	
Magnesium	<b>2.65</b>	0.823	"	"	"		"	"	
Sodium	<b>0.530</b>	0.435	"	"	"		"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D2639		04/26/2024	04/29/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	Ua
Acenaphthene	ND	0.020	"	"	"		"	"	Ua
Anthracene	ND	0.020	"	"	"		"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Chrysene	ND	0.020	"	"	"		"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	Ua
Fluoranthene	ND	0.020	"	"	"		"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-3 (14.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-05 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4D2639	04/26/2024	04/29/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	107 %		60-130			"	"	"	
Surrogate: Anthracene-d10	102 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.52			pH Units	1	B4D2709	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.403		0.0100	SAR	1	B4D2703	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.337		0.00500	mmhos/cm	1	B4D2709	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-3 (14.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-05 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	5.58	0.261	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Barium	52.1	9.01	"	"	"	"	"	
Cadmium	0.123	0.0901	"	"	"	"	"	
Copper	ND	9.01	"	"	"	"	"	
Lead	8.48	0.901	"	"	"	"	"	
Nickel	9.81	0.901	"	"	"	"	"	
Selenium	0.239	0.234	"	"	"	"	"	
Silver	ND	0.0901	"	"	"	"	"	
Zinc	37.5	33.3	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.102	0.256	mg/kg dry	1	2609817	05/13/2024	05/14/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-3 (22.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.291		0.0990	mg/L	1	B4D2912	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2629	04/26/2024	04/27/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	86.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D2630	04/26/2024	04/27/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-3 (22.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-06 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.4 %		70-130			B4D26 30	04/26/2024	04/27/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.20	0.499	meq/L	10	[CALC]		04/27/2024	04/29/2024	
Magnesium	1.87	0.823	"	"	"		"	"	
Sodium	1.07	0.435	"	"	"		"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D2639		04/26/2024	04/29/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	Ua
Acenaphthene	ND	0.020	"	"	"		"	"	Ua
Anthracene	ND	0.020	"	"	"		"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Chrysene	ND	0.020	"	"	"		"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	Ua
Fluoranthene	ND	0.020	"	"	"		"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-3 (22.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-06 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4D2639	04/26/2024	04/29/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.1 %		60-130			"	"	"	
Surrogate: Anthracene-d10	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.44			pH Units	1	B4D2709	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.864		0.0100	SAR	1	B4D2703	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.377		0.00500	mmhos/cm	1	B4D2709	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-3 (22.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-06 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	20.6	0.258	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Barium	291	8.89	"	"	"	"	"	
Cadmium	0.142	0.0889	"	"	"	"	"	
Copper	14.2	8.89	"	"	"	"	"	
Lead	21.0	0.889	"	"	"	"	"	
Nickel	13.8	0.889	"	"	"	"	"	
Selenium	0.455	0.231	"	"	"	"	"	
Silver	ND	0.0889	"	"	"	"	"	
Zinc	85.6	32.9	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.131	0.326	mg/kg dry	1	2609817	05/13/2024	05/14/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-4 (14.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.425		0.101	mg/L	1	B4D2912	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2629	04/26/2024	04/27/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	95.2 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D2630	04/26/2024	04/27/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	0.0212		0.00200	"	"	"	"	"	
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	0.277		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.8 %		70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-4 (14.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-07 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	105 %	70-130				B4D26 30	04/26/2024	04/27/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.54	0.499	meq/L	10	[CALC]		04/27/2024	04/29/2024	
Magnesium	2.99	0.823	"	"	"	"	"	"	
Sodium	1.00	0.435	"	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D2639		04/26/2024	04/29/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-4 (14.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-07 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4D2639	04/26/2024	04/29/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	90.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	109 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.51			pH Units	1	B4D2709	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.667		0.0100	SAR	1	B4D2703	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.404		0.00500	mmhos/cm	1	B4D2709	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	6.18		0.249	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-4 (14.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-07 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	49.0		8.58	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Cadmium	0.118		0.0858	"	"	"	"	"	
Copper	8.70		8.58	"	"	"	"	"	
Lead	9.85		0.858	"	"	"	"	"	
Nickel	10.8		0.858	"	"	"	"	"	
Selenium	0.357		0.223	"	"	"	"	"	
Silver	ND		0.0858	"	"	"	"	"	
Zinc	41.4		31.8	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.173	0.433	mg/kg dry	1	2609817	05/13/2024	05/14/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-4 (19.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.376		0.101	mg/L	1	B4D2912	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2629	04/26/2024	04/27/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	87.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D2630	04/26/2024	04/27/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-4 (19.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-08 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.6 %		70-130			B4D26 30	04/26/2024	04/27/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.89	0.499	meq/L	10	[CALC]		04/27/2024	04/29/2024	
Magnesium	2.45	0.823	"	"	"		"	"	
Sodium	1.14	0.435	"	"	"		"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D2639		04/26/2024	04/29/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	Ua
Acenaphthene	ND	0.020	"	"	"		"	"	Ua
Anthracene	ND	0.020	"	"	"		"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Chrysene	ND	0.020	"	"	"		"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	Ua
Fluoranthene	ND	0.020	"	"	"		"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-4 (19.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-08 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4D2639	04/26/2024	04/29/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.1 %		60-130			"	"	"	
Surrogate: Anthracene-d10	104 %		60-130			"	"	"	
Surrogate: Pyrene-d10	93.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	109 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.53			pH Units	1	B4D2709	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.775		0.0100	SAR	1	B4D2703	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.429		0.00500	mmhos/cm	1	B4D2709	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-4 (19.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-08 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	5.92		0.257	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Barium	79.5		8.87	"	"	"	"	"	
Cadmium	0.113		0.0887	"	"	"	"	"	
Copper	9.49		8.87	"	"	"	"	"	
Lead	9.67		0.887	"	"	"	"	"	
Nickel	11.5		0.887	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	ND		0.0887	"	"	"	"	"	
Zinc	44.9		32.8	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.163	0.407	mg/kg dry	1	2609817	05/13/2024	05/14/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-5 (16.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.310		0.100	mg/L	1	B4D2912	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2629	04/26/2024	04/27/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	94.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.208		0.00200	mg/kg	1	B4D2630	04/26/2024	04/27/2024	
1,3,5-Trimethylbenzene	0.0518		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	0.00914		0.00200	"	"	"	"	"	
Toluene	0.0116		0.00200	"	"	"	"	"	
Xylenes, total	0.182		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	5.94		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-5 (16.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-09 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	0.649	0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024	
Magnesium	1.37	0.823	"	"	"	"	"	
Sodium	0.932	0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.041	0.002	mg/kg	1	B4D2639	04/26/2024	04/29/2024	
2-Methylnaphthalene	0.073	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	0.018	0.002	"	"	"	"	"	
Pyrene	ND	0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	94.3 %	60-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-5 (16.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-09 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	103 %		60-130			B4D26 39	04/26/2024	04/29/2024	
Surrogate: Pyrene-d10	108 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.50			pH Units	1	B4D2709	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.928		0.0100	SAR	1	B4D2703	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.267		0.00500	mmhos/cm	1	B4D2709	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	10.1		0.249	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Barium	38.2		8.60	"	"	"	"	"	
Cadmium	0.0998		0.0860	"	"	"	"	"	
Copper	12.4		8.60	"	"	"	"	"	
Lead	13.6		0.860	"	"	"	"	"	
Nickel	14.0		0.860	"	"	"	"	"	
Selenium	ND		0.224	"	"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-5 (16.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-09 (Soil)**

**Table 915 metals by EPA 6020B**

Silver	ND		0.0860	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Zinc	60.8		31.8	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.138	0.345	mg/kg dry	1	2609817	05/13/2024	05/14/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-5 (20.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.344		0.0999	mg/L	1	B4D2912	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	212		25.0	mg/kg	1	B4D2629	04/26/2024	04/27/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	96.4 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	1.83		0.0500	mg/kg	25	B4D2630	04/26/2024	04/27/2024	
1,3,5-Trimethylbenzene	0.543		0.0500	"	"	"	"	"	
Benzene	ND		0.0500	"	"	"	"	"	R-05, Ua
Ethylbenzene	0.355		0.0500	"	"	"	"	"	
Toluene	0.387		0.0500	"	"	"	"	"	
Xylenes, total	3.29		0.0500	"	"	"	"	"	
Gasoline Range Hydrocarbons	95.0		5.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	103 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-5 (20.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-10 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	0.823		0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024	
Magnesium	1.60		0.823	"	"	"	"	"	
Sodium	1.17		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.359		0.002	mg/kg	1	B4D2639	04/26/2024	04/29/2024	
2-Methylnaphthalene	0.634		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	0.073		0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	0.153		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	105 %		60-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-5 (20.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-10 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	101 %		60-130			B4D26 39	04/26/2024	04/29/2024	
Surrogate: Pyrene-d10	92.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.48			pH Units	1	B4D2709	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	1.07		0.0100	SAR	1	B4D2703	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.294		0.00500	mmhos/cm	1	B4D2709	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	29.2		0.284	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Barium	32.0		9.79	"	"	"	"	"	
Cadmium	ND		0.0979	"	"	"	"	"	
Copper	ND		9.79	"	"	"	"	"	
Lead	8.95		0.979	"	"	"	"	"	
Nickel	8.34		0.979	"	"	"	"	"	
Selenium	0.304		0.255	"	"	"	"	"	

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Wilson 1C Pad

**MW-5 (20.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-10 (Soil)**

**Table 915 metals by EPA 6020B**

Silver	ND		0.0979	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Zinc	37.6		36.2	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.164	0.411	mg/kg dry	1	2609817	05/13/2024	05/14/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-6 (22.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-11 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.309		0.101	mg/L	1	B4D2912	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2629	04/26/2024	04/27/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	88.4 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.0202		0.00200	mg/kg	1	B4D2630	04/26/2024	04/27/2024	
1,3,5-Trimethylbenzene	0.00484		0.00200	"	"	"	"	"	
Benzene	0.00488		0.00200	"	"	"	"	"	
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	0.0117		0.00200	"	"	"	"	"	
Xylenes, total	0.0326		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.524		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-6 (22.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-11 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.03		0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024	
Magnesium	2.13		0.823	"	"	"	"	"	
Sodium	1.27		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4D2639	04/26/2024	04/29/2024	Ua
2-Methylnaphthalene	0.003		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-6 (22.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-11 (Soil)**

**PAH by EPA 8270E**

Surrogate: Fluorene-d10	96.3 %		60-130			B4D26 39	04/26/2024	04/29/2024	
Surrogate: Anthracene-d10	105 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.53			pH Units	1	B4D2708	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	1.01		0.0100	SAR	1	B4D2702	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.379		0.00500	mmhos/cm	1	B4D2708	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	7.09		0.271	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Barium	53.7		9.33	"	"	"	"	"	
Cadmium	0.0989		0.0933	"	"	"	"	"	
Copper	ND		9.33	"	"	"	"	"	
Lead	9.26		0.933	"	"	"	"	"	
Nickel	9.31		0.933	"	"	"	"	"	

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Wilson 1C Pad

**MW-6 (22.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-11 (Soil)**

**Table 915 metals by EPA 6020B**

Selenium	ND		0.243	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Silver	ND		0.0933	"	"	"	"	"	
Zinc	<b>39.3</b>		34.5	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.175	0.438	mg/kg dry	1	2609817	05/13/2024	05/14/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-7 (22.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-12 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.714		0.100	mg/L	1	B4D2912	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	385		25.0	mg/kg	1	B4D2629	04/26/2024	04/27/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	112 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	2.70		0.0500	mg/kg	25	B4D2630	04/26/2024	04/27/2024	
1,3,5-Trimethylbenzene	0.789		0.0500	"	"	"	"	"	
Benzene	0.204		0.0500	"	"	"	"	"	
Ethylbenzene	0.638		0.0500	"	"	"	"	"	
Toluene	2.00		0.0500	"	"	"	"	"	
Xylenes, total	6.13		0.0500	"	"	"	"	"	
Gasoline Range Hydrocarbons	116		5.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.7 %		70-130			"	"	"	
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Surrogate: Toluene-d8	110 %		70-130			"	"	"	
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Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-7 (22.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-12 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.14		0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024	
Magnesium	2.61		0.823	"	"	"	"	"	
Sodium	1.42		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.624		0.002	mg/kg	1	B4D2639	04/26/2024	04/29/2024	
2-Methylnaphthalene	1.11		0.020	"	10	"	"	04/30/2024	
Acenaphthene	ND		0.020	"	1	"	"	04/29/2024	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	0.022		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	0.118		0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	0.297		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	98.0 %		60-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-7 (22.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-12 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	102 %		60-130			B4D26 39	04/26/2024	04/29/2024	
Surrogate: Pyrene-d10	93.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.36			pH Units	1	B4D2708	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	1.04		0.0100	SAR	1	B4D2702	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.419		0.00500	mmhos/cm	1	B4D2708	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	24.1		0.282	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Barium	37.1		9.73	"	"	"	"	"	
Cadmium	ND		0.0973	"	"	"	"	"	
Copper	11.9		9.73	"	"	"	"	"	
Lead	17.5		0.973	"	"	"	"	"	
Nickel	16.0		0.973	"	"	"	"	"	
Selenium	0.272		0.253	"	"	"	"	"	

Origins Laboratory, Inc.



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8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Wilson 1C Pad

**MW-7 (22.0')**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404790-12 (Soil)**

**Table 915 metals by EPA 6020B**

Silver	ND		0.0973	mg/kg	10	B4D2635	04/26/2024	04/29/2024	
Zinc	52.1		36.0	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.178	0.446	mg/kg dry	1	2609817	05/13/2024	05/14/2024	U
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Origins Laboratory, Inc.



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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4D2629 - EPA 3550B</b>										
<b>Blank (B4D2629-BLK1)</b>										
					Prepared: 04/26/2024 Analyzed: 04/26/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		91.9	50-150			

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2629 - EPA 3550B**

**LCS (B4D2629-BS1)**

Prepared: 04/26/2024 Analyzed: 04/26/2024

Diesel (C10-C28)	932	50.0	mg/kg	1000		93.2	70-130			
Residual Range Organics (C28-C40)	974	200	"	1000		97.4	70-130			
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

Origins Laboratory, Inc.



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 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4D2629 - EPA 3550B</b>										
<b>Matrix Spike (B4D2629-MS1)</b>		<b>Source: Y404777-01</b>			Prepared: 04/26/2024 Analyzed: 04/26/2024					
Diesel (C10-C28)	821	50.0	mg/kg	1000	ND	82.1	70-130			
Residual Range Organics (C28-C40)	846	200	"	1000	ND	84.6	70-130			
Surrogate: o-Terphenyl	53		"	49.8		108	50-150			

Origins Laboratory, Inc.



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 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4D2629 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4D2629-MSD1)</b>					<b>Source: Y404777-01</b>					Prepared: 04/26/2024 Analyzed: 04/26/2024
Diesel (C10-C28)	836	50.0	mg/kg	1000	ND	83.6	70-130	1.82	35	
Residual Range Organics (C28-C40)	870	200	"	1000	ND	87.0	70-130	2.77	35	
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2630 - EPA 5030 (soil)**

**Blank (B4D2630-BLK1)**

Prepared: 04/26/2024 Analyzed: 04/27/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	96.6		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.5		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	105		70-130			

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Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2630 - EPA 5030 (soil)

**LCS (B4D2630-BS1)**

Prepared: 04/26/2024 Analyzed: 04/27/2024

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.0907	0.00380	"	0.100		90.7	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.213	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2630 - EPA 5030 (soil)

Matrix Spike (B4D2630-MS1)	Source: Y404777-01			Prepared: 04/26/2024 Analyzed: 04/27/2024						
1,2,4-Trimethylbenzene	0.0823	0.00200	mg/kg	0.100	ND	82.3	70-130			
1,3,5-Trimethylbenzene	0.0834	0.00200	"	0.100	ND	83.4	70-130			
Benzene	0.0835	0.00200	"	0.100	ND	83.5	70-130			
Ethylbenzene	0.0812	0.00200	"	0.100	ND	81.2	70-130			
Naphthalene	0.0922	0.00380	"	0.100	ND	92.2	70-130			
Toluene	0.0809	0.00200	"	0.100	ND	80.9	70-130			
o-Xylene	0.0801	0.00200	"	0.100	ND	80.1	70-130			
m,p-Xylene	0.163	0.00400	"	0.200	ND	81.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.8	70-130			

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Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2630 - EPA 5030 (soil)

Matrix Spike Dup (B4D2630-MSD1)	Source: Y404777-01			Prepared: 04/26/2024 Analyzed: 04/27/2024						
1,2,4-Trimethylbenzene	0.0873	0.00200	mg/kg	0.100	ND	87.3	70-130	5.80	20	
1,3,5-Trimethylbenzene	0.0878	0.00200	"	0.100	ND	87.8	70-130	5.19	20	
Benzene	0.0882	0.00200	"	0.100	ND	88.2	70-130	5.48	20	
Ethylbenzene	0.0853	0.00200	"	0.100	ND	85.3	70-130	4.95	20	
Naphthalene	0.0930	0.00380	"	0.100	ND	93.0	70-130	0.886	20	
Toluene	0.0855	0.00200	"	0.100	ND	85.5	70-130	5.50	20	
o-Xylene	0.0849	0.00200	"	0.100	ND	84.9	70-130	5.84	20	
m,p-Xylene	0.171	0.00400	"	0.200	ND	85.4	70-130	4.86	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

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Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2635 - EPA 3050B**

**Blank (B4D2635-BLK1)**

Prepared: 04/26/2024 Analyzed: 04/29/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

**LCS (B4D2635-BS1)**

Prepared: 04/26/2024 Analyzed: 04/30/2024

Arsenic	5.13	0.290	mg/kg	5.00		103	80-120			
Barium	544	10.0	"	500		109	80-120			
Cadmium	5.93	0.100	"	5.00		119	80-120			
Copper	58.5	10.0	"	50.0		117	80-120			
Lead	5.70	1.00	"	5.00		114	80-120			
Nickel	5.97	1.00	"	5.00		119	80-120			
Selenium	10.8	0.260	"	9.50		114	80-120			
Silver	5.95	0.100	"	5.00		119	80-120			
Zinc	59.9	37.0	"	50.0		120	80-120			

**Matrix Spike (B4D2635-MS1)**

Source: Y404782-01

Prepared: 04/26/2024 Analyzed: 04/29/2024

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Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2635 - EPA 3050B**

<b>Matrix Spike (B4D2635-MS1)</b>		<b>Source: Y404782-01</b>			Prepared: 04/26/2024 Analyzed: 04/29/2024					
Arsenic	6.67	0.259	mg/kg	4.47	1.22	122	75-125			
Barium	543	8.94	"	447	50.6	110	75-125			
Cadmium	5.51	0.0894	"	4.47	0.192	119	75-125			
Copper	57.3	8.94	"	44.7	4.04	119	75-125			
Lead	9.24	0.894	"	4.47	3.66	125	75-125			
Nickel	9.62	0.894	"	4.47	4.24	120	75-125			
Selenium	9.89	0.233	"	8.50	ND	116	75-125			
Silver	5.29	0.0894	"	4.47	0.0423	117	75-125			
Zinc	70.0	33.1	"	44.7	16.6	119	75-125			

<b>Matrix Spike Dup (B4D2635-MSD1)</b>		<b>Source: Y404782-01</b>			Prepared: 04/26/2024 Analyzed: 04/29/2024					
Arsenic	6.31	0.254	mg/kg	4.37	1.22	116	75-125	5.56	20	
Barium	543	8.75	"	437	50.6	113	75-125	0.0191	20	
Cadmium	5.23	0.0875	"	4.37	0.192	115	75-125	5.21	20	
Copper	56.0	8.75	"	43.7	4.04	119	75-125	2.33	20	
Lead	9.28	0.875	"	4.37	3.66	128	75-125	0.408	20	QM-07
Nickel	9.56	0.875	"	4.37	4.24	122	75-125	0.532	20	
Selenium	9.46	0.227	"	8.31	ND	114	75-125	4.39	20	
Silver	5.15	0.0875	"	4.37	0.0423	117	75-125	2.58	20	
Zinc	69.3	32.4	"	43.7	16.6	120	75-125	1.12	20	

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2639 - EPA 3580**

**Blank (B4D2639-BLK1)**

Prepared: 04/26/2024 Analyzed: 04/29/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	190		ug/kg	200		94.6	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	190		"	200		92.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**LCS (B4D2639-BS1)**

Prepared: 04/26/2024 Analyzed: 04/29/2024

1-Methylnaphthalene	0.182	0.002	mg/kg	0.200		90.8	70-130			
2-Methylnaphthalene	0.175	0.002	"	0.200		87.3	70-130			
Acenaphthene	0.181	0.020	"	0.200		90.5	70-130			
Anthracene	0.182	0.020	"	0.200		91.2	70-130			

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Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2639 - EPA 3580**

**LCS (B4D2639-BS1)**

Prepared: 04/26/2024 Analyzed: 04/29/2024

Benzo (a) anthracene	0.175	0.005	mg/kg	0.200		87.3	70-130			
Benzo (a) pyrene	0.173	0.020	"	0.200		86.5	70-130			
Benzo (b) fluoranthene	0.166	0.020	"	0.200		82.8	70-130			
Benzo (g,h,i) perylene	0.179	0.020	"	0.200		89.5	70-130			
Benzo (k) fluoranthene	0.155	0.020	"	0.200		77.4	70-130			
Chrysene	0.177	0.020	"	0.200		88.6	70-130			
Dibenz (a,h) anthracene	0.194	0.020	"	0.200		97.1	70-130			
Fluoranthene	0.170	0.020	"	0.200		84.8	70-130			
Fluorene	0.140	0.020	"	0.200		70.1	70-130			
Indeno (1,2,3-cd) pyrene	0.174	0.020	"	0.200		86.8	70-130			
Naphthalene	0.172	0.002	"	0.200		85.9	70-130			
Phenanthrene	0.188	0.020	"	0.200		93.9	70-130			
Pyrene	0.179	0.020	"	0.200		89.5	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		97.4	60-130			
Surrogate: Anthracene-d10	220		"	200		108	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**Matrix Spike (B4D2639-MS1)**

**Source: Y404790-01**

Prepared: 04/26/2024 Analyzed: 04/29/2024

1-Methylnaphthalene	0.171	0.002	mg/kg	0.200	ND	85.7	70-130			
2-Methylnaphthalene	0.168	0.002	"	0.200	ND	83.9	70-130			
Acenaphthene	0.178	0.020	"	0.200	0.001	88.6	70-130			
Anthracene	0.175	0.020	"	0.200	0.001	87.2	70-130			
Benzo (a) anthracene	0.175	0.005	"	0.200	0.0007	87.2	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200	ND	96.0	70-130			
Benzo (b) fluoranthene	0.175	0.020	"	0.200	0.0009	87.1	70-130			
Benzo (g,h,i) perylene	0.183	0.020	"	0.200	0.0006	91.2	70-130			

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Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2639 - EPA 3580**

<b>Matrix Spike (B4D2639-MS1)</b>		<b>Source: Y404790-01</b>			Prepared: 04/26/2024 Analyzed: 04/29/2024					
Benzo (k) fluoranthene	0.165	0.020	mg/kg	0.200	0.0008	82.0	70-130			
Chrysene	0.174	0.020	"	0.200	0.0004	86.7	70-130			
Dibenz (a,h) anthracene	0.200	0.020	"	0.200	ND	100	70-130			
Fluoranthene	0.174	0.020	"	0.200	0.0008	86.8	70-130			
Fluorene	0.163	0.020	"	0.200	0.0002	81.2	70-130			
Indeno (1,2,3-cd) pyrene	0.184	0.020	"	0.200	0.002	91.3	70-130			
Naphthalene	0.170	0.002	"	0.200	ND	85.2	70-130			
Phenanthrene	0.179	0.020	"	0.200	0.0002	89.5	70-130			
Pyrene	0.178	0.020	"	0.200	ND	88.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.5	60-130			
Surrogate: Anthracene-d10	200		"	200		97.5	60-130			
Surrogate: Pyrene-d10	190		"	200		97.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

<b>Matrix Spike Dup (B4D2639-MSD1)</b>		<b>Source: Y404790-01</b>			Prepared: 04/26/2024 Analyzed: 04/29/2024					
1-Methylnaphthalene	0.179	0.002	mg/kg	0.200	ND	89.6	70-130	4.44	20	
2-Methylnaphthalene	0.174	0.002	"	0.200	ND	86.8	70-130	3.37	20	
Acenaphthene	0.175	0.020	"	0.200	0.001	87.1	70-130	1.69	20	
Anthracene	0.190	0.020	"	0.200	0.001	94.4	70-130	7.85	20	
Benzo (a) anthracene	0.182	0.005	"	0.200	0.0007	90.7	70-130	3.91	20	
Benzo (a) pyrene	0.193	0.020	"	0.200	ND	96.5	70-130	0.511	20	
Benzo (b) fluoranthene	0.172	0.020	"	0.200	0.0009	85.5	70-130	1.84	20	
Benzo (g,h,i) perylene	0.182	0.020	"	0.200	0.0006	90.8	70-130	0.502	20	
Benzo (k) fluoranthene	0.167	0.020	"	0.200	0.0008	83.0	70-130	1.12	20	
Chrysene	0.178	0.020	"	0.200	0.0004	88.9	70-130	2.48	20	
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	ND	98.2	70-130	2.00	20	
Fluoranthene	0.181	0.020	"	0.200	0.0008	90.1	70-130	3.76	20	

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Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2639 - EPA 3580

Matrix Spike Dup (B4D2639-MSD1)	Source: Y404790-01			Prepared: 04/26/2024 Analyzed: 04/29/2024						
Fluorene	0.163	0.020	mg/kg	0.200	0.0002	81.5	70-130	0.297	20	
Indeno (1,2,3-cd) pyrene	0.176	0.020	"	0.200	0.002	87.4	70-130	4.35	20	
Naphthalene	0.175	0.002	"	0.200	ND	87.7	70-130	2.97	20	
Phenanthrene	0.186	0.020	"	0.200	0.0002	92.7	70-130	3.58	20	
Pyrene	0.191	0.020	"	0.200	ND	95.4	70-130	7.07	20	
Surrogate: Fluorene-d10	190		ug/kg	200		93.8	60-130			
Surrogate: Anthracene-d10	220		"	200		109	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2702 - Saturated Paste Metals**

**Blank (B4D2702-BLK1)**

Prepared: 04/27/2024 Analyzed: 04/29/2024

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B4D2702-DUP1)**

Source: Y404717-01

Prepared: 04/27/2024 Analyzed: 04/29/2024

Calcium PPM	27.4	10.0	mg/L		27.6			0.764	50	
SAR	ND	0.0100	SAR		1.31				200	
Magnesium PPM	8.21	10.0	mg/L		8.30			1.09	50	
Sodium PPM	31.4	10.0	"		30.7			2.32	50	

**Batch B4D2703 - Saturated Paste Metals**

**Blank (B4D2703-BLK1)**

Prepared: 04/27/2024 Analyzed: 04/29/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

**Duplicate (B4D2703-DUP1)**

Source: Y404773-01

Prepared: 04/27/2024 Analyzed: 04/29/2024

Calcium PPM	20.5	10.0	mg/L		20.7			0.680	50	
SAR	ND	0.0100	SAR		2.46				200	
Magnesium PPM	18.3	10.0	mg/L		19.0			3.85	50	
Sodium PPM	58.7	10.0	"		64.3			9.19	50	

**Batch B4D2912 - DTPA Sorbitol Preparation**

**Blank (B4D2912-BLK1)**

Prepared: 04/29/2024 Analyzed: 05/01/2024

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4D2912 - DTPA Sorbitol Preparation</b>										
<b>Blank (B4D2912-BLK1)</b>					Prepared: 04/29/2024 Analyzed: 05/01/2024					
Boron	ND	0.100	mg/L							
<b>Duplicate (B4D2912-DUP1)</b>					<b>Source: Y404709-01</b> Prepared: 04/29/2024 Analyzed: 05/01/2024					
Boron	0.254	0.0988	mg/L		0.223			12.9	50	

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2708 - Saturated Paste pH/EC**

**Blank (B4D2708-BLK1)**

Prepared: 04/27/2024 Analyzed: 04/29/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4D2708-DUP1)**

**Source: Y404717-01**

Prepared: 04/27/2024 Analyzed: 04/29/2024

Specific Conductance (EC)	0.327	0.00500	mmhos/cm	0.321	1.92	25
pH	8.52		pH Units	8.51	0.117	25

**Batch B4D2709 - Saturated Paste pH/EC**

**Blank (B4D2709-BLK1)**

Prepared: 04/27/2024 Analyzed: 04/29/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4D2709-DUP1)**

**Source: Y404773-01**

Prepared: 04/27/2024 Analyzed: 04/29/2024

pH	8.41		pH Units	8.39	0.238	25
Specific Conductance (EC)	0.465	0.00500	mmhos/cm	0.487	4.73	25

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2609817 - SW846 3060A</b>										
<b>BLANK (1205729106-BLK)</b>					Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	ND	0.390	mg/kg				-			U
<b>LCS (1205729107-BKS)</b>					Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	3.89	0.385	mg/kg	3.85		101	80-120			
<b>DUP (1205729108 D)</b>					Source: Y404790-01 Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	ND	0.354	mg/kg dry		<0.142		0-50	N/A	50	U
<b>MS (1205729109 S)</b>					Source: Y404790-01 Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	3.27	0.354	mg/kg dry	3.54	<0.142	91.8	75-125			
<b>DUP (1205729110 D)</b>					Source: Y404790-11 Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	ND	0.438	mg/kg dry		<0.175		0-50	N/A	50	U
<b>MS (1205729111 S)</b>					Source: Y404790-11 Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	3.90	0.438	mg/kg dry	4.38	<0.175	86.2	75-125			
<b>ILCS (1205729112-ILCS)</b>					Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	5.49	0.257	mg/kg	5.29		104	80-120			

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Wilson 1C Pad

**Notes and Definitions**

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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April 30, 2024

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Wilson 1C Pad

Project Number - [none]

Attached are your analytical results for Wilson 1C Pad received by Origins Laboratory, Inc. April 29, 2024. This project is associated with Origins project number Y404824-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Wilson 1C Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	Y404824-01	Water	April 29, 2024 0:00	04/29/2024 17:15
MW-2	Y404824-02	Water	April 29, 2024 0:00	04/29/2024 17:15
MW-3	Y404824-03	Water	April 29, 2024 0:00	04/29/2024 17:15
MW-4	Y404824-04	Water	April 29, 2024 0:00	04/29/2024 17:15
MW-5	Y404824-05	Water	April 29, 2024 0:00	04/29/2024 17:15

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini, Project Manager

Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

# ORIGINS

LABORATORY, INC

4404024

www.originslaboratory.com

Client: Fremont Env

Project Manager: Paul Henehan

Address: \_\_\_\_\_

Project Name: Wilson 1C Pad (u)

Telephone Number: \_\_\_\_\_

Samples Collected By: JG

Email Address: Paul.H@fremontenv.com  
Jeff@fremontenv.com Ethan.H@fremontenv.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	
MW-1	4/29/24		3	X			X		X	BTEX+N TMS (95)	
MW-2											
MW-3											
MW-4											
MW-5											

Relinquished By: \_\_\_\_\_

Date: 4/29/24

Time: RTS

Received By: \_\_\_\_\_

Date: 4/29/24

Time: RTS

Turnaround Time:  Same Day  
 48 Hr  
 Standard

Temp Received: \_\_\_\_\_

20

Date Results Needed

Origins Laboratory, Inc.

*Jen Pellegrini*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

Origins Laboratory F-012207-01-R1  
Effective Date: 01/09/12

**Sample Receipt Checklist**

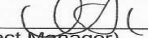
Origins Work Order: 4401024 Client: Fremont  
 Client Project ID: Wilson 1C Pad

Checklist Completed by: JUP Shipped Via: TUP  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Date/time completed: 4/29/12 Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 20 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)  
 Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		/		SD
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		/		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for sub-contracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	/			not checked
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

  
 Reviewed by (Project Manager) 4/29/12  
 Date/Time Reviewed

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-1**

**4/29/2024 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404824-01 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	200	2.00	ug/L	1	B4D2935	JSM	04/29/2024	04/29/2024	
1,3,5-Trimethylbenzene	60.5	2.00	"	"	"	JSM	"	"	
Benzene	4120	100	"	100	"	HKS	"	04/30/2024	
Ethylbenzene	219	10.0	"	10	"	HKS	"	04/30/2024	
Naphthalene	17.1	2.00	"	1	"	JSM	"	04/29/2024	
Toluene	3740	100	"	100	"	HKS	"	04/30/2024	
Xylenes, total	1760	10.0	"	10	"	HKS	"	04/30/2024	

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-2**

**4/29/2024 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404824-02 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	220	20.0	ug/L	10	B4D2935	HKS	04/29/2024	04/30/2024	
1,3,5-Trimethylbenzene	63.2	2.00	"	1	"	JSM	"	04/29/2024	
Benzene	13600	100	"	100	"	HKS	"	04/30/2024	
Ethylbenzene	409	10.0	"	10	"	HKS	"	04/30/2024	
Naphthalene	30.7	2.00	"	1	"	JSM	"	04/29/2024	
Toluene	9480	100	"	100	"	HKS	"	04/30/2024	
Xylenes, total	3130	10.0	"	10	"	HKS	"	04/30/2024	

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-3**

**4/29/2024 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404824-03 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	2.27	2.00	ug/L	1	B4D2935	JSM	04/29/2024	04/29/2024	
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	280	10.0	"	10	"	HKS	"	04/30/2024	
Ethylbenzene	1.08	1.00	"	1	"	JSM	"	04/29/2024	
Naphthalene	3.45	2.00	"	"	"	JSM	"	"	
Toluene	5.28	1.00	"	"	"	JSM	"	"	
Xylenes, total	17.7	1.00	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %	70-130			"	"	"	"	

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-4**

**4/29/2024 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404824-04 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4D2935	JSM	04/29/2024	04/29/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	<b>63.5</b>	1.00	"	"	"	JSM	"	"	
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	<b>1.27</b>	1.00	"	"	"	JSM	"	"	
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**MW-5**

**4/29/2024 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404824-05 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	366	20.0	ug/L	10	B4D2935	JSM	04/29/2024	04/29/2024	
1,3,5-Trimethylbenzene	93.2	2.00	"	1	"	JSM	"	04/30/2024	
Benzene	5330	100	"	100	"	HKS	"	04/30/2024	
Ethylbenzene	550	10.0	"	10	"	JSM	"	04/29/2024	
Naphthalene	33.9	2.00	"	1	"	JSM	"	04/30/2024	
Toluene	9800	100	"	100	"	HKS	"	04/30/2024	
Xylenes, total	3700	10.0	"	10	"	JSM	"	04/29/2024	

Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2935 - EPA 5030B (Water)**

**Blank (B4D2935-BLK1)**

Prepared: 04/29/2024 Analyzed: 04/29/2024

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5	92.5		70-130			
Surrogate: Toluene-d8	62		"	62.5	99.5		70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	96.6		70-130			

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2935 - EPA 5030B (Water)**

**LCS (B4D2935-BS1)**

Prepared: 04/29/2024 Analyzed: 04/29/2024

1,2,4-Trimethylbenzene	49.6	2.00	ug/L	50.0		99.3	70-130			
1,3,5-Trimethylbenzene	48.4	2.00	"	50.0		96.8	70-130			
Benzene	50.5	1.00	"	50.0		101	70-130			
Ethylbenzene	52.4	1.00	"	50.0		105	70-130			
m,p-Xylene	105	2.00	"	100		105	70-130			
Naphthalene	51.0	2.00	"	50.0		102	70-130			
o-Xylene	53.1	1.00	"	50.0		106	70-130			
Toluene	51.2	1.00	"	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.1	70-130			

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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2935 - EPA 5030B (Water)

Matrix Spike (B4D2935-MS1)	Source: Y404800-01			Prepared: 04/29/2024 Analyzed: 04/29/2024						
1,2,4-Trimethylbenzene	50.6	2.00	ug/L	50.0	ND	101	70-130			
1,3,5-Trimethylbenzene	50.5	2.00	"	50.0	ND	101	70-130			
Benzene	53.4	1.00	"	50.0	ND	107	70-130			
Ethylbenzene	57.0	1.00	"	50.0	ND	114	70-130			
m,p-Xylene	111	2.00	"	100	ND	111	70-130			
Naphthalene	49.1	2.00	"	50.0	ND	98.2	70-130			
o-Xylene	54.6	1.00	"	50.0	ND	109	70-130			
Toluene	56.6	1.00	"	50.0	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.0	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.0	70-130			

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Paul Henehan  
 Project Number: [none]  
 Project: Wilson 1C Pad

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2935 - EPA 5030B (Water)**

Matrix Spike Dup (B4D2935-MSD1)	Source: Y404800-01			Prepared: 04/29/2024 Analyzed: 04/29/2024						
1,2,4-Trimethylbenzene	50.8	2.00	ug/L	50.0	ND	102	70-130	0.552	20	
1,3,5-Trimethylbenzene	51.1	2.00	"	50.0	ND	102	70-130	1.08	20	
Benzene	55.4	1.00	"	50.0	ND	111	70-130	3.80	20	
Ethylbenzene	60.0	1.00	"	50.0	ND	120	70-130	5.16	20	
m,p-Xylene	115	2.00	"	100	ND	115	70-130	3.48	20	
Naphthalene	41.1	2.00	"	50.0	ND	82.2	70-130	17.7	20	
o-Xylene	51.3	1.00	"	50.0	ND	103	70-130	6.25	20	
Toluene	59.7	1.00	"	50.0	ND	119	70-130	5.33	20	
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.6	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	70-130			

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### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini, Project Manager