

UBC Properties Trust
Suite 200 - 3313 Shrum Lane
Vancouver, BC
V6S 0C8

March 10, 2024

Attention: Sepehr Rad

Regarding: Soil Sampling Investigation – 6049 Nurseries Road, Vancouver, BC

Dear Mr. Rad,

Alliance EHS Consulting (Alliance) conducted a Soil Sampling Investigation for stockpile located at 6049 Nurseries Road on the UBC campus in Vancouver, BC.

Soil sampling was conducted as a preliminary investigation to screen for potential contaminants within the soil required for disposal and to determine the appropriate receiving site for soil relocation.

The soil at the site was generally comprised of a mixture of grey and brown silty sand and gravel. A minor amount of other materials were encountered within the stockpile such as asphalt, concrete and cast iron drain pipes.

One set of soil samples was collected from the site on February 28, 2024. The samples were collected in general conformance with the sampling guidelines in the Ministry of Environment and Climate Change Strategy (BC ENV) Technical Guidance 1 (TG 1). Representative test pits were excavated at 6 locations around the stockpile and samples were collected at 2 separate depths at each test pit.

The samples were analyzed for light and heavy extractable petroleum hydrocarbons (LEPH/HEPH) corrected for polycyclic aromatic hydrocarbons (PAHs), Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), Volatile Petroleum Hydrocarbons (VPH), Metals and Soil Salinity.

Samples to be submitted for analyses of volatile parameters were collected through the use of disposable coring devices provided by the laboratory. The samples were extruded into duplicate vials containing known volumes of methanol preservative. Soil samples for moisture analysis were also required to complement these samples which were compacted into clean, 125 millilitre (mL) capacity laboratory supplied sample jars.

Soil samples collected for light and heavy extractable petroleum hydrocarbons (LEPH/HEPH) corrected for polycyclic aromatic hydrocarbons (PAH), Metals and Salinity analyses were compacted into clean, 125 mL capacity laboratory supplied sample jars with no headspace. The sampler wore nitrile gloves during sample collection. All samples were then placed in a cooler equipped with freezer packs for transportation to the laboratory under chain of custody for analysis.

All laboratory analytical results were compared to the most recent BC ENV, Contaminated Sites Regulation (CSR) standards. The most stringent human and ecological health regulatory standards for agricultural, urban park and residential low density land uses were used for soil relocation comparison purposes and to determine the appropriate receiving site for the onsite soil.

A figure showing the onsite soil stockpile, sample locations and results is attached. See Tables 1 to 5 on the following pages for tabulated soil results. In the tables, the test pit soil samples collected are labelled as TP with the number associated with the sample depth in feet.

Analytical results indicate that all parameters analysed within the test pit contained concentrations less than the most stringent CSR generic and matrix soil standards for Agricultural, Urban Park and Low Density Residential land uses, with the exception of the PAH concentrations which were greater than the agricultural land use standards in all but one soil sample. However, all sample results are below all parkland and residential land use standards. See laboratory analytical results attached for more details.

Based on the results of the soil sampling investigation, the soil investigated will require special disposal at a soil treatment facility or may be used on the UBC grounds or be shipped to a residential, commercial or industrial landfill site.

Qualifications of Assessor:

Jim Williams has a diploma in Environmental Engineering Technology from the British Columbia Institute of Technology in 1998. Jim has practiced environmental consulting in the province of British Columbia for over twenty years.

If you have any questions or require further information on any of the above, please do not hesitate to contact us at your earliest convenience.

Sincerely,

Alliance EHS Consulting Inc.



Jim Williams, Dipl. Tech., ABI
Principal Consultant

Enclosed:

Tables 1 to 5
Test Pit and Soil Sample Location Diagram
Laboratory Analytical Results

Table 1 – LEPH/HEPH soil results

Regulatory Limits

Analyte	TP1 3.0	TP1 16.0	TP2 5.0	TP2 14.0	TP3 5.0	TP3 10.0	CSR AL	CSR PL	CSR RL _{LD}
LEPH	<50	<50	<50	<50	<50	<50	1000	1000	1000
HEPH	93	120	92	120	140	130	1000	1000	1000

Table 1 cont'd – LEPH/HEPH soil results

Regulatory Limits

Analyte	TP4 4.0	TP4 15.0	TP5 3.0	TP5 10.0	TP6 5.0	TP6 16.0	CSR AL	CSR PL	CSR RL _{LD}
LEPH	<50	<50	<50	<50	<50	<50	1000	1000	1000
HEPH	300	150	81	150	61	120	1000	1000	1000

Table 2 – PAH soil results

Regulatory Limits

Analyte	TP1 3.0	TP1 16.0	TP2 5.0	TP2 14.0	TP3 5.0	TP3 10.0	CSR AL	CSR PL	CSR RL _{LD}
Acenaphthene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	950	2000	950
Acenaphthylene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	-
Anthracene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	2.5	2.5	2.5
Benzo(a)anthracene	0.071	0.055	0.07	0.086	0.08	0.08	50	95	50
Benzo(a)pyrene	0.102	0.073	0.094	0.118	0.108	0.106	5	10	5
Benzo(b)fluoranthene	0.067	<0.050	0.059	0.073	0.083	0.112	0.1	1.00	1.00
Benzo(b+j)fluoranthene	0.112	<0.050	0.112	0.122	0.128	0.157	0.1	1.00	1.00
Benzo(g,h,i)perylene	0.061	<0.050	0.058	0.072	0.086	0.063	-	-	-
Benzo(k)fluoranthene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.1	1	1
2-Chloronaphthalene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Chrysene	0.088	0.07	0.079	0.096	0.102	0.09	200	400	200
Dibenzo(a,h)anthracene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.1	1	1
Fluoranthene	0.171	0.127	0.144	0.211	0.19	0.177	50	50	50
Fluorene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	600	1000	600
Indeno(1,2,3-c,d)pyrene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	50	1	1
1-Methylnaphthalene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	250	500	250
2-Methylnaphthalene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	60	100	60
Naphthalene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.6	0.6	0.6
Phenanthrene	0.099	0.09	0.077	0.13	0.112	0.104	0.1	5	5
Pyrene	0.17	0.135	0.167	0.217	0.205	0.185	0.1	10.00	10.00
Quinoline	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	2.5	4.5	2.5

Notes:

Results expressed in micrograms per gram (µg/g)

< - less than detection limit

Bold – Exceeds the CSR Standard

CSR – Contaminated Sites Regulation

“-“ - no standard available

(3.5) – Sample Depth in feet

AL – Agricultural Land Use

PL – Urban Park Land use

RL_{LD} – Residential Land, Low Density use

Table 2 cont'd – PAH soil results

Regulatory Limits

Analyte	TP4 4.0	TP4 15.0	TP5 3.0	TP5 10.0	TP6 5.0	TP6 16.0	CSR AL	CSR PL	CSR RL _{LD}
Acenaphthene	0.059	<0.050	<0.050	<0.050	<0.050	<0.050	950	2000	950
Acenaphthylene	<0.050	<0.050	<0.050	0.119	<0.050	<0.050	-	-	-
Anthracene	<0.050	0.057	<0.050	0.206	<0.050	<0.050	2.5	2.5	2.5
Benzo(a)anthracene	0.087	0.11	<0.050	0.437	<0.050	0.069	50	95	50
Benzo(a)pyrene	0.121	0.149	0.057	0.395	0.057	0.092	5	10	5
Benzo(b)fluoranthene	0.072	0.094	<0.050	0.289	<0.050	0.057	0.1	1.00	1.00
Benzo(b+j)fluoranthene	0.13	0.153	0.065	0.512	0.05	0.094	0.1	1.00	1.00
Benzo(g,h,i)perylene	0.103	0.094	<0.050	0.234	<0.050	0.058	-	-	-
Benzo(k)fluoranthene	<0.050	0.066	<0.050	0.14	<0.050	<0.050	0.1	1	1
2-Chloronaphthalene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Chrysene	0.095	0.13	<0.050	0.439	0.057	0.077	200	400	200
Dibenzo(a,h)anthracene	<0.050	<0.050	<0.050	0.059	<0.050	<0.050	0.1	1	1
Fluoranthene	0.205	0.262	0.088	1.11	0.09	0.171	50	50	50
Fluorene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	600	1000	600
Indeno(1,2,3-c,d)pyrene	0.054	0.068	<0.050	0.19	<0.050	<0.050	50	1	1
1-Methylnaphthalene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	250	500	250
2-Methylnaphthalene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	60	100	60
Naphthalene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.6	0.6	0.6
Phenanthrene	0.142	0.171	<0.050	0.502	0.1	0.104	0.1	5	5
Pyrene	0.242	0.263	0.099	0.967	0.122	0.18	0.1	10.00	10.00
Quinoline	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	2.5	4.5	2.5

Notes:

Results expressed in micrograms per gram (µg/g)

< - less than detection limit

Bold – Exceeds the CSR Standard**CSR** – Contaminated Sites Regulation

“-“ - no standard available

(3.5) – Sample Depth in feet

AL – Agricultural Land Use**PL** – Urban Park Land use**RL_{LD}** – Residential Land, Low Density use

Table 3 – Metals results

Regulatory Limits

Analyte	TP1 3.0	TP1 16.0	TP2 5.0	TP2 14.0	TP3 5.0	TP3 10.0	CSR AL	CSR PL	CSR RL _{LD}
Aluminium	15700	16500	17900	16100	16100	16900	40000	40000	40000
Antimony	0.45	0.44	0.62	0.61	0.65	0.61	20.0	20.0	20.0
Arsenic	3.16	3.53	3.73	3.25	3.32	3.54	10.0	10.0	10.0
Barium	72.8	74.6	81.8	71.2	75.1	77.8	350	350	350
Beryllium	0.23	0.25	0.25	0.24	0.23	0.25	1.0	1.0	1.0
Bismuth	<0.10	<0.10	<0.10	<0.10	<0.10	0.25	-	-	-
Boron	3.8	4.1	3.9	4.4	4.1	4.1	8500	15000	8500
Cadmium	0.177	0.235	0.294	0.256	0.4	0.274	1.0	1.0	1.0
Calcium	5710	5500	5730	5670	5810	6130	-	-	-
Chromium	15.8	29.2	17.5	16.8	17.4	16.2	60	60.0	60.0
Cobalt	6.8	7.22	7.8	6.81	6.99	6.89	25.0	25.0	25.0
Copper	33.7	27	35.3	29.1	36.1	53.3	75.0	75.0	75.0
Iron	18800	19100	21300	18800	20300	19200	35000	35000	35000
Lead	20.5	45.8	28	24.5	26.5	25.3	120.0	120.0	120.0
Lithium	7.08	7.14	7.56	6.93	6.96	7.14	30.0	65.0	30.0
Magnesium	4140	4640	4660	4110	4270	4090	-	-	-
Manganese	316	318	342	309	318	310	2000	2000	2000
Mercury	0.092	0.087	0.101	0.087	0.089	0.079	0.60	25.0	10.0
Molybdenum	0.82	1.06	1.2	1.1	1.4	1.12	3.0	3.0	3.0
Nickel	13.7	19.7	15.7	13.9	15.7	15.1	70.0	70.0	70.0
Phosphorus	431	480	546	491	504	499	-	-	-
Potassium	712	741	801	710	723	737	-	-	-
Selenium	0.22	0.26	0.25	0.23	0.23	0.28	1.0	1.0	1.0
Silver	0.13	0.19	0.19	0.16	0.22	0.26	20.0	20.0	20.0
Sodium	288	282	297	278	276	326	-	-	-
Strontium	37.3	36.8	39.4	35.9	35.3	40.5	9500	20000	9500
Sulphur	<1000	<1000	<1000	<1000	<1000	<1000	-	-	-
Tellurium	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-	-	-
Thallium	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	2.0	9.0	9.0
Thorium	1.25	1.09	1.58	1.08	1.29	1.08	-	-	-
Tin	1.23	1.39	2.18	1.78	2.56	2.02	5.0	50.0	50.0
Titanium	809	749	968	858	856	854	-	-	-
Tungsten	<0.20	0.33	<0.20	<0.20	0.24	<0.20	15.00	25.0	15.0
Uranium	0.368	0.362	0.412	0.375	0.376	0.399	15.0	15.0	15.0
Vanadium	48.7	49.1	54.9	49.2	51.2	50	100	100.0	100.0
Zinc	56.8	60.9	77.5	90.1	71.7	79	150	150.0	150.0
Zirconium	2.6	2.4	2.4	2.2	2.4	2.3	-	-	-
pH	7.88	7.66	7.54	7.55	7.52	7.59	-	-	-

Notes:

Results expressed in micrograms per gram (µg/g)

< - less than detection limit

Bold – Exceeds the CSR Standard**CSR** – Contaminated Sites Regulation

“-” - no standard available

(3.5) – Sample Depth in feet

AL – Agricultural Land Use**PL** – Urban Park Land use**RL_{LD}** – Residential Land, Low Density use

Table 3 cont'd – Metals results

Regulatory Limits

Analyte	TP4 4.0	TP4 15.0	TP5 3.0	TP5 10.0	TP6 5.0	TP6 16.0	CSR AL	CSR PL	CSR RL _{LD}
Aluminium	17300	15600	16300	17000	14100	17400	40000	40000	40000
Antimony	0.47	0.52	0.54	4.36	0.29	0.43	20.0	20.0	20.0
Arsenic	3.38	3.59	3.26	6.91	2.85	3.61	10.0	10.0	10.0
Barium	64.9	67.3	75.1	70.8	56.4	76.6	350	350	350
Beryllium	0.24	0.22	0.25	0.25	0.19	0.25	1.0	1.0	1.0
Bismuth	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-	-	-
Boron	3.9	4.2	3.4	3.8	2.9	3.8	8500	15000	8500
Cadmium	0.324	0.204	0.169	0.247	0.095	0.195	1.0	1.0	1.0
Calcium	5430	6750	7310	6730	4280	6060	-	-	-
Chromium	16.9	16.7	16.7	20.6	14.4	18.4	60	60.0	60.0
Cobalt	6.77	6.74	7.06	7.13	5.86	7.39	25.0	25.0	25.0
Copper	26.1	27.8	28.1	30.1	15.8	27.8	75.0	75.0	75.0
Iron	19200	19800	19200	19300	16700	20200	35000	35000	35000
Lead	20.6	23.8	22.7	27.8	8.77	20.7	120.0	120.0	120.0
Lithium	7.33	6.58	7.31	6.75	5.69	7.77	30.0	65.0	30.0
Magnesium	4050	4500	4280	4300	3540	4430	-	-	-
Manganese	293	299	274	324	247	341	2000	2000	2000
Mercury	0.089	0.106	0.119	0.096	0.043	0.097	0.60	25.0	10.0
Molybdenum	0.9	0.91	1.05	1.44	0.45	0.93	3.0	3.0	3.0
Nickel	13.8	14.5	13.8	15.1	11.4	18.7	70.0	70.0	70.0
Phosphorus	497	597	470	491	402	479	-	-	-
Potassium	649	720	759	695	549	794	-	-	-
Selenium	0.31	0.22	<0.20	0.25	0.22	0.24	1.0	1.0	1.0
Silver	0.14	<0.10	0.14	0.13	<0.10	0.13	20.0	20.0	20.0
Sodium	302	319	335	297	238	309	-	-	-
Strontium	34.7	38.7	39.9	37.3	34.7	39.4	9500	20000	9500
Sulphur	<1000	<1000	<1000	<1000	<1000	<1000	-	-	-
Tellurium	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-	-	-
Thallium	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	2.0	9.0	9.0
Thorium	1.08	1.07	1.14	1.15	1.11	1.26	-	-	-
Tin	2.24	0.84	1.4	3	0.34	1.32	5.0	50.0	50.0
Titanium	838	860	881	818	759	924	-	-	-
Tungsten	0.28	0.2	<0.20	<0.20	<0.20	<0.20	15.00	25.0	15.0
Uranium	0.386	0.438	0.396	0.404	0.363	0.456	15.0	15.0	15.0
Vanadium	50.5	52.1	50.9	50.1	47.9	52.6	100	100.0	100.0
Zinc	195	69.3	62.1	74.5	35.3	61.2	150	150.0	150.0
Zirconium	2	2.3	2.7	2.4	2.5	2.4	-	-	-
pH	7.52	7.8	7.64	7.74	7.69	7.59	-	-	-

Notes:

Results expressed in micrograms per gram (µg/g)

< - less than detection limit

Bold – Exceeds the CSR Standard**CSR** – Contaminated Sites Regulation

“-” - no standard available

(3.5) – Sample Depth in feet

AL – Agricultural Land Use**PL** – Urban Park Land use**RL_{LD}** – Residential Land, Low Density use

Table 4 - BTEX/VPH results

Analyte							Regulatory Limits		
	TP1 3.0	TP1 16.0	TP2 5.0	TP2 14.0	TP3 5.0	TP3 10.0	CSR AL	CSR PL	CSR RL _{LD}
Benzene	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.035	0.035	0.035
Ethylbenzene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	15	15	15
Methyl tert-butyl ether (MTBE)	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	4000	8000	4000
Styrene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	8500	15000	8500
Toluene	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.5	0.5	0.5
Total Xylenes	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	6.5	6.5	6.5
VPH	<20	<20	<20	<20	<20	<20	-	-	-
VH	<20	<20	<20	<20	<20	<20	200	200	200

Table 4 cont'd - BTEX/VPH results

Analyte							Regulatory Limits		
	TP4 4.0	TP4 15.0	TP5 3.0	TP5 10.0	TP6 5.0	TP6 16.0	CSR AL	CSR PL	CSR RL _{LD}
Benzene	<0.030	0.035	<0.030	<0.030	<0.030	<0.030	0.035	0.035	0.035
Ethylbenzene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	15	15	15
Methyl tert-butyl ether (MTBE)	<0.040	<0.040	<0.040	<0.040	0.056	<0.040	4000	8000	4000
Styrene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	8500	15000	8500
Toluene	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.5	0.5	0.5
Total Xylenes	<0.100	<0.100	<0.100	<0.100	0.244	<0.100	6.5	6.5	6.5
VPH	<20	<20	<20	<20	<20	<20	-	-	-
VH	<20	<20	<20	<20	<20	<20	200	200	200

Notes:

Results expressed in micrograms per gram (µg/g)

< - less than detection limit

Bold – Exceeds the CSR Standard**CSR** – Contaminated Sites Regulation

“-“ - no standard available

(3.5) – Sample Depth in feet

AL – Agricultural Land Use**PL** – Urban Park Land use**RL_{LD}** – Residential Land, Low Density use

Table 5 - Soil Salinity results							Regulatory Limits		
Analyte	TP1 3.0	TP1 16.0	TP2 5.0	TP2 14.0	TP3 5.0	TP3 10.0	CSR AL	CSR PL	CSR RL _{LD}
Saturation Percentage	32.2	26.7	36	35.4	41.7	35.6	-	-	-
Chloride, Soluble (mg/kg)	<25	<25	<25	<25	<25	<25	40	40	40
Sodium, Soluble (mg/kg)	5.8	8.2	<1.0	9.4	10.8	9.1	200	200	200

Table 5 cont'd - Soil Salinity results							Regulatory Limits		
Analyte	TP4 4.0	TP4 15.0	TP5 3.0	TP5 10.0	TP6 5.0	TP6 16.0	CSR AL	CSR PL	CSR RL _{LD}
Saturation Percentage	27.4	29.7	27.7	34.7	29.8	35.9	-	-	-
Chloride, Soluble (mg/kg)	<25	<25	<25	<25	<25	<25	40	40	40
Sodium, Soluble (mg/kg)	6.9	7.3	1.1	9.9	<1.0	10.6	200	200	200

Test Pit and Soil Sample Location Diagram



6049 Nurseries Road, Vancouver, BC

CERTIFICATE OF ANALYSIS

REPORTED TO Alliance EHS Consulting
507-71 W 2nd Ave
Vancouver, BC V5Y0J7

ATTENTION Jim Williams

PO NUMBER
PROJECT 24094
PROJECT INFO

WORK ORDER 24B3024

RECEIVED / TEMP 2024-02-28 16:00 / 4.0°C
REPORTED 2024-03-07 15:09
COC NUMBER NO#

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here:
<https://www.caro.ca/terms-conditions>

If you have any questions or concerns, please contact me at hhannaoui@caro.ca

Authorized By:

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TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
24094

WORK ORDER REPORTED 24B3024
2024-03-07 15:09

Analyte	Result	RL	Units	Analyzed	Qualifier
TP1 3.0 (24B3024-01) Matrix: Soil Sampled: 2024-02-28					
BCMOE Aggregate Hydrocarbons					
VHs (6-10)	< 20	20	mg/kg dry	2024-03-04	
VPHs	< 20	20	mg/kg dry	N/A	
EPHs10-19	< 50	50	mg/kg dry	2024-03-01	
EPHs19-32	93	50	mg/kg dry	2024-03-01	
LEPHs	< 50	50	mg/kg dry	N/A	
HEPHs	93	50	mg/kg dry	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	97	60-140	%	2024-03-01	
General Parameters					
Moisture	19.3	1.0	% wet	2024-03-05	
pH (1:2 H2O Solution)	7.88	0.10	pH units	2024-03-06	
Polycyclic Aromatic Hydrocarbons (PAH)					
Acenaphthene	< 0.050	0.050	mg/kg dry	2024-03-02	
Acenaphthylene	< 0.050	0.050	mg/kg dry	2024-03-02	
Anthracene	< 0.050	0.050	mg/kg dry	2024-03-02	
Benz(a)anthracene	0.071	0.050	mg/kg dry	2024-03-02	
Benzo(a)pyrene	0.102	0.050	mg/kg dry	2024-03-02	
Benzo(b)fluoranthene	0.067	0.050	mg/kg dry	2024-03-02	
Benzo(b+j)fluoranthene	0.112	0.050	mg/kg dry	2024-03-02	
Benzo(g,h,i)perylene	0.061	0.050	mg/kg dry	2024-03-02	
Benzo(k)fluoranthene	< 0.050	0.050	mg/kg dry	2024-03-02	
2-Chloronaphthalene	< 0.050	0.050	mg/kg dry	2024-03-02	
Chrysene	0.088	0.050	mg/kg dry	2024-03-02	
Dibenz(a,h)anthracene	< 0.050	0.050	mg/kg dry	2024-03-02	
Fluoranthene	0.171	0.050	mg/kg dry	2024-03-02	
Fluorene	< 0.050	0.050	mg/kg dry	2024-03-02	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	mg/kg dry	2024-03-02	
1-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-02	
2-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-02	
Naphthalene	< 0.050	0.050	mg/kg dry	2024-03-02	
Phenanthrene	0.099	0.050	mg/kg dry	2024-03-02	
Pyrene	0.170	0.050	mg/kg dry	2024-03-02	
Quinoline	< 0.050	0.050	mg/kg dry	2024-03-02	
Surrogate: Acenaphthene-d10	94	50-140	%	2024-03-02	
Surrogate: Chrysene-d12	85	50-140	%	2024-03-02	
Surrogate: Naphthalene-d8	87	50-140	%	2024-03-02	
Surrogate: Perylene-d12	88	50-140	%	2024-03-02	
Surrogate: Phenanthrene-d10	98	55-140	%	2024-03-02	
Salinity Parameters (Sat. Paste Extract)					
Saturation	32.2	1.0	%	2024-03-05	
Chloride, Saturated Paste.	< 25	25	mg/kg dry	2024-03-05	
Sodium, Saturated Paste.	5.8	1.0	mg/kg dry	2024-03-05	

TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
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WORK ORDER REPORTED 24B3024
2024-03-07 15:09

Analyte	Result	RL	Units	Analyzed	Qualifier
TP1 3.0 (24B3024-01) Matrix: Soil Sampled: 2024-02-28, Continued					
Strong Acid Leachable Metals					
Aluminum	15700	40	mg/kg dry	2024-03-07	
Antimony	0.45	0.10	mg/kg dry	2024-03-07	
Arsenic	3.16	0.30	mg/kg dry	2024-03-07	
Barium	72.8	1.0	mg/kg dry	2024-03-07	
Beryllium	0.23	0.10	mg/kg dry	2024-03-07	
Bismuth	< 0.10	0.10	mg/kg dry	2024-03-07	
Boron	3.8	2.0	mg/kg dry	2024-03-07	
Cadmium	0.177	0.040	mg/kg dry	2024-03-07	
Calcium	5710	100	mg/kg dry	2024-03-07	
Chromium	15.8	1.0	mg/kg dry	2024-03-07	
Cobalt	6.80	0.10	mg/kg dry	2024-03-07	
Copper	33.7	0.40	mg/kg dry	2024-03-07	
Iron	18800	20.0	mg/kg dry	2024-03-07	
Lead	20.5	0.20	mg/kg dry	2024-03-07	
Lithium	7.08	0.10	mg/kg dry	2024-03-07	
Magnesium	4140	10	mg/kg dry	2024-03-07	
Manganese	316	0.40	mg/kg dry	2024-03-07	
Mercury	0.092	0.040	mg/kg dry	2024-03-07	
Molybdenum	0.82	0.10	mg/kg dry	2024-03-07	
Nickel	13.7	0.60	mg/kg dry	2024-03-07	
Phosphorus	431	10	mg/kg dry	2024-03-07	
Potassium	712	40	mg/kg dry	2024-03-07	
Selenium	0.22	0.20	mg/kg dry	2024-03-07	
Silver	0.13	0.10	mg/kg dry	2024-03-07	
Sodium	288	50	mg/kg dry	2024-03-07	
Strontium	37.3	0.20	mg/kg dry	2024-03-07	
Sulfur	< 1000	1000	mg/kg dry	2024-03-07	
Tellurium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thallium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thorium	1.25	0.50	mg/kg dry	2024-03-07	
Tin	1.23	0.20	mg/kg dry	2024-03-07	
Titanium	809	1.0	mg/kg dry	2024-03-07	
Tungsten	< 0.20	0.20	mg/kg dry	2024-03-07	
Uranium	0.368	0.050	mg/kg dry	2024-03-07	
Vanadium	48.7	1.0	mg/kg dry	2024-03-07	
Zinc	56.8	2.0	mg/kg dry	2024-03-07	
Zirconium	2.6	2.0	mg/kg dry	2024-03-07	
Volatile Organic Compounds (VOC)					
Benzene	< 0.030	0.030	mg/kg dry	2024-03-04	
Ethylbenzene	< 0.050	0.050	mg/kg dry	2024-03-04	
Methyl tert-butyl ether	< 0.040	0.040	mg/kg dry	2024-03-04	
Styrene	< 0.050	0.050	mg/kg dry	2024-03-04	

TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
24094

WORK ORDER REPORTED 24B3024
2024-03-07 15:09

Analyte	Result	RL	Units	Analyzed	Qualifier
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TP1 3.0 (24B3024-01) | Matrix: Soil | Sampled: 2024-02-28, Continued

Volatile Organic Compounds (VOC), Continued

Toluene	< 0.200	0.200	mg/kg dry	2024-03-04	
Xylenes (total)	< 0.100	0.100	mg/kg dry	2024-03-04	
Surrogate: Toluene-d8	95	60-140	%	2024-03-04	
Surrogate: 4-Bromofluorobenzene	115	60-140	%	2024-03-04	
Surrogate: 1,4-Dichlorobenzene-d4	130	60-140	%	2024-03-04	

TP1 16.0 (24B3024-02) | Matrix: Soil | Sampled: 2024-02-28

BCMOE Aggregate Hydrocarbons

VHs (6-10)	< 20	20	mg/kg dry	2024-03-04	
VPHs	< 20	20	mg/kg dry	N/A	
EPHs10-19	< 50	50	mg/kg dry	2024-03-01	
EPHs19-32	120	50	mg/kg dry	2024-03-01	
LEPHs	< 50	50	mg/kg dry	N/A	
HEPHs	120	50	mg/kg dry	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	96	60-140	%	2024-03-01	

General Parameters

Moisture	18.5	1.0	% wet	2024-03-05	
pH (1:2 H2O Solution)	7.66	0.10	pH units	2024-03-06	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	0.050	mg/kg dry	2024-03-02	
Acenaphthylene	< 0.050	0.050	mg/kg dry	2024-03-02	
Anthracene	< 0.050	0.050	mg/kg dry	2024-03-02	
Benz(a)anthracene	0.055	0.050	mg/kg dry	2024-03-02	
Benzo(a)pyrene	0.073	0.050	mg/kg dry	2024-03-02	
Benzo(b)fluoranthene	< 0.050	0.050	mg/kg dry	2024-03-02	
Benzo(b+j)fluoranthene	< 0.050	0.050	mg/kg dry	2024-03-02	
Benzo(g,h,i)perylene	< 0.050	0.050	mg/kg dry	2024-03-02	
Benzo(k)fluoranthene	< 0.050	0.050	mg/kg dry	2024-03-02	
2-Chloronaphthalene	< 0.050	0.050	mg/kg dry	2024-03-02	
Chrysene	0.070	0.050	mg/kg dry	2024-03-02	
Dibenz(a,h)anthracene	< 0.050	0.050	mg/kg dry	2024-03-02	
Fluoranthene	0.127	0.050	mg/kg dry	2024-03-02	
Fluorene	< 0.050	0.050	mg/kg dry	2024-03-02	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	mg/kg dry	2024-03-02	
1-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-02	
2-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-02	
Naphthalene	< 0.050	0.050	mg/kg dry	2024-03-02	
Phenanthrene	0.090	0.050	mg/kg dry	2024-03-02	
Pyrene	0.135	0.050	mg/kg dry	2024-03-02	
Quinoline	< 0.050	0.050	mg/kg dry	2024-03-02	

TEST RESULTS

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WORK ORDER REPORTED 24B3024
2024-03-07 15:09

Analyte	Result	RL	Units	Analyzed	Qualifier
TP1 16.0 (24B3024-02) Matrix: Soil Sampled: 2024-02-28, Continued					
Polycyclic Aromatic Hydrocarbons (PAH), Continued					
Surrogate: Acenaphthene-d10	94	50-140	%	2024-03-02	
Surrogate: Chrysene-d12	82	50-140	%	2024-03-02	
Surrogate: Naphthalene-d8	86	50-140	%	2024-03-02	
Surrogate: Perylene-d12	88	50-140	%	2024-03-02	
Surrogate: Phenanthrene-d10	98	55-140	%	2024-03-02	
Salinity Parameters (Sat. Paste Extract)					
Saturation	26.7	1.0	%	2024-03-05	
Chloride, Saturated Paste.	< 25	25	mg/kg dry	2024-03-05	
Sodium, Saturated Paste.	8.2	1.0	mg/kg dry	2024-03-05	
Strong Acid Leachable Metals					
Aluminum	16500	40	mg/kg dry	2024-03-07	
Antimony	0.44	0.10	mg/kg dry	2024-03-07	
Arsenic	3.53	0.30	mg/kg dry	2024-03-07	
Barium	74.6	1.0	mg/kg dry	2024-03-07	
Beryllium	0.25	0.10	mg/kg dry	2024-03-07	
Bismuth	< 0.10	0.10	mg/kg dry	2024-03-07	
Boron	4.1	2.0	mg/kg dry	2024-03-07	
Cadmium	0.235	0.040	mg/kg dry	2024-03-07	
Calcium	5500	100	mg/kg dry	2024-03-07	
Chromium	29.2	1.0	mg/kg dry	2024-03-07	
Cobalt	7.22	0.10	mg/kg dry	2024-03-07	
Copper	27.0	0.40	mg/kg dry	2024-03-07	
Iron	19100	20.0	mg/kg dry	2024-03-07	
Lead	45.8	0.20	mg/kg dry	2024-03-07	
Lithium	7.14	0.10	mg/kg dry	2024-03-07	
Magnesium	4640	10	mg/kg dry	2024-03-07	
Manganese	318	0.40	mg/kg dry	2024-03-07	
Mercury	0.087	0.040	mg/kg dry	2024-03-07	
Molybdenum	1.06	0.10	mg/kg dry	2024-03-07	
Nickel	19.7	0.60	mg/kg dry	2024-03-07	
Phosphorus	480	10	mg/kg dry	2024-03-07	
Potassium	741	40	mg/kg dry	2024-03-07	
Selenium	0.26	0.20	mg/kg dry	2024-03-07	
Silver	0.19	0.10	mg/kg dry	2024-03-07	
Sodium	282	50	mg/kg dry	2024-03-07	
Strontium	36.8	0.20	mg/kg dry	2024-03-07	
Sulfur	< 1000	1000	mg/kg dry	2024-03-07	
Tellurium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thallium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thorium	1.09	0.50	mg/kg dry	2024-03-07	
Tin	1.39	0.20	mg/kg dry	2024-03-07	
Titanium	749	1.0	mg/kg dry	2024-03-07	

TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
24094

WORK ORDER REPORTED 24B3024
2024-03-07 15:09

Analyte	Result	RL	Units	Analyzed	Qualifier
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TP1 16.0 (24B3024-02) | Matrix: Soil | Sampled: 2024-02-28, Continued

Strong Acid Leachable Metals, Continued

Tungsten	0.33	0.20	mg/kg dry	2024-03-07	
Uranium	0.362	0.050	mg/kg dry	2024-03-07	
Vanadium	49.1	1.0	mg/kg dry	2024-03-07	
Zinc	60.9	2.0	mg/kg dry	2024-03-07	
Zirconium	2.4	2.0	mg/kg dry	2024-03-07	

Volatile Organic Compounds (VOC)

Benzene	< 0.030	0.030	mg/kg dry	2024-03-04	
Ethylbenzene	< 0.050	0.050	mg/kg dry	2024-03-04	
Methyl tert-butyl ether	< 0.040	0.040	mg/kg dry	2024-03-04	
Styrene	< 0.050	0.050	mg/kg dry	2024-03-04	
Toluene	< 0.200	0.200	mg/kg dry	2024-03-04	
Xylenes (total)	< 0.100	0.100	mg/kg dry	2024-03-04	
Surrogate: Toluene-d8	82	60-140	%	2024-03-04	
Surrogate: 4-Bromofluorobenzene	113	60-140	%	2024-03-04	
Surrogate: 1,4-Dichlorobenzene-d4	123	60-140	%	2024-03-04	

TP2 5.0 (24B3024-03) | Matrix: Soil | Sampled: 2024-02-28

BCMOE Aggregate Hydrocarbons

VHs (6-10)	< 20	20	mg/kg dry	2024-03-04	
VPHs	< 20	20	mg/kg dry	N/A	
EPHs10-19	< 50	50	mg/kg dry	2024-03-04	
EPHs19-32	93	50	mg/kg dry	2024-03-04	
LEPHs	< 50	50	mg/kg dry	N/A	
HEPHs	92	50	mg/kg dry	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	88	60-140	%	2024-03-04	

General Parameters

Moisture	15.4	1.0	% wet	2024-03-05	
pH (1:2 H2O Solution)	7.54	0.10	pH units	2024-03-06	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	0.050	mg/kg dry	2024-03-04	
Acenaphthylene	< 0.050	0.050	mg/kg dry	2024-03-04	
Anthracene	< 0.050	0.050	mg/kg dry	2024-03-04	
Benz(a)anthracene	0.070	0.050	mg/kg dry	2024-03-04	
Benzo(a)pyrene	0.094	0.050	mg/kg dry	2024-03-04	
Benzo(b)fluoranthene	0.059	0.050	mg/kg dry	2024-03-04	
Benzo(b+j)fluoranthene	0.112	0.050	mg/kg dry	2024-03-04	
Benzo(g,h,i)perylene	0.058	0.050	mg/kg dry	2024-03-04	
Benzo(k)fluoranthene	< 0.050	0.050	mg/kg dry	2024-03-04	
2-Chloronaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Chrysene	0.079	0.050	mg/kg dry	2024-03-04	

TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
24094

WORK ORDER REPORTED 24B3024
2024-03-07 15:09

Analyte	Result	RL	Units	Analyzed	Qualifier
TP2 5.0 (24B3024-03) Matrix: Soil Sampled: 2024-02-28, Continued					
Polycyclic Aromatic Hydrocarbons (PAH), Continued					
Dibenz(a,h)anthracene	< 0.050	0.050	mg/kg dry	2024-03-04	
Fluoranthene	0.144	0.050	mg/kg dry	2024-03-04	
Fluorene	< 0.050	0.050	mg/kg dry	2024-03-04	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	mg/kg dry	2024-03-04	
1-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
2-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Naphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Phenanthrene	0.077	0.050	mg/kg dry	2024-03-04	
Pyrene	0.167	0.050	mg/kg dry	2024-03-04	
Quinoline	< 0.050	0.050	mg/kg dry	2024-03-04	
Surrogate: Acenaphthene-d10	100	50-140	%	2024-03-04	
Surrogate: Chrysene-d12	94	50-140	%	2024-03-04	
Surrogate: Naphthalene-d8	93	50-140	%	2024-03-04	
Surrogate: Perylene-d12	95	50-140	%	2024-03-04	
Surrogate: Phenanthrene-d10	106	55-140	%	2024-03-04	
Salinity Parameters (Sat. Paste Extract)					
Saturation	36.0	1.0	%	2024-03-05	
Chloride, Saturated Paste.	< 25	25	mg/kg dry	2024-03-05	
Sodium, Saturated Paste.	< 1.0	1.0	mg/kg dry	2024-03-05	
Strong Acid Leachable Metals					
Aluminum	17900	40	mg/kg dry	2024-03-07	
Antimony	0.62	0.10	mg/kg dry	2024-03-07	
Arsenic	3.73	0.30	mg/kg dry	2024-03-07	
Barium	81.8	1.0	mg/kg dry	2024-03-07	
Beryllium	0.25	0.10	mg/kg dry	2024-03-07	
Bismuth	< 0.10	0.10	mg/kg dry	2024-03-07	
Boron	3.9	2.0	mg/kg dry	2024-03-07	
Cadmium	0.294	0.040	mg/kg dry	2024-03-07	
Calcium	5730	100	mg/kg dry	2024-03-07	
Chromium	17.5	1.0	mg/kg dry	2024-03-07	
Cobalt	7.80	0.10	mg/kg dry	2024-03-07	
Copper	35.3	0.40	mg/kg dry	2024-03-07	
Iron	21300	20.0	mg/kg dry	2024-03-07	
Lead	28.0	0.20	mg/kg dry	2024-03-07	
Lithium	7.56	0.10	mg/kg dry	2024-03-07	
Magnesium	4660	10	mg/kg dry	2024-03-07	
Manganese	342	0.40	mg/kg dry	2024-03-07	
Mercury	0.101	0.040	mg/kg dry	2024-03-07	
Molybdenum	1.20	0.10	mg/kg dry	2024-03-07	
Nickel	15.7	0.60	mg/kg dry	2024-03-07	
Phosphorus	546	10	mg/kg dry	2024-03-07	
Potassium	801	40	mg/kg dry	2024-03-07	

TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
24094

WORK ORDER REPORTED 24B3024
2024-03-07 15:09

Analyte	Result	RL	Units	Analyzed	Qualifier
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TP2 5.0 (24B3024-03) | Matrix: Soil | Sampled: 2024-02-28, Continued

Strong Acid Leachable Metals, Continued

Selenium	0.25	0.20	mg/kg dry	2024-03-07	
Silver	0.19	0.10	mg/kg dry	2024-03-07	
Sodium	297	50	mg/kg dry	2024-03-07	
Strontium	39.4	0.20	mg/kg dry	2024-03-07	
Sulfur	< 1000	1000	mg/kg dry	2024-03-07	
Tellurium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thallium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thorium	1.58	0.50	mg/kg dry	2024-03-07	
Tin	2.18	0.20	mg/kg dry	2024-03-07	
Titanium	968	1.0	mg/kg dry	2024-03-07	
Tungsten	< 0.20	0.20	mg/kg dry	2024-03-07	
Uranium	0.412	0.050	mg/kg dry	2024-03-07	
Vanadium	54.9	1.0	mg/kg dry	2024-03-07	
Zinc	77.5	2.0	mg/kg dry	2024-03-07	
Zirconium	2.4	2.0	mg/kg dry	2024-03-07	

Volatile Organic Compounds (VOC)

Benzene	< 0.030	0.030	mg/kg dry	2024-03-04	
Ethylbenzene	< 0.050	0.050	mg/kg dry	2024-03-04	
Methyl tert-butyl ether	< 0.040	0.040	mg/kg dry	2024-03-04	
Styrene	< 0.050	0.050	mg/kg dry	2024-03-04	
Toluene	< 0.200	0.200	mg/kg dry	2024-03-04	
Xylenes (total)	< 0.100	0.100	mg/kg dry	2024-03-04	
Surrogate: Toluene-d8	88	60-140	%	2024-03-04	
Surrogate: 4-Bromofluorobenzene	106	60-140	%	2024-03-04	
Surrogate: 1,4-Dichlorobenzene-d4	108	60-140	%	2024-03-04	

TP2 14.0 (24B3024-04) | Matrix: Soil | Sampled: 2024-02-28

BCMOE Aggregate Hydrocarbons

VHs (6-10)	< 20	20	mg/kg dry	2024-03-04	
VPHs	< 20	20	mg/kg dry	N/A	
EPHs10-19	< 50	50	mg/kg dry	2024-03-04	
EPHs19-32	120	50	mg/kg dry	2024-03-04	
LEPHs	< 50	50	mg/kg dry	N/A	
HEPHs	120	50	mg/kg dry	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	91	60-140	%	2024-03-04	

General Parameters

Moisture	17.2	1.0	% wet	2024-03-05	
pH (1:2 H2O Solution)	7.55	0.10	pH units	2024-03-06	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	0.050	mg/kg dry	2024-03-04	
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TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
24094

WORK ORDER REPORTED 24B3024
2024-03-07 15:09

Analyte	Result	RL	Units	Analyzed	Qualifier
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TP2 14.0 (24B3024-04) | Matrix: Soil | Sampled: 2024-02-28, Continued

Polycyclic Aromatic Hydrocarbons (PAH), Continued

Acenaphthylene	< 0.050	0.050	mg/kg dry	2024-03-04	
Anthracene	< 0.050	0.050	mg/kg dry	2024-03-04	
Benz(a)anthracene	0.086	0.050	mg/kg dry	2024-03-04	
Benzo(a)pyrene	0.118	0.050	mg/kg dry	2024-03-04	
Benzo(b)fluoranthene	0.073	0.050	mg/kg dry	2024-03-04	
Benzo(b+j)fluoranthene	0.122	0.050	mg/kg dry	2024-03-04	
Benzo(g,h,i)perylene	0.072	0.050	mg/kg dry	2024-03-04	
Benzo(k)fluoranthene	< 0.050	0.050	mg/kg dry	2024-03-04	
2-Chloronaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Chrysene	0.096	0.050	mg/kg dry	2024-03-04	
Dibenz(a,h)anthracene	< 0.050	0.050	mg/kg dry	2024-03-04	
Fluoranthene	0.211	0.050	mg/kg dry	2024-03-04	
Fluorene	< 0.050	0.050	mg/kg dry	2024-03-04	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	mg/kg dry	2024-03-04	
1-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
2-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Naphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Phenanthrene	0.130	0.050	mg/kg dry	2024-03-04	
Pyrene	0.217	0.050	mg/kg dry	2024-03-04	
Quinoline	< 0.050	0.050	mg/kg dry	2024-03-04	
Surrogate: Acenaphthene-d10	100	50-140	%	2024-03-04	
Surrogate: Chrysene-d12	96	50-140	%	2024-03-04	
Surrogate: Naphthalene-d8	93	50-140	%	2024-03-04	
Surrogate: Perylene-d12	97	50-140	%	2024-03-04	
Surrogate: Phenanthrene-d10	107	55-140	%	2024-03-04	

Salinity Parameters (Sat. Paste Extract)

Saturation	35.4	1.0	%	2024-03-05	
Chloride, Saturated Paste.	< 25	25	mg/kg dry	2024-03-05	
Sodium, Saturated Paste.	9.4	1.0	mg/kg dry	2024-03-05	

Strong Acid Leachable Metals

Aluminum	16100	40	mg/kg dry	2024-03-07	
Antimony	0.61	0.10	mg/kg dry	2024-03-07	
Arsenic	3.25	0.30	mg/kg dry	2024-03-07	
Barium	71.2	1.0	mg/kg dry	2024-03-07	
Beryllium	0.24	0.10	mg/kg dry	2024-03-07	
Bismuth	< 0.10	0.10	mg/kg dry	2024-03-07	
Boron	4.4	2.0	mg/kg dry	2024-03-07	
Cadmium	0.256	0.040	mg/kg dry	2024-03-07	
Calcium	5670	100	mg/kg dry	2024-03-07	
Chromium	16.8	1.0	mg/kg dry	2024-03-07	
Cobalt	6.81	0.10	mg/kg dry	2024-03-07	
Copper	29.1	0.40	mg/kg dry	2024-03-07	

TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
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WORK ORDER REPORTED 24B3024
2024-03-07 15:09

Analyte	Result	RL	Units	Analyzed	Qualifier
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TP2 14.0 (24B3024-04) | Matrix: Soil | Sampled: 2024-02-28, Continued

Strong Acid Leachable Metals, Continued

Iron	18800	20.0	mg/kg dry	2024-03-07	
Lead	24.5	0.20	mg/kg dry	2024-03-07	
Lithium	6.93	0.10	mg/kg dry	2024-03-07	
Magnesium	4110	10	mg/kg dry	2024-03-07	
Manganese	309	0.40	mg/kg dry	2024-03-07	
Mercury	0.087	0.040	mg/kg dry	2024-03-07	
Molybdenum	1.10	0.10	mg/kg dry	2024-03-07	
Nickel	13.9	0.60	mg/kg dry	2024-03-07	
Phosphorus	491	10	mg/kg dry	2024-03-07	
Potassium	710	40	mg/kg dry	2024-03-07	
Selenium	0.23	0.20	mg/kg dry	2024-03-07	
Silver	0.16	0.10	mg/kg dry	2024-03-07	
Sodium	278	50	mg/kg dry	2024-03-07	
Strontium	35.9	0.20	mg/kg dry	2024-03-07	
Sulfur	< 1000	1000	mg/kg dry	2024-03-07	
Tellurium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thallium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thorium	1.08	0.50	mg/kg dry	2024-03-07	
Tin	1.78	0.20	mg/kg dry	2024-03-07	
Titanium	858	1.0	mg/kg dry	2024-03-07	
Tungsten	< 0.20	0.20	mg/kg dry	2024-03-07	
Uranium	0.375	0.050	mg/kg dry	2024-03-07	
Vanadium	49.2	1.0	mg/kg dry	2024-03-07	
Zinc	90.1	2.0	mg/kg dry	2024-03-07	
Zirconium	2.2	2.0	mg/kg dry	2024-03-07	

Volatile Organic Compounds (VOC)

Benzene	< 0.030	0.030	mg/kg dry	2024-03-04	
Ethylbenzene	< 0.050	0.050	mg/kg dry	2024-03-04	
Methyl tert-butyl ether	< 0.040	0.040	mg/kg dry	2024-03-04	
Styrene	< 0.050	0.050	mg/kg dry	2024-03-04	
Toluene	< 0.200	0.200	mg/kg dry	2024-03-04	
Xylenes (total)	< 0.100	0.100	mg/kg dry	2024-03-04	
Surrogate: Toluene-d8	87	60-140	%	2024-03-04	
Surrogate: 4-Bromofluorobenzene	112	60-140	%	2024-03-04	
Surrogate: 1,4-Dichlorobenzene-d4	121	60-140	%	2024-03-04	

TP3 5.0 (24B3024-05) | Matrix: Soil | Sampled: 2024-02-28

BCMOE Aggregate Hydrocarbons

VHs (6-10)	< 20	20	mg/kg dry	2024-03-04	
VPHs	< 20	20	mg/kg dry	N/A	
EPHs10-19	< 50	50	mg/kg dry	2024-03-04	

TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
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WORK ORDER REPORTED 24B3024
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Analyte	Result	RL	Units	Analyzed	Qualifier
TP3 5.0 (24B3024-05) Matrix: Soil Sampled: 2024-02-28, Continued					
BCMOE Aggregate Hydrocarbons, Continued					
EPHs19-32	140	50	mg/kg dry	2024-03-04	
LEPHs	< 50	50	mg/kg dry	N/A	
HEPHs	140	50	mg/kg dry	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	90	60-140	%	2024-03-04	
General Parameters					
Moisture	18.3	1.0	% wet	2024-03-05	
pH (1:2 H2O Solution)	7.52	0.10	pH units	2024-03-06	
Polycyclic Aromatic Hydrocarbons (PAH)					
Acenaphthene	< 0.050	0.050	mg/kg dry	2024-03-04	
Acenaphthylene	< 0.050	0.050	mg/kg dry	2024-03-04	
Anthracene	< 0.050	0.050	mg/kg dry	2024-03-04	
Benz(a)anthracene	0.080	0.050	mg/kg dry	2024-03-04	
Benzo(a)pyrene	0.108	0.050	mg/kg dry	2024-03-04	
Benzo(b)fluoranthene	0.083	0.050	mg/kg dry	2024-03-04	
Benzo(b+j)fluoranthene	0.128	0.050	mg/kg dry	2024-03-04	
Benzo(g,h,i)perylene	0.086	0.050	mg/kg dry	2024-03-04	
Benzo(k)fluoranthene	< 0.050	0.050	mg/kg dry	2024-03-04	
2-Chloronaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Chrysene	0.102	0.050	mg/kg dry	2024-03-04	
Dibenz(a,h)anthracene	< 0.050	0.050	mg/kg dry	2024-03-04	
Fluoranthene	0.190	0.050	mg/kg dry	2024-03-04	
Fluorene	< 0.050	0.050	mg/kg dry	2024-03-04	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	mg/kg dry	2024-03-04	
1-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
2-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Naphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Phenanthrene	0.112	0.050	mg/kg dry	2024-03-04	
Pyrene	0.205	0.050	mg/kg dry	2024-03-04	
Quinoline	< 0.050	0.050	mg/kg dry	2024-03-04	
Surrogate: Acenaphthene-d10	102	50-140	%	2024-03-04	
Surrogate: Chrysene-d12	95	50-140	%	2024-03-04	
Surrogate: Naphthalene-d8	94	50-140	%	2024-03-04	
Surrogate: Perylene-d12	94	50-140	%	2024-03-04	
Surrogate: Phenanthrene-d10	106	55-140	%	2024-03-04	
Salinity Parameters (Sat. Paste Extract)					
Saturation	41.7	1.0	%	2024-03-05	
Chloride, Saturated Paste.	< 25	25	mg/kg dry	2024-03-05	
Sodium, Saturated Paste.	10.8	1.0	mg/kg dry	2024-03-05	
Strong Acid Leachable Metals					
Aluminum	16100	40	mg/kg dry	2024-03-07	

TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
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Analyte	Result	RL	Units	Analyzed	Qualifier
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TP3 5.0 (24B3024-05) | Matrix: Soil | Sampled: 2024-02-28, Continued

Strong Acid Leachable Metals, Continued

Antimony	0.65	0.10	mg/kg dry	2024-03-07	
Arsenic	3.32	0.30	mg/kg dry	2024-03-07	
Barium	75.1	1.0	mg/kg dry	2024-03-07	
Beryllium	0.23	0.10	mg/kg dry	2024-03-07	
Bismuth	< 0.10	0.10	mg/kg dry	2024-03-07	
Boron	4.1	2.0	mg/kg dry	2024-03-07	
Cadmium	0.400	0.040	mg/kg dry	2024-03-07	
Calcium	5810	100	mg/kg dry	2024-03-07	
Chromium	17.4	1.0	mg/kg dry	2024-03-07	
Cobalt	6.99	0.10	mg/kg dry	2024-03-07	
Copper	36.1	0.40	mg/kg dry	2024-03-07	
Iron	20300	20.0	mg/kg dry	2024-03-07	
Lead	26.5	0.20	mg/kg dry	2024-03-07	
Lithium	6.96	0.10	mg/kg dry	2024-03-07	
Magnesium	4270	10	mg/kg dry	2024-03-07	
Manganese	318	0.40	mg/kg dry	2024-03-07	
Mercury	0.089	0.040	mg/kg dry	2024-03-07	
Molybdenum	1.40	0.10	mg/kg dry	2024-03-07	
Nickel	15.7	0.60	mg/kg dry	2024-03-07	
Phosphorus	504	10	mg/kg dry	2024-03-07	
Potassium	723	40	mg/kg dry	2024-03-07	
Selenium	0.23	0.20	mg/kg dry	2024-03-07	
Silver	0.22	0.10	mg/kg dry	2024-03-07	
Sodium	276	50	mg/kg dry	2024-03-07	
Strontium	35.3	0.20	mg/kg dry	2024-03-07	
Sulfur	< 1000	1000	mg/kg dry	2024-03-07	
Tellurium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thallium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thorium	1.29	0.50	mg/kg dry	2024-03-07	
Tin	2.56	0.20	mg/kg dry	2024-03-07	
Titanium	856	1.0	mg/kg dry	2024-03-07	
Tungsten	0.24	0.20	mg/kg dry	2024-03-07	
Uranium	0.376	0.050	mg/kg dry	2024-03-07	
Vanadium	51.2	1.0	mg/kg dry	2024-03-07	
Zinc	71.7	2.0	mg/kg dry	2024-03-07	
Zirconium	2.4	2.0	mg/kg dry	2024-03-07	

Volatile Organic Compounds (VOC)

Benzene	< 0.030	0.030	mg/kg dry	2024-03-04	
Ethylbenzene	< 0.050	0.050	mg/kg dry	2024-03-04	
Methyl tert-butyl ether	< 0.040	0.040	mg/kg dry	2024-03-04	
Styrene	< 0.050	0.050	mg/kg dry	2024-03-04	
Toluene	< 0.200	0.200	mg/kg dry	2024-03-04	

TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
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WORK ORDER REPORTED 24B3024
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Analyte	Result	RL	Units	Analyzed	Qualifier
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TP3 5.0 (24B3024-05) | Matrix: Soil | Sampled: 2024-02-28, Continued

Volatile Organic Compounds (VOC), Continued

Xylenes (total)	< 0.100	0.100	mg/kg dry	2024-03-04	
Surrogate: Toluene-d8	100	60-140	%	2024-03-04	
Surrogate: 4-Bromofluorobenzene	110	60-140	%	2024-03-04	
Surrogate: 1,4-Dichlorobenzene-d4	136	60-140	%	2024-03-04	

TP3 10.0 (24B3024-06) | Matrix: Soil | Sampled: 2024-02-28

BCMOE Aggregate Hydrocarbons

VHs (6-10)	< 20	20	mg/kg dry	2024-03-04	
VPHs	< 20	20	mg/kg dry	N/A	
EPHs10-19	< 50	50	mg/kg dry	2024-03-04	
EPHs19-32	130	50	mg/kg dry	2024-03-04	
LEPHs	< 50	50	mg/kg dry	N/A	
HEPHs	130	50	mg/kg dry	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	91	60-140	%	2024-03-04	

General Parameters

Moisture	18.5	1.0	% wet	2024-03-07	
pH (1:2 H2O Solution)	7.59	0.10	pH units	2024-03-06	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	0.050	mg/kg dry	2024-03-04	
Acenaphthylene	< 0.050	0.050	mg/kg dry	2024-03-04	
Anthracene	< 0.050	0.050	mg/kg dry	2024-03-04	
Benz(a)anthracene	0.080	0.050	mg/kg dry	2024-03-04	
Benzo(a)pyrene	0.106	0.050	mg/kg dry	2024-03-04	
Benzo(b)fluoranthene	0.112	0.050	mg/kg dry	2024-03-04	
Benzo(b+j)fluoranthene	0.157	0.050	mg/kg dry	2024-03-04	
Benzo(g,h,i)perylene	0.063	0.050	mg/kg dry	2024-03-04	
Benzo(k)fluoranthene	< 0.050	0.050	mg/kg dry	2024-03-04	
2-Chloronaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Chrysene	0.090	0.050	mg/kg dry	2024-03-04	
Dibenz(a,h)anthracene	< 0.050	0.050	mg/kg dry	2024-03-04	
Fluoranthene	0.177	0.050	mg/kg dry	2024-03-04	
Fluorene	< 0.050	0.050	mg/kg dry	2024-03-04	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	mg/kg dry	2024-03-04	
1-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
2-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Naphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Phenanthrene	0.104	0.050	mg/kg dry	2024-03-04	
Pyrene	0.185	0.050	mg/kg dry	2024-03-04	
Quinoline	< 0.050	0.050	mg/kg dry	2024-03-04	
Surrogate: Acenaphthene-d10	99	50-140	%	2024-03-04	

TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
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WORK ORDER REPORTED 24B3024
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Analyte	Result	RL	Units	Analyzed	Qualifier
TP3 10.0 (24B3024-06) Matrix: Soil Sampled: 2024-02-28, Continued					
Polycyclic Aromatic Hydrocarbons (PAH), Continued					
Surrogate: Chrysene-d12	92	50-140	%	2024-03-04	
Surrogate: Naphthalene-d8	90	50-140	%	2024-03-04	
Surrogate: Perylene-d12	92	50-140	%	2024-03-04	
Surrogate: Phenanthrene-d10	104	55-140	%	2024-03-04	
Salinity Parameters (Sat. Paste Extract)					
Saturation	35.6	1.0	%	2024-03-05	
Chloride, Saturated Paste.	< 25	25	mg/kg dry	2024-03-05	
Sodium, Saturated Paste.	9.1	1.0	mg/kg dry	2024-03-05	
Strong Acid Leachable Metals					
Aluminum	16900	40	mg/kg dry	2024-03-07	
Antimony	0.61	0.10	mg/kg dry	2024-03-07	
Arsenic	3.54	0.30	mg/kg dry	2024-03-07	
Barium	77.8	1.0	mg/kg dry	2024-03-07	
Beryllium	0.25	0.10	mg/kg dry	2024-03-07	
Bismuth	0.25	0.10	mg/kg dry	2024-03-07	
Boron	4.1	2.0	mg/kg dry	2024-03-07	
Cadmium	0.274	0.040	mg/kg dry	2024-03-07	
Calcium	6130	100	mg/kg dry	2024-03-07	
Chromium	16.2	1.0	mg/kg dry	2024-03-07	
Cobalt	6.89	0.10	mg/kg dry	2024-03-07	
Copper	53.3	0.40	mg/kg dry	2024-03-07	
Iron	19200	20.0	mg/kg dry	2024-03-07	
Lead	25.3	0.20	mg/kg dry	2024-03-07	
Lithium	7.14	0.10	mg/kg dry	2024-03-07	
Magnesium	4090	10	mg/kg dry	2024-03-07	
Manganese	310	0.40	mg/kg dry	2024-03-07	
Mercury	0.079	0.040	mg/kg dry	2024-03-07	
Molybdenum	1.12	0.10	mg/kg dry	2024-03-07	
Nickel	15.1	0.60	mg/kg dry	2024-03-07	
Phosphorus	499	10	mg/kg dry	2024-03-07	
Potassium	737	40	mg/kg dry	2024-03-07	
Selenium	0.28	0.20	mg/kg dry	2024-03-07	
Silver	0.26	0.10	mg/kg dry	2024-03-07	
Sodium	326	50	mg/kg dry	2024-03-07	
Strontium	40.5	0.20	mg/kg dry	2024-03-07	
Sulfur	< 1000	1000	mg/kg dry	2024-03-07	
Tellurium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thallium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thorium	1.08	0.50	mg/kg dry	2024-03-07	
Tin	2.02	0.20	mg/kg dry	2024-03-07	
Titanium	854	1.0	mg/kg dry	2024-03-07	
Tungsten	< 0.20	0.20	mg/kg dry	2024-03-07	

TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
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WORK ORDER REPORTED 24B3024
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Analyte	Result	RL	Units	Analyzed	Qualifier
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TP3 10.0 (24B3024-06) | Matrix: Soil | Sampled: 2024-02-28, Continued

Strong Acid Leachable Metals, Continued

Uranium	0.399	0.050	mg/kg dry	2024-03-07	
Vanadium	50.0	1.0	mg/kg dry	2024-03-07	
Zinc	79.0	2.0	mg/kg dry	2024-03-07	
Zirconium	2.3	2.0	mg/kg dry	2024-03-07	

Volatile Organic Compounds (VOC)

Benzene	< 0.030	0.030	mg/kg dry	2024-03-04	
Ethylbenzene	< 0.050	0.050	mg/kg dry	2024-03-04	
Methyl tert-butyl ether	< 0.040	0.040	mg/kg dry	2024-03-04	
Styrene	< 0.050	0.050	mg/kg dry	2024-03-04	
Toluene	< 0.200	0.200	mg/kg dry	2024-03-04	
Xylenes (total)	< 0.100	0.100	mg/kg dry	2024-03-04	
Surrogate: Toluene-d8	77	60-140	%	2024-03-04	
Surrogate: 4-Bromofluorobenzene	109	60-140	%	2024-03-04	
Surrogate: 1,4-Dichlorobenzene-d4	114	60-140	%	2024-03-04	

TP4 4.0 (24B3024-07) | Matrix: Soil | Sampled: 2024-02-28

BCMOE Aggregate Hydrocarbons

VHs (6-10)	< 20	20	mg/kg dry	2024-03-04	
VPHs	< 20	20	mg/kg dry	N/A	
EPHs10-19	< 50	50	mg/kg dry	2024-03-04	
EPHs19-32	300	50	mg/kg dry	2024-03-04	
LEPHs	< 50	50	mg/kg dry	N/A	
HEPHs	300	50	mg/kg dry	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	93	60-140	%	2024-03-04	

General Parameters

Moisture	19.5	1.0	% wet	2024-03-05	
pH (1:2 H2O Solution)	7.52	0.10	pH units	2024-03-06	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	0.059	0.050	mg/kg dry	2024-03-04	
Acenaphthylene	< 0.050	0.050	mg/kg dry	2024-03-04	
Anthracene	< 0.050	0.050	mg/kg dry	2024-03-04	
Benz(a)anthracene	0.087	0.050	mg/kg dry	2024-03-04	
Benzo(a)pyrene	0.121	0.050	mg/kg dry	2024-03-04	
Benzo(b)fluoranthene	0.072	0.050	mg/kg dry	2024-03-04	
Benzo(b+j)fluoranthene	0.130	0.050	mg/kg dry	2024-03-04	
Benzo(g,h,i)perylene	0.103	0.050	mg/kg dry	2024-03-04	
Benzo(k)fluoranthene	< 0.050	0.050	mg/kg dry	2024-03-04	
2-Chloronaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Chrysene	0.095	0.050	mg/kg dry	2024-03-04	
Dibenz(a,h)anthracene	< 0.050	0.050	mg/kg dry	2024-03-04	

TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
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Analyte	Result	RL	Units	Analyzed	Qualifier
TP4 4.0 (24B3024-07) Matrix: Soil Sampled: 2024-02-28, Continued					
Polycyclic Aromatic Hydrocarbons (PAH), Continued					
Fluoranthene	0.205	0.050	mg/kg dry	2024-03-04	
Fluorene	< 0.050	0.050	mg/kg dry	2024-03-04	
Indeno(1,2,3-cd)pyrene	0.054	0.050	mg/kg dry	2024-03-04	
1-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
2-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Naphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Phenanthrene	0.142	0.050	mg/kg dry	2024-03-04	
Pyrene	0.242	0.050	mg/kg dry	2024-03-04	
Quinoline	< 0.050	0.050	mg/kg dry	2024-03-04	
Surrogate: Acenaphthene-d10	100	50-140	%	2024-03-04	
Surrogate: Chrysene-d12	98	50-140	%	2024-03-04	
Surrogate: Naphthalene-d8	92	50-140	%	2024-03-04	
Surrogate: Perylene-d12	97	50-140	%	2024-03-04	
Surrogate: Phenanthrene-d10	107	55-140	%	2024-03-04	
Salinity Parameters (Sat. Paste Extract)					
Saturation	27.4	1.0	%	2024-03-05	
Chloride, Saturated Paste.	< 25	25	mg/kg dry	2024-03-05	
Sodium, Saturated Paste.	6.9	1.0	mg/kg dry	2024-03-05	
Strong Acid Leachable Metals					
Aluminum	17300	40	mg/kg dry	2024-03-07	
Antimony	0.47	0.10	mg/kg dry	2024-03-07	
Arsenic	3.38	0.30	mg/kg dry	2024-03-07	
Barium	64.9	1.0	mg/kg dry	2024-03-07	
Beryllium	0.24	0.10	mg/kg dry	2024-03-07	
Bismuth	< 0.10	0.10	mg/kg dry	2024-03-07	
Boron	3.9	2.0	mg/kg dry	2024-03-07	
Cadmium	0.324	0.040	mg/kg dry	2024-03-07	
Calcium	5430	100	mg/kg dry	2024-03-07	
Chromium	16.9	1.0	mg/kg dry	2024-03-07	
Cobalt	6.77	0.10	mg/kg dry	2024-03-07	
Copper	26.1	0.40	mg/kg dry	2024-03-07	
Iron	19200	20.0	mg/kg dry	2024-03-07	
Lead	20.6	0.20	mg/kg dry	2024-03-07	
Lithium	7.33	0.10	mg/kg dry	2024-03-07	
Magnesium	4050	10	mg/kg dry	2024-03-07	
Manganese	293	0.40	mg/kg dry	2024-03-07	
Mercury	0.089	0.040	mg/kg dry	2024-03-07	
Molybdenum	0.90	0.10	mg/kg dry	2024-03-07	
Nickel	13.8	0.60	mg/kg dry	2024-03-07	
Phosphorus	497	10	mg/kg dry	2024-03-07	
Potassium	649	40	mg/kg dry	2024-03-07	
Selenium	0.31	0.20	mg/kg dry	2024-03-07	

TEST RESULTS

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Analyte	Result	RL	Units	Analyzed	Qualifier
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TP4 4.0 (24B3024-07) | Matrix: Soil | Sampled: 2024-02-28, Continued

Strong Acid Leachable Metals, Continued

Silver	0.14	0.10	mg/kg dry	2024-03-07	
Sodium	302	50	mg/kg dry	2024-03-07	
Strontium	34.7	0.20	mg/kg dry	2024-03-07	
Sulfur	< 1000	1000	mg/kg dry	2024-03-07	
Tellurium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thallium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thorium	1.08	0.50	mg/kg dry	2024-03-07	
Tin	2.24	0.20	mg/kg dry	2024-03-07	
Titanium	838	1.0	mg/kg dry	2024-03-07	
Tungsten	0.28	0.20	mg/kg dry	2024-03-07	
Uranium	0.386	0.050	mg/kg dry	2024-03-07	
Vanadium	50.5	1.0	mg/kg dry	2024-03-07	
Zinc	195	2.0	mg/kg dry	2024-03-07	
Zirconium	2.0	2.0	mg/kg dry	2024-03-07	

Volatile Organic Compounds (VOC)

Benzene	< 0.030	0.030	mg/kg dry	2024-03-04	
Ethylbenzene	< 0.050	0.050	mg/kg dry	2024-03-04	
Methyl tert-butyl ether	< 0.040	0.040	mg/kg dry	2024-03-04	
Styrene	< 0.050	0.050	mg/kg dry	2024-03-04	
Toluene	< 0.200	0.200	mg/kg dry	2024-03-04	
Xylenes (total)	< 0.100	0.100	mg/kg dry	2024-03-04	
Surrogate: Toluene-d8	85	60-140	%	2024-03-04	
Surrogate: 4-Bromofluorobenzene	120	60-140	%	2024-03-04	
Surrogate: 1,4-Dichlorobenzene-d4	124	60-140	%	2024-03-04	

TP4 15.0 (24B3024-08) | Matrix: Soil | Sampled: 2024-02-28

BCMOE Aggregate Hydrocarbons

VHs (6-10)	< 20	20	mg/kg dry	2024-03-04	
VPHs	< 20	20	mg/kg dry	N/A	
EPHs10-19	< 50	50	mg/kg dry	2024-03-04	
EPHs19-32	150	50	mg/kg dry	2024-03-04	
LEPHs	< 50	50	mg/kg dry	N/A	
HEPHs	150	50	mg/kg dry	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	92	60-140	%	2024-03-04	

General Parameters

Moisture	18.4	1.0	% wet	2024-03-05	
pH (1:2 H2O Solution)	7.80	0.10	pH units	2024-03-06	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	0.050	mg/kg dry	2024-03-04	
Acenaphthylene	< 0.050	0.050	mg/kg dry	2024-03-04	

TEST RESULTS

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Analyte	Result	RL	Units	Analyzed	Qualifier
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TP4 15.0 (24B3024-08) | Matrix: Soil | Sampled: 2024-02-28, Continued

Polycyclic Aromatic Hydrocarbons (PAH), Continued

Anthracene	0.057	0.050	mg/kg dry	2024-03-04	
Benz(a)anthracene	0.110	0.050	mg/kg dry	2024-03-04	
Benzo(a)pyrene	0.149	0.050	mg/kg dry	2024-03-04	
Benzo(b)fluoranthene	0.094	0.050	mg/kg dry	2024-03-04	
Benzo(b+j)fluoranthene	0.153	0.050	mg/kg dry	2024-03-04	
Benzo(g,h,i)perylene	0.094	0.050	mg/kg dry	2024-03-04	
Benzo(k)fluoranthene	0.066	0.050	mg/kg dry	2024-03-04	
2-Chloronaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Chrysene	0.130	0.050	mg/kg dry	2024-03-04	
Dibenz(a,h)anthracene	< 0.050	0.050	mg/kg dry	2024-03-04	
Fluoranthene	0.262	0.050	mg/kg dry	2024-03-04	
Fluorene	< 0.050	0.050	mg/kg dry	2024-03-04	
Indeno(1,2,3-cd)pyrene	0.068	0.050	mg/kg dry	2024-03-04	
1-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
2-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Naphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Phenanthrene	0.171	0.050	mg/kg dry	2024-03-04	
Pyrene	0.263	0.050	mg/kg dry	2024-03-04	
Quinoline	< 0.050	0.050	mg/kg dry	2024-03-04	
Surrogate: Acenaphthene-d10	100	50-140	%	2024-03-04	
Surrogate: Chrysene-d12	88	50-140	%	2024-03-04	
Surrogate: Naphthalene-d8	92	50-140	%	2024-03-04	
Surrogate: Perylene-d12	90	50-140	%	2024-03-04	
Surrogate: Phenanthrene-d10	103	55-140	%	2024-03-04	

Salinity Parameters (Sat. Paste Extract)

Saturation	29.7	1.0	%	2024-03-05	
Chloride, Saturated Paste.	< 25	25	mg/kg dry	2024-03-05	
Sodium, Saturated Paste.	7.3	1.0	mg/kg dry	2024-03-05	

Strong Acid Leachable Metals

Aluminum	15600	40	mg/kg dry	2024-03-07	
Antimony	0.52	0.10	mg/kg dry	2024-03-07	
Arsenic	3.59	0.30	mg/kg dry	2024-03-07	
Barium	67.3	1.0	mg/kg dry	2024-03-07	
Beryllium	0.22	0.10	mg/kg dry	2024-03-07	
Bismuth	< 0.10	0.10	mg/kg dry	2024-03-07	
Boron	4.2	2.0	mg/kg dry	2024-03-07	
Cadmium	0.204	0.040	mg/kg dry	2024-03-07	
Calcium	6750	100	mg/kg dry	2024-03-07	
Chromium	16.7	1.0	mg/kg dry	2024-03-07	
Cobalt	6.74	0.10	mg/kg dry	2024-03-07	
Copper	27.8	0.40	mg/kg dry	2024-03-07	
Iron	19800	20.0	mg/kg dry	2024-03-07	

TEST RESULTS

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Analyte	Result	RL	Units	Analyzed	Qualifier
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TP4 15.0 (24B3024-08) | Matrix: Soil | Sampled: 2024-02-28, Continued

Strong Acid Leachable Metals, Continued

Lead	23.8	0.20	mg/kg dry	2024-03-07	
Lithium	6.58	0.10	mg/kg dry	2024-03-07	
Magnesium	4500	10	mg/kg dry	2024-03-07	
Manganese	299	0.40	mg/kg dry	2024-03-07	
Mercury	0.106	0.040	mg/kg dry	2024-03-07	
Molybdenum	0.91	0.10	mg/kg dry	2024-03-07	
Nickel	14.5	0.60	mg/kg dry	2024-03-07	
Phosphorus	597	10	mg/kg dry	2024-03-07	
Potassium	720	40	mg/kg dry	2024-03-07	
Selenium	0.22	0.20	mg/kg dry	2024-03-07	
Silver	< 0.10	0.10	mg/kg dry	2024-03-07	
Sodium	319	50	mg/kg dry	2024-03-07	
Strontium	38.7	0.20	mg/kg dry	2024-03-07	
Sulfur	< 1000	1000	mg/kg dry	2024-03-07	
Tellurium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thallium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thorium	1.07	0.50	mg/kg dry	2024-03-07	
Tin	0.84	0.20	mg/kg dry	2024-03-07	
Titanium	860	1.0	mg/kg dry	2024-03-07	
Tungsten	0.20	0.20	mg/kg dry	2024-03-07	
Uranium	0.438	0.050	mg/kg dry	2024-03-07	
Vanadium	52.1	1.0	mg/kg dry	2024-03-07	
Zinc	69.3	2.0	mg/kg dry	2024-03-07	
Zirconium	2.3	2.0	mg/kg dry	2024-03-07	

Volatile Organic Compounds (VOC)

Benzene	0.035	0.030	mg/kg dry	2024-03-04	
Ethylbenzene	< 0.050	0.050	mg/kg dry	2024-03-04	
Methyl tert-butyl ether	< 0.040	0.040	mg/kg dry	2024-03-04	
Styrene	< 0.050	0.050	mg/kg dry	2024-03-04	
Toluene	< 0.200	0.200	mg/kg dry	2024-03-04	
Xylenes (total)	< 0.100	0.100	mg/kg dry	2024-03-04	
Surrogate: Toluene-d8	89	60-140	%	2024-03-04	
Surrogate: 4-Bromofluorobenzene	118	60-140	%	2024-03-04	
Surrogate: 1,4-Dichlorobenzene-d4	125	60-140	%	2024-03-04	

TP5 3.0 (24B3024-09) | Matrix: Soil | Sampled: 2024-02-28

BCMOE Aggregate Hydrocarbons

VHs (6-10)	< 20	20	mg/kg dry	2024-03-04	
VPHs	< 20	20	mg/kg dry	N/A	
EPHs10-19	< 50	50	mg/kg dry	2024-03-04	
EPHs19-32	81	50	mg/kg dry	2024-03-04	

TEST RESULTS

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Analyte	Result	RL	Units	Analyzed	Qualifier
TP5 3.0 (24B3024-09) Matrix: Soil Sampled: 2024-02-28, Continued					
BCMOE Aggregate Hydrocarbons, Continued					
LEPHs	< 50	50	mg/kg dry	N/A	
HEPHs	81	50	mg/kg dry	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	94	60-140	%	2024-03-04	
General Parameters					
Moisture	18.1	1.0	% wet	2024-03-05	
pH (1:2 H2O Solution)	7.64	0.10	pH units	2024-03-06	
Polycyclic Aromatic Hydrocarbons (PAH)					
Acenaphthene	< 0.050	0.050	mg/kg dry	2024-03-04	
Acenaphthylene	< 0.050	0.050	mg/kg dry	2024-03-04	
Anthracene	< 0.050	0.050	mg/kg dry	2024-03-04	
Benz(a)anthracene	< 0.050	0.050	mg/kg dry	2024-03-04	
Benzo(a)pyrene	0.057	0.050	mg/kg dry	2024-03-04	
Benzo(b)fluoranthene	< 0.050	0.050	mg/kg dry	2024-03-04	
Benzo(b+j)fluoranthene	0.065	0.050	mg/kg dry	2024-03-04	
Benzo(g,h,i)perylene	< 0.050	0.050	mg/kg dry	2024-03-04	
Benzo(k)fluoranthene	< 0.050	0.050	mg/kg dry	2024-03-04	
2-Chloronaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Chrysene	< 0.050	0.050	mg/kg dry	2024-03-04	
Dibenz(a,h)anthracene	< 0.050	0.050	mg/kg dry	2024-03-04	
Fluoranthene	0.088	0.050	mg/kg dry	2024-03-04	
Fluorene	< 0.050	0.050	mg/kg dry	2024-03-04	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	mg/kg dry	2024-03-04	
1-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
2-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Naphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Phenanthrene	< 0.050	0.050	mg/kg dry	2024-03-04	
Pyrene	0.099	0.050	mg/kg dry	2024-03-04	
Quinoline	< 0.050	0.050	mg/kg dry	2024-03-04	
Surrogate: Acenaphthene-d10	101	50-140	%	2024-03-04	
Surrogate: Chrysene-d12	91	50-140	%	2024-03-04	
Surrogate: Naphthalene-d8	92	50-140	%	2024-03-04	
Surrogate: Perylene-d12	93	50-140	%	2024-03-04	
Surrogate: Phenanthrene-d10	105	55-140	%	2024-03-04	
Salinity Parameters (Sat. Paste Extract)					
Saturation	27.7	1.0	%	2024-03-05	
Chloride, Saturated Paste.	< 25	25	mg/kg dry	2024-03-05	
Sodium, Saturated Paste.	1.1	1.0	mg/kg dry	2024-03-05	
Strong Acid Leachable Metals					
Aluminum	16300	40	mg/kg dry	2024-03-07	
Antimony	0.54	0.10	mg/kg dry	2024-03-07	

TEST RESULTS

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Analyte	Result	RL	Units	Analyzed	Qualifier
TP5 3.0 (24B3024-09) Matrix: Soil Sampled: 2024-02-28, Continued					
Strong Acid Leachable Metals, Continued					
Arsenic	3.26	0.30	mg/kg dry	2024-03-07	
Barium	75.1	1.0	mg/kg dry	2024-03-07	
Beryllium	0.25	0.10	mg/kg dry	2024-03-07	
Bismuth	< 0.10	0.10	mg/kg dry	2024-03-07	
Boron	3.4	2.0	mg/kg dry	2024-03-07	
Cadmium	0.169	0.040	mg/kg dry	2024-03-07	
Calcium	7310	100	mg/kg dry	2024-03-07	
Chromium	16.7	1.0	mg/kg dry	2024-03-07	
Cobalt	7.06	0.10	mg/kg dry	2024-03-07	
Copper	28.1	0.40	mg/kg dry	2024-03-07	
Iron	19200	20.0	mg/kg dry	2024-03-07	
Lead	22.7	0.20	mg/kg dry	2024-03-07	
Lithium	7.31	0.10	mg/kg dry	2024-03-07	
Magnesium	4280	10	mg/kg dry	2024-03-07	
Manganese	274	0.40	mg/kg dry	2024-03-07	
Mercury	0.119	0.040	mg/kg dry	2024-03-07	
Molybdenum	1.05	0.10	mg/kg dry	2024-03-07	
Nickel	13.8	0.60	mg/kg dry	2024-03-07	
Phosphorus	470	10	mg/kg dry	2024-03-07	
Potassium	759	40	mg/kg dry	2024-03-07	
Selenium	< 0.20	0.20	mg/kg dry	2024-03-07	
Silver	0.14	0.10	mg/kg dry	2024-03-07	
Sodium	335	50	mg/kg dry	2024-03-07	
Strontium	39.9	0.20	mg/kg dry	2024-03-07	
Sulfur	< 1000	1000	mg/kg dry	2024-03-07	
Tellurium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thallium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thorium	1.14	0.50	mg/kg dry	2024-03-07	
Tin	1.40	0.20	mg/kg dry	2024-03-07	
Titanium	881	1.0	mg/kg dry	2024-03-07	
Tungsten	< 0.20	0.20	mg/kg dry	2024-03-07	
Uranium	0.396	0.050	mg/kg dry	2024-03-07	
Vanadium	50.9	1.0	mg/kg dry	2024-03-07	
Zinc	62.1	2.0	mg/kg dry	2024-03-07	
Zirconium	2.7	2.0	mg/kg dry	2024-03-07	
Volatile Organic Compounds (VOC)					
Benzene	< 0.030	0.030	mg/kg dry	2024-03-04	
Ethylbenzene	< 0.050	0.050	mg/kg dry	2024-03-04	
Methyl tert-butyl ether	< 0.040	0.040	mg/kg dry	2024-03-04	
Styrene	< 0.050	0.050	mg/kg dry	2024-03-04	
Toluene	< 0.200	0.200	mg/kg dry	2024-03-04	
Xylenes (total)	< 0.100	0.100	mg/kg dry	2024-03-04	

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Analyte	Result	RL	Units	Analyzed	Qualifier
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TP5 3.0 (24B3024-09) | Matrix: Soil | Sampled: 2024-02-28, Continued

Volatile Organic Compounds (VOC), Continued

Surrogate: Toluene-d8	83	60-140	%	2024-03-04	
Surrogate: 4-Bromofluorobenzene	110	60-140	%	2024-03-04	
Surrogate: 1,4-Dichlorobenzene-d4	121	60-140	%	2024-03-04	

TP5 10.0 (24B3024-10) | Matrix: Soil | Sampled: 2024-02-28

BCMOE Aggregate Hydrocarbons

VHs (6-10)	< 20	20	mg/kg dry	2024-03-04	
VPHs	< 20	20	mg/kg dry	N/A	
EPHs10-19	< 50	50	mg/kg dry	2024-03-04	
EPHs19-32	150	50	mg/kg dry	2024-03-04	
LEPHs	< 50	50	mg/kg dry	N/A	
HEPHs	150	50	mg/kg dry	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	90	60-140	%	2024-03-04	

General Parameters

Moisture	19.1	1.0	% wet	2024-03-05	
pH (1:2 H2O Solution)	7.74	0.10	pH units	2024-03-06	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	0.050	mg/kg dry	2024-03-04	
Acenaphthylene	0.119	0.050	mg/kg dry	2024-03-04	
Anthracene	0.206	0.050	mg/kg dry	2024-03-04	
Benz(a)anthracene	0.437	0.050	mg/kg dry	2024-03-04	
Benzo(a)pyrene	0.395	0.050	mg/kg dry	2024-03-04	
Benzo(b)fluoranthene	0.289	0.050	mg/kg dry	2024-03-04	
Benzo(b+j)fluoranthene	0.512	0.050	mg/kg dry	2024-03-04	
Benzo(g,h,i)perylene	0.234	0.050	mg/kg dry	2024-03-04	
Benzo(k)fluoranthene	0.140	0.050	mg/kg dry	2024-03-04	
2-Chloronaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Chrysene	0.439	0.050	mg/kg dry	2024-03-04	
Dibenz(a,h)anthracene	0.059	0.050	mg/kg dry	2024-03-04	
Fluoranthene	1.11	0.050	mg/kg dry	2024-03-04	
Fluorene	< 0.050	0.050	mg/kg dry	2024-03-04	
Indeno(1,2,3-cd)pyrene	0.190	0.050	mg/kg dry	2024-03-04	
1-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
2-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Naphthalene	< 0.050	0.050	mg/kg dry	2024-03-04	
Phenanthrene	0.502	0.050	mg/kg dry	2024-03-04	
Pyrene	0.967	0.050	mg/kg dry	2024-03-04	
Quinoline	< 0.050	0.050	mg/kg dry	2024-03-04	
Surrogate: Acenaphthene-d10	97	50-140	%	2024-03-04	
Surrogate: Chrysene-d12	87	50-140	%	2024-03-04	

TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
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Analyte	Result	RL	Units	Analyzed	Qualifier
TP5 10.0 (24B3024-10) Matrix: Soil Sampled: 2024-02-28, Continued					
Polycyclic Aromatic Hydrocarbons (PAH), Continued					
Surrogate: Naphthalene-d8	89	50-140	%	2024-03-04	
Surrogate: Perylene-d12	90	50-140	%	2024-03-04	
Surrogate: Phenanthrene-d10	100	55-140	%	2024-03-04	
Salinity Parameters (Sat. Paste Extract)					
Saturation	34.7	1.0	%	2024-03-05	
Chloride, Saturated Paste.	< 25	25	mg/kg dry	2024-03-05	
Sodium, Saturated Paste.	9.9	1.0	mg/kg dry	2024-03-05	
Strong Acid Leachable Metals					
Aluminum	17000	40	mg/kg dry	2024-03-07	
Antimony	4.36	0.10	mg/kg dry	2024-03-07	
Arsenic	6.91	0.30	mg/kg dry	2024-03-07	
Barium	70.8	1.0	mg/kg dry	2024-03-07	
Beryllium	0.25	0.10	mg/kg dry	2024-03-07	
Bismuth	< 0.10	0.10	mg/kg dry	2024-03-07	
Boron	3.8	2.0	mg/kg dry	2024-03-07	
Cadmium	0.247	0.040	mg/kg dry	2024-03-07	
Calcium	6730	100	mg/kg dry	2024-03-07	
Chromium	20.6	1.0	mg/kg dry	2024-03-07	
Cobalt	7.13	0.10	mg/kg dry	2024-03-07	
Copper	30.1	0.40	mg/kg dry	2024-03-07	
Iron	19300	20.0	mg/kg dry	2024-03-07	
Lead	27.8	0.20	mg/kg dry	2024-03-07	
Lithium	6.75	0.10	mg/kg dry	2024-03-07	
Magnesium	4300	10	mg/kg dry	2024-03-07	
Manganese	324	0.40	mg/kg dry	2024-03-07	
Mercury	0.096	0.040	mg/kg dry	2024-03-07	
Molybdenum	1.44	0.10	mg/kg dry	2024-03-07	
Nickel	15.1	0.60	mg/kg dry	2024-03-07	
Phosphorus	491	10	mg/kg dry	2024-03-07	
Potassium	695	40	mg/kg dry	2024-03-07	
Selenium	0.25	0.20	mg/kg dry	2024-03-07	
Silver	0.13	0.10	mg/kg dry	2024-03-07	
Sodium	297	50	mg/kg dry	2024-03-07	
Strontium	37.3	0.20	mg/kg dry	2024-03-07	
Sulfur	< 1000	1000	mg/kg dry	2024-03-07	
Tellurium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thallium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thorium	1.15	0.50	mg/kg dry	2024-03-07	
Tin	3.00	0.20	mg/kg dry	2024-03-07	
Titanium	818	1.0	mg/kg dry	2024-03-07	
Tungsten	< 0.20	0.20	mg/kg dry	2024-03-07	
Uranium	0.404	0.050	mg/kg dry	2024-03-07	

TEST RESULTS

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Analyte	Result	RL	Units	Analyzed	Qualifier
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TP5 10.0 (24B3024-10) | Matrix: Soil | Sampled: 2024-02-28, Continued

Strong Acid Leachable Metals, Continued

Vanadium	50.1	1.0	mg/kg dry	2024-03-07	
Zinc	74.5	2.0	mg/kg dry	2024-03-07	
Zirconium	2.4	2.0	mg/kg dry	2024-03-07	

Volatile Organic Compounds (VOC)

Benzene	< 0.030	0.030	mg/kg dry	2024-03-04	
Ethylbenzene	< 0.050	0.050	mg/kg dry	2024-03-04	
Methyl tert-butyl ether	< 0.040	0.040	mg/kg dry	2024-03-04	
Styrene	< 0.050	0.050	mg/kg dry	2024-03-04	
Toluene	< 0.200	0.200	mg/kg dry	2024-03-04	
Xylenes (total)	< 0.100	0.100	mg/kg dry	2024-03-04	
Surrogate: Toluene-d8	87	60-140	%	2024-03-04	
Surrogate: 4-Bromofluorobenzene	119	60-140	%	2024-03-04	
Surrogate: 1,4-Dichlorobenzene-d4	121	60-140	%	2024-03-04	

TP6 5.0 (24B3024-11) | Matrix: Soil | Sampled: 2024-02-28

BCMOE Aggregate Hydrocarbons

VHs (6-10)	< 20	20	mg/kg dry	2024-03-04	
VPHs	< 20	20	mg/kg dry	N/A	
EPHs10-19	< 50	50	mg/kg dry	2024-03-04	
EPHs19-32	61	50	mg/kg dry	2024-03-04	
LEPHs	< 50	50	mg/kg dry	N/A	
HEPHs	61	50	mg/kg dry	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	95	60-140	%	2024-03-04	

General Parameters

Moisture	14.6	1.0	% wet	2024-03-05	
pH (1:2 H2O Solution)	7.69	0.10	pH units	2024-03-06	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	0.050	mg/kg dry	2024-03-05	
Acenaphthylene	< 0.050	0.050	mg/kg dry	2024-03-05	
Anthracene	< 0.050	0.050	mg/kg dry	2024-03-05	
Benz(a)anthracene	< 0.050	0.050	mg/kg dry	2024-03-05	
Benzo(a)pyrene	0.057	0.050	mg/kg dry	2024-03-05	
Benzo(b)fluoranthene	< 0.050	0.050	mg/kg dry	2024-03-05	
Benzo(b+j)fluoranthene	0.050	0.050	mg/kg dry	2024-03-05	
Benzo(g,h,i)perylene	< 0.050	0.050	mg/kg dry	2024-03-05	
Benzo(k)fluoranthene	< 0.050	0.050	mg/kg dry	2024-03-05	
2-Chloronaphthalene	< 0.050	0.050	mg/kg dry	2024-03-05	
Chrysene	0.057	0.050	mg/kg dry	2024-03-05	
Dibenz(a,h)anthracene	< 0.050	0.050	mg/kg dry	2024-03-05	
Fluoranthene	0.090	0.050	mg/kg dry	2024-03-05	

TEST RESULTS

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Analyte	Result	RL	Units	Analyzed	Qualifier
TP6 5.0 (24B3024-11) Matrix: Soil Sampled: 2024-02-28, Continued					
Polycyclic Aromatic Hydrocarbons (PAH), Continued					
Fluorene	< 0.050	0.050	mg/kg dry	2024-03-05	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	mg/kg dry	2024-03-05	
1-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-05	
2-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-05	
Naphthalene	< 0.050	0.050	mg/kg dry	2024-03-05	
Phenanthrene	0.100	0.050	mg/kg dry	2024-03-05	
Pyrene	0.122	0.050	mg/kg dry	2024-03-05	
Quinoline	< 0.050	0.050	mg/kg dry	2024-03-05	
Surrogate: Acenaphthene-d10	98	50-140	%	2024-03-05	
Surrogate: Chrysene-d12	87	50-140	%	2024-03-05	
Surrogate: Naphthalene-d8	90	50-140	%	2024-03-05	
Surrogate: Perylene-d12	91	50-140	%	2024-03-05	
Surrogate: Phenanthrene-d10	102	55-140	%	2024-03-05	
Salinity Parameters (Sat. Paste Extract)					
Saturation	29.8	1.0	%	2024-03-05	
Chloride, Saturated Paste.	< 25	25	mg/kg dry	2024-03-05	
Sodium, Saturated Paste.	< 1.0	1.0	mg/kg dry	2024-03-05	
Strong Acid Leachable Metals					
Aluminum	14100	40	mg/kg dry	2024-03-07	
Antimony	0.29	0.10	mg/kg dry	2024-03-07	
Arsenic	2.85	0.30	mg/kg dry	2024-03-07	
Barium	56.4	1.0	mg/kg dry	2024-03-07	
Beryllium	0.19	0.10	mg/kg dry	2024-03-07	
Bismuth	< 0.10	0.10	mg/kg dry	2024-03-07	
Boron	2.9	2.0	mg/kg dry	2024-03-07	
Cadmium	0.095	0.040	mg/kg dry	2024-03-07	
Calcium	4280	100	mg/kg dry	2024-03-07	
Chromium	14.4	1.0	mg/kg dry	2024-03-07	
Cobalt	5.86	0.10	mg/kg dry	2024-03-07	
Copper	15.8	0.40	mg/kg dry	2024-03-07	
Iron	16700	20.0	mg/kg dry	2024-03-07	
Lead	8.77	0.20	mg/kg dry	2024-03-07	
Lithium	5.69	0.10	mg/kg dry	2024-03-07	
Magnesium	3540	10	mg/kg dry	2024-03-07	
Manganese	247	0.40	mg/kg dry	2024-03-07	
Mercury	0.043	0.040	mg/kg dry	2024-03-07	
Molybdenum	0.45	0.10	mg/kg dry	2024-03-07	
Nickel	11.4	0.60	mg/kg dry	2024-03-07	
Phosphorus	402	10	mg/kg dry	2024-03-07	
Potassium	549	40	mg/kg dry	2024-03-07	
Selenium	0.22	0.20	mg/kg dry	2024-03-07	
Silver	< 0.10	0.10	mg/kg dry	2024-03-07	

TEST RESULTS

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Analyte	Result	RL	Units	Analyzed	Qualifier
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TP6 5.0 (24B3024-11) | Matrix: Soil | Sampled: 2024-02-28, Continued

Strong Acid Leachable Metals, Continued

Sodium	238	50	mg/kg dry	2024-03-07	
Strontium	34.7	0.20	mg/kg dry	2024-03-07	
Sulfur	< 1000	1000	mg/kg dry	2024-03-07	
Tellurium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thallium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thorium	1.11	0.50	mg/kg dry	2024-03-07	
Tin	0.34	0.20	mg/kg dry	2024-03-07	
Titanium	759	1.0	mg/kg dry	2024-03-07	
Tungsten	< 0.20	0.20	mg/kg dry	2024-03-07	
Uranium	0.363	0.050	mg/kg dry	2024-03-07	
Vanadium	47.9	1.0	mg/kg dry	2024-03-07	
Zinc	35.3	2.0	mg/kg dry	2024-03-07	
Zirconium	2.5	2.0	mg/kg dry	2024-03-07	

Volatile Organic Compounds (VOC)

Benzene	< 0.030	0.030	mg/kg dry	2024-03-04	
Ethylbenzene	< 0.050	0.050	mg/kg dry	2024-03-04	
Methyl tert-butyl ether	0.056	0.040	mg/kg dry	2024-03-04	
Styrene	< 0.050	0.050	mg/kg dry	2024-03-04	
Toluene	< 0.200	0.200	mg/kg dry	2024-03-04	
Xylenes (total)	0.244	0.100	mg/kg dry	2024-03-04	
Surrogate: Toluene-d8	97	60-140	%	2024-03-04	
Surrogate: 4-Bromofluorobenzene	150	60-140	%	2024-03-04	S02
Surrogate: 1,4-Dichlorobenzene-d4	134	60-140	%	2024-03-04	

TP6 16.0 (24B3024-12) | Matrix: Soil | Sampled: 2024-02-28

BCMOE Aggregate Hydrocarbons

VHs (6-10)	< 20	20	mg/kg dry	2024-03-04	
VPHs	< 20	20	mg/kg dry	N/A	
EPHs10-19	< 50	50	mg/kg dry	2024-03-04	
EPHs19-32	120	50	mg/kg dry	2024-03-04	
LEPHs	< 50	50	mg/kg dry	N/A	
HEPHs	120	50	mg/kg dry	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	95	60-140	%	2024-03-04	

General Parameters

Moisture	17.9	1.0	% wet	2024-03-05	
pH (1:2 H2O Solution)	7.59	0.10	pH units	2024-03-06	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	0.050	mg/kg dry	2024-03-05	
Acenaphthylene	< 0.050	0.050	mg/kg dry	2024-03-05	
Anthracene	< 0.050	0.050	mg/kg dry	2024-03-05	

TEST RESULTS

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Analyte	Result	RL	Units	Analyzed	Qualifier
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TP6 16.0 (24B3024-12) | Matrix: Soil | Sampled: 2024-02-28, Continued

Polycyclic Aromatic Hydrocarbons (PAH), Continued

Benz(a)anthracene	0.069	0.050	mg/kg dry	2024-03-05	
Benzo(a)pyrene	0.092	0.050	mg/kg dry	2024-03-05	
Benzo(b)fluoranthene	0.057	0.050	mg/kg dry	2024-03-05	
Benzo(b+j)fluoranthene	0.094	0.050	mg/kg dry	2024-03-05	
Benzo(g,h,i)perylene	0.058	0.050	mg/kg dry	2024-03-05	
Benzo(k)fluoranthene	< 0.050	0.050	mg/kg dry	2024-03-05	
2-Chloronaphthalene	< 0.050	0.050	mg/kg dry	2024-03-05	
Chrysene	0.077	0.050	mg/kg dry	2024-03-05	
Dibenz(a,h)anthracene	< 0.050	0.050	mg/kg dry	2024-03-05	
Fluoranthene	0.171	0.050	mg/kg dry	2024-03-05	
Fluorene	< 0.050	0.050	mg/kg dry	2024-03-05	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	mg/kg dry	2024-03-05	
1-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-05	
2-Methylnaphthalene	< 0.050	0.050	mg/kg dry	2024-03-05	
Naphthalene	< 0.050	0.050	mg/kg dry	2024-03-05	
Phenanthrene	0.104	0.050	mg/kg dry	2024-03-05	
Pyrene	0.180	0.050	mg/kg dry	2024-03-05	
Quinoline	< 0.050	0.050	mg/kg dry	2024-03-05	
Surrogate: Acenaphthene-d10	100	50-140	%	2024-03-05	
Surrogate: Chrysene-d12	90	50-140	%	2024-03-05	
Surrogate: Naphthalene-d8	92	50-140	%	2024-03-05	
Surrogate: Perylene-d12	92	50-140	%	2024-03-05	
Surrogate: Phenanthrene-d10	103	55-140	%	2024-03-05	

Salinity Parameters (Sat. Paste Extract)

Saturation	35.9	1.0	%	2024-03-05	
Chloride, Saturated Paste.	< 25	25	mg/kg dry	2024-03-05	
Sodium, Saturated Paste.	10.6	1.0	mg/kg dry	2024-03-05	

Strong Acid Leachable Metals

Aluminum	17400	40	mg/kg dry	2024-03-07	
Antimony	0.43	0.10	mg/kg dry	2024-03-07	
Arsenic	3.61	0.30	mg/kg dry	2024-03-07	
Barium	76.6	1.0	mg/kg dry	2024-03-07	
Beryllium	0.25	0.10	mg/kg dry	2024-03-07	
Bismuth	< 0.10	0.10	mg/kg dry	2024-03-07	
Boron	3.8	2.0	mg/kg dry	2024-03-07	
Cadmium	0.195	0.040	mg/kg dry	2024-03-07	
Calcium	6060	100	mg/kg dry	2024-03-07	
Chromium	18.4	1.0	mg/kg dry	2024-03-07	
Cobalt	7.39	0.10	mg/kg dry	2024-03-07	
Copper	27.8	0.40	mg/kg dry	2024-03-07	
Iron	20200	20.0	mg/kg dry	2024-03-07	
Lead	20.7	0.20	mg/kg dry	2024-03-07	

TEST RESULTS

REPORTED TO PROJECT Alliance EHS Consulting
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Analyte	Result	RL	Units	Analyzed	Qualifier
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TP6 16.0 (24B3024-12) | Matrix: Soil | Sampled: 2024-02-28, Continued

Strong Acid Leachable Metals, Continued

Lithium	7.77	0.10	mg/kg dry	2024-03-07	
Magnesium	4430	10	mg/kg dry	2024-03-07	
Manganese	341	0.40	mg/kg dry	2024-03-07	
Mercury	0.097	0.040	mg/kg dry	2024-03-07	
Molybdenum	0.93	0.10	mg/kg dry	2024-03-07	
Nickel	18.7	0.60	mg/kg dry	2024-03-07	
Phosphorus	479	10	mg/kg dry	2024-03-07	
Potassium	794	40	mg/kg dry	2024-03-07	
Selenium	0.24	0.20	mg/kg dry	2024-03-07	
Silver	0.13	0.10	mg/kg dry	2024-03-07	
Sodium	309	50	mg/kg dry	2024-03-07	
Strontium	39.4	0.20	mg/kg dry	2024-03-07	
Sulfur	< 1000	1000	mg/kg dry	2024-03-07	
Tellurium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thallium	< 0.10	0.10	mg/kg dry	2024-03-07	
Thorium	1.26	0.50	mg/kg dry	2024-03-07	
Tin	1.32	0.20	mg/kg dry	2024-03-07	
Titanium	924	1.0	mg/kg dry	2024-03-07	
Tungsten	< 0.20	0.20	mg/kg dry	2024-03-07	
Uranium	0.456	0.050	mg/kg dry	2024-03-07	
Vanadium	52.6	1.0	mg/kg dry	2024-03-07	
Zinc	61.2	2.0	mg/kg dry	2024-03-07	
Zirconium	2.4	2.0	mg/kg dry	2024-03-07	

Volatile Organic Compounds (VOC)

Benzene	< 0.030	0.030	mg/kg dry	2024-03-04	
Ethylbenzene	< 0.050	0.050	mg/kg dry	2024-03-04	
Methyl tert-butyl ether	< 0.040	0.040	mg/kg dry	2024-03-04	
Styrene	< 0.050	0.050	mg/kg dry	2024-03-04	
Toluene	< 0.200	0.200	mg/kg dry	2024-03-04	
Xylenes (total)	< 0.100	0.100	mg/kg dry	2024-03-04	
Surrogate: Toluene-d8	92	60-140	%	2024-03-04	
Surrogate: 4-Bromofluorobenzene	124	60-140	%	2024-03-04	
Surrogate: 1,4-Dichlorobenzene-d4	127	60-140	%	2024-03-04	

Sample Qualifiers:

S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Alliance EHS Consulting
24094

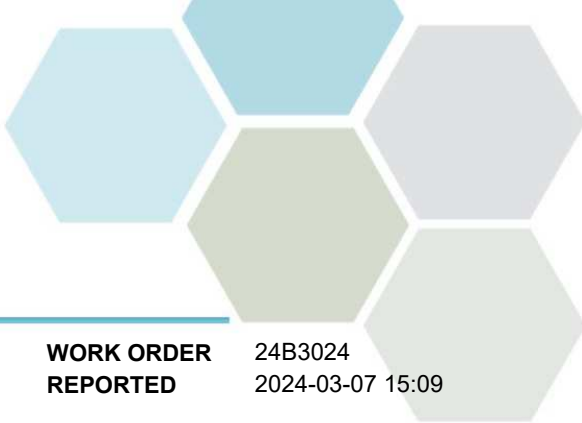
WORK ORDER REPORTED 24B3024
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Analysis Description	Method Ref.	Technique	Accredited	Location
BTEX in Soil	EPA 5035A/5030B / EPA 8260D	Methanol Extract, Purge&Trap / GC-MSD (SIM)	✓	Richmond
EPH in Soil	EPA 3570* / BCMOE EPHs*	Shaker Extraction (Hexane-Acetone 1:1) / Gas Chromatography (GC-FID)	✓	Richmond
HEPHs in Soil	BCMOE LEPH/HEPH	Calculation		N/A
LEPHs in Soil	BCMOE LEPH/HEPH	Calculation		N/A
Metals in Sat. Paste Extract in Soil	EPA 6020B	Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Moisture in Soil	ASTM D2974-87*	Gravimetry (Dried at 105C)		N/A
pH in Soil	Carter 16.2 / SM 4500-H+ B (2021)	1:2 Soil/Water Slurry / Electrometry	✓	Richmond
Polycyclic Aromatic Hydrocarbons in Soil	EPA 3570* / EPA 8270D	Shaker Extraction (Hexane-Acetone 1:1) / GC-MSD (SIM)	✓	Richmond
SALM in Soil	BCMOE SALM V.2 / EPA 6020B	HNO ₃ +HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Saturated Paste Extraction in Soil	Carter 18.2.2 / Carter 15.2.1	Saturated Paste Extraction / Calculation		Richmond
Saturated Paste, Chloride mg/kg in Soil	SM 4500-Cl- D* (2021)	Potentiometric Titration	✓	Richmond
VH in Soil	EPA 5035A/5030B / BCMOE VHs	Methanol Extract, Purge&Trap / Purge&Trap or Headspace, Gas Chromatography (GC-FID)	✓	Richmond
VPHs in Soil	BCMOE VPH	Calculation: VH - (Benzene + Toluene + Ethylbenzene + Xylenes + Styrene)		N/A

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
%	Percent
% wet	Percent (as received basis)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
mg/kg dry	Milligrams per kilogram (dry weight basis)
pH units	pH < 7 = acidic, pH > 7 = basic
ASTM	ASTM International Test Methods
BCMOE	British Columbia Environmental Laboratory Manual, British Columbia Ministry of Environment
Carter	Soil Sampling and Methods of Analysis, 2nd Edition (2007), Carter/Gregorich
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO	Alliance EHS Consulting	WORK ORDER	24B3024
PROJECT	24094	REPORTED	2024-03-07 15:09

General Comments:

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Caro will dispose of all samples within 30 days of sample receipt, unless otherwise agreed.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager:hhannaoui@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.

APPENDIX 2: QUALITY CONTROL RESULTS

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The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (BLK):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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BCMOE Aggregate Hydrocarbons, Batch B4C1334

Blank (B4C1334-BLK1)		Prepared: 2024-03-01, Analyzed: 2024-03-01							
EPHs10-19	< 50	50 mg/kg wet							
EPHs19-32	< 50	50 mg/kg wet							
Surrogate: 2-Methylnonane (EPH/F2-4)	69.9	mg/kg wet	75.7		92	60-140			
LCS (B4C1334-BS2)		Prepared: 2024-03-01, Analyzed: 2024-03-01							
EPHs10-19	2500	50 mg/kg wet	2690		93	70-130			
EPHs19-32	3100	50 mg/kg wet	3880		80	70-130			
Surrogate: 2-Methylnonane (EPH/F2-4)	72.2	mg/kg wet	77.0		94	60-140			

BCMOE Aggregate Hydrocarbons, Batch B4C1436

Blank (B4C1436-BLK1)		Prepared: 2024-03-04, Analyzed: 2024-03-04							
EPHs10-19	< 50	50 mg/kg wet							
EPHs19-32	< 50	50 mg/kg wet							
Surrogate: 2-Methylnonane (EPH/F2-4)	74.6	mg/kg wet	78.1		96	60-140			
Blank (B4C1436-BLK2)		Prepared: 2024-03-04, Analyzed: 2024-03-04							
EPHs10-19	< 50	50 mg/kg wet							
EPHs19-32	< 50	50 mg/kg wet							
Surrogate: 2-Methylnonane (EPH/F2-4)	74.1	mg/kg wet	79.4		93	60-140			
LCS (B4C1436-BS2)		Prepared: 2024-03-04, Analyzed: 2024-03-04							
EPHs10-19	2500	50 mg/kg wet	2820		90	70-130			
EPHs19-32	3200	50 mg/kg wet	4070		79	70-130			
Surrogate: 2-Methylnonane (EPH/F2-4)	69.3	mg/kg wet	80.7		86	60-140			
LCS (B4C1436-BS4)		Prepared: 2024-03-04, Analyzed: 2024-03-04							
EPHs10-19	2600	50 mg/kg wet	2800		92	70-130			
EPHs19-32	3300	50 mg/kg wet	4030		82	70-130			
Surrogate: 2-Methylnonane (EPH/F2-4)	69.4	mg/kg wet	80.0		87	60-140			

BCMOE Aggregate Hydrocarbons, Batch B4C1447

Blank (B4C1447-BLK1)		Prepared: 2024-03-04, Analyzed: 2024-03-04							
VHs (6-10)	< 20	20 mg/kg wet							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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BCMOE Aggregate Hydrocarbons, Batch B4C1447, Continued

LCS (B4C1447-BS2)			Prepared: 2024-03-04, Analyzed: 2024-03-04						
VHs (6-10)	330	20 mg/kg wet	342		96	70-130			
Duplicate (B4C1447-DUP1)			Source: 24B3024-01		Prepared: 2024-03-04, Analyzed: 2024-03-04				
VHs (6-10)	< 20	20 mg/kg dry		< 20				30	

General Parameters, Batch B4C1416

Duplicate (B4C1416-DUP1)			Source: 24B3024-09		Prepared: 2024-03-05, Analyzed: 2024-03-05				
Moisture	99.0	1.0 % wet		18.1			138.2	40	
Duplicate (B4C1416-DUP2)			Source: 24B3024-08		Prepared: 2024-03-05, Analyzed: 2024-03-05				
Moisture	99.0	1.0 % wet		18.4			137.3	40	

General Parameters, Batch B4C1709

Duplicate (B4C1709-DUP1)			Source: 24B3024-01		Prepared: 2024-03-06, Analyzed: 2024-03-06				
pH (1:2 H2O Solution)	8.03	0.10 pH units		7.88			2	4	
Reference (B4C1709-SRM1)			Prepared: 2024-03-06, Analyzed: 2024-03-06						
pH (1:2 H2O Solution)	11.44	0.10 pH units		11.4		101	95-105		
Reference (B4C1709-SRM2)			Prepared: 2024-03-06, Analyzed: 2024-03-06						
pH (1:2 H2O Solution)	11.36	0.10 pH units		11.4		100	95-105		

Polycyclic Aromatic Hydrocarbons (PAH), Batch B4C1334

Blank (B4C1334-BLK1)			Prepared: 2024-03-01, Analyzed: 2024-03-01						
Acenaphthene	< 0.050	0.050 mg/kg wet							
Acenaphthylene	< 0.050	0.050 mg/kg wet							
Anthracene	< 0.050	0.050 mg/kg wet							
Benz(a)anthracene	< 0.050	0.050 mg/kg wet							
Benzo(a)pyrene	< 0.050	0.050 mg/kg wet							
Benzo(b)fluoranthene	< 0.050	0.050 mg/kg wet							
Benzo(b+j)fluoranthene	< 0.050	0.050 mg/kg wet							
Benzo(g,h,i)perylene	< 0.050	0.050 mg/kg wet							
Benzo(k)fluoranthene	< 0.050	0.050 mg/kg wet							
2-Chloronaphthalene	< 0.050	0.050 mg/kg wet							
Chrysene	< 0.050	0.050 mg/kg wet							
Dibenz(a,h)anthracene	< 0.050	0.050 mg/kg wet							
Fluoranthene	< 0.050	0.050 mg/kg wet							
Fluorene	< 0.050	0.050 mg/kg wet							
Indeno(1,2,3-cd)pyrene	< 0.050	0.050 mg/kg wet							
1-Methylnaphthalene	< 0.050	0.050 mg/kg wet							
2-Methylnaphthalene	< 0.050	0.050 mg/kg wet							
Naphthalene	< 0.050	0.050 mg/kg wet							
Phenanthrene	< 0.050	0.050 mg/kg wet							
Pyrene	< 0.050	0.050 mg/kg wet							
Quinoline	< 0.050	0.050 mg/kg wet							
Surrogate: Acenaphthene-d10	0.710	mg/kg wet	0.763		93	50-140			
Surrogate: Chrysene-d12	0.944	mg/kg wet	0.763		124	50-140			
Surrogate: Naphthalene-d8	0.663	mg/kg wet	0.763		87	50-140			
Surrogate: Perylene-d12	0.771	mg/kg wet	0.763		101	50-140			
Surrogate: Phenanthrene-d10	0.743	mg/kg wet	0.763		97	55-140			

APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B4C1334, Continued									
LCS (B4C1334-BS1)					Prepared: 2024-03-01, Analyzed: 2024-03-01				
Acenaphthene	0.761	0.050 mg/kg wet	0.781		97	50-140			
Acenaphthylene	0.693	0.050 mg/kg wet	0.773		90	50-140			
Anthracene	0.774	0.050 mg/kg wet	0.781		99	50-140			
Benz(a)anthracene	0.813	0.050 mg/kg wet	0.781		104	50-140			
Benzo(a)pyrene	0.825	0.050 mg/kg wet	0.773		107	50-140			
Benzo(b)fluoranthene	0.779	0.050 mg/kg wet	0.773		101	50-140			
Benzo(b+j)fluoranthene	1.69	0.050 mg/kg wet	1.55		109	50-140			
Benzo(g,h,i)perylene	0.637	0.050 mg/kg wet	0.773		82	50-140			
Benzo(k)fluoranthene	0.719	0.050 mg/kg wet	0.777		93	50-140			
2-Chloronaphthalene	0.767	0.050 mg/kg wet	0.773		99	50-140			
Chrysene	0.932	0.050 mg/kg wet	0.769		121	50-140			
Dibenz(a,h)anthracene	0.531	0.050 mg/kg wet	0.785		68	50-140			
Fluoranthene	0.755	0.050 mg/kg wet	0.785		96	50-140			
Fluorene	0.742	0.050 mg/kg wet	0.801		93	50-140			
Indeno(1,2,3-cd)pyrene	0.686	0.050 mg/kg wet	0.773		89	50-140			
1-Methylnaphthalene	0.705	0.050 mg/kg wet	0.777		91	50-140			
2-Methylnaphthalene	0.735	0.050 mg/kg wet	0.777		95	50-140			
Naphthalene	0.714	0.050 mg/kg wet	0.777		92	50-140			
Phenanthrene	0.813	0.050 mg/kg wet	0.773		105	50-140			
Pyrene	0.745	0.050 mg/kg wet	0.785		95	50-140			
Quinoline	0.826	0.050 mg/kg wet	0.785		105	50-140			
Surrogate: Acenaphthene-d10	0.754	mg/kg wet	0.785		96	50-140			
Surrogate: Chrysene-d12	0.901	mg/kg wet	0.785		115	50-140			
Surrogate: Naphthalene-d8	0.715	mg/kg wet	0.785		91	50-140			
Surrogate: Perylene-d12	0.774	mg/kg wet	0.785		99	50-140			
Surrogate: Phenanthrene-d10	0.778	mg/kg wet	0.785		99	55-140			

Polycyclic Aromatic Hydrocarbons (PAH), Batch B4C1436

Blank (B4C1436-BLK1)					Prepared: 2024-03-04, Analyzed: 2024-03-04				
Acenaphthene	< 0.050	0.050 mg/kg wet							
Acenaphthylene	< 0.050	0.050 mg/kg wet							
Anthracene	< 0.050	0.050 mg/kg wet							
Benz(a)anthracene	< 0.050	0.050 mg/kg wet							
Benzo(a)pyrene	< 0.050	0.050 mg/kg wet							
Benzo(b)fluoranthene	< 0.050	0.050 mg/kg wet							
Benzo(b+j)fluoranthene	< 0.050	0.050 mg/kg wet							
Benzo(g,h,i)perylene	< 0.050	0.050 mg/kg wet							
Benzo(k)fluoranthene	< 0.050	0.050 mg/kg wet							
2-Chloronaphthalene	< 0.050	0.050 mg/kg wet							
Chrysene	< 0.050	0.050 mg/kg wet							
Dibenz(a,h)anthracene	< 0.050	0.050 mg/kg wet							
Fluoranthene	< 0.050	0.050 mg/kg wet							
Fluorene	< 0.050	0.050 mg/kg wet							
Indeno(1,2,3-cd)pyrene	< 0.050	0.050 mg/kg wet							
1-Methylnaphthalene	< 0.050	0.050 mg/kg wet							
2-Methylnaphthalene	< 0.050	0.050 mg/kg wet							
Naphthalene	< 0.050	0.050 mg/kg wet							
Phenanthrene	< 0.050	0.050 mg/kg wet							
Pyrene	< 0.050	0.050 mg/kg wet							
Quinoline	< 0.050	0.050 mg/kg wet							
Surrogate: Acenaphthene-d10	0.669	mg/kg wet	0.787		85	50-140			
Surrogate: Chrysene-d12	0.738	mg/kg wet	0.787		94	50-140			
Surrogate: Naphthalene-d8	0.608	mg/kg wet	0.787		77	50-140			
Surrogate: Perylene-d12	0.658	mg/kg wet	0.787		84	50-140			

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B4C1436, Continued									
Blank (B4C1436-BLK1), Continued				Prepared: 2024-03-04, Analyzed: 2024-03-04					
Surrogate: Phenanthrene-d10	0.698	mg/kg wet	0.787		89	55-140			
Blank (B4C1436-BLK2)				Prepared: 2024-03-04, Analyzed: 2024-03-04					
Acenaphthene	< 0.050	0.050 mg/kg wet							
Acenaphthylene	< 0.050	0.050 mg/kg wet							
Anthracene	< 0.050	0.050 mg/kg wet							
Benzo(a)anthracene	< 0.050	0.050 mg/kg wet							
Benzo(a)pyrene	< 0.050	0.050 mg/kg wet							
Benzo(b)fluoranthene	< 0.050	0.050 mg/kg wet							
Benzo(b+j)fluoranthene	< 0.050	0.050 mg/kg wet							
Benzo(g,h,i)perylene	< 0.050	0.050 mg/kg wet							
Benzo(k)fluoranthene	< 0.050	0.050 mg/kg wet							
2-Chloronaphthalene	< 0.050	0.050 mg/kg wet							
Chrysene	< 0.050	0.050 mg/kg wet							
Dibenz(a,h)anthracene	< 0.050	0.050 mg/kg wet							
Fluoranthene	< 0.050	0.050 mg/kg wet							
Fluorene	< 0.050	0.050 mg/kg wet							
Indeno(1,2,3-cd)pyrene	< 0.050	0.050 mg/kg wet							
1-Methylnaphthalene	< 0.050	0.050 mg/kg wet							
2-Methylnaphthalene	< 0.050	0.050 mg/kg wet							
Naphthalene	< 0.050	0.050 mg/kg wet							
Phenanthrene	< 0.050	0.050 mg/kg wet							
Pyrene	< 0.050	0.050 mg/kg wet							
Quinoline	< 0.050	0.050 mg/kg wet							
Surrogate: Acenaphthene-d10	0.714	mg/kg wet	0.800		89	50-140			
Surrogate: Chrysene-d12	0.783	mg/kg wet	0.800		98	50-140			
Surrogate: Naphthalene-d8	0.667	mg/kg wet	0.800		83	50-140			
Surrogate: Perylene-d12	0.686	mg/kg wet	0.800		86	50-140			
Surrogate: Phenanthrene-d10	0.737	mg/kg wet	0.800		92	55-140			
LCS (B4C1436-BS1)				Prepared: 2024-03-04, Analyzed: 2024-03-04					
Acenaphthene	0.729	0.050 mg/kg wet	0.822		89	50-140			
Acenaphthylene	0.677	0.050 mg/kg wet	0.814		83	50-140			
Anthracene	0.735	0.050 mg/kg wet	0.822		89	50-140			
Benzo(a)anthracene	0.657	0.050 mg/kg wet	0.822		80	50-140			
Benzo(a)pyrene	0.664	0.050 mg/kg wet	0.814		82	50-140			
Benzo(b)fluoranthene	0.821	0.050 mg/kg wet	0.814		101	50-140			
Benzo(b+j)fluoranthene	1.72	0.050 mg/kg wet	1.63		105	50-140			
Benzo(g,h,i)perylene	0.538	0.050 mg/kg wet	0.814		66	50-140			
Benzo(k)fluoranthene	0.563	0.050 mg/kg wet	0.818		69	50-140			
2-Chloronaphthalene	0.728	0.050 mg/kg wet	0.814		89	50-140			
Chrysene	0.719	0.050 mg/kg wet	0.810		89	50-140			
Dibenz(a,h)anthracene	0.520	0.050 mg/kg wet	0.826		63	50-140			
Fluoranthene	0.723	0.050 mg/kg wet	0.826		87	50-140			
Fluorene	0.714	0.050 mg/kg wet	0.843		85	50-140			
Indeno(1,2,3-cd)pyrene	0.553	0.050 mg/kg wet	0.814		68	50-140			
1-Methylnaphthalene	0.672	0.050 mg/kg wet	0.818		82	50-140			
2-Methylnaphthalene	0.693	0.050 mg/kg wet	0.818		85	50-140			
Naphthalene	0.674	0.050 mg/kg wet	0.818		82	50-140			
Phenanthrene	0.770	0.050 mg/kg wet	0.814		95	50-140			
Pyrene	0.711	0.050 mg/kg wet	0.826		86	50-140			
Quinoline	0.827	0.050 mg/kg wet	0.826		100	50-140			
Surrogate: Acenaphthene-d10	0.748	mg/kg wet	0.826		90	50-140			
Surrogate: Chrysene-d12	0.768	mg/kg wet	0.826		93	50-140			
Surrogate: Naphthalene-d8	0.700	mg/kg wet	0.826		85	50-140			
Surrogate: Perylene-d12	0.703	mg/kg wet	0.826		85	50-140			

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B4C1436, Continued									
LCS (B4C1436-BS1), Continued					Prepared: 2024-03-04, Analyzed: 2024-03-04				
Surrogate: Phenanthrene-d10	0.777	mg/kg wet	0.826		94	55-140			
LCS (B4C1436-BS3)					Prepared: 2024-03-04, Analyzed: 2024-03-04				
Acenaphthene	0.773	0.050 mg/kg wet	0.786		98	50-140			
Acenaphthylene	0.727	0.050 mg/kg wet	0.778		93	50-140			
Anthracene	0.780	0.050 mg/kg wet	0.786		99	50-140			
Benz(a)anthracene	0.722	0.050 mg/kg wet	0.786		92	50-140			
Benzo(a)pyrene	0.719	0.050 mg/kg wet	0.778		92	50-140			
Benzo(b)fluoranthene	0.713	0.050 mg/kg wet	0.778		92	50-140			
Benzo(b+j)fluoranthene	1.68	0.050 mg/kg wet	1.56		108	50-140			
Benzo(g,h,i)perylene	0.588	0.050 mg/kg wet	0.778		76	50-140			
Benzo(k)fluoranthene	0.611	0.050 mg/kg wet	0.782		78	50-140			
2-Chloronaphthalene	0.775	0.050 mg/kg wet	0.778		100	50-140			
Chrysene	0.773	0.050 mg/kg wet	0.774		100	50-140			
Dibenz(a,h)anthracene	0.556	0.050 mg/kg wet	0.790		70	50-140			
Fluoranthene	0.744	0.050 mg/kg wet	0.790		94	50-140			
Fluorene	0.764	0.050 mg/kg wet	0.806		95	50-140			
Indeno(1,2,3-cd)pyrene	0.510	0.050 mg/kg wet	0.778		66	50-140			
1-Methylnaphthalene	0.714	0.050 mg/kg wet	0.782		91	50-140			
2-Methylnaphthalene	0.749	0.050 mg/kg wet	0.782		96	50-140			
Naphthalene	0.718	0.050 mg/kg wet	0.782		92	50-140			
Phenanthrene	0.817	0.050 mg/kg wet	0.778		105	50-140			
Pyrene	0.753	0.050 mg/kg wet	0.790		95	50-140			
Quinoline	0.801	0.050 mg/kg wet	0.790		101	50-140			
Surrogate: Acenaphthene-d10	0.789	mg/kg wet	0.790		100	50-140			
Surrogate: Chrysene-d12	0.822	mg/kg wet	0.790		104	50-140			
Surrogate: Naphthalene-d8	0.747	mg/kg wet	0.790		95	50-140			
Surrogate: Perylene-d12	0.746	mg/kg wet	0.790		94	50-140			
Surrogate: Phenanthrene-d10	0.819	mg/kg wet	0.790		104	55-140			

Salinity Parameters (Sat. Paste Extract), Batch B4C1417

Blank (B4C1417-BLK1)					Prepared: 2024-03-04, Analyzed: 2024-03-05				
Saturation	50.0	1.0 %							
Reference (B4C1417-SRM1)					Prepared: 2024-03-04, Analyzed: 2024-03-05				
Saturation	33.5	1.0 %	31.8		105	60-140			

Salinity Parameters (Sat. Paste Extract), Batch B4C1528

Blank (B4C1528-BLK1)					Prepared: 2024-03-05, Analyzed: 2024-03-05				
Sodium, Saturated Paste.	< 1.0	1.0 mg/kg dry							
Duplicate (B4C1528-DUP1)					Source: 24B3024-11 Prepared: 2024-03-05, Analyzed: 2024-03-05				
Sodium, Saturated Paste.	< 1.0	1.0 mg/kg dry	< 1.0					26	
Reference (B4C1528-SRM1)					Prepared: 2024-03-05, Analyzed: 2024-03-05				
Sodium, Saturated Paste.	32.0	1.0 mg/kg dry	26.0		123	60-140			

Salinity Parameters (Sat. Paste Extract), Batch B4C1571

Blank (B4C1571-BLK1)					Prepared: 2024-03-05, Analyzed: 2024-03-05				
Chloride, Saturated Paste.	< 25	25 mg/kg dry							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Salinity Parameters (Sat. Paste Extract), Batch B4C1571, Continued

Duplicate (B4C1571-DUP1)		Source: 24B3024-11		Prepared: 2024-03-05, Analyzed: 2024-03-05					
Chloride, Saturated Paste.	< 25	25 mg/kg dry		< 25				24	
Reference (B4C1571-SRM1)				Prepared: 2024-03-05, Analyzed: 2024-03-05					
Chloride, Saturated Paste.	51	25 mg/kg dry	47.8		107	60-140			

Strong Acid Leachable Metals, Batch B4C1724

Blank (B4C1724-BLK1)		Prepared: 2024-03-07, Analyzed: 2024-03-07							
Aluminum	< 40	40 mg/kg dry							
Antimony	< 0.10	0.10 mg/kg dry							
Arsenic	< 0.30	0.30 mg/kg dry							
Barium	< 1.0	1.0 mg/kg dry							
Beryllium	< 0.10	0.10 mg/kg dry							
Bismuth	< 0.10	0.10 mg/kg dry							
Boron	< 2.0	2.0 mg/kg dry							
Cadmium	< 0.040	0.040 mg/kg dry							
Calcium	< 100	100 mg/kg dry							
Chromium	< 1.0	1.0 mg/kg dry							
Cobalt	< 0.10	0.10 mg/kg dry							
Copper	< 0.40	0.40 mg/kg dry							
Iron	< 20.0	20.0 mg/kg dry							
Lead	< 0.20	0.20 mg/kg dry							
Lithium	< 0.10	0.10 mg/kg dry							
Magnesium	< 10	10 mg/kg dry							
Manganese	< 0.40	0.40 mg/kg dry							
Mercury	< 0.040	0.040 mg/kg dry							
Molybdenum	< 0.10	0.10 mg/kg dry							
Nickel	< 0.60	0.60 mg/kg dry							
Phosphorus	< 10	10 mg/kg dry							
Potassium	< 40	40 mg/kg dry							
Selenium	< 0.20	0.20 mg/kg dry							
Silver	< 0.10	0.10 mg/kg dry							
Sodium	< 50	50 mg/kg dry							
Strontium	< 0.20	0.20 mg/kg dry							
Sulfur	< 1000	1000 mg/kg dry							
Tellurium	< 0.10	0.10 mg/kg dry							
Thallium	< 0.10	0.10 mg/kg dry							
Thorium	< 0.50	0.50 mg/kg dry							
Tin	< 0.20	0.20 mg/kg dry							
Titanium	< 1.0	1.0 mg/kg dry							
Tungsten	< 0.20	0.20 mg/kg dry							
Uranium	< 0.050	0.050 mg/kg dry							
Vanadium	< 1.0	1.0 mg/kg dry							
Zinc	< 2.0	2.0 mg/kg dry							
Zirconium	< 2.0	2.0 mg/kg dry							

Blank (B4C1724-BLK2)		Prepared: 2024-03-07, Analyzed: 2024-03-07							
Aluminum	< 40	40 mg/kg dry							
Antimony	< 0.10	0.10 mg/kg dry							
Arsenic	< 0.30	0.30 mg/kg dry							
Barium	< 1.0	1.0 mg/kg dry							
Beryllium	< 0.10	0.10 mg/kg dry							
Bismuth	< 0.10	0.10 mg/kg dry							
Boron	< 2.0	2.0 mg/kg dry							
Cadmium	< 0.040	0.040 mg/kg dry							
Calcium	< 100	100 mg/kg dry							

APPENDIX 2: QUALITY CONTROL RESULTS

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WORK ORDER REPORTED 24B3024
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Strong Acid Leachable Metals, Batch B4C1724, Continued

Blank (B4C1724-BLK2), Continued

Prepared: 2024-03-07, Analyzed: 2024-03-07

Chromium	< 1.0	1.0 mg/kg dry							
Cobalt	< 0.10	0.10 mg/kg dry							
Copper	< 0.40	0.40 mg/kg dry							
Iron	< 20.0	20.0 mg/kg dry							
Lead	< 0.20	0.20 mg/kg dry							
Lithium	< 0.10	0.10 mg/kg dry							
Magnesium	< 10	10 mg/kg dry							
Manganese	< 0.40	0.40 mg/kg dry							
Mercury	< 0.040	0.040 mg/kg dry							
Molybdenum	< 0.10	0.10 mg/kg dry							
Nickel	< 0.60	0.60 mg/kg dry							
Phosphorus	< 10	10 mg/kg dry							
Potassium	< 40	40 mg/kg dry							
Selenium	< 0.20	0.20 mg/kg dry							
Silver	< 0.10	0.10 mg/kg dry							
Sodium	< 50	50 mg/kg dry							
Strontium	< 0.20	0.20 mg/kg dry							
Sulfur	< 1000	1000 mg/kg dry							
Tellurium	< 0.10	0.10 mg/kg dry							
Thallium	< 0.10	0.10 mg/kg dry							
Thorium	< 0.50	0.50 mg/kg dry							
Tin	< 0.20	0.20 mg/kg dry							
Titanium	< 1.0	1.0 mg/kg dry							
Tungsten	< 0.20	0.20 mg/kg dry							
Uranium	< 0.050	0.050 mg/kg dry							
Vanadium	< 1.0	1.0 mg/kg dry							
Zinc	< 2.0	2.0 mg/kg dry							
Zirconium	< 2.0	2.0 mg/kg dry							

LCS (B4C1724-BS1)

Prepared: 2024-03-07, Analyzed: 2024-03-07

Aluminum	205	40 mg/kg dry	200		103	80-120			
Antimony	2.01	0.10 mg/kg dry	2.00		101	80-120			
Arsenic	20.3	0.30 mg/kg dry	20.0		102	80-120			
Barium	2.1	1.0 mg/kg dry	2.00		105	80-120			
Beryllium	2.03	0.10 mg/kg dry	2.00		101	80-120			
Bismuth	2.05	0.10 mg/kg dry	2.00		102	80-120			
Boron	21.2	2.0 mg/kg dry	20.0		106	80-120			
Cadmium	2.08	0.040 mg/kg dry	2.00		104	80-120			
Calcium	207	100 mg/kg dry	200		104	80-120			
Chromium	2.1	1.0 mg/kg dry	2.00		103	80-120			
Cobalt	2.04	0.10 mg/kg dry	2.00		102	80-120			
Copper	2.05	0.40 mg/kg dry	2.00		102	80-120			
Iron	209	20.0 mg/kg dry	200		105	80-120			
Lead	2.04	0.20 mg/kg dry	2.00		102	80-120			
Lithium	2.01	0.10 mg/kg dry	2.00		101	80-120			
Magnesium	208	10 mg/kg dry	200		104	80-120			
Manganese	2.11	0.40 mg/kg dry	2.00		106	80-120			
Mercury	0.199	0.040 mg/kg dry	0.200		100	80-120			
Molybdenum	2.06	0.10 mg/kg dry	2.00		103	80-120			
Nickel	2.04	0.60 mg/kg dry	2.00		102	80-120			
Phosphorus	202	10 mg/kg dry	200		101	80-120			
Potassium	205	40 mg/kg dry	200		103	80-120			
Selenium	20.7	0.20 mg/kg dry	20.0		104	80-120			
Silver	2.16	0.10 mg/kg dry	2.00		108	80-120			
Sodium	209	50 mg/kg dry	200		105	80-120			
Strontium	2.07	0.20 mg/kg dry	2.00		104	80-120			

APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Strong Acid Leachable Metals, Batch B4C1724, Continued

LCS (B4C1724-BS1), Continued				Prepared: 2024-03-07, Analyzed: 2024-03-07					
Sulfur	2020	1000 mg/kg dry	2000		101	80-120			
Tellurium	1.95	0.10 mg/kg dry	2.00		97	80-120			
Thallium	2.02	0.10 mg/kg dry	2.00		101	80-120			
Thorium	2.09	0.50 mg/kg dry	2.00		104	80-120			
Tin	2.03	0.20 mg/kg dry	2.00		101	80-120			
Titanium	2.1	1.0 mg/kg dry	2.00		104	80-120			
Tungsten	2.01	0.20 mg/kg dry	2.00		101	80-120			
Uranium	2.07	0.050 mg/kg dry	2.00		104	80-120			
Vanadium	2.1	1.0 mg/kg dry	2.00		104	80-120			
Zinc	19.7	2.0 mg/kg dry	20.0		98	80-120			
Zirconium	2.0	2.0 mg/kg dry	2.00		101	80-120			

LCS (B4C1724-BS2)				Prepared: 2024-03-07, Analyzed: 2024-03-07					
Aluminum	212	40 mg/kg dry	200		106	80-120			
Antimony	1.93	0.10 mg/kg dry	2.00		97	80-120			
Arsenic	19.8	0.30 mg/kg dry	20.0		99	80-120			
Barium	2.0	1.0 mg/kg dry	2.00		102	80-120			
Beryllium	2.32	0.10 mg/kg dry	2.00		116	80-120			
Bismuth	1.98	0.10 mg/kg dry	2.00		99	80-120			
Boron	22.6	2.0 mg/kg dry	20.0		113	80-120			
Cadmium	2.01	0.040 mg/kg dry	2.00		101	80-120			
Calcium	207	100 mg/kg dry	200		104	80-120			
Chromium	2.1	1.0 mg/kg dry	2.00		106	80-120			
Cobalt	2.04	0.10 mg/kg dry	2.00		102	80-120			
Copper	2.06	0.40 mg/kg dry	2.00		103	80-120			
Iron	207	20.0 mg/kg dry	200		104	80-120			
Lead	2.05	0.20 mg/kg dry	2.00		103	80-120			
Lithium	2.27	0.10 mg/kg dry	2.00		114	80-120			
Magnesium	211	10 mg/kg dry	200		105	80-120			
Manganese	2.09	0.40 mg/kg dry	2.00		105	80-120			
Mercury	0.199	0.040 mg/kg dry	0.200		99	80-120			
Molybdenum	2.03	0.10 mg/kg dry	2.00		101	80-120			
Nickel	2.08	0.60 mg/kg dry	2.00		104	80-120			
Phosphorus	202	10 mg/kg dry	200		101	80-120			
Potassium	209	40 mg/kg dry	200		104	80-120			
Selenium	20.7	0.20 mg/kg dry	20.0		103	80-120			
Silver	2.12	0.10 mg/kg dry	2.00		106	80-120			
Sodium	213	50 mg/kg dry	200		107	80-120			
Strontium	1.97	0.20 mg/kg dry	2.00		99	80-120			
Sulfur	2110	1000 mg/kg dry	2000		106	80-120			
Tellurium	1.86	0.10 mg/kg dry	2.00		93	80-120			
Thallium	2.01	0.10 mg/kg dry	2.00		100	80-120			
Thorium	2.04	0.50 mg/kg dry	2.00		102	80-120			
Tin	2.00	0.20 mg/kg dry	2.00		100	80-120			
Titanium	2.2	1.0 mg/kg dry	2.00		111	80-120			
Tungsten	2.05	0.20 mg/kg dry	2.00		102	80-120			
Uranium	2.07	0.050 mg/kg dry	2.00		103	80-120			
Vanadium	2.0	1.0 mg/kg dry	2.00		101	80-120			
Zinc	20.2	2.0 mg/kg dry	20.0		101	80-120			
Zirconium	2.0	2.0 mg/kg dry	2.00		100	80-120			

Duplicate (B4C1724-DUP1)				Source: 24B3024-01 Prepared: 2024-03-07, Analyzed: 2024-03-07					
Aluminum	16000	40 mg/kg dry	15700		2	40			
Antimony	1.56	0.10 mg/kg dry	0.45		110	30			RPD1
Arsenic	4.24	0.30 mg/kg dry	3.16		29	30			
Barium	71.3	1.0 mg/kg dry	72.8		2	40			
Beryllium	0.24	0.10 mg/kg dry	0.23			30			

APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Strong Acid Leachable Metals, Batch B4C1724, Continued									
Duplicate (B4C1724-DUP1), Continued		Source: 24B3024-01		Prepared: 2024-03-07, Analyzed: 2024-03-07					
Bismuth	< 0.10	0.10 mg/kg dry		< 0.10				30	
Boron	4.1	2.0 mg/kg dry		3.8				30	
Cadmium	0.176	0.040 mg/kg dry		0.177				30	
Calcium	5670	100 mg/kg dry		5710			< 1	30	
Chromium	16.2	1.0 mg/kg dry		15.8			3	30	
Cobalt	6.97	0.10 mg/kg dry		6.80			2	30	
Copper	28.3	0.40 mg/kg dry		33.7			17	30	
Iron	20400	20.0 mg/kg dry		18800			8	30	
Lead	20.9	0.20 mg/kg dry		20.5			2	40	
Lithium	6.42	0.10 mg/kg dry		7.08			10	30	
Magnesium	4320	10 mg/kg dry		4140			4	30	
Manganese	313	0.40 mg/kg dry		316			1	30	
Mercury	0.079	0.040 mg/kg dry		0.092				40	
Molybdenum	0.84	0.10 mg/kg dry		0.82			3	40	
Nickel	13.6	0.60 mg/kg dry		13.7			< 1	30	
Phosphorus	451	10 mg/kg dry		431			5	30	
Potassium	744	40 mg/kg dry		712			4	40	
Selenium	0.23	0.20 mg/kg dry		0.22				30	
Silver	0.13	0.10 mg/kg dry		0.13				40	
Sodium	339	50 mg/kg dry		288			16	40	
Strontium	37.9	0.20 mg/kg dry		37.3			1	40	
Sulfur	< 1000	1000 mg/kg dry		< 1000				30	
Tellurium	< 0.10	0.10 mg/kg dry		< 0.10				30	
Thallium	< 0.10	0.10 mg/kg dry		< 0.10				30	
Thorium	1.47	0.50 mg/kg dry		1.25				30	
Tin	2.55	0.20 mg/kg dry		1.23			69	40	RPD1
Titanium	800	1.0 mg/kg dry		809			1	40	
Tungsten	< 0.20	0.20 mg/kg dry		< 0.20				40	
Uranium	0.373	0.050 mg/kg dry		0.368			2	30	
Vanadium	49.3	1.0 mg/kg dry		48.7			1	30	
Zinc	61.0	2.0 mg/kg dry		56.8			7	30	
Zirconium	2.4	2.0 mg/kg dry		2.6				40	

Reference (B4C1724-SRM1)		Prepared: 2024-03-07, Analyzed: 2024-03-07							
Aluminum	12600	40 mg/kg dry	12100		104	70-130			
Antimony	0.71	0.10 mg/kg dry	0.634		111	70-130			
Arsenic	86.2	0.30 mg/kg dry	83.6		103	70-130			
Barium	45.6	1.0 mg/kg dry	41.4		110	70-130			
Beryllium	0.42	0.10 mg/kg dry	0.377		112	70-130			
Bismuth	0.30	0.10 mg/kg dry	0.291		103	70-130			
Calcium	5650	100 mg/kg dry	5380		105	70-130			
Chromium	68.3	1.0 mg/kg dry	66.0		103	70-130			
Cobalt	11.0	0.10 mg/kg dry	10.8		102	70-130			
Copper	21.2	0.40 mg/kg dry	20.3		104	70-130			
Iron	21200	20.0 mg/kg dry	20400		104	70-130			
Lead	17.4	0.20 mg/kg dry	16.7		104	70-130			
Lithium	17.7	0.10 mg/kg dry	16.8		105	70-130			
Magnesium	6560	10 mg/kg dry	6170		106	70-130			
Manganese	343	0.40 mg/kg dry	319		107	70-130			
Mercury	0.113	0.040 mg/kg dry	0.114		99	70-130			
Molybdenum	0.66	0.10 mg/kg dry	0.607		109	70-130			
Nickel	33.0	0.60 mg/kg dry	32.5		102	70-130			
Phosphorus	437	10 mg/kg dry	432		101	70-130			
Silver	1.68	0.10 mg/kg dry	1.55		108	70-130			
Strontium	22.6	0.20 mg/kg dry	22.5		101	70-130			
Thallium	< 0.10	0.10 mg/kg dry	0.0765		97	70-130			

APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Strong Acid Leachable Metals, Batch B4C1724, Continued									
Reference (B4C1724-SRM1), Continued					Prepared: 2024-03-07, Analyzed: 2024-03-07				
Thorium	3.32	0.50 mg/kg dry	2.96		112	70-130			
Titanium	744	1.0 mg/kg dry	730		102	70-130			
Uranium	1.22	0.050 mg/kg dry	1.15		106	70-130			
Vanadium	38.0	1.0 mg/kg dry	36.3		105	70-130			
Zinc	40.4	2.0 mg/kg dry	39.7		102	70-130			
Reference (B4C1724-SRM2)					Prepared: 2024-03-07, Analyzed: 2024-03-07				
Aluminum	12900	40 mg/kg dry	12100		107	70-130			
Antimony	0.63	0.10 mg/kg dry	0.634		100	70-130			
Arsenic	87.5	0.30 mg/kg dry	83.6		105	70-130			
Barium	43.5	1.0 mg/kg dry	41.4		105	70-130			
Beryllium	0.43	0.10 mg/kg dry	0.377		115	70-130			
Bismuth	0.30	0.10 mg/kg dry	0.291		104	70-130			
Calcium	5760	100 mg/kg dry	5380		107	70-130			
Chromium	71.7	1.0 mg/kg dry	66.0		109	70-130			
Cobalt	11.4	0.10 mg/kg dry	10.8		105	70-130			
Copper	22.2	0.40 mg/kg dry	20.3		109	70-130			
Iron	21300	20.0 mg/kg dry	20400		104	70-130			
Lead	17.1	0.20 mg/kg dry	16.7		102	70-130			
Lithium	19.3	0.10 mg/kg dry	16.8		115	70-130			
Magnesium	6850	10 mg/kg dry	6170		111	70-130			
Manganese	340	0.40 mg/kg dry	319		106	70-130			
Mercury	0.128	0.040 mg/kg dry	0.114		113	70-130			
Molybdenum	0.60	0.10 mg/kg dry	0.607		99	70-130			
Nickel	35.1	0.60 mg/kg dry	32.5		108	70-130			
Phosphorus	463	10 mg/kg dry	432		107	70-130			
Silver	1.68	0.10 mg/kg dry	1.55		109	70-130			
Strontium	22.6	0.20 mg/kg dry	22.5		101	70-130			
Thallium	< 0.10	0.10 mg/kg dry	0.0765		111	70-130			
Thorium	2.99	0.50 mg/kg dry	2.96		101	70-130			
Titanium	780	1.0 mg/kg dry	730		107	70-130			
Uranium	1.17	0.050 mg/kg dry	1.15		101	70-130			
Vanadium	38.5	1.0 mg/kg dry	36.3		106	70-130			
Zinc	41.2	2.0 mg/kg dry	39.7		104	70-130			

Volatile Organic Compounds (VOC), Batch B4C1447

Blank (B4C1447-BLK1)					Prepared: 2024-03-04, Analyzed: 2024-03-04				
Benzene	< 0.030	0.030 mg/kg wet							
Ethylbenzene	< 0.050	0.050 mg/kg wet							
Methyl tert-butyl ether	< 0.040	0.040 mg/kg wet							
Styrene	< 0.050	0.050 mg/kg wet							
Toluene	< 0.200	0.200 mg/kg wet							
Xylenes (total)	< 0.100	0.100 mg/kg wet							
Surrogate: Toluene-d8	3.10	mg/kg wet	4.00		77	60-140			
Surrogate: 4-Bromofluorobenzene	4.38	mg/kg wet	3.98		110	60-140			
Surrogate: 1,4-Dichlorobenzene-d4	4.55	mg/kg wet	3.92		116	60-140			
LCS (B4C1447-BS1)					Prepared: 2024-03-04, Analyzed: 2024-03-04				
Benzene	1.44	0.030 mg/kg wet	2.01		72	60-140			
Ethylbenzene	2.23	0.050 mg/kg wet	2.01		111	60-140			
Methyl tert-butyl ether	1.77	0.040 mg/kg wet	2.00		89	60-140			
Styrene	1.72	0.050 mg/kg wet	2.01		85	60-140			
Toluene	1.90	0.200 mg/kg wet	2.01		95	60-140			
Xylenes (total)	7.80	0.100 mg/kg wet	6.03		129	60-140			
Surrogate: Toluene-d8	3.13	mg/kg wet	4.00		78	60-140			

APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B4C1447, Continued									
LCS (B4C1447-BS1), Continued					Prepared: 2024-03-04, Analyzed: 2024-03-04				
Surrogate: 4-Bromofluorobenzene	4.71	mg/kg wet	3.98		118	60-140			
Surrogate: 1,4-Dichlorobenzene-d4	4.65	mg/kg wet	3.92		119	60-140			
Duplicate (B4C1447-DUP1)					Source: 24B3024-01 Prepared: 2024-03-04, Analyzed: 2024-03-04				
Benzene	< 0.030	0.030 mg/kg dry		< 0.030				50	
Ethylbenzene	< 0.050	0.050 mg/kg dry		< 0.050				50	
Methyl tert-butyl ether	< 0.040	0.040 mg/kg dry		< 0.040				50	
Styrene	< 0.050	0.050 mg/kg dry		< 0.050				50	
Toluene	< 0.200	0.200 mg/kg dry		< 0.200				50	
Xylenes (total)	< 0.100	0.100 mg/kg dry		< 0.100				50	
Surrogate: Toluene-d8	4.51	mg/kg dry	4.77		95	60-140			
Surrogate: 4-Bromofluorobenzene	5.44	mg/kg dry	4.75		115	60-140			
Surrogate: 1,4-Dichlorobenzene-d4	5.92	mg/kg dry	4.67		127	60-140			
Matrix Spike (B4C1447-MS1)					Source: 24B3024-01 Prepared: 2024-03-04, Analyzed: 2024-03-04				
Benzene	5.16	0.030 mg/kg dry	4.79	< 0.030	108	60-140			
Ethylbenzene	7.06	0.050 mg/kg dry	4.79	< 0.050	147	60-140			MS1
Methyl tert-butyl ether	6.10	0.040 mg/kg dry	4.77	< 0.040	128	60-140			
Styrene	6.18	0.050 mg/kg dry	4.79	< 0.050	129	60-140			
Toluene	6.81	0.200 mg/kg dry	4.79	< 0.200	142	60-140			MS1
Xylenes (total)	22.4	0.100 mg/kg dry	14.4	< 0.100	156	60-140			MS1
Surrogate: Toluene-d8	4.52	mg/kg dry	4.77		95	60-140			
Surrogate: 4-Bromofluorobenzene	8.25	mg/kg dry	4.75		174	60-140			S02
Surrogate: 1,4-Dichlorobenzene-d4	6.06	mg/kg dry	4.67		130	60-140			

QC Qualifiers:

- MS1 The matrix spike recovery was outside of control limits due to a matrix effect and/or interference.
- RPD1 Relative percent difference(s) (RPD) of one or more analytes on duplicate analysis are outside of control limits due to sample heterogeneity.
- S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.