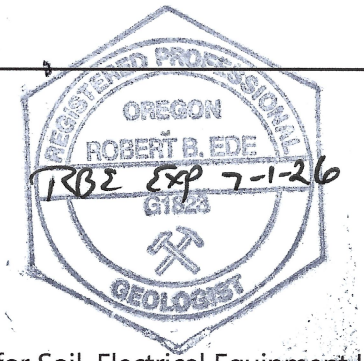
EDE ENVIRONMENTAL

MEMORANDUM



RBE Exp 7-1-26

TO: Corey Raspone, NW Natural
Tim Murphy, NW Natural

FROM: Rob Ede, Ede Environmental, LLC

DATE: January 7, 2026

RE: Waste Disposal Characterization Results for Soil, Electrical Equipment Upgrade Project Foundation and Trenching, NW Natural Gasco Property, Liquified Natural Gas (LNG) Operations Area, 7900 NW St. Helens Road, Portland, Oregon

1.0 Introduction

Ede Environmental, LLC, on behalf of NW Natural, has prepared this summary report describing the completion of subsurface soil sampling activities at proposed foundation and trenching areas to be constructed as part of an LNG operations electrical upgrade project. These sampling activities were designed for collection of sufficient soil data so that waste characterization and disposal profiling may be completed in advance of NW Natural's planned excavation activities for this project.

The new foundation will be constructed to support NW Natural's proposed new electrical equipment placement at the Portland LNG facility, which operates at the Former Gasco Manufactured Gas Plant (MGP) Operable Unit (OU). The location for the new electrical equipment foundation is shown on Figure 1. The foundation project will consist of two primary elements: 1) shallow soil excavation and 2) steel pile driving within the area of excavation. The shallow soil excavation portion of the project will be limited to approximately the upper 4 feet of ground surface in an approximate 59-foot by 16-foot area between the LNG Main Office Building and the LNG Tank Basin, and along several new buried conduit runs between the pad and the office building. This excavation work is expected to generate up to 450 cubic yards of soil, all of which will require special management and disposal.

The pile driving component of the project is not expected to generate waste soils and therefore does not affect the need for soil disposal characterization. Environmental mitigation measures related to the pile installation component of this project were described in an October 13, 2025 letter to the Oregon Department of Environmental Quality (DEQ), with agency concurrence received in an e-mail dated November 10, 2025 (Thomas to Ede).

The purpose of the work described herein is collection of data sufficient for characterizing the shallow project area soils [upper 4 feet below ground surface (bgs)] planned for excavation and requiring disposal. The soil sampling and analytical testing was completed in accordance with the draft *Contaminated Materials Management Plan (CMMP)* for the Gasco OU, dated November 19, 2021[1]. In accordance with the CMMP, and barring additional feedback from the intended disposal facility, an excavation of this magnitude (up to 450 cubic yards) requires the collection and testing of four to five three-part composite soil samples (one per 100 cubic yards of soil) from locations representative of the soils to be excavated. For this project, six composite soil samples were prepared to provide an equal number of composite samples representative of the 0-to 2-foot depth interval and the 2-to-4-foot depth interval across the planned areas of excavation. This project work has been completed to facilitate permitting with the offsite soil disposal facility prior to initiating excavation so that soils may be loaded directly into trucks for transport to the disposal facility once excavation commences.

2.0 Test Pit and Soil Sampling Activities

On November 18, 2025, nine test pits (TP-1 through TP-9) were installed within the footprint of the proposed electrical equipment foundation and along areas to be trenched for conduit placement (Figure 2). All test pits were excavated to four feet bgs for the collection of soil samples across depth intervals representative of planned foundation excavation.

All test pitting was conducted by NW Natural with the use of a Kubota M59 loader backhoe. Following completion of the test pitting activities, all pits were backfilled with the excavated soils to bring them back up to the existing grade. Soils were placed back into the test pits at approximately the same depth intervals that they were removed.

Soil samples were collected directly from the excavator bucket across sample depths of interest. At all locations, soil samples were collected across the 0 to 2 feet bgs and the 2 to 4 feet bgs depth intervals, with the uppermost sample collected immediately beneath the surficial gravel aggregate, which generally extended across the upper 6-inches of the ground surface.

All soils were observed for soil type and for the potential presence of contamination (i.e., odor, discoloration, staining, sheen by sheen test). Soil samples were selected from the test pits for field screening and laboratory analyses based on the established compositing plan. Upon collection, each soil sample was immediately placed into a single 16-ounce sample jar and capped with a Teflon-

[1] Hahn and Associates, Inc. (HAI 2021). *Contaminated Materials Management Plan, NW Natural Gasco Site, ECSI No. 84.* November 19, 2021.

lined lid. Samples for volatiles analysis were collected into 40 milliliter vials (two per sample) containing a methanol preservative as per United States Environmental Protection Agency (EPA) Method 5035 field sampling protocols.

A brief description of the soils encountered at Test Pit locations TP-1 through TP-9 is summarized in the table provided below.

Soil Description by Test Pit Location and Depth

Test Pit ID	Depth	Observations
TP-1	4′	Approximately 6-inches of gravel aggregate (ground surface), underlain by fine- to medium-grained, loose, brown sand with gravel. No staining, no sheen, and no odor to 2 feet bgs. Encountered a coaxial cable at a depth of 6-inches trending roughly east-west and a 1-inch diameter steel pipe at 3 feet bgs trending north-south. Black staining and moderate hydrocarbon odor below 3 feet bgs, with black granular material (black, dry, blocky chunks) mixed into a brown silty sand across that depth. No oil or tar, or sheen observed.
TP-2	4′	Approximately 6-inches of gravel aggregate underlain by fine- to medium-grained, loose, brown sand with gravel and brick fragments and no staining or odor to 2.0 feet bgs. Below 2 feet bgs, brown sand observed to contain minor zones of black granular material (black, dry, blocky chunks) with a minor petroleum hydrocarbon odor. No oil, tar, or sheen observed.
TP-3	4′	Approximately 6-inches of gravel aggregate underlain by brown to olive grey silty sand. Brown and black silty sand with strong petroleum hydrocarbon odor below 2 feet bgs. No oil, tar, or sheen observed, but black chunky “coal-like” fragments and sand are present. The same coaxial cable as encountered at TP-1 was encountered at this location. It was cut and removed where encountered and determined by LNG employees to not be active.
TP-4	4′	Approximately 6-inches of gravel aggregate (ground surface), underlain by fine- to medium-grained, brown silty sand with no staining, no sheen, and no odor to 2.5 feet bgs. Thin, heterogenous grey and black banding (black granular material) with strong petroleum hydrocarbon odor sporadically present below 2 feet bgs, no oil, tar, or sheen present.
TP-5	4′	Approximately 6-inches of gravel aggregate underlain by fine- to medium-grained, loose, brown gravelly sand with minor silt to 3 feet bgs.

Test Pit ID	Depth	Observations
		Below 3 feet, the sand has patchy zones of black discoloration (black granular) with a strong petroleum hydrocarbon odor. No oil, tar, or sheen observed.
TP-6	4′	Approximately 6-inches of gravel aggregate (ground surface), underlain by brown silty sand with no odor or discoloration to a depth of 3 feet bgs. Below 3 feet bgs there are isolated occurrences of hard black "cemented" sands with some wood fragments and strong petroleum hydrocarbon odor, no oil, tar, or sheen.
TP-7	4′	Approximately 6-inches of gravel aggregate (ground surface), underlain by brown silty sand with gravel and minor black sand with slight petroleum hydrocarbon odor present. Fraction of black sand increases below 2 feet bgs and petroleum odor increases to moderate, no oil or tar present, no sheen.
TP-8	4′	Asphalt surface (4-inches thick) with thin layer of base aggregate. Sandy silt, dark grey with strong petroleum hydrocarbon odor extending to 2.5 feet bgs. Below 2.5 feet bgs becomes brown sand with only a minor petroleum odor, no oil, tar, or sheen across any depth interval.
TP-9	4′	Asphalt surface (4-inches thick) with thin layer of base aggregate. Sandy silt with broken rock and wood timber fragments, grey with moderate petroleum hydrocarbon odor extending to 3.0 feet bgs. Below 3.0 feet bgs becomes brown loose sand with only a minor petroleum odor, no oil, no tar, no sheen across any depth interval.

3.0 Laboratory Testing

The soil samples were shipped under chain-of-custody documentation in a chilled, thermally insulated cooler to Apex Laboratories, Inc., an Oregon accredited analytical laboratory located in Tigard, Oregon. Soil samples were composited at the analytical laboratory into six samples representative of the soils to be excavated, as follows:

2711-251118-COMP A: composite of grab samples from 0 to 2 feet bgs from test pits TP-1 (2711-251118-01A), TP-2 (2711-251118-02A), and TP-3 (2711-251118-03A)

2711-251118-COMP B: composite of grab samples from 2 to 4 feet bgs from test pits TP-1 (2711-251118-01B), TP-2 (2711-251118-02B), and TP-3 (2711-251118-03B)

2711-251118-COMP C: composite of grab samples from 0 to 2 feet bgs from test pits TP-4 (2711-251118-04A), TP-5 (2711-251118-05A), and TP-6 (2711-251118-06A)

2711-251118-COMP D: composite of grab samples from 2 to 4 feet bgs from test pits TP-4 (2711-251118-04A), TP-5 (2711-251118-05A), and TP-6 (2711-251118-06A)

2711-251118-COMP E: composite of grab samples from 0 to 2 feet bgs from test pits TP-7 (2711-251118-07A), TP-8 (2711-251118-08A), and TP-9 (2711-251118-09A)

2711-251118-COMP F: composite of grab samples from 2 to 4 feet bgs from test pits TP-7 (2711-251118-07A), TP-8 (2711-251118-08A), and TP-9 (2711-251118-09A)

All six composite soil samples underwent analyses for the following:

- Total cyanide (U.S. Environmental Protection Agency [EPA] 9013M/9012B)
- Free liquid (EPA 9095B)
- Percent solids (EPA 8000D)
- pH by EPA 9045D
- Total petroleum hydrocarbons: diesel and oil range (NWTPH-Dx) and gasoline range (NWTPH-Gx)
- Total metals: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver (EPA 6020B)
- Volatile organic compounds (EPA 5035A/8260D)
- Semivolatile organic compounds (EPA 8270E)
- Polychlorinated Biphenyls (EPA 8082A)
- Toxicity Characteristic Leaching Procedure (TCLP) SVOCs (EPA Methods 1311/8270E)

4.0 Soil Disposal Characterization

The analytical results for the composite samples are provided in Table 1, with the laboratory report included as Attachment A. Table 1 includes method detection limits (MDLs) for "non-detect" constituents. Neither the reported concentrations nor the MDLs for these constituents exceed Resource Conservation and Recovery Act (RCRA) toxicity characteristic regulatory levels. These regulatory levels are based on leachate concentrations tested by TCLP methodology. Total-concentration analytical results were screened against EPA's TCLP regulatory levels multiplied by 20 (Table 1) to account for attenuation that occurs during the leaching process. Screening of these data indicates that constituent concentrations do not exceed RCRA toxicity characteristic regulatory levels.

Based on the preceding analytical testing and screening procedures, it is concluded that the upper 4 feet of soils planned for excavation from the electrical equipment foundation and trenching area (Figures 1 and 2), would be acceptable for disposal as contaminated soil at a RCRA Subtitle D non-hazardous waste disposal facility. The data presented herein will be provided for profiling and acceptance by the intended disposal facility prior to initiation of excavation activities in the proposed foundation area.

Should excavation activities reveal localized areas of soil with field screening evidence of contamination significantly different than those as described herein, then those soils will be segregated at the time of excavation for confirmation of regulatory status prior to disposal.

If you have any questions or comments regarding this report, please do not hesitate to contact me.

Sincerely,

Robert Ede

Rob Ede, R.G. Principal
rede@edeenvironmental.com

cc: Bob Wyatt, NW Natural
Patty Dost, Pearl Legal Group
Tim Stone, Anchor QEA
Jen Mott, Anchor QEA
Chip Byrd, Sevenson Environmental, Inc.
Wes Thomas, Oregon Department of Environmental Quality

Attachments
Table 1: Analytical Results
Figure1: Foundation Location
Figure 2: Test Pit Locations
Attachment A: Apex Laboratory Report A5K1621

ATTACHMENTS

Tables

Table 1
2025 Gasco LNG Area Electrical Equipment Upgrade Soils

			Sample Number 2711-25111-											
	EPA TC Regulatory Threshold Values		COMP A		COMP B		COMP C		COMP D		COMP E		COMP F	
Analyte	20x EPA TC[1]	Actual EPA TC[2]	Result		Result		Result		Result		Result		Result	
Conventionals														
Total Cyanide (mg/kg)	--	--	**0.19**	--	**2.04**	--	0.116	U	**4.08**	--	**6.1**	--	0.117	U
Free liquid (mL)	--	--	0.00	--	0.00	--	0.00	--	0.00	--	0.00	--	0.00	--
Total Solids (% by weight)	--	--	**86.2**	--	**85.7**	--	**85.1**	--	**89.3**	--	**89.3**	--	**85.4**	--
Soil pH	--	--	**7.6**	--	**7.7**	--	**7.7**	--	**7.8**	--	**8.1**	--	**7.5**	--
pH Temperature (°C)	--	--	**20.7**	--	**20.7**	--	**20.5**	--	**20.6**	--	**20.5**	--	**20.4**	--
Total Metals (mg/kg)														
Arsenic	100	5	**3.07**	--	**3.18**	--	**3.64**	--	**2.31**	--	**3.89**	--	**3.79**	--
Barium	2,000	100	**101**	--	**95.7**	--	**114**	--	**64.6**	--	**108**	--	**82.5**	--
Cadmium	20	1	0.229	U	0.254	U	0.249	U	0.216	U	**0.282**	--	0.243	U
Chromium	100	5	**9.94**	--	**10.3**	--	**9.97**	--	**8.71**	--	**11.6**	--	**10.7**	--
Lead	100	5	**34.9**	--	**32.4**	--	**8.58**	--	**38.0**	--	**62.5**	--	**27.6**	--
Mercury	4	0.2	0.0916	U	0.102	U	0.0998	U	0.0863	U	**0.149**	--	0.0971	U
Selenium	20	1	1.14	U	1.27	U	1.25	U	1.08	U	1.17	U	1.21	U
Silver	100	5	0.229	U	0.254	U	0.249	U	0.216	U	0.233	U	0.243	U
Total Petroleum Hydrocarbons (mg/kg)														
Diesel Range	--	--	40.4	U	102	U	20.4	U	393	U	193	U	40.8	U
Gasoline Range	--	--	6.57	U	**17.7**	--	7.26	U	**137**	F-03	**9.55**	--	6.94	U
Oil Range	--	--	**163**	F-03	**953**	F-13	**41.4**	F-13	**3,070**	F-13	**1,860**	F-13	**476**	F-03
Volatile Organic Compounds (µg/kg)														
Acetone	--	--	1,310	U	1,490	U	1,450	U	2,510	U	1,170	U	1,390	U
Acrylonitrile	--	--	131	U	149	U	145	U	251	U	117	U	139	U
Benzene	10,000	500	13.1	U	14.9	U	14.5	U	**50.3**	--	**17.6**	--	13.9	U
Bromobenzene	--	--	32.9	U	37.1	U	36.3	U	62.9	U	29.3	U	34.7	U
Bromochloromethane	--	--	65.7	U	74.3	U	72.6	U	126	U	58.6	U	69.4	U
Bromodichloromethane	--	--	65.7	U	74.3	U	72.6	U	126	U	58.6	U	69.4	U
Bromoform	--	--	131	U	149	U	145	U	251	U	117	U	139	U
Bromomethane	--	--	657	U	743	U	726	U	1260	U	586	U	694	U
2-Butanone (MEK)	4,000,000	200,000	657	U	743	U	726	U	1,260	U	586	U	694	U
n-Butylbenzene	--	--	65.7	U	74.3	U	72.6	U	**233**	--	58.6	U	69.4	U
sec-Butylbenzene	--	--	66	U	74.3	U	72.6	U	**147**	--	58.6	U	69.4	U
tert-Butylbenzene	--	--	65.7	U	74.3	U	72.6	U	126	U	58.6	U	69.4	U
Carbon disulfide	--	--	657	U	743	U	726	U	1,260	U	586	U	694	U
Carbon tetrachloride	10,000	500	66	U	74	U	72.6	U	126	U	58.6	U	69.4	U
Chlorobenzene	2,000,000	100,000	33	U	37	U	36.3	U	62.9	U	29.3	U	34.7	U
Chloroethane	--	--	657	U	743	U	726	U	1,260	U	586	U	694	U
Chloroform	120,000	6,000	66	U	74	U	72.6	U	126	U	58.6	U	69.4	U
Chloromethane	--	--	329	U	371	U	363	U	629	U	293	U	347	U
2-Chlorotoluene	--	--	66	U	74	U	72.6	U	126	U	58.6	U	69.4	U
4-Chlorotoluene	--	--	66	U	74	U	72.6	U	126	U	58.6	U	69.4	U
Dibromochloromethane	--	--	131	U	149	U	145	U	251	U	117	U	139	U
1,2-Dibromo-3-chloropropane	--	--	329	U	371	U	363	U	629	U	293	U	347	U
1,2-Dibromoethane (EDB)	--	--	66	U	74	U	72.6	U	126	U	58.6	U	69.4	U
Dibromomethane	--	--	66	U	74	U	72.6	U	126	U	58.6	U	69.4	U
1,2-Dichlorobenzene	--	--	33	U	37	U	36.3	U	62.9	U	29.3	U	34.7	U
1,3-Dichlorobenzene	--	--	33	U	37	U	36.3	U	62.9	U	29.3	U	34.7	U
1,4-Dichlorobenzene	150,000	7,500	33	U	37	U	36.3	U	62.9	U	29.3	U	34.7	U
Dichlorodifluoromethane	--	--	131	U	149	U	145	U	251	U	117	U	139	U
1,1-Dichloroethane	--	--	33	U	37	U	36.3	U	62.9	U	29.3	U	34.7	U
1,2-Dichloroethane (EDC)	10,000	500	33	U	37	U	36.3	U	62.9	U	29.3	U	34.7	U
1,1-Dichloroethene	14,000	700	33	U	37	U	36.3	U	62.9	U	29.3	U	34.7	U
cis-1,2-Dichloroethene	--	--	33	U	37	U	36.3	U	62.9	U	29.3	U	34.7	U
trans-1,2-Dichloroethene	--	--	33	U	37	U	36.3	U	62.9	U	29.3	U	34.7	U
1,2-Dichloropropane	--	--	33	U	37	U	36.3	U	62.9	U	29.3	U	34.7	U
1,3-Dichloropropane	--	--	66	U	74	U	72.6	U	126	U	58.6	U	69.4	U
2,2-Dichloropropane	--	--	66	U	74	U	72.6	U	126	U	25.6	U	69.4	U
1,1-Dichloropropene	--	--	66	U	74	U	72.6	U	126	U	58.6	U	69.4	U
cis-1,3-Dichloropropene	--	--	65.7	U	74.3	U	72.6	U	126	U	58.6	U	69.4	U
trans-1,3-Dichloropropene	--	--	66	U	74	U	72.6	U	126	U	58.6	U	69.4	U
Ethylbenzene	--	--	33	U	37.1	U	36.3	U	**270**	--	**55.1**	--	34.7	U
Hexachlorobutadiene	10,000	500	131	U	149	U	145	U	251	U	117	U	139	U
2-Hexanone	--	--	657	U	743	U	726	U	1260	U	586	U	694	U
Isopropylbenzene	--	--	66	U	74.3	U	72.6	U	**251**	--	58.6	U	69.4	U
4-Isopropyltoluene	--	--	66	U	74.3	U	72.6	U	**326**	--	58.6	U	69.4	U
Methylene chloride	--	--	657	U	743	U	726	U	1260	U	586	U	694	U
4-Methyl-2-pentanone (MiBK)	--	--	657	U	743	U	726	U	1260	U	586	U	694	U
Methyl tert-butyl ether (MTBE)	--	--	66	U	74	U	72.6	U	126	U	58.6	U	69.4	U
Naphthalene	--	--	**393**	--	**1,150**	--	145	U	**72,100**	--	**2,780**	--	**399**	--
n-Propylbenzene	--	--	33	U	37.1	U	36.3	U	**331**	--	29.3	U	34.7	U
Styrene	--	--	66	U	74	U	72.6	U	126	U	58.6	U	69.4	U
1,1,1,2-Tetrachloroethane	--	--	33	U	37	U	36.3	U	62.9	U	29.3	U	34.7	U
1,1,2,2-Tetrachloroethane	--	--	66	U	74	U	72.6	U	126	U	58.6	U	69.4	U
Tetrachloroethene (PCE)	14,000	700	33	U	37	U	36.3	U	62.9	U	29.3	U	34.7	U
Toluene	--	--	66	U	74.3	U	72.6	U	126	U	58.6	U	69.4	U
1,2,3-Trichlorobenzene	--	--	329	U	371	U	363	U	629	U	293	U	347	U
1,2,4-Trichlorobenzene	--	--	329	U	371	U	363	U	629	U	293	U	347	U
1,1,1-Trichloroethane	--	--	33	U	37	U	36.3	U	62.9	U	29.3	U	34.7	U
1,1,2-Trichloroethane	--	--	33	U	37	U	36.3	U	62.9	U	29.3	U	34.7	U
Trichloroethene (TCE)	10,000	500	33	U	37	U	36.3	U	62.9	U	29.3	U	34.7	U
Trichlorofluoromethane	--	--	329	U	371	U	363	U	629	U	293	U	347	U
1,2,3-Trichloropropane	--	--	66	U	74	U	72.6	U	126	U	58.6	U	69.4	U
1,2,4-Trimethylbenzene	--	--	66	U	74.3	U	72.6	U	**2,680**	--	58.6	U	69.4	U
1,3,5-Trimethylbenzene	--	--	66	U	74.3	U	72.6	U	**279**	--	58.6	U	69.4	U
Vinyl chloride	4,000	4,400	33	U	37.1	U	36.3	U	62.9	U	29.3	U	34.7	U
m,p-Xylene	--	--	66	U	74.3	U	72.6	U	**234**	--	58.6	U	69.4	U
o-Xylene	--	--	33	U	37.1	U	36.3	U	**226**	--	29.3	U	34.7	U
Semivolatile Organic Compounds (µg/kg)														
Acenaphthene	--	--	302	U	2,970	U	77.2	U	**3,250**	--	**4,430**	--	3,060	U
Acenaphthylene	--	--	302	U	2,970	U	77.2	U	**6,890**	--	2,890	U	3,060	U
Anthracene	--	--	302	U	2,970	U	77.2	U	**20,400**	--	**6,080**	--	3,060	U
Benz(a)anthracene	--	--	**1,220**	--	**5,190**	--	**176**	--	**58,000**	--	**19,700**	--	**5,940**	--
Benzo(a)pyrene	--	--	**2,250**	--	**8,500**	--	**347**	--	**77,800**	--	**37,700**	--	**12,300**	--
Benzo(b)fluoranthene	--	--	**2,420**	--	**8,900**	--	**379**	--	**80,000**	--	**36,700**	--	**12,000**	--
Benzo(k)fluoranthene	--	--	**959**	M-05	4,450	U	**140**	M-05	**26,800**	M-05	**13,000**	M-05	4,580	U
Benzo(g,h,i)perylene	--	--	**2,510**	--	**10,800**	--	**415**	--	**81,500**	--	**35,400**	--	**13,300**	--
Chrysene	--	--	**1,640**	--	**7,040**	--	**230**	--	**81,600**	--	**28,100**	--	**8,290**	--

Table 1
2025 Gasco LNG Area Electrical Equipment Upgrade Soils

Analyte	EPA TC Regulatory Threshold Values		COMP A		COMP B		COMP C		COMP D		COMP E		COMP F	
	20x EPA TC[1]	Actual EPA TC[2]	Result		Result		Result		Result		Result		Result	
Dibenz(a,h)anthracene	--	--	302	U	2,970	U	77.2	U	**7,890**	--	**3,190**	--	3,060	U
Fluoranthene	--	--	**2,310**		**13,600**	--	**305**	--	**207,000**	--	**55,200**	--	**14,400**	--
Fluorene	--	--	302	U	2,970	U	77.2	U	**122,200**	--	**4,650**	--	3,060	U
Indeno(1,2,3-cd)pyrene	--	--	**1,980**	--	**8,320**	--	**332**	--	**59,600**	--	**28,400**	--	**10,700**	--
1-Methylnaphthalene	--	--	603	U	5,930	U	154	U	**10,300**	--	5,760	U	6,110	U
2-Methylnaphthalene	--	--	603	U	5,930	U	154	U	**11,900**	--	5,760	U	6,110	U
Naphthalene	--	--	603	U	5,930	U	154	U	**80,400**	--	**7,850**	--	6,110	U
Phenanthrene	--	--	**952**		**15,700**	--	**141**	--	**197,000**	--	**20,300**	--	**4,330**	--
Pyrene	--	--	**2,940**	--	**17,600**	--	**342**	--	**227,000**	--	**73,600**	--	**20,300**	--
Carbazole	--	--	452	U	4,450	U	116	U	4,380	U	4,330	U	4,580	U
Dibenzofuran	--	--	302	U	2,970	U	77.2	U	**3,000**	--	2,890	U	3,060	U
2-Chlorophenol	--	--	1,500	U	14,800	U	385	U	14,600	U	14,400	U	15,200	U
4-Chloro-3-methylphenol	--	--	3,020	U	29,700	U	772	U	29,200	U	28,900	U	30,600	U
2,4-Dichlorophenol	--	--	1,500	U	14,800	U	385	U	14,600	U	14,400	U	15,200	U
2,4-Dimethylphenol	--	--	1,500	U	14,800	U	385	U	14,600	U	14,400	U	15,200	U
2,4-Dinitrophenol	--	--	1,500	U	74,200	U	1,930	U	73,000	U	72,100	U	76,400	U
4,6-Dinitro-2-methylphenol	--	--	7,540	U	74,200	U	1,930	U	73,000	U	72,100	U	76,400	U
2-Methylphenol	4,000,000	200,000	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
3+4-Methylphenol(s)	--	--	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
2-Nitrophenol	--	--	3,020	U	29,700	U	772	U	29,200	U	28,900	U	30,600	U
4-Nitrophenol	--	--	3,020	U	29,700	U	772	U	29,200	U	28,900	U	30,600	U
Pentachlorophenol (PCP)	2,000,000	100,000	3,020	U	29,700	U	772	U	29,200	U	28,900	U	30,600	U
Phenol	--	--	603	U	5,930	U	154	U	5,840	U	5,760	U	6,110	U
2,3,4,6-Tetrachlorophenol	--	--	1,500	U	14,800	U	385	U	14,600	U	14,400	U	15,200	U
2,3,5,6-Tetrachlorophenol	--	--	1,500	U	14,800	U	385	U	14,600	U	14,400	U	15,200	U
2,4,5-Trichlorophenol	8,000,000	400,000	1,500	U	14,800	U	385	U	14,600	U	14,400	U	15,200	U
Nitrobenzene	40,000	2,000	3,020	U	29,700	U	772	U	29,200	U	28,900	U	30,600	U
2,4,6-Trichlorophenol	40,000	2,000	1,500	U	14,800	U	385	U	14,600	U	14,400	U	15,200	U
Bis(2-ethylhexyl) phthalate	--	--	4,520	U	44,500	U	1,160	U	43,800	U	43,300	U	45,800	U
Butyl benzyl phthalate	--	--	3,020	U	29,700	U	772	U	29,200	U	28,900	U	30,600	U
Diethylphthalate	--	--	3,020	U	29,700	U	772	U	29,200	U	28,900	U	30,600	U
Dimethylphthalate	--	--	3,020	U	29,700	U	772	U	29,200	U	28,900	U	30,600	U
Di-n-butylphthalate	--	--	3,020	U	29,700	U	772	U	29,200	U	28,900	U	30,600	U
Di-n-octyl phthalate	--	--	3,020	U	29,700	U	193	U	29,200	U	28,900	U	30,600	U
N-Nitrosodimethylamine	--	--	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
N-Nitroso-di-n-propylamine	--	--	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
N-Nitrosodiphenylamine	--	--	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
Bis(2-Chloroethoxy) methane	--	--	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
Bis(2-Chloroethyl) ether	--	--	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
2,2'-Oxybis(1-Chloropropane)	--	--	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
Hexachlorobenzene	2,600	130	302	U	2,970	U	77	U	2,920	U	2,890	U	3,060	U
Hexachlorobutadiene	10,000	500	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
Hexachlorocyclopentadiene	--	--	1,500	U	14,800	U	385	U	14,600	U	14,400	U	15,200	U
Hexachloroethane	60,000	3,000	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
2-Chloronaphthalene	--	--	302	U	2,970	U	77	U	2,920	U	2,890	U	3,060	U
1,2,4-Trichlorobenzene	--	--	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
4-Bromophenyl phenyl ether	--	--	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
4-Chlorophenyl phenyl ether	--	--	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
Aniline	--	--	1,500	U	14,800	U	385	U	14,600	U	14,400	U	15,200	U
4-Chloroaniline	--	--	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
2-Nitroaniline	--	--	6,030	U	59,300	U	1,540	U	58,400	U	57,600	U	61,100	U
3-Nitroaniline	--	--	6,030	U	59,300	U	1,540	U	58,400	U	57,600	U	61,100	U
4-Nitroaniline	--	--	6,030	U	59,300	U	1,540	U	58,400	U	57,600	U	61,100	U
2,4-Dinitrotoluene	2,600	130	3,020	U	29,700	U	772	U	29,200	U	28,900	U	30,600	U
2,6-Dinitrotoluene	--	--	3,020	U	29,700	U	772	U	29,200	U	28,900	U	30,600	U
Benzoic acid	--	--	37,700	U	371,000	U	772	U	365,000	U	360,000	U	382,000	U
Benzyl alcohol	--	--	3,010	U	29,600	U	9,630	U	29,100	U	28,800	U	30,500	U
Isophorone	--	--	754	U	7,420	U	769	U	7,300	U	7,210	U	7,640	U
Azobenzene (1,2-DPH)	--	--	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
Bis(2-Ethylhexyl) adipate	--	--	7,540	U	74,200	U	193	U	73,000	U	72,100	U	76,400	U
3,3'-Dichlorobenzidine	--	--	6,030	U, Q-52	59,300	U, Q-52	1,930	U, Q-52	58,400	U, Q-52	72,100	U, Q-52	61,100	U, Q-52
1,2-Dinitrobenzene	--	--	7,540	U	74,200	U	1,540	U	73,000	U	72,100	U	76,400	U
1,3-Dinitrobenzene	--	--	7,540	U	74,200	U	1,930	U	73,000	U	72,100	U	76,400	U
1,4-Dinitrobenzene	--	--	7,540	U	74,200	U	1,930	U	73,000	U	72,100	U	76,400	U
Pyridine	100,000	5,000	1,500	U	14,800	U	385	U	14,600	U	14,400	U	15,200	U
1,2-Dichlorobenzene	--	--	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
1,3-Dichlorobenzene	--	--	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
1,4-Dichlorobenzene	150,000	7,500	754	U	7,420	U	193	U	7,300	U	7,210	U	7,640	U
TCLP Semivolatile Organic Compounds (mg/L)														
2-Methylphenol	--	200	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
3+4-Methylphenol(s)	--	--	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Pentachlorophenol (PCP)	--	100	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
2,4,5-Trichlorophenol	--	400	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
2,4,6-Trichlorophenol	--	2	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Hexachlorobenzene	--	0.13	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Hexachlorobutadiene	--	0.5	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Hexachloroethane	--	3	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Nitrobenzene	--	2	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
2,4-Dinitrotoluene	--	0.13	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Pyridine	--	5	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Polychlorinated Biphenyls (PCBs) (mg/kg)														
Aroclor 1016	--	50[4]	0.00992	U	0.01	U	0.0102	U	0.01	U	0.00983	U	0.0105	U
Aroclor 1221	--	50[4]	0.00992	U	0.01	U	0.0102	U	0.01	U	0.00983	U	0.0105	U
Aroclor 1232	--	50[4]	0.00992	U	0.01	U	0.0102	U	0.01	U	0.00983	U	0.0105	U
Aroclor 1242	--	50[4]	0.00992	U	0.01	U	0.0102	U	0.01	U	0.00983	U	0.0105	U
Aroclor 1248	--	50[4]	0.00992	U	0.01	U	0.0102	U	0.01	U	0.00983	U	0.0105	U
Aroclor 1254	--	50[4]	0.00992	U	0.01	U	0.0102	U	0.01	U	0.00983	U	0.0105	U
Aroclor 1260	--	50[4]	0.00992	U	0.01	U	0.0102	U	**0.28**	--	0.00983	U	0.0105	U

Notes:
1. If laboratory results from the totals test exceed the "20x TC Threshold" value, then see results of the TCLP test for direct comparison to actual TC regulatory levels for regulatory status determination.
2. Screening levels found in Title 40 CFR 261 Subpart C.
3. F002 DEQ RBCs for Occupational Exposure by Ingestion, Dermal Contact, and Inhalation, May 2018.
4. Toxic Substances Control Act screening level found in 40 CFR 761.61(a)(5)(i)(B)(2)(iii).
Bold: detected analyte
--: not applicable
CFR: *Code of Federal Regulations*
DEQ: Oregon Department of Environmental Quality

Table 1
2025 Gasco LNG Area Electrical Equipment Upgrade Soils

Analyte	EPA TC Regulatory Threshold Values		COMP A	COMP B	COMP C	COMP D	COMP E	COMP F
	20x EPA TC[1]	Actual EPA TC[2]	Result	Result	Result	Result	Result	Result

EPA: U.S. Environmental Protection Agency

F-03: Result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.

F-13: The chromatographic pattern does not resemble the fuel standard used for quantitation.

J: Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

M-05: Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.

MDL: method detection limit

mg/kg: milligram per kilogram

mg/L: milligram per liter

mL: milliliter

QC: quality control

Q-52: Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.

RBC: risk-based concentration

TC: toxicity characteristic

TCLP: toxicity characteristic leaching procedure

U: Analyte is not detected above the MDL.

µg/kg: microgram per kilogram

Figures

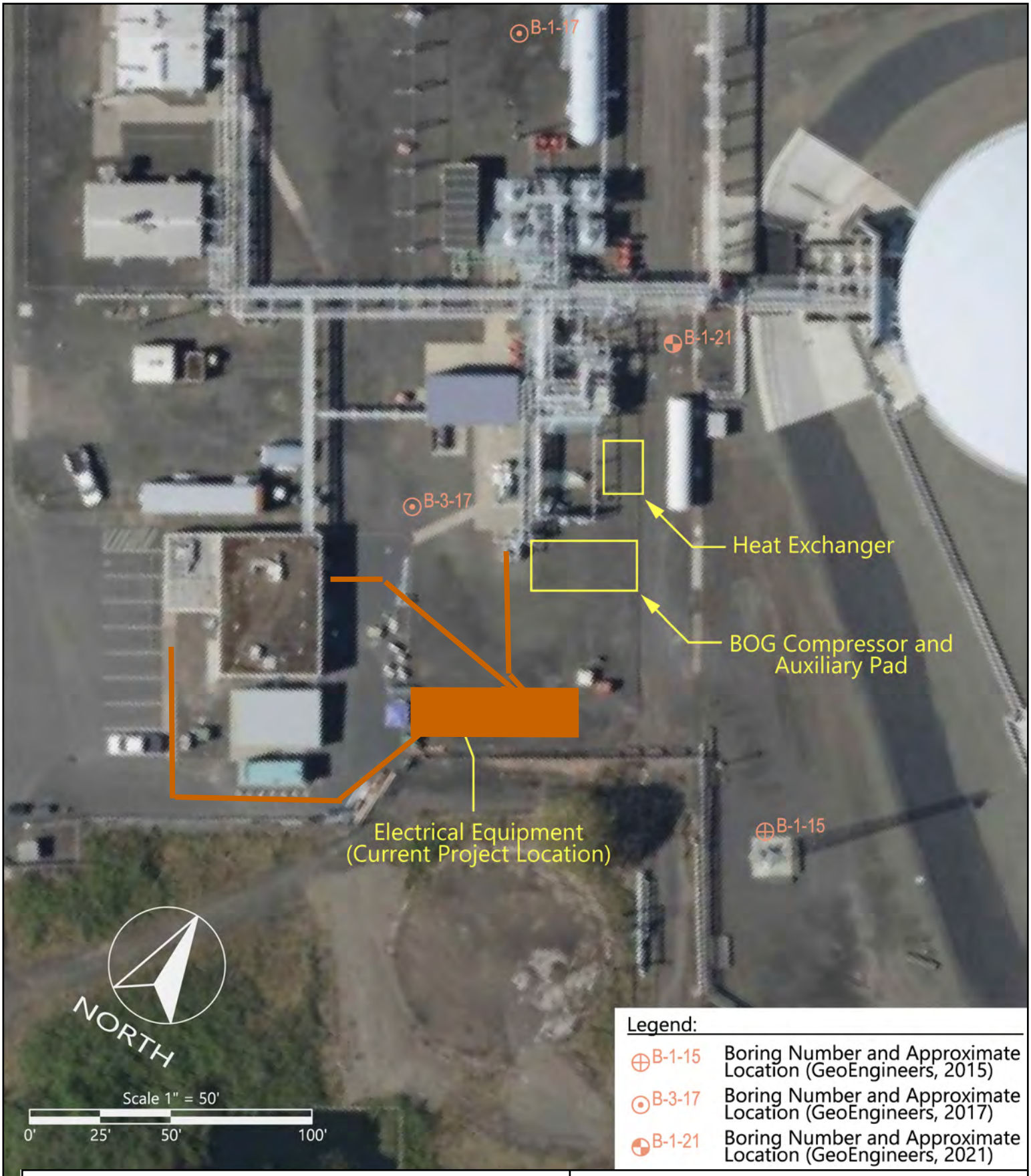


FIGURE 1
Electrical Equipment Pad and Trenching Project Location

Base Figure from: *Geotechnical Letter Report, Portland LNG Facility - Electrical Equipment Foundation*, Cornforth Consultants, July 23, 2025.

NW Natural Electrical Equipment Pad Foundation
Portland LNG
7900 NW St. Helens Road
Portland, Oregon

Ede Environmental, LLC
Project No. 2711 December 2025

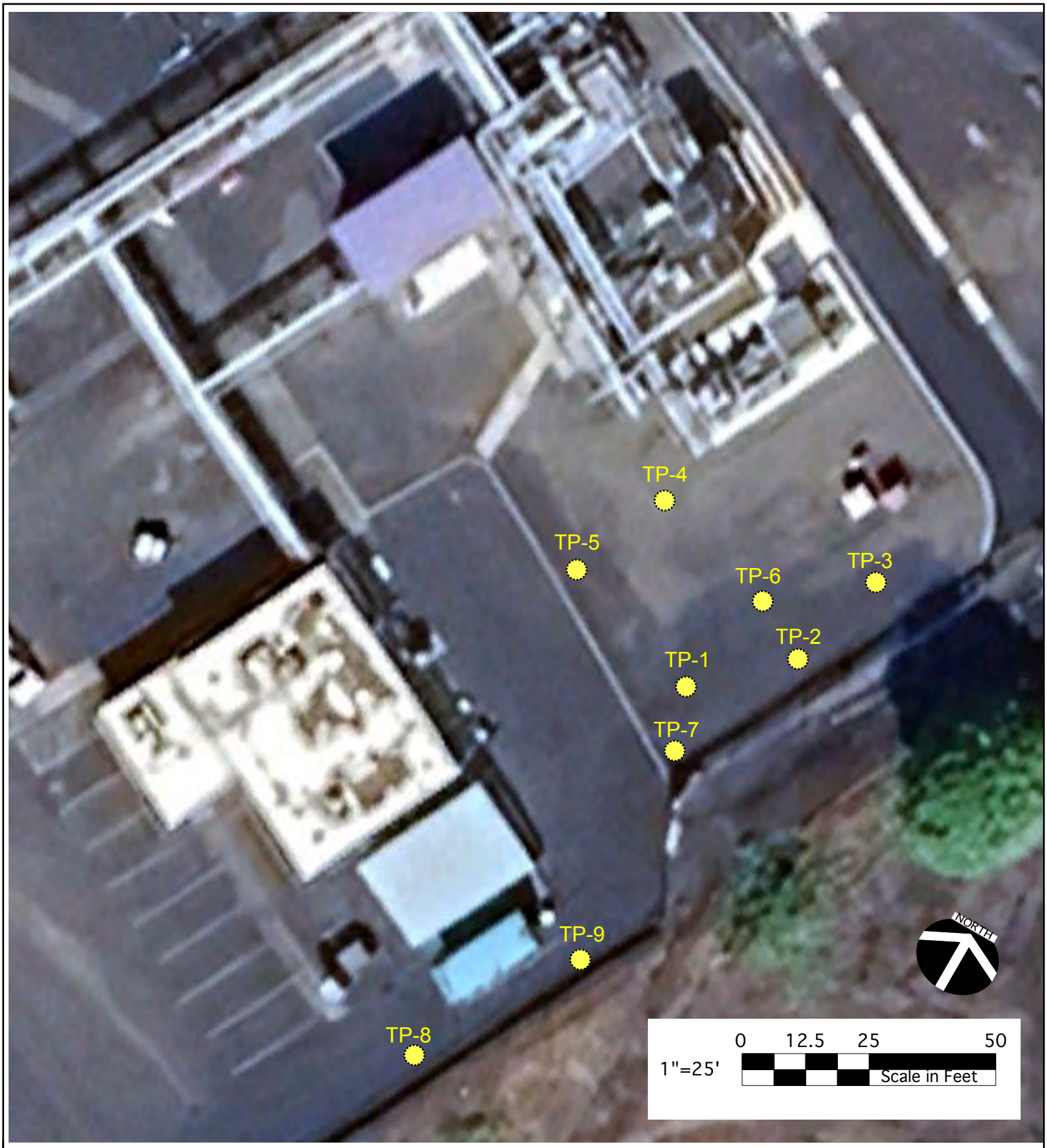


FIGURE 2
Test Pit Soil Sample Locations

NW Natural Electrical Equipment Pad Foundation
Portland LNG
7900 NW St. Helens Road
Portland, Oregon

Ede Environmental, LLC
Project No. 2711 December 2025

Attachment A

Apex Laboratory Report A5K1621

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Monday, December 8, 2025

Corey Raspone
NW Natural
220 NW Second Ave
Portland, OR 97209

RE: A5K1621 - LNG Soil - 2711

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A5K1621, which was received by the laboratory on 11/19/2025 at 11:50:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: jwoodcock@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information					
Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.					
(See Cooler Receipt Form for details)					
Cooler #1	4.1	degC	Cooler #2	5.3	degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

Apex Laboratories

Jason Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

NW Natural	Project: LNG Soil	
220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2711-251118-01A	A5K1621-01	Soil	11/18/25 08:45	11/19/25 11:50
2711-251118-01B	A5K1621-02	Soil	11/18/25 09:05	11/19/25 11:50
2711-251118-02A	A5K1621-03	Soil	11/18/25 09:10	11/19/25 11:50
2711-251118-02B	A5K1621-04	Soil	11/18/25 09:20	11/19/25 11:50
2711-251118-03A	A5K1621-05	Soil	11/18/25 09:30	11/19/25 11:50
2711-251118-03B	A5K1621-06	Soil	11/18/25 09:36	11/19/25 11:50
2711-251118-04A	A5K1621-07	Soil	11/18/25 10:27	11/19/25 11:50
2711-251118-04B	A5K1621-08	Soil	11/18/25 10:30	11/19/25 11:50
2711-251118-05A	A5K1621-09	Soil	11/18/25 10:40	11/19/25 11:50
2711-251118-05B	A5K1621-10	Soil	11/18/25 10:50	11/19/25 11:50
2711-251118-06A	A5K1621-11	Soil	11/18/25 09:50	11/19/25 11:50
2711-251118-06B	A5K1621-12	Soil	11/18/25 10:00	11/19/25 11:50
2711-251118-07A	A5K1621-13	Soil	11/18/25 10:10	11/19/25 11:50
2711-251118-07B	A5K1621-14	Soil	11/18/25 10:15	11/19/25 11:50
2711-251118-08A	A5K1621-15	Soil	11/18/25 12:08	11/19/25 11:50
2711-251118-08B	A5K1621-16	Soil	11/18/25 12:12	11/19/25 11:50
2711-251118-09A	A5K1621-17	Soil	11/18/25 12:15	11/19/25 11:50
2711-251118-09B	A5K1621-18	Soil	11/18/25 12:25	11/19/25 11:50
2711-251118-COMP A	A5K1621-19	Soil	11/18/25 08:45	11/19/25 11:50
2711-251118-COMP B	A5K1621-20	Soil	11/18/25 09:05	11/19/25 11:50
2711-251118-COMP C	A5K1621-21	Soil	11/18/25 10:27	11/19/25 11:50
2711-251118-COMP D	A5K1621-22	Soil	11/18/25 10:30	11/19/25 11:50
2711-251118-COMP E	A5K1621-23	Soil	11/18/25 10:10	11/19/25 11:50
2711-251118-COMP F	A5K1621-24	Soil	11/18/25 10:15	11/19/25 11:50

Apex Laboratories

Jason Woodcock, Project Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP A (A5K1621-19)				**Matrix: Soil**		**Batch: 25K0921**		**COMP**
Diesel	ND	---	40.4	mg/kg dry	2	11/22/25 19:45	NWTPH-Dx	
Oil	**163**	---	80.8	mg/kg dry	2	11/22/25 19:45	NWTPH-Dx	**F-03**
Surrogate: o-Terphenyl (Surr)		*Recovery: 91 %*		*Limits: 50-150 %*	*2*	*11/22/25 19:45*	*NWTPH-Dx*	
2711-251118-COMP B (A5K1621-20)				**Matrix: Soil**		**Batch: 25K0921**		**COMP**
Diesel	ND	---	102	mg/kg dry	5	11/22/25 16:53	NWTPH-Dx	
Oil	**953**	---	203	mg/kg dry	5	11/22/25 16:53	NWTPH-Dx	**F-13**
Surrogate: o-Terphenyl (Surr)		*Recovery: 88 %*		*Limits: 50-150 %*	*5*	*11/22/25 16:53*	*NWTPH-Dx*	*S-05*
2711-251118-COMP C (A5K1621-21)				**Matrix: Soil**		**Batch: 25K0921**		**COMP**
Diesel	ND	---	20.4	mg/kg dry	1	11/22/25 17:36	NWTPH-Dx	
Oil	**41.4**	---	40.9	mg/kg dry	1	11/22/25 17:36	NWTPH-Dx	**F-13**
Surrogate: o-Terphenyl (Surr)		*Recovery: 88 %*		*Limits: 50-150 %*	*1*	*11/22/25 17:36*	*NWTPH-Dx*	
2711-251118-COMP D (A5K1621-22)				**Matrix: Soil**		**Batch: 25K0921**		**COMP**
Diesel	ND	---	393	mg/kg dry	20	11/22/25 18:19	NWTPH-Dx	
Oil	**3070**	---	786	mg/kg dry	20	11/22/25 18:19	NWTPH-Dx	**F-13**
Surrogate: o-Terphenyl (Surr)		*Recovery: %*		*Limits: 50-150 %*	*20*	*11/22/25 18:19*	*NWTPH-Dx*	*S-01*
2711-251118-COMP E (A5K1621-23)				**Matrix: Soil**		**Batch: 25K0921**		**COMP**
Diesel	ND	---	193	mg/kg dry	10	11/22/25 19:02	NWTPH-Dx	
Oil	**1860**	---	387	mg/kg dry	10	11/22/25 19:02	NWTPH-Dx	**F-13**
Surrogate: o-Terphenyl (Surr)		*Recovery: 77 %*		*Limits: 50-150 %*	*10*	*11/22/25 19:02*	*NWTPH-Dx*	*S-05*
2711-251118-COMP F (A5K1621-24RE1)				**Matrix: Soil**		**Batch: 25K0921**		**COMP**
Diesel	ND	---	40.8	mg/kg dry	2	11/24/25 14:47	NWTPH-Dx	
Oil	**476**	---	81.6	mg/kg dry	2	11/24/25 14:47	NWTPH-Dx	**F-03**
Surrogate: o-Terphenyl (Surr)		*Recovery: 89 %*		*Limits: 50-150 %*	*2*	*11/24/25 14:47*	*NWTPH-Dx*	

Apex Laboratories

Jason Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP A (A5K1621-19RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
Gasoline Range Organics	ND	---	6.57	mg/kg dry	50	11/21/25 19:37	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 117 %*	*Limits: 50-150 %*		*1*	*11/21/25 19:37*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*106 %*	*50-150 %*		*1*	*11/21/25 19:37*	*NWTPH-Gx (MS)*	
2711-251118-COMP B (A5K1621-20RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
Gasoline Range Organics	**17.7**	---	7.43	mg/kg dry	50	11/21/25 20:04	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 119 %*	*Limits: 50-150 %*		*1*	*11/21/25 20:04*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*105 %*	*50-150 %*		*1*	*11/21/25 20:04*	*NWTPH-Gx (MS)*	
2711-251118-COMP C (A5K1621-21RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
Gasoline Range Organics	ND	---	7.26	mg/kg dry	50	11/21/25 20:30	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 118 %*	*Limits: 50-150 %*		*1*	*11/21/25 20:30*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*104 %*	*50-150 %*		*1*	*11/21/25 20:30*	*NWTPH-Gx (MS)*	
2711-251118-COMP D (A5K1621-22)				**Matrix: Soil**		**Batch: 25K0835**		**COMP**
Gasoline Range Organics	**137**	---	12.6	mg/kg dry	100	11/20/25 17:22	NWTPH-Gx (MS)	**F-03**
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 110 %*	*Limits: 50-150 %*		*1*	*11/20/25 17:22*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*99 %*	*50-150 %*		*1*	*11/20/25 17:22*	*NWTPH-Gx (MS)*	
2711-251118-COMP E (A5K1621-23RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
Gasoline Range Organics	**9.55**	---	5.86	mg/kg dry	50	11/21/25 20:56	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 116 %*	*Limits: 50-150 %*		*1*	*11/21/25 20:56*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*105 %*	*50-150 %*		*1*	*11/21/25 20:56*	*NWTPH-Gx (MS)*	
2711-251118-COMP F (A5K1621-24RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
Gasoline Range Organics	ND	---	6.94	mg/kg dry	50	11/21/25 21:22	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 119 %*	*Limits: 50-150 %*		*1*	*11/21/25 21:22*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*106 %*	*50-150 %*		*1*	*11/21/25 21:22*	*NWTPH-Gx (MS)*	

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Jason Woodcock, Project Manager

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP A (A5K1621-19RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
Acetone	ND	---	1.31	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Acrylonitrile	ND	---	0.131	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Benzene	ND	---	0.0131	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Bromobenzene	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Bromochloromethane	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Bromodichloromethane	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Bromoform	ND	---	0.131	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Bromomethane	ND	---	0.657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
2-Butanone (MEK)	ND	---	0.657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
n-Butylbenzene	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
sec-Butylbenzene	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
tert-Butylbenzene	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Carbon disulfide	ND	---	0.657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Carbon tetrachloride	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Chlorobenzene	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Chloroethane	ND	---	0.657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Chloroform	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Chloromethane	ND	---	0.329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
2-Chlorotoluene	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
4-Chlorotoluene	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Dibromochloromethane	ND	---	0.131	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Dibromomethane	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.131	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	

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Jason Woodcock, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP A (A5K1621-19RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
cis-1,3-Dichloropropene	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Ethylbenzene	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Hexachlorobutadiene	ND	---	0.131	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
2-Hexanone	ND	---	0.657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Isopropylbenzene	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Methylene chloride	ND	---	0.657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Naphthalene	**0.393**	---	0.131	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
n-Propylbenzene	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Styrene	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Toluene	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Trichlorofluoromethane	ND	---	0.329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Vinyl chloride	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
m,p-Xylene	ND	---	0.0657	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
o-Xylene	ND	---	0.0329	mg/kg dry	50	11/21/25 19:37	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*107 %*	*Limits: 80-120 %*	*1*	*11/21/25 19:37*	*5035A/8260D*	
Toluene-d8 (Surr)			*90 %*	*80-120 %*	*1*	*11/21/25 19:37*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*98 %*	*79-120 %*	*1*	*11/21/25 19:37*	*5035A/8260D*	
2711-251118-COMP B (A5K1621-20RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
Acetone	ND	---	1.49	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Acrylonitrile	ND	---	0.149	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Benzene	ND	---	0.0149	mg/kg dry	50	11/21/25 20:04	5035A/8260D	

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP B (A5K1621-20RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
Bromobenzene	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Bromochloromethane	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Bromodichloromethane	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Bromoform	ND	---	0.149	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Bromomethane	ND	---	0.743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
2-Butanone (MEK)	ND	---	0.743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
n-Butylbenzene	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
sec-Butylbenzene	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
tert-Butylbenzene	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Carbon disulfide	ND	---	0.743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Carbon tetrachloride	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Chlorobenzene	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Chloroethane	ND	---	0.743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Chloroform	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Chloromethane	ND	---	0.371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
2-Chlorotoluene	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
4-Chlorotoluene	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Dibromochloromethane	ND	---	0.149	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Dibromomethane	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.149	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Ethylbenzene	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	

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Jason Woodcock, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP B (A5K1621-20RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
Hexachlorobutadiene	ND	---	0.149	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
2-Hexanone	ND	---	0.743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Isopropylbenzene	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Methylene chloride	ND	---	0.743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Naphthalene	**1.15**	---	0.149	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
n-Propylbenzene	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Styrene	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Toluene	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Trichlorofluoromethane	ND	---	0.371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Vinyl chloride	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
m,p-Xylene	ND	---	0.0743	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
o-Xylene	ND	---	0.0371	mg/kg dry	50	11/21/25 20:04	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*105 %*	*Limits: 80-120 %*	*1*	*11/21/25 20:04*	*5035A/8260D*	
Toluene-d8 (Surr)			*90 %*	*80-120 %*	*1*	*11/21/25 20:04*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*96 %*	*79-120 %*	*1*	*11/21/25 20:04*	*5035A/8260D*	
2711-251118-COMP C (A5K1621-21RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
Acetone	ND	---	1.45	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Acrylonitrile	ND	---	0.145	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Benzene	ND	---	0.0145	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Bromobenzene	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Bromochloromethane	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Bromodichloromethane	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	

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Jason Woodcock, Project Manager

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

NW Natural	Project: LNG Soil	
220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP C (A5K1621-21RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
Bromoform	ND	---	0.145	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Bromomethane	ND	---	0.726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
2-Butanone (MEK)	ND	---	0.726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
n-Butylbenzene	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
sec-Butylbenzene	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
tert-Butylbenzene	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Carbon disulfide	ND	---	0.726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Carbon tetrachloride	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Chlorobenzene	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Chloroethane	ND	---	0.726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Chloroform	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Chloromethane	ND	---	0.363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
2-Chlorotoluene	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
4-Chlorotoluene	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Dibromochloromethane	ND	---	0.145	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Dibromomethane	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.145	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Ethylbenzene	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Hexachlorobutadiene	ND	---	0.145	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
2-Hexanone	ND	---	0.726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Isopropylbenzene	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	

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Jason Woodcock, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP C (A5K1621-21RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
4-Isopropyltoluene	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Methylene chloride	ND	---	0.726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Naphthalene	ND	---	0.145	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
n-Propylbenzene	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Styrene	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Toluene	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Trichlorofluoromethane	ND	---	0.363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Vinyl chloride	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
m,p-Xylene	ND	---	0.0726	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
o-Xylene	ND	---	0.0363	mg/kg dry	50	11/21/25 20:30	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 105 %*		*Limits: 80-120 %*	*1*	*11/21/25 20:30*	*5035A/8260D*	
Toluene-d8 (Surr)			*91 %*	*80-120 %*	*1*	*11/21/25 20:30*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*98 %*	*79-120 %*	*1*	*11/21/25 20:30*	*5035A/8260D*	
2711-251118-COMP D (A5K1621-22)				**Matrix: Soil**		**Batch: 25K0835**		**COMP**
Acetone	ND	---	2.51	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Acrylonitrile	ND	---	0.251	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Benzene	**0.0503**	---	0.0251	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Bromobenzene	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Bromochloromethane	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Bromodichloromethane	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Bromoform	ND	---	0.251	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Bromomethane	ND	---	1.26	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
2-Butanone (MEK)	ND	---	1.26	mg/kg dry	100	11/20/25 17:22	5035A/8260D	

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Jason Woodcock, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP D (A5K1621-22)				**Matrix: Soil**		**Batch: 25K0835**		**COMP**
n-Butylbenzene	**0.233**	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	**M-02**
sec-Butylbenzene	**0.147**	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
tert-Butylbenzene	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Carbon disulfide	ND	---	1.26	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Carbon tetrachloride	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Chlorobenzene	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Chloroethane	ND	---	1.26	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Chloroform	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Chloromethane	ND	---	0.629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
2-Chlorotoluene	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
4-Chlorotoluene	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Dibromochloromethane	ND	---	0.251	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Dibromomethane	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.251	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,3-Dichloropropane	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
2,2-Dichloropropane	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,1-Dichloropropene	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Ethylbenzene	**0.270**	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Hexachlorobutadiene	ND	---	0.251	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
2-Hexanone	ND	---	1.26	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Isopropylbenzene	**0.251**	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
4-Isopropyltoluene	**0.326**	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	**M-02**
Methylene chloride	ND	---	1.26	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	1.26	mg/kg dry	100	11/20/25 17:22	5035A/8260D	

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Jason Woodcock, Project Manager

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ORELAP ID: OR100062

ANALYTICAL REPORT

NW Natural	Project: LNG Soil	
220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP D (A5K1621-22)				**Matrix: Soil**		**Batch: 25K0835**		**COMP**
Methyl tert-butyl ether (MTBE)	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
n-Propylbenzene	**0.331**	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Styrene	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Toluene	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Trichlorofluoromethane	ND	---	0.629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,2,4-Trimethylbenzene	**2.68**	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
1,3,5-Trimethylbenzene	**0.279**	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Vinyl chloride	ND	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
m,p-Xylene	**0.234**	---	0.126	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
o-Xylene	**0.226**	---	0.0629	mg/kg dry	100	11/20/25 17:22	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*101 %*	*Limits: 80-120 %*	*1*	*11/20/25 17:22*	*5035A/8260D*	
Toluene-d8 (Surr)			*94 %*	*80-120 %*	*1*	*11/20/25 17:22*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*100 %*	*79-120 %*	*1*	*11/20/25 17:22*	*5035A/8260D*	
2711-251118-COMP D (A5K1621-22RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
Naphthalene	**72.1**	---	5.03	mg/kg dry	2000	11/21/25 19:11	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*104 %*	*Limits: 80-120 %*	*1*	*11/21/25 19:11*	*5035A/8260D*	
Toluene-d8 (Surr)			*91 %*	*80-120 %*	*1*	*11/21/25 19:11*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*97 %*	*79-120 %*	*1*	*11/21/25 19:11*	*5035A/8260D*	
2711-251118-COMP E (A5K1621-23RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
Acetone	ND	---	1.17	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Acrylonitrile	ND	---	0.117	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Benzene	**0.0176**	---	0.0117	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Bromobenzene	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Bromochloromethane	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Bromodichloromethane	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	

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Jason Woodcock, Project Manager

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP E (A5K1621-23RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
Bromoform	ND	---	0.117	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Bromomethane	ND	---	0.586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
2-Butanone (MEK)	ND	---	0.586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
n-Butylbenzene	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
sec-Butylbenzene	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
tert-Butylbenzene	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Carbon disulfide	ND	---	0.586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Carbon tetrachloride	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Chlorobenzene	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Chloroethane	ND	---	0.586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Chloroform	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Chloromethane	ND	---	0.293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
2-Chlorotoluene	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
4-Chlorotoluene	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Dibromochloromethane	ND	---	0.117	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Dibromomethane	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.117	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Ethylbenzene	**0.0551**	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Hexachlorobutadiene	ND	---	0.117	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
2-Hexanone	ND	---	0.586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Isopropylbenzene	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	

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Jason Woodcock, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP E (A5K1621-23RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
4-Isopropyltoluene	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Methylene chloride	ND	---	0.586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Naphthalene	**2.78**	---	0.117	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
n-Propylbenzene	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Styrene	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Toluene	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Trichlorofluoromethane	ND	---	0.293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Vinyl chloride	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
m,p-Xylene	ND	---	0.0586	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
o-Xylene	ND	---	0.0293	mg/kg dry	50	11/21/25 20:56	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 105 %*		*Limits: 80-120 %*	*1*	*11/21/25 20:56*	*5035A/8260D*	
Toluene-d8 (Surr)			*90 %*	*80-120 %*	*1*	*11/21/25 20:56*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*98 %*	*79-120 %*	*1*	*11/21/25 20:56*	*5035A/8260D*	
2711-251118-COMP F (A5K1621-24RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
Acetone	ND	---	1.39	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Acrylonitrile	ND	---	0.139	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Benzene	ND	---	0.0139	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Bromobenzene	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Bromochloromethane	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Bromodichloromethane	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Bromoform	ND	---	0.139	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Bromomethane	ND	---	0.694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
2-Butanone (MEK)	ND	---	0.694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	

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Jason Woodcock, Project Manager

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Apex Laboratories, LLC

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP F (A5K1621-24RE1)				**Matrix: Soil**		**Batch: 25K0880**		**COMP**
n-Butylbenzene	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
sec-Butylbenzene	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
tert-Butylbenzene	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Carbon disulfide	ND	---	0.694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Carbon tetrachloride	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Chlorobenzene	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Chloroethane	ND	---	0.694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Chloroform	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Chloromethane	ND	---	0.347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
2-Chlorotoluene	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
4-Chlorotoluene	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Dibromochloromethane	ND	---	0.139	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Dibromomethane	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.139	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Ethylbenzene	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Hexachlorobutadiene	ND	---	0.139	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
2-Hexanone	ND	---	0.694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Isopropylbenzene	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Methylene chloride	ND	---	0.694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP F (A5K1621-24RE1)				**Matrix: Soil**			**Batch: 25K0880**	**COMP**
Methyl tert-butyl ether (MTBE)	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Naphthalene	**0.399**	---	0.139	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
n-Propylbenzene	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Styrene	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Toluene	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Trichlorofluoromethane	ND	---	0.347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Vinyl chloride	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
m,p-Xylene	ND	---	0.0694	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
o-Xylene	ND	---	0.0347	mg/kg dry	50	11/21/25 21:22	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*105 %*	*Limits: 80-120 %*	*1*	*11/21/25 21:22*	*5035A/8260D*	
Toluene-d8 (Surr)			*90 %*	*80-120 %*	*1*	*11/21/25 21:22*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*98 %*	*79-120 %*	*1*	*11/21/25 21:22*	*5035A/8260D*	

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Jason Woodcock, Project Manager

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ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP A (A5K1621-19)				**Matrix: Soil**		**Batch: 25K1055**		**C-07, COMP**
Aroclor 1016	ND	---	0.00992	mg/kg dry	1	11/26/25 19:21	EPA 8082A	
Aroclor 1221	ND	---	0.00992	mg/kg dry	1	11/26/25 19:21	EPA 8082A	
Aroclor 1232	ND	---	0.00992	mg/kg dry	1	11/26/25 19:21	EPA 8082A	
Aroclor 1242	ND	---	0.00992	mg/kg dry	1	11/26/25 19:21	EPA 8082A	
Aroclor 1248	ND	---	0.00992	mg/kg dry	1	11/26/25 19:21	EPA 8082A	
Aroclor 1254	ND	---	0.00992	mg/kg dry	1	11/26/25 19:21	EPA 8082A	Q-39
Aroclor 1260	ND	---	0.00992	mg/kg dry	1	11/26/25 19:21	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 101 %*		*Limits: 60-125 %*	*1*	*11/26/25 19:21*	*EPA 8082A*	
2711-251118-COMP B (A5K1621-20RE1)				**Matrix: Soil**		**Batch: 25K1055**		**C-07, COMP**
Aroclor 1016	ND	---	0.0100	mg/kg dry	1	12/01/25 11:24	EPA 8082A	
Aroclor 1221	ND	---	0.0100	mg/kg dry	1	12/01/25 11:24	EPA 8082A	
Aroclor 1232	ND	---	0.0100	mg/kg dry	1	12/01/25 11:24	EPA 8082A	
Aroclor 1242	ND	---	0.0100	mg/kg dry	1	12/01/25 11:24	EPA 8082A	
Aroclor 1248	ND	---	0.0100	mg/kg dry	1	12/01/25 11:24	EPA 8082A	
Aroclor 1254	ND	---	0.0100	mg/kg dry	1	12/01/25 11:24	EPA 8082A	
Aroclor 1260	ND	---	0.0100	mg/kg dry	1	12/01/25 11:24	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 78 %*		*Limits: 60-125 %*	*1*	*12/01/25 11:24*	*EPA 8082A*	
2711-251118-COMP C (A5K1621-21)				**Matrix: Soil**		**Batch: 25K1055**		**C-07, COMP**
Aroclor 1016	ND	---	0.0102	mg/kg dry	1	11/26/25 21:08	EPA 8082A	
Aroclor 1221	ND	---	0.0102	mg/kg dry	1	11/26/25 21:08	EPA 8082A	
Aroclor 1232	ND	---	0.0102	mg/kg dry	1	11/26/25 21:08	EPA 8082A	
Aroclor 1242	ND	---	0.0102	mg/kg dry	1	11/26/25 21:08	EPA 8082A	
Aroclor 1248	ND	---	0.0102	mg/kg dry	1	11/26/25 21:08	EPA 8082A	
Aroclor 1254	ND	---	0.0102	mg/kg dry	1	11/26/25 21:08	EPA 8082A	
Aroclor 1260	ND	---	0.0102	mg/kg dry	1	11/26/25 21:08	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 95 %*		*Limits: 60-125 %*	*1*	*11/26/25 21:08*	*EPA 8082A*	
2711-251118-COMP D (A5K1621-22RE1)				**Matrix: Soil**		**Batch: 25K1055**		**C-07, COMP**
Aroclor 1016	ND	---	0.0100	mg/kg dry	1	12/01/25 12:00	EPA 8082A	
Aroclor 1221	ND	---	0.0100	mg/kg dry	1	12/01/25 12:00	EPA 8082A	
Aroclor 1232	ND	---	0.0100	mg/kg dry	1	12/01/25 12:00	EPA 8082A	
Aroclor 1242	ND	---	0.0100	mg/kg dry	1	12/01/25 12:00	EPA 8082A	
Aroclor 1248	ND	---	0.0100	mg/kg dry	1	12/01/25 12:00	EPA 8082A	
Aroclor 1254	ND	---	0.0100	mg/kg dry	1	12/01/25 12:00	EPA 8082A	

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Jason Woodcock, Project Manager

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Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP D (A5K1621-22RE1)				**Matrix: Soil**		**Batch: 25K1055**		**C-07, COMP**
Aroclor 1260	**0.280**	---	0.0100	mg/kg dry	1	12/01/25 12:00	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 68 %*		*Limits: 60-125 %*	*1*	*12/01/25 12:00*	*EPA 8082A*	
2711-251118-COMP E (A5K1621-23RE1)				**Matrix: Soil**		**Batch: 25K1055**		**C-07, COMP**
Aroclor 1016	ND	---	0.00983	mg/kg dry	1	12/01/25 12:35	EPA 8082A	
Aroclor 1221	ND	---	0.00983	mg/kg dry	1	12/01/25 12:35	EPA 8082A	
Aroclor 1232	ND	---	0.00983	mg/kg dry	1	12/01/25 12:35	EPA 8082A	
Aroclor 1242	ND	---	0.00983	mg/kg dry	1	12/01/25 12:35	EPA 8082A	
Aroclor 1248	ND	---	0.00983	mg/kg dry	1	12/01/25 12:35	EPA 8082A	
Aroclor 1254	ND	---	0.00983	mg/kg dry	1	12/01/25 12:35	EPA 8082A	
Aroclor 1260	ND	---	0.00983	mg/kg dry	1	12/01/25 12:35	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 73 %*		*Limits: 60-125 %*	*1*	*12/01/25 12:35*	*EPA 8082A*	
2711-251118-COMP F (A5K1621-24RE1)				**Matrix: Soil**		**Batch: 25K1055**		**C-07, COMP**
Aroclor 1016	ND	---	0.0105	mg/kg dry	1	12/01/25 13:11	EPA 8082A	
Aroclor 1221	ND	---	0.0105	mg/kg dry	1	12/01/25 13:11	EPA 8082A	
Aroclor 1232	ND	---	0.0105	mg/kg dry	1	12/01/25 13:11	EPA 8082A	
Aroclor 1242	ND	---	0.0105	mg/kg dry	1	12/01/25 13:11	EPA 8082A	
Aroclor 1248	ND	---	0.0105	mg/kg dry	1	12/01/25 13:11	EPA 8082A	
Aroclor 1254	ND	---	0.0105	mg/kg dry	1	12/01/25 13:11	EPA 8082A	
Aroclor 1260	ND	---	0.0105	mg/kg dry	1	12/01/25 13:11	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 87 %*		*Limits: 60-125 %*	*1*	*12/01/25 13:11*	*EPA 8082A*	

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Jason Woodcock, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP A (A5K1621-19)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
Acenaphthene	ND	---	0.302	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Acenaphthylene	ND	---	0.302	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Anthracene	ND	---	0.302	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Benz(a)anthracene	**1.22**	---	0.302	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Benzo(a)pyrene	**2.25**	---	0.452	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Benzo(b)fluoranthene	**2.42**	---	0.452	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Benzo(k)fluoranthene	**0.959**	---	0.452	mg/kg dry	100	11/21/25 17:09	EPA 8270E	**M-05**
Benzo(g,h,i)perylene	**2.51**	---	0.302	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Chrysene	**1.64**	---	0.302	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	0.302	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Fluoranthene	**2.31**	---	0.302	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Fluorene	ND	---	0.302	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Indeno(1,2,3-cd)pyrene	**1.98**	---	0.302	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
1-Methylnaphthalene	ND	---	0.603	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2-Methylnaphthalene	ND	---	0.603	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Naphthalene	ND	---	0.603	mg/kg dry	100	11/21/25 17:09	EPA 8270E	Q-42
Phenanthrene	**0.952**	---	0.302	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Pyrene	**2.94**	---	0.302	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Carbazole	ND	---	0.452	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Dibenzofuran	ND	---	0.302	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2-Chlorophenol	ND	---	1.50	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
4-Chloro-3-methylphenol	ND	---	3.02	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2,4-Dichlorophenol	ND	---	1.50	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2,6-Dichlorophenol	ND	---	1.50	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2,4-Dimethylphenol	ND	---	1.50	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2,4-Dinitrophenol	ND	---	7.54	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	---	7.54	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2-Methylphenol	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
3+4-Methylphenol(s)	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2-Nitrophenol	ND	---	3.02	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
4-Nitrophenol	ND	---	3.02	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Pentachlorophenol (PCP)	ND	---	3.02	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Phenol	ND	---	0.603	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	1.50	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	1.50	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	1.50	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	1.50	mg/kg dry	100	11/21/25 17:09	EPA 8270E	

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Jason Woodcock, Project Manager

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Tigard, OR 97223
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ORELAP ID: OR100062

ANALYTICAL REPORT

NW Natural	Project: LNG Soil	
220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP A (A5K1621-19)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
Bis(2-ethylhexyl)phthalate	ND	---	4.52	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Butyl benzyl phthalate	ND	---	3.02	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Diethylphthalate	ND	---	3.02	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Dimethylphthalate	ND	---	3.02	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Di-n-butylphthalate	ND	---	3.02	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Di-n-octyl phthalate	ND	---	3.02	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
N-Nitrosodimethylamine	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
N-Nitrosodiphenylamine	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Hexachlorobenzene	ND	---	0.302	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Hexachlorobutadiene	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Hexachlorocyclopentadiene	ND	---	1.50	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Hexachloroethane	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2-Chloronaphthalene	ND	---	0.302	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
1,2,4-Trichlorobenzene	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
4-Bromophenyl phenyl ether	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Aniline	ND	---	1.50	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
4-Chloroaniline	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2-Nitroaniline	ND	---	6.03	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
3-Nitroaniline	ND	---	6.03	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
4-Nitroaniline	ND	---	6.03	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Nitrobenzene	ND	---	3.02	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2,4-Dinitrotoluene	ND	---	3.02	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
2,6-Dinitrotoluene	ND	---	3.02	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Benzoic acid	ND	---	37.7	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Benzyl alcohol	ND	---	3.01	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Isophorone	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Azobenzene (1,2-DPH)	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	---	7.54	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
3,3'-Dichlorobenzidine	ND	---	6.03	mg/kg dry	100	11/21/25 17:09	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	---	7.54	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
1,3-Dinitrobenzene	ND	---	7.54	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
1,4-Dinitrobenzene	ND	---	7.54	mg/kg dry	100	11/21/25 17:09	EPA 8270E	

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Jason Woodcock, Project Manager

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

NW Natural	Project: LNG Soil	
220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP A (A5K1621-19)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
Pyridine	ND	---	1.50	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
1,2-Dichlorobenzene	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
1,3-Dichlorobenzene	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
1,4-Dichlorobenzene	ND	---	0.754	mg/kg dry	100	11/21/25 17:09	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*73 %*	*Limits: 37-122 %*	*100*	*11/21/25 17:09*	*EPA 8270E*	*S-05*
2-Fluorobiphenyl (Surr)			*68 %*	*44-120 %*	*100*	*11/21/25 17:09*	*EPA 8270E*	*S-05*
Phenol-d6 (Surr)			*65 %*	*33-122 %*	*100*	*11/21/25 17:09*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)			*76 %*	*54-127 %*	*100*	*11/21/25 17:09*	*EPA 8270E*	*S-05*
2-Fluorophenol (Surr)			*70 %*	*35-120 %*	*100*	*11/21/25 17:09*	*EPA 8270E*	*S-05*
2,4,6-Tribromophenol (Surr)			*96 %*	*39-132 %*	*100*	*11/21/25 17:09*	*EPA 8270E*	*S-05*
2711-251118-COMP B (A5K1621-20)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
Acenaphthene	ND	---	2.97	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Acenaphthylene	ND	---	2.97	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Anthracene	ND	---	2.97	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Benz(a)anthracene	**5.19**	---	2.97	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Benzo(a)pyrene	**8.50**	---	4.45	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Benzo(b)fluoranthene	**8.90**	---	4.45	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Benzo(k)fluoranthene	ND	---	4.45	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Benzo(g,h,i)perylene	**10.8**	---	2.97	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Chrysene	**7.04**	---	2.97	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	2.97	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Fluoranthene	**13.6**	---	2.97	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Fluorene	ND	---	2.97	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Indeno(1,2,3-cd)pyrene	**8.32**	---	2.97	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
1-Methylnaphthalene	ND	---	5.93	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2-Methylnaphthalene	ND	---	5.93	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Naphthalene	ND	---	5.93	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Phenanthrene	**15.7**	---	2.97	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Pyrene	**17.6**	---	2.97	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Carbazole	ND	---	4.45	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Dibenzofuran	ND	---	2.97	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2-Chlorophenol	ND	---	14.8	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
4-Chloro-3-methylphenol	ND	---	29.7	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2,4-Dichlorophenol	ND	---	14.8	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2,6-Dichlorophenol	ND	---	14.8	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	

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Jason Woodcock, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP B (A5K1621-20)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
2,4-Dimethylphenol	ND	---	14.8	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2,4-Dinitrophenol	ND	---	74.2	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	---	74.2	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2-Methylphenol	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
3+4-Methylphenol(s)	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2-Nitrophenol	ND	---	29.7	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
4-Nitrophenol	ND	---	29.7	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Pentachlorophenol (PCP)	ND	---	29.7	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Phenol	ND	---	5.93	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	14.8	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	14.8	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	14.8	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	14.8	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	---	44.5	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Butyl benzyl phthalate	ND	---	29.7	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Diethylphthalate	ND	---	29.7	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Dimethylphthalate	ND	---	29.7	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Di-n-butylphthalate	ND	---	29.7	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Di-n-octyl phthalate	ND	---	29.7	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
N-Nitrosodimethylamine	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
N-Nitrosodiphenylamine	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Hexachlorobenzene	ND	---	2.97	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Hexachlorobutadiene	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Hexachlorocyclopentadiene	ND	---	14.8	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Hexachloroethane	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2-Chloronaphthalene	ND	---	2.97	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
1,2,4-Trichlorobenzene	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
4-Bromophenyl phenyl ether	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Aniline	ND	---	14.8	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
4-Chloroaniline	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2-Nitroaniline	ND	---	59.3	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
3-Nitroaniline	ND	---	59.3	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	

Apex Laboratories

Jason Woodcock, Project Manager

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Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP B (A5K1621-20)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
4-Nitroaniline	ND	---	59.3	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Nitrobenzene	ND	---	29.7	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2,4-Dinitrotoluene	ND	---	29.7	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
2,6-Dinitrotoluene	ND	---	29.7	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Benzoic acid	ND	---	371	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Benzyl alcohol	ND	---	29.6	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Isophorone	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Azobenzene (1,2-DPH)	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	---	74.2	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
3,3'-Dichlorobenzidine	ND	---	59.3	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	---	74.2	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
1,3-Dinitrobenzene	ND	---	74.2	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
1,4-Dinitrobenzene	ND	---	74.2	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Pyridine	ND	---	14.8	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
1,2-Dichlorobenzene	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
1,3-Dichlorobenzene	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
1,4-Dichlorobenzene	ND	---	7.42	mg/kg dry	1000	11/21/25 18:22	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*78 %*	*Limits: 37-122 %*	*1000*	*11/21/25 18:22*	*EPA 8270E*	*S-05*
2-Fluorobiphenyl (Surr)			*67 %*	*44-120 %*	*1000*	*11/21/25 18:22*	*EPA 8270E*	*S-05*
Phenol-d6 (Surr)			*57 %*	*33-122 %*	*1000*	*11/21/25 18:22*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)			*74 %*	*54-127 %*	*1000*	*11/21/25 18:22*	*EPA 8270E*	*S-05*
2-Fluorophenol (Surr)			*17 %*	*35-120 %*	*1000*	*11/21/25 18:22*	*EPA 8270E*	*S-05*
2,4,6-Tribromophenol (Surr)			*%*	*39-132 %*	*1000*	*11/21/25 18:22*	*EPA 8270E*	*S-01*
2711-251118-COMP C (A5K1621-21)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
Acenaphthene	ND	---	0.0772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Acenaphthylene	ND	---	0.0772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Anthracene	ND	---	0.0772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Benz(a)anthracene	**0.176**	---	0.0772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Benzo(a)pyrene	**0.347**	---	0.116	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Benzo(b)fluoranthene	**0.379**	---	0.116	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Benzo(k)fluoranthene	**0.140**	---	0.116	mg/kg dry	25	11/21/25 18:58	EPA 8270E	**M-05**
Benzo(g,h,i)perylene	**0.415**	---	0.0772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Chrysene	**0.230**	---	0.0772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	0.0772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Fluoranthene	**0.305**	---	0.0772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP C (A5K1621-21)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
Fluorene	ND	---	0.0772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Indeno(1,2,3-cd)pyrene	**0.332**	---	0.0772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
1-Methylnaphthalene	ND	---	0.154	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2-Methylnaphthalene	ND	---	0.154	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Naphthalene	ND	---	0.154	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Phenanthrene	**0.141**	---	0.0772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Pyrene	**0.342**	---	0.0772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Carbazole	ND	---	0.116	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Dibenzofuran	ND	---	0.0772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2-Chlorophenol	ND	---	0.385	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
4-Chloro-3-methylphenol	ND	---	0.772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2,4-Dichlorophenol	ND	---	0.385	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2,6-Dichlorophenol	ND	---	0.385	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2,4-Dimethylphenol	ND	---	0.385	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2,4-Dinitrophenol	ND	---	1.93	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	---	1.93	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2-Methylphenol	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
3+4-Methylphenol(s)	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2-Nitrophenol	ND	---	0.772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
4-Nitrophenol	ND	---	0.772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Pentachlorophenol (PCP)	ND	---	0.772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Phenol	ND	---	0.154	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	0.385	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	0.385	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	0.385	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	0.385	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	---	1.16	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Butyl benzyl phthalate	ND	---	0.772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Diethylphthalate	ND	---	0.772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Dimethylphthalate	ND	---	0.772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Di-n-butylphthalate	ND	---	0.772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Di-n-octyl phthalate	ND	---	0.772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
N-Nitrosodimethylamine	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
N-Nitrosodiphenylamine	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	

Apex Laboratories

Jason Woodcock, Project Manager

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP C (A5K1621-21)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
2,2'-Oxybis(1-Chloropropane)	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Hexachlorobenzene	ND	---	0.0772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Hexachlorobutadiene	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Hexachlorocyclopentadiene	ND	---	0.385	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Hexachloroethane	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2-Chloronaphthalene	ND	---	0.0772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
1,2,4-Trichlorobenzene	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
4-Bromophenyl phenyl ether	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Aniline	ND	---	0.385	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
4-Chloroaniline	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2-Nitroaniline	ND	---	1.54	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
3-Nitroaniline	ND	---	1.54	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
4-Nitroaniline	ND	---	1.54	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Nitrobenzene	ND	---	0.772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2,4-Dinitrotoluene	ND	---	0.772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
2,6-Dinitrotoluene	ND	---	0.772	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Benzoic acid	ND	---	9.63	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Benzyl alcohol	ND	---	0.769	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Isophorone	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Azobenzene (1,2-DPH)	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	---	1.93	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
3,3'-Dichlorobenzidine	ND	---	1.54	mg/kg dry	25	11/21/25 18:58	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	---	1.93	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
1,3-Dinitrobenzene	ND	---	1.93	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
1,4-Dinitrobenzene	ND	---	1.93	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Pyridine	ND	---	0.385	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
1,2-Dichlorobenzene	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
1,3-Dichlorobenzene	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
1,4-Dichlorobenzene	ND	---	0.193	mg/kg dry	25	11/21/25 18:58	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*77 %*	*Limits: 37-122 %*	*25*	*11/21/25 18:58*	*EPA 8270E*	*S-05*
2-Fluorobiphenyl (Surr)			*77 %*	*44-120 %*	*25*	*11/21/25 18:58*	*EPA 8270E*	*S-05*
Phenol-d6 (Surr)			*71 %*	*33-122 %*	*25*	*11/21/25 18:58*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)			*88 %*	*54-127 %*	*25*	*11/21/25 18:58*	*EPA 8270E*	*S-05*
2-Fluorophenol (Surr)			*69 %*	*35-120 %*	*25*	*11/21/25 18:58*	*EPA 8270E*	*S-05*
2,4,6-Tribromophenol (Surr)			*68 %*	*39-132 %*	*25*	*11/21/25 18:58*	*EPA 8270E*	*S-05*

Apex Laboratories

Jason Woodcock, Project Manager

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

NW Natural	Project: LNG Soil	
220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP D (A5K1621-22)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
Acenaphthene	**3.25**	---	2.92	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Acenaphthylene	**6.89**	---	2.92	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Anthracene	**20.4**	---	2.92	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Benz(a)anthracene	**58.0**	---	2.92	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Benzo(a)pyrene	**77.8**	---	4.38	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Benzo(b)fluoranthene	**80.0**	---	4.38	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Benzo(k)fluoranthene	**26.8**	---	4.38	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	**M-05**
Benzo(g,h,i)perylene	**81.5**	---	2.92	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Chrysene	**81.6**	---	2.92	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Dibenz(a,h)anthracene	**7.89**	---	2.92	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Fluoranthene	**207**	---	2.92	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Fluorene	**12.2**	---	2.92	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Indeno(1,2,3-cd)pyrene	**59.6**	---	2.92	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
1-Methylnaphthalene	**10.3**	---	5.84	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2-Methylnaphthalene	**11.9**	---	5.84	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Naphthalene	**80.4**	---	5.84	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Phenanthrene	**197**	---	2.92	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Pyrene	**227**	---	2.92	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Carbazole	ND	---	4.38	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Dibenzofuran	**3.00**	---	2.92	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2-Chlorophenol	ND	---	14.6	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
4-Chloro-3-methylphenol	ND	---	29.2	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2,4-Dichlorophenol	ND	---	14.6	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2,6-Dichlorophenol	ND	---	14.6	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2,4-Dimethylphenol	ND	---	14.6	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2,4-Dinitrophenol	ND	---	73.0	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	---	73.0	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2-Methylphenol	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
3+4-Methylphenol(s)	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2-Nitrophenol	ND	---	29.2	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
4-Nitrophenol	ND	---	29.2	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Pentachlorophenol (PCP)	ND	---	29.2	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Phenol	ND	---	5.84	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	14.6	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	14.6	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	14.6	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	14.6	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	

Apex Laboratories

Jason Woodcock, Project Manager

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

NW Natural	Project: LNG Soil	
220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP D (A5K1621-22)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
Bis(2-ethylhexyl)phthalate	ND	---	43.8	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Butyl benzyl phthalate	ND	---	29.2	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Diethylphthalate	ND	---	29.2	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Dimethylphthalate	ND	---	29.2	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Di-n-butylphthalate	ND	---	29.2	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Di-n-octyl phthalate	ND	---	29.2	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
N-Nitrosodimethylamine	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
N-Nitrosodiphenylamine	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Hexachlorobenzene	ND	---	2.92	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Hexachlorobutadiene	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Hexachlorocyclopentadiene	ND	---	14.6	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Hexachloroethane	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2-Chloronaphthalene	ND	---	2.92	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
1,2,4-Trichlorobenzene	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
4-Bromophenyl phenyl ether	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Aniline	ND	---	14.6	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
4-Chloroaniline	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2-Nitroaniline	ND	---	58.4	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
3-Nitroaniline	ND	---	58.4	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
4-Nitroaniline	ND	---	58.4	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Nitrobenzene	ND	---	29.2	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2,4-Dinitrotoluene	ND	---	29.2	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
2,6-Dinitrotoluene	ND	---	29.2	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Benzoic acid	ND	---	365	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Benzyl alcohol	ND	---	29.1	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Isophorone	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Azobenzene (1,2-DPH)	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	---	73.0	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
3,3'-Dichlorobenzidine	ND	---	58.4	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	---	73.0	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
1,3-Dinitrobenzene	ND	---	73.0	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
1,4-Dinitrobenzene	ND	---	73.0	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	

Apex Laboratories

Jason Woodcock, Project Manager

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Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

NW Natural	Project: LNG Soil	
220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP D (A5K1621-22)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
Pyridine	ND	---	14.6	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
1,2-Dichlorobenzene	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
1,3-Dichlorobenzene	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
1,4-Dichlorobenzene	ND	---	7.30	mg/kg dry	1000	11/21/25 19:33	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*66 %*	*Limits: 37-122 %*	*1000*	*11/21/25 19:33*	*EPA 8270E*	*S-05*
2-Fluorobiphenyl (Surr)			*84 %*	*44-120 %*	*1000*	*11/21/25 19:33*	*EPA 8270E*	*S-05*
Phenol-d6 (Surr)			*84 %*	*33-122 %*	*1000*	*11/21/25 19:33*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)			*105 %*	*54-127 %*	*1000*	*11/21/25 19:33*	*EPA 8270E*	*S-05*
2-Fluorophenol (Surr)			*61 %*	*35-120 %*	*1000*	*11/21/25 19:33*	*EPA 8270E*	*S-05*
2,4,6-Tribromophenol (Surr)			*%*	*39-132 %*	*1000*	*11/21/25 19:33*	*EPA 8270E*	*S-01*
2711-251118-COMP E (A5K1621-23)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
Acenaphthene	**4.43**	---	2.89	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Acenaphthylene	ND	---	2.89	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Anthracene	**6.08**	---	2.89	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Benz(a)anthracene	**19.7**	---	2.89	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Benzo(a)pyrene	**37.7**	---	4.33	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Benzo(b)fluoranthene	**36.7**	---	4.33	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Benzo(k)fluoranthene	**13.0**	---	4.33	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	**M-05**
Benzo(g,h,i)perylene	**35.4**	---	2.89	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Chrysene	**28.1**	---	2.89	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Dibenz(a,h)anthracene	**3.19**	---	2.89	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Fluoranthene	**55.2**	---	2.89	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Fluorene	**4.65**	---	2.89	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Indeno(1,2,3-cd)pyrene	**28.4**	---	2.89	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
1-Methylnaphthalene	ND	---	5.76	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2-Methylnaphthalene	ND	---	5.76	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Naphthalene	**7.85**	---	5.76	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Phenanthrene	**20.3**	---	2.89	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Pyrene	**73.6**	---	2.89	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Carbazole	ND	---	4.33	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Dibenzofuran	ND	---	2.89	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2-Chlorophenol	ND	---	14.4	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
4-Chloro-3-methylphenol	ND	---	28.9	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2,4-Dichlorophenol	ND	---	14.4	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2,6-Dichlorophenol	ND	---	14.4	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	

Apex Laboratories

Jason Woodcock, Project Manager

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Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP E (A5K1621-23)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
2,4-Dimethylphenol	ND	---	14.4	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2,4-Dinitrophenol	ND	---	72.1	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	---	72.1	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2-Methylphenol	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
3+4-Methylphenol(s)	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2-Nitrophenol	ND	---	28.9	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
4-Nitrophenol	ND	---	28.9	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Pentachlorophenol (PCP)	ND	---	28.9	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Phenol	ND	---	5.76	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	14.4	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	14.4	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	14.4	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	14.4	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	---	43.3	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Butyl benzyl phthalate	ND	---	28.9	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Diethylphthalate	ND	---	28.9	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Dimethylphthalate	ND	---	28.9	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Di-n-butylphthalate	ND	---	28.9	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Di-n-octyl phthalate	ND	---	28.9	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
N-Nitrosodimethylamine	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
N-Nitrosodiphenylamine	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Hexachlorobenzene	ND	---	2.89	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Hexachlorobutadiene	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Hexachlorocyclopentadiene	ND	---	14.4	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Hexachloroethane	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2-Chloronaphthalene	ND	---	2.89	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
1,2,4-Trichlorobenzene	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
4-Bromophenyl phenyl ether	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Aniline	ND	---	14.4	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
4-Chloroaniline	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2-Nitroaniline	ND	---	57.6	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
3-Nitroaniline	ND	---	57.6	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	

Apex Laboratories

Jason Woodcock, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP E (A5K1621-23)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
4-Nitroaniline	ND	---	57.6	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Nitrobenzene	ND	---	28.9	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2,4-Dinitrotoluene	ND	---	28.9	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
2,6-Dinitrotoluene	ND	---	28.9	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Benzoic acid	ND	---	360	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Benzyl alcohol	ND	---	28.8	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Isophorone	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Azobenzene (1,2-DPH)	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	---	72.1	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
3,3'-Dichlorobenzidine	ND	---	57.6	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	---	72.1	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
1,3-Dinitrobenzene	ND	---	72.1	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
1,4-Dinitrobenzene	ND	---	72.1	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Pyridine	ND	---	14.4	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
1,2-Dichlorobenzene	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
1,3-Dichlorobenzene	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
1,4-Dichlorobenzene	ND	---	7.21	mg/kg dry	1000	11/21/25 20:08	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*96 %*	*Limits: 37-122 %*	*1000*	*11/21/25 20:08*	*EPA 8270E*	*S-05*
2-Fluorobiphenyl (Surr)			*66 %*	*44-120 %*	*1000*	*11/21/25 20:08*	*EPA 8270E*	*S-05*
Phenol-d6 (Surr)			*52 %*	*33-122 %*	*1000*	*11/21/25 20:08*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)			*90 %*	*54-127 %*	*1000*	*11/21/25 20:08*	*EPA 8270E*	*S-05*
2-Fluorophenol (Surr)			*35 %*	*35-120 %*	*1000*	*11/21/25 20:08*	*EPA 8270E*	*S-05*
2,4,6-Tribromophenol (Surr)			*%*	*39-132 %*	*1000*	*11/21/25 20:08*	*EPA 8270E*	*S-01*
2711-251118-COMP F (A5K1621-24)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
Acenaphthene	ND	---	3.06	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Acenaphthylene	ND	---	3.06	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Anthracene	ND	---	3.06	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Benz(a)anthracene	**5.94**	---	3.06	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Benzo(a)pyrene	**12.3**	---	4.58	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Benzo(b)fluoranthene	**12.0**	---	4.58	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Benzo(k)fluoranthene	ND	---	4.58	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Benzo(g,h,i)perylene	**13.3**	---	3.06	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Chrysene	**8.29**	---	3.06	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	3.06	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Fluoranthene	**14.4**	---	3.06	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	

Apex Laboratories

Jason Woodcock, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP F (A5K1621-24)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
Fluorene	ND	---	3.06	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Indeno(1,2,3-cd)pyrene	**10.7**	---	3.06	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
1-Methylnaphthalene	ND	---	6.11	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2-Methylnaphthalene	ND	---	6.11	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Naphthalene	ND	---	6.11	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Phenanthrene	**4.33**	---	3.06	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Pyrene	**20.3**	---	3.06	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Carbazole	ND	---	4.58	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Dibenzofuran	ND	---	3.06	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2-Chlorophenol	ND	---	15.2	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
4-Chloro-3-methylphenol	ND	---	30.6	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2,4-Dichlorophenol	ND	---	15.2	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2,6-Dichlorophenol	ND	---	15.2	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2,4-Dimethylphenol	ND	---	15.2	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2,4-Dinitrophenol	ND	---	76.4	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	---	76.4	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2-Methylphenol	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
3+4-Methylphenol(s)	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2-Nitrophenol	ND	---	30.6	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
4-Nitrophenol	ND	---	30.6	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Pentachlorophenol (PCP)	ND	---	30.6	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Phenol	ND	---	6.11	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	15.2	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	15.2	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	15.2	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	15.2	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	---	45.8	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Butyl benzyl phthalate	ND	---	30.6	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Diethylphthalate	ND	---	30.6	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Dimethylphthalate	ND	---	30.6	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Di-n-butylphthalate	ND	---	30.6	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Di-n-octyl phthalate	ND	---	30.6	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
N-Nitrosodimethylamine	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
N-Nitrosodiphenylamine	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	

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Jason Woodcock, Project Manager

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Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP F (A5K1621-24)				**Matrix: Soil**		**Batch: 25K0851**		**COMP**
2,2'-Oxybis(1-Chloropropane)	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Hexachlorobenzene	ND	---	3.06	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Hexachlorobutadiene	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Hexachlorocyclopentadiene	ND	---	15.2	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Hexachloroethane	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2-Chloronaphthalene	ND	---	3.06	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
1,2,4-Trichlorobenzene	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
4-Bromophenyl phenyl ether	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Aniline	ND	---	15.2	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
4-Chloroaniline	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2-Nitroaniline	ND	---	61.1	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
3-Nitroaniline	ND	---	61.1	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
4-Nitroaniline	ND	---	61.1	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Nitrobenzene	ND	---	30.6	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2,4-Dinitrotoluene	ND	---	30.6	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
2,6-Dinitrotoluene	ND	---	30.6	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Benzoic acid	ND	---	382	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Benzyl alcohol	ND	---	30.5	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Isophorone	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Azobenzene (1,2-DPH)	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	---	76.4	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
3,3'-Dichlorobenzidine	ND	---	61.1	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	---	76.4	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
1,3-Dinitrobenzene	ND	---	76.4	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
1,4-Dinitrobenzene	ND	---	76.4	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Pyridine	ND	---	15.2	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
1,2-Dichlorobenzene	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
1,3-Dichlorobenzene	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
1,4-Dichlorobenzene	ND	---	7.64	mg/kg dry	1000	11/21/25 20:44	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*134 %*	*Limits: 37-122 %*	*1000*	*11/21/25 20:44*	*EPA 8270E*	*S-05*
2-Fluorobiphenyl (Surr)			*88 %*	*44-120 %*	*1000*	*11/21/25 20:44*	*EPA 8270E*	*S-05*
Phenol-d6 (Surr)			*64 %*	*33-122 %*	*1000*	*11/21/25 20:44*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)			*95 %*	*54-127 %*	*1000*	*11/21/25 20:44*	*EPA 8270E*	*S-05*
2-Fluorophenol (Surr)			*48 %*	*35-120 %*	*1000*	*11/21/25 20:44*	*EPA 8270E*	*S-05*
2,4,6-Tribromophenol (Surr)			*%*	*39-132 %*	*1000*	*11/21/25 20:44*	*EPA 8270E*	*S-01*

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Jason Woodcock, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP A (A5K1621-19RE1)				**Matrix: Soil**		**Batch: 25K1042**		**COMP**
2-Methylphenol	ND	---	0.0500	mg/L	10	11/26/25 16:48	1311/8270E	
3+4-Methylphenol(s)	ND	---	0.0500	mg/L	10	11/26/25 16:48	1311/8270E	
Pentachlorophenol (PCP)	ND	---	0.100	mg/L	10	11/26/25 16:48	1311/8270E	
2,4,5-Trichlorophenol	ND	---	0.0500	mg/L	10	11/26/25 16:48	1311/8270E	
2,4,6-Trichlorophenol	ND	---	0.0500	mg/L	10	11/26/25 16:48	1311/8270E	
Hexachlorobenzene	ND	---	0.0200	mg/L	10	11/26/25 16:48	1311/8270E	
Hexachlorobutadiene	ND	---	0.0500	mg/L	10	11/26/25 16:48	1311/8270E	
Hexachloroethane	ND	---	0.0500	mg/L	10	11/26/25 16:48	1311/8270E	
Nitrobenzene	ND	---	0.0500	mg/L	10	11/26/25 16:48	1311/8270E	
2,4-Dinitrotoluene	ND	---	0.0200	mg/L	10	11/26/25 16:48	1311/8270E	
Pyridine	ND	---	0.100	mg/L	10	11/26/25 16:48	1311/8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*86 %*	*Limits: 44-120 %*	*10*	*11/26/25 16:48*	*1311/8270E*	
2-Fluorobiphenyl (Surr)			*76 %*	*44-120 %*	*10*	*11/26/25 16:48*	*1311/8270E*	
Phenol-d6 (Surr)			*23 %*	*10-133 %*	*10*	*11/26/25 16:48*	*1311/8270E*	
p-Terphenyl-d14 (Surr)			*88 %*	*50-134 %*	*10*	*11/26/25 16:48*	*1311/8270E*	
2-Fluorophenol (Surr)			*36 %*	*19-120 %*	*10*	*11/26/25 16:48*	*1311/8270E*	
2,4,6-Tribromophenol (Surr)			*72 %*	*43-140 %*	*10*	*11/26/25 16:48*	*1311/8270E*	
2711-251118-COMP B (A5K1621-20)				**Matrix: Soil**		**Batch: 25K1042**		**COMP**
2-Methylphenol	ND	---	0.0500	mg/L	10	11/26/25 18:31	1311/8270E	
3+4-Methylphenol(s)	ND	---	0.0500	mg/L	10	11/26/25 18:31	1311/8270E	
Pentachlorophenol (PCP)	ND	---	0.100	mg/L	10	11/26/25 18:31	1311/8270E	
2,4,5-Trichlorophenol	ND	---	0.0500	mg/L	10	11/26/25 18:31	1311/8270E	
2,4,6-Trichlorophenol	ND	---	0.0500	mg/L	10	11/26/25 18:31	1311/8270E	
Hexachlorobenzene	ND	---	0.0200	mg/L	10	11/26/25 18:31	1311/8270E	
Hexachlorobutadiene	ND	---	0.0500	mg/L	10	11/26/25 18:31	1311/8270E	
Hexachloroethane	ND	---	0.0500	mg/L	10	11/26/25 18:31	1311/8270E	
Nitrobenzene	ND	---	0.0500	mg/L	10	11/26/25 18:31	1311/8270E	
2,4-Dinitrotoluene	ND	---	0.0200	mg/L	10	11/26/25 18:31	1311/8270E	
Pyridine	ND	---	0.100	mg/L	10	11/26/25 18:31	1311/8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*75 %*	*Limits: 44-120 %*	*10*	*11/26/25 18:31*	*1311/8270E*	
2-Fluorobiphenyl (Surr)			*67 %*	*44-120 %*	*10*	*11/26/25 18:31*	*1311/8270E*	
Phenol-d6 (Surr)			*23 %*	*10-133 %*	*10*	*11/26/25 18:31*	*1311/8270E*	
p-Terphenyl-d14 (Surr)			*85 %*	*50-134 %*	*10*	*11/26/25 18:31*	*1311/8270E*	
2-Fluorophenol (Surr)			*35 %*	*19-120 %*	*10*	*11/26/25 18:31*	*1311/8270E*	
2,4,6-Tribromophenol (Surr)			*71 %*	*43-140 %*	*10*	*11/26/25 18:31*	*1311/8270E*	

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Jason Woodcock, Project Manager

Apex Laboratories, LLC
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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP C (A5K1621-21)				**Matrix: Soil**		**Batch: 25K1042**		**COMP**
2-Methylphenol	ND	---	0.0500	mg/L	10	11/26/25 19:05	1311/8270E	
3+4-Methylphenol(s)	ND	---	0.0500	mg/L	10	11/26/25 19:05	1311/8270E	
Pentachlorophenol (PCP)	ND	---	0.100	mg/L	10	11/26/25 19:05	1311/8270E	
2,4,5-Trichlorophenol	ND	---	0.0500	mg/L	10	11/26/25 19:05	1311/8270E	
2,4,6-Trichlorophenol	ND	---	0.0500	mg/L	10	11/26/25 19:05	1311/8270E	
Hexachlorobenzene	ND	---	0.0200	mg/L	10	11/26/25 19:05	1311/8270E	
Hexachlorobutadiene	ND	---	0.0500	mg/L	10	11/26/25 19:05	1311/8270E	
Hexachloroethane	ND	---	0.0500	mg/L	10	11/26/25 19:05	1311/8270E	
Nitrobenzene	ND	---	0.0500	mg/L	10	11/26/25 19:05	1311/8270E	
2,4-Dinitrotoluene	ND	---	0.0200	mg/L	10	11/26/25 19:05	1311/8270E	
Pyridine	ND	---	0.100	mg/L	10	11/26/25 19:05	1311/8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*92 %*	*Limits: 44-120 %*	*10*	*11/26/25 19:05*	*1311/8270E*	
2-Fluorobiphenyl (Surr)			*75 %*	*44-120 %*	*10*	*11/26/25 19:05*	*1311/8270E*	
Phenol-d6 (Surr)			*24 %*	*10-133 %*	*10*	*11/26/25 19:05*	*1311/8270E*	
p-Terphenyl-d14 (Surr)			*83 %*	*50-134 %*	*10*	*11/26/25 19:05*	*1311/8270E*	
2-Fluorophenol (Surr)			*37 %*	*19-120 %*	*10*	*11/26/25 19:05*	*1311/8270E*	
2,4,6-Tribromophenol (Surr)			*66 %*	*43-140 %*	*10*	*11/26/25 19:05*	*1311/8270E*	
2711-251118-COMP D (A5K1621-22)				**Matrix: Soil**		**Batch: 25K1042**		**COMP**
2-Methylphenol	ND	---	0.0500	mg/L	10	11/26/25 19:39	1311/8270E	
3+4-Methylphenol(s)	ND	---	0.0500	mg/L	10	11/26/25 19:39	1311/8270E	
Pentachlorophenol (PCP)	ND	---	0.100	mg/L	10	11/26/25 19:39	1311/8270E	
2,4,5-Trichlorophenol	ND	---	0.0500	mg/L	10	11/26/25 19:39	1311/8270E	
2,4,6-Trichlorophenol	ND	---	0.0500	mg/L	10	11/26/25 19:39	1311/8270E	
Hexachlorobenzene	ND	---	0.0200	mg/L	10	11/26/25 19:39	1311/8270E	
Hexachlorobutadiene	ND	---	0.0500	mg/L	10	11/26/25 19:39	1311/8270E	
Hexachloroethane	ND	---	0.0500	mg/L	10	11/26/25 19:39	1311/8270E	
Nitrobenzene	ND	---	0.0500	mg/L	10	11/26/25 19:39	1311/8270E	
2,4-Dinitrotoluene	ND	---	0.0200	mg/L	10	11/26/25 19:39	1311/8270E	
Pyridine	ND	---	0.100	mg/L	10	11/26/25 19:39	1311/8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*85 %*	*Limits: 44-120 %*	*10*	*11/26/25 19:39*	*1311/8270E*	
2-Fluorobiphenyl (Surr)			*72 %*	*44-120 %*	*10*	*11/26/25 19:39*	*1311/8270E*	
Phenol-d6 (Surr)			*22 %*	*10-133 %*	*10*	*11/26/25 19:39*	*1311/8270E*	
p-Terphenyl-d14 (Surr)			*86 %*	*50-134 %*	*10*	*11/26/25 19:39*	*1311/8270E*	
2-Fluorophenol (Surr)			*34 %*	*19-120 %*	*10*	*11/26/25 19:39*	*1311/8270E*	

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Jason Woodcock, Project Manager

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ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP D (A5K1621-22)				**Matrix: Soil**		**Batch: 25K1042**		**COMP**
Surrogate: 2,4,6-Tribromophenol (Surr)		*Recovery:*	*72 %*	*Limits: 43-140 %*	*10*	*11/26/25 19:39*	*1311/8270E*	
2711-251118-COMP E (A5K1621-23)				**Matrix: Soil**		**Batch: 25K1042**		**COMP**
2-Methylphenol	ND	---	0.0500	mg/L	10	11/26/25 20:13	1311/8270E	
3+4-Methylphenol(s)	ND	---	0.0500	mg/L	10	11/26/25 20:13	1311/8270E	
Pentachlorophenol (PCP)	ND	---	0.100	mg/L	10	11/26/25 20:13	1311/8270E	
2,4,5-Trichlorophenol	ND	---	0.0500	mg/L	10	11/26/25 20:13	1311/8270E	
2,4,6-Trichlorophenol	ND	---	0.0500	mg/L	10	11/26/25 20:13	1311/8270E	
Hexachlorobenzene	ND	---	0.0200	mg/L	10	11/26/25 20:13	1311/8270E	
Hexachlorobutadiene	ND	---	0.0500	mg/L	10	11/26/25 20:13	1311/8270E	
Hexachloroethane	ND	---	0.0500	mg/L	10	11/26/25 20:13	1311/8270E	
Nitrobenzene	ND	---	0.0500	mg/L	10	11/26/25 20:13	1311/8270E	
2,4-Dinitrotoluene	ND	---	0.0200	mg/L	10	11/26/25 20:13	1311/8270E	
Pyridine	ND	---	0.100	mg/L	10	11/26/25 20:13	1311/8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*89 %*	*Limits: 44-120 %*	*10*	*11/26/25 20:13*	*1311/8270E*	
2-Fluorobiphenyl (Surr)			*79 %*	*44-120 %*	*10*	*11/26/25 20:13*	*1311/8270E*	
Phenol-d6 (Surr)			*25 %*	*10-133 %*	*10*	*11/26/25 20:13*	*1311/8270E*	
p-Terphenyl-d14 (Surr)			*92 %*	*50-134 %*	*10*	*11/26/25 20:13*	*1311/8270E*	
2-Fluorophenol (Surr)			*37 %*	*19-120 %*	*10*	*11/26/25 20:13*	*1311/8270E*	
2,4,6-Tribromophenol (Surr)			*72 %*	*43-140 %*	*10*	*11/26/25 20:13*	*1311/8270E*	
2711-251118-COMP F (A5K1621-24)				**Matrix: Soil**		**Batch: 25K1042**		**COMP**
2-Methylphenol	ND	---	0.0500	mg/L	10	11/26/25 20:47	1311/8270E	
3+4-Methylphenol(s)	ND	---	0.0500	mg/L	10	11/26/25 20:47	1311/8270E	
Pentachlorophenol (PCP)	ND	---	0.100	mg/L	10	11/26/25 20:47	1311/8270E	
2,4,5-Trichlorophenol	ND	---	0.0500	mg/L	10	11/26/25 20:47	1311/8270E	
2,4,6-Trichlorophenol	ND	---	0.0500	mg/L	10	11/26/25 20:47	1311/8270E	
Hexachlorobenzene	ND	---	0.0200	mg/L	10	11/26/25 20:47	1311/8270E	
Hexachlorobutadiene	ND	---	0.0500	mg/L	10	11/26/25 20:47	1311/8270E	
Hexachloroethane	ND	---	0.0500	mg/L	10	11/26/25 20:47	1311/8270E	
Nitrobenzene	ND	---	0.0500	mg/L	10	11/26/25 20:47	1311/8270E	
2,4-Dinitrotoluene	ND	---	0.0200	mg/L	10	11/26/25 20:47	1311/8270E	
Pyridine	ND	---	0.100	mg/L	10	11/26/25 20:47	1311/8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*88 %*	*Limits: 44-120 %*	*10*	*11/26/25 20:47*	*1311/8270E*	
2-Fluorobiphenyl (Surr)			*78 %*	*44-120 %*	*10*	*11/26/25 20:47*	*1311/8270E*	
Phenol-d6 (Surr)			*23 %*	*10-133 %*	*10*	*11/26/25 20:47*	*1311/8270E*	

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Jason Woodcock, Project Manager

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP F (A5K1621-24)				**Matrix: Soil**		**Batch: 25K1042**		**COMP**
Surrogate: p-Terphenyl-d14 (Surr)		*Recovery:*	*84 %*	*Limits: 50-134 %*	*10*	*11/26/25 20:47*	*1311/8270E*	
2-Fluorophenol (Surr)			*39 %*	*19-120 %*	*10*	*11/26/25 20:47*	*1311/8270E*	
2,4,6-Tribromophenol (Surr)			*70 %*	*43-140 %*	*10*	*11/26/25 20:47*	*1311/8270E*	

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Jason Woodcock, Project Manager

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ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP A (A5K1621-19)				**Matrix: Soil**				
Batch: 25K0974								
Arsenic	**3.07**	---	1.14	mg/kg dry	10	11/26/25 02:11	EPA 6020B	**COMP**
Barium	**101**	---	1.14	mg/kg dry	10	11/26/25 02:11	EPA 6020B	**COMP**
Cadmium	ND	---	0.229	mg/kg dry	10	11/26/25 02:11	EPA 6020B	COMP
Chromium	**9.94**	---	1.14	mg/kg dry	10	11/26/25 02:11	EPA 6020B	**COMP**
Lead	**34.9**	---	0.229	mg/kg dry	10	11/26/25 02:11	EPA 6020B	**COMP**
Mercury	ND	---	0.0916	mg/kg dry	10	11/26/25 02:11	EPA 6020B	COMP
Selenium	ND	---	1.14	mg/kg dry	10	11/26/25 02:11	EPA 6020B	COMP
Silver	ND	---	0.229	mg/kg dry	10	11/26/25 02:11	EPA 6020B	COMP
2711-251118-COMP B (A5K1621-20)				**Matrix: Soil**				
Batch: 25K0974								
Arsenic	**3.18**	---	1.27	mg/kg dry	10	11/26/25 02:17	EPA 6020B	**COMP**
Barium	**95.7**	---	1.27	mg/kg dry	10	11/26/25 02:17	EPA 6020B	**COMP**
Cadmium	ND	---	0.254	mg/kg dry	10	11/26/25 02:17	EPA 6020B	COMP
Chromium	**10.3**	---	1.27	mg/kg dry	10	11/26/25 02:17	EPA 6020B	**COMP**
Lead	**32.4**	---	0.254	mg/kg dry	10	11/26/25 02:17	EPA 6020B	**COMP**
Mercury	ND	---	0.102	mg/kg dry	10	11/26/25 02:17	EPA 6020B	COMP
Selenium	ND	---	1.27	mg/kg dry	10	11/26/25 02:17	EPA 6020B	COMP
Silver	ND	---	0.254	mg/kg dry	10	11/26/25 02:17	EPA 6020B	COMP
2711-251118-COMP C (A5K1621-21)				**Matrix: Soil**				
Batch: 25K0974								
Arsenic	**3.64**	---	1.25	mg/kg dry	10	11/26/25 02:22	EPA 6020B	**COMP**
Barium	**114**	---	1.25	mg/kg dry	10	11/26/25 02:22	EPA 6020B	**COMP**
Cadmium	ND	---	0.249	mg/kg dry	10	11/26/25 02:22	EPA 6020B	COMP
Chromium	**9.97**	---	1.25	mg/kg dry	10	11/26/25 02:22	EPA 6020B	**COMP**
Lead	**8.58**	---	0.249	mg/kg dry	10	11/26/25 02:22	EPA 6020B	**COMP**
Mercury	ND	---	0.0998	mg/kg dry	10	11/26/25 02:22	EPA 6020B	COMP
Selenium	ND	---	1.25	mg/kg dry	10	11/26/25 02:22	EPA 6020B	COMP
Silver	ND	---	0.249	mg/kg dry	10	11/26/25 02:22	EPA 6020B	COMP
2711-251118-COMP D (A5K1621-22)				**Matrix: Soil**				
Batch: 25K0974								
Arsenic	**2.31**	---	1.08	mg/kg dry	10	11/26/25 02:28	EPA 6020B	**COMP**
Barium	**64.6**	---	1.08	mg/kg dry	10	11/26/25 02:28	EPA 6020B	**COMP**

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ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP D (A5K1621-22)				**Matrix: Soil**				
Cadmium	ND	---	0.216	mg/kg dry	10	11/26/25 02:28	EPA 6020B	COMP
Chromium	**8.71**	---	1.08	mg/kg dry	10	11/26/25 02:28	EPA 6020B	**COMP**
Lead	**38.0**	---	0.216	mg/kg dry	10	11/26/25 02:28	EPA 6020B	**COMP**
Mercury	ND	---	0.0863	mg/kg dry	10	11/26/25 02:28	EPA 6020B	COMP
Selenium	ND	---	1.08	mg/kg dry	10	11/26/25 02:28	EPA 6020B	COMP
Silver	ND	---	0.216	mg/kg dry	10	11/26/25 02:28	EPA 6020B	COMP
2711-251118-COMP E (A5K1621-23)				**Matrix: Soil**				
Batch: 25K0974								
Arsenic	**3.89**	---	1.17	mg/kg dry	10	11/26/25 02:33	EPA 6020B	**COMP**
Barium	**108**	---	1.17	mg/kg dry	10	11/26/25 02:33	EPA 6020B	**COMP**
Cadmium	**0.282**	---	0.233	mg/kg dry	10	11/26/25 02:33	EPA 6020B	**COMP**
Chromium	**11.6**	---	1.17	mg/kg dry	10	11/26/25 02:33	EPA 6020B	**COMP**
Lead	**62.5**	---	0.233	mg/kg dry	10	11/26/25 02:33	EPA 6020B	**COMP**
Mercury	**0.149**	---	0.0933	mg/kg dry	10	11/26/25 02:33	EPA 6020B	**COMP**
Selenium	ND	---	1.17	mg/kg dry	10	11/26/25 02:33	EPA 6020B	COMP
Silver	ND	---	0.233	mg/kg dry	10	11/26/25 02:33	EPA 6020B	COMP
2711-251118-COMP F (A5K1621-24)				**Matrix: Soil**				
Batch: 25K0974								
Arsenic	**3.79**	---	1.21	mg/kg dry	10	11/26/25 02:38	EPA 6020B	**COMP**
Barium	**82.5**	---	1.21	mg/kg dry	10	11/26/25 02:38	EPA 6020B	**COMP**
Cadmium	ND	---	0.243	mg/kg dry	10	11/26/25 02:38	EPA 6020B	COMP
Chromium	**10.7**	---	1.21	mg/kg dry	10	11/26/25 02:38	EPA 6020B	**COMP**
Lead	**27.6**	---	0.243	mg/kg dry	10	11/26/25 02:38	EPA 6020B	**COMP**
Mercury	ND	---	0.0971	mg/kg dry	10	11/26/25 02:38	EPA 6020B	COMP
Selenium	ND	---	1.21	mg/kg dry	10	11/26/25 02:38	EPA 6020B	COMP
Silver	ND	---	0.243	mg/kg dry	10	11/26/25 02:38	EPA 6020B	COMP

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ANALYTICAL SAMPLE RESULTS

Soluble Cyanide by Flow Analysis (Non-Aqueous/Water Leach)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP A (A5K1621-19)				**Matrix: Soil**		**Batch: 25K0852**		**COMP**
Total Cyanide	**0.190**	---	0.115	mg/kg dry	1	11/20/25 17:54	EPA 9013M/9012B	
2711-251118-COMP B (A5K1621-20)				**Matrix: Soil**		**Batch: 25K0852**		**COMP**
Total Cyanide	**2.04**	---	0.113	mg/kg dry	1	11/20/25 18:02	EPA 9013M/9012B	
2711-251118-COMP C (A5K1621-21)				**Matrix: Soil**		**Batch: 25K0852**		**COMP**
Total Cyanide	ND	---	0.116	mg/kg dry	1	11/20/25 18:12	EPA 9013M/9012B	
2711-251118-COMP D (A5K1621-22)				**Matrix: Soil**		**Batch: 25K0852**		**COMP**
Total Cyanide	**4.08**	---	0.110	mg/kg dry	1	11/20/25 18:16	EPA 9013M/9012B	
2711-251118-COMP E (A5K1621-23)				**Matrix: Soil**		**Batch: 25K0852**		**COMP**
Total Cyanide	**6.10**	---	0.109	mg/kg dry	1	11/20/25 18:20	EPA 9013M/9012B	
2711-251118-COMP F (A5K1621-24)				**Matrix: Soil**		**Batch: 25K0852**		**COMP**
Total Cyanide	ND	---	0.117	mg/kg dry	1	11/20/25 18:24	EPA 9013M/9012B	

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ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP A (A5K1621-19)				**Matrix: Soil**				
Batch: 25K0842								
Soil/Solid pH (measured in H2O)	**7.6**	---		pH Units	1	11/20/25 14:54	EPA 9045D	**COMP, pH_S**
pH Temperature (deg C)	**20.7**	---		pH Units	1	11/20/25 14:54	EPA 9045D	**COMP, pH_S**
Batch: 25K0898								
Free Liquid	**ND**	---	0.00	mL	1	11/21/25 16:54	EPA 9095B	COMP
2711-251118-COMP B (A5K1621-20)				**Matrix: Soil**				
Batch: 25K0842								
Soil/Solid pH (measured in H2O)	**7.7**	---		pH Units	1	11/20/25 14:56	EPA 9045D	**COMP, pH_S**
pH Temperature (deg C)	**20.7**	---		pH Units	1	11/20/25 14:56	EPA 9045D	**COMP, pH_S**
Batch: 25K0898								
Free Liquid	**ND**	---	0.00	mL	1	11/21/25 17:15	EPA 9095B	COMP
2711-251118-COMP C (A5K1621-21)				**Matrix: Soil**				
Batch: 25K0842								
Soil/Solid pH (measured in H2O)	**7.7**	---		pH Units	1	11/20/25 15:00	EPA 9045D	**COMP, pH_S**
pH Temperature (deg C)	**20.5**	---		pH Units	1	11/20/25 15:00	EPA 9045D	**COMP, pH_S**
Batch: 25K0898								
Free Liquid	**ND**	---	0.00	mL	1	11/21/25 17:18	EPA 9095B	COMP
2711-251118-COMP D (A5K1621-22)				**Matrix: Soil**				
Batch: 25K0842								
Soil/Solid pH (measured in H2O)	**7.8**	---		pH Units	1	11/20/25 15:01	EPA 9045D	**COMP, pH_S**
pH Temperature (deg C)	**20.6**	---		pH Units	1	11/20/25 15:01	EPA 9045D	**COMP, pH_S**
Batch: 25K0898								
Free Liquid	**ND**	---	0.00	mL	1	11/21/25 17:22	EPA 9095B	COMP
2711-251118-COMP E (A5K1621-23)				**Matrix: Soil**				
Batch: 25K0842								
Soil/Solid pH (measured in H2O)	**8.1**	---		pH Units	1	11/20/25 15:02	EPA 9045D	**COMP, pH_S**
pH Temperature (deg C)	**20.5**	---		pH Units	1	11/20/25 15:02	EPA 9045D	**COMP, pH_S**
Batch: 25K0898								
Free Liquid	**ND**	---	0.00	mL	1	11/21/25 17:26	EPA 9095B	COMP
2711-251118-COMP F (A5K1621-24)				**Matrix: Soil**				
Batch: 25K0842								

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ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP F (A5K1621-24)				**Matrix: Soil**				
Soil/Solid pH (measured in H2O)	**7.5**	---		pH Units	1	11/20/25 15:03	EPA 9045D	**COMP, pH_S**
pH Temperature (deg C)	**20.4**	---		pH Units	1	11/20/25 15:03	EPA 9045D	**COMP, pH_S**
Batch: 25K0898								
Free Liquid	**ND**	---	0.00	mL	1	11/21/25 17:32	EPA 9095B	COMP

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
2711-251118-COMP A (A5K1621-19)				**Matrix: Soil**		**Batch: 25K0884**		**COMP**
% Solids	**86.2**	---	1.00	%	1	11/22/25 13:02	EPA 8000D	
2711-251118-COMP B (A5K1621-20)				**Matrix: Soil**		**Batch: 25K0884**		**COMP**
% Solids	**85.7**	---	1.00	%	1	11/22/25 13:02	EPA 8000D	
2711-251118-COMP C (A5K1621-21)				**Matrix: Soil**		**Batch: 25K0884**		**COMP**
% Solids	**85.1**	---	1.00	%	1	11/22/25 13:02	EPA 8000D	
2711-251118-COMP D (A5K1621-22)				**Matrix: Soil**		**Batch: 25K0884**		**COMP**
% Solids	**89.3**	---	1.00	%	1	11/22/25 13:02	EPA 8000D	
2711-251118-COMP E (A5K1621-23)				**Matrix: Soil**		**Batch: 25K0884**		**COMP**
% Solids	**89.3**	---	1.00	%	1	11/22/25 13:02	EPA 8000D	
2711-251118-COMP F (A5K1621-24)				**Matrix: Soil**		**Batch: 25K0884**		**COMP**
% Solids	**85.4**	---	1.00	%	1	11/22/25 13:02	EPA 8000D	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0921 - EPA 3546 (Fuels)									Soil			
Blank (25K0921-BLK1)		Prepared: 11/22/25 07:23		Analyzed: 11/22/25 16:31								
NWTPH-Dx												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 96 %*		*Limits: 50-150 %*			*Dilution: 1x*					
LCS (25K0921-BS1)		Prepared: 11/22/25 07:23		Analyzed: 11/22/25 16:53								
NWTPH-Dx												
Diesel	103	---	20.0	mg/kg wet	1	125	---	83	38 - 132%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 99 %*		*Limits: 50-150 %*			*Dilution: 1x*					
Duplicate (25K0921-DUP1)		Prepared: 11/22/25 07:23		Analyzed: 11/22/25 20:28								**COMP**
QC Source Sample: 2711-251118-COMP A (A5K1621-19)												
NWTPH-Dx												
Diesel	ND	---	40.3	mg/kg dry	2	---	ND	---	---	---	30%	
Oil	**128**	---	80.6	mg/kg dry	2	---	163	---	---	24	30%	
Mineral Oil	ND	---	80.6	mg/kg dry	2	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		*Recovery: 91 %*		*Limits: 50-150 %*			*Dilution: 2x*					

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220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0835 - EPA 5035A							Soil					
Blank (25K0835-BLK1)		Prepared: 11/20/25 11:00 Analyzed: 11/20/25 13:52										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	5.00	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 110 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*105 %*		*50-150 %*			*"*					
LCS (25K0835-BS2)		Prepared: 11/20/25 11:00 Analyzed: 11/20/25 13:26										
NWTPH-Gx (MS)												
Gasoline Range Organics	28.1	---	5.00	mg/kg wet	50	25.0	---	112	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 111 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*106 %*		*50-150 %*			*"*					

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0880 - EPA 5035A												**Soil**
Blank (25K0880-BLK1)		Prepared: 11/21/25 08:48 Analyzed: 11/21/25 11:20										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	5.00	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 113 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*104 %*		*50-150 %*			*"*					
LCS (25K0880-BS2)		Prepared: 11/21/25 08:48 Analyzed: 11/21/25 10:54										
NWTPH-Gx (MS)												
Gasoline Range Organics	26.1	---	5.00	mg/kg wet	50	25.0	---	105	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 110 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*101 %*		*50-150 %*			*"*					

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0835 - EPA 5035A							Soil					
Blank (25K0835-BLK1)		Prepared: 11/20/25 11:00 Analyzed: 11/20/25 13:52										
5035A/8260D												
Acetone	ND	---	1.00	mg/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
Benzene	ND	---	0.0100	mg/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	

Apex Laboratories

Jason Woodcock, Project Manager

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Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0835 - EPA 5035A							**Soil**					
Blank (25K0835-BLK1)		Prepared: 11/20/25 11:00		Analyzed: 11/20/25 13:52								
1,2-Dichloropropane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Styrene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 102 %*		*Limits: 80-120 %*			*Dilution: 1x*					

Apex Laboratories

Jason Woodcock, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0835 - EPA 5035A									Soil			
Blank (25K0835-BLK1)			Prepared: 11/20/25 11:00 Analyzed: 11/20/25 13:52									
Surr: Toluene-d8 (Surr)			*Recovery: 93 %*	*Limits: 80-120 %*				*Dilution: 1x*				
4-Bromofluorobenzene (Surr)			*97 %*	*79-120 %*				*"*				
LCS (25K0835-BS1)			Prepared: 11/20/25 11:00 Analyzed: 11/20/25 12:45									
5035A/8260D												
Acetone	2.00	---	1.00	mg/kg wet	50	2.00	---	100	80 - 120%	---	---	
Acrylonitrile	1.08	---	0.100	mg/kg wet	50	1.00	---	108	80 - 120%	---	---	
Benzene	1.07	---	0.0100	mg/kg wet	50	1.00	---	107	80 - 120%	---	---	
Bromobenzene	0.923	---	0.0250	mg/kg wet	50	1.00	---	92	80 - 120%	---	---	
Bromochloromethane	1.10	---	0.0500	mg/kg wet	50	1.00	---	110	80 - 120%	---	---	
Bromodichloromethane	1.21	---	0.0500	mg/kg wet	50	1.00	---	**121**	**80 - 120%**	---	---	Q-56
Bromoform	0.982	---	0.100	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Bromomethane	1.16	---	0.500	mg/kg wet	50	1.00	---	116	80 - 120%	---	---	
2-Butanone (MEK)	2.08	---	0.500	mg/kg wet	50	2.00	---	104	80 - 120%	---	---	
n-Butylbenzene	1.00	---	0.0500	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
sec-Butylbenzene	1.04	---	0.0500	mg/kg wet	50	1.00	---	104	80 - 120%	---	---	
tert-Butylbenzene	0.978	---	0.0500	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Carbon disulfide	1.13	---	0.500	mg/kg wet	50	1.00	---	113	80 - 120%	---	---	
Carbon tetrachloride	1.28	---	0.0500	mg/kg wet	50	1.00	---	**128**	**80 - 120%**	---	---	Q-56
Chlorobenzene	0.950	---	0.0250	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
Chloroethane	1.12	---	0.500	mg/kg wet	50	1.00	---	112	80 - 120%	---	---	
Chloroform	1.10	---	0.0500	mg/kg wet	50	1.00	---	110	80 - 120%	---	---	
Chloromethane	1.07	---	0.250	mg/kg wet	50	1.00	---	107	80 - 120%	---	---	
2-Chlorotoluene	0.952	---	0.0500	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
4-Chlorotoluene	0.988	---	0.0500	mg/kg wet	50	1.00	---	99	80 - 120%	---	---	
Dibromochloromethane	0.981	---	0.100	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
1,2-Dibromo-3-chloropropane	1.00	---	0.250	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	1.05	---	0.0500	mg/kg wet	50	1.00	---	105	80 - 120%	---	---	
Dibromomethane	1.10	---	0.0500	mg/kg wet	50	1.00	---	110	80 - 120%	---	---	
1,2-Dichlorobenzene	0.953	---	0.0250	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
1,3-Dichlorobenzene	0.974	---	0.0250	mg/kg wet	50	1.00	---	97	80 - 120%	---	---	
1,4-Dichlorobenzene	0.915	---	0.0250	mg/kg wet	50	1.00	---	92	80 - 120%	---	---	
Dichlorodifluoromethane	1.27	---	0.100	mg/kg wet	50	1.00	---	**127**	**80 - 120%**	---	---	Q-56
1,1-Dichloroethane	1.09	---	0.0250	mg/kg wet	50	1.00	---	109	80 - 120%	---	---	

Apex Laboratories

Jason Woodcock, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0835 - EPA 5035A							**Soil**					
LCS (25K0835-BS1)		Prepared: 11/20/25 11:00		Analyzed: 11/20/25 12:45								
1,2-Dichloroethane (EDC)	1.12	---	0.0250	mg/kg wet	50	1.00	---	112	80 - 120%	---	---	
1,1-Dichloroethene	1.11	---	0.0250	mg/kg wet	50	1.00	---	111	80 - 120%	---	---	
cis-1,2-Dichloroethene	1.09	---	0.0250	mg/kg wet	50	1.00	---	109	80 - 120%	---	---	
trans-1,2-Dichloroethene	1.08	---	0.0250	mg/kg wet	50	1.00	---	108	80 - 120%	---	---	
1,2-Dichloropropane	1.10	---	0.0250	mg/kg wet	50	1.00	---	110	80 - 120%	---	---	
1,3-Dichloropropane	1.01	---	0.0500	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
2,2-Dichloropropane	1.27	---	0.0500	mg/kg wet	50	1.00	---	**127**	**80 - 120%**	---	---	Q-56
1,1-Dichloropropene	1.11	---	0.0500	mg/kg wet	50	1.00	---	111	80 - 120%	---	---	
cis-1,3-Dichloropropene	1.01	---	0.0500	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
trans-1,3-Dichloropropene	1.02	---	0.0500	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
Ethylbenzene	0.942	---	0.0250	mg/kg wet	50	1.00	---	94	80 - 120%	---	---	
Hexachlorobutadiene	0.955	---	0.100	mg/kg wet	50	1.00	---	96	80 - 120%	---	---	
2-Hexanone	1.59	---	0.500	mg/kg wet	50	2.00	---	**79**	**80 - 120%**	---	---	Q-55
Isopropylbenzene	1.01	---	0.0500	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
4-Isopropyltoluene	1.03	---	0.0500	mg/kg wet	50	1.00	---	103	80 - 120%	---	---	
Methylene chloride	1.09	---	0.500	mg/kg wet	50	1.00	---	109	80 - 120%	---	---	
4-Methyl-2-pentanone (MiBK)	1.75	---	0.500	mg/kg wet	50	2.00	---	87	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	1.07	---	0.0500	mg/kg wet	50	1.00	---	107	80 - 120%	---	---	
Naphthalene	0.803	---	0.100	mg/kg wet	50	1.00	---	80	80 - 120%	---	---	
n-Propylbenzene	0.978	---	0.0250	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Styrene	0.870	---	0.0500	mg/kg wet	50	1.00	---	87	80 - 120%	---	---	
1,1,1,2-Tetrachloroethane	1.08	---	0.0250	mg/kg wet	50	1.00	---	108	80 - 120%	---	---	
1,1,2,2-Tetrachloroethane	0.979	---	0.0500	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Tetrachloroethene (PCE)	0.975	---	0.0250	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Toluene	0.951	---	0.0500	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
1,2,3-Trichlorobenzene	0.939	---	0.250	mg/kg wet	50	1.00	---	94	80 - 120%	---	---	
1,2,4-Trichlorobenzene	0.900	---	0.250	mg/kg wet	50	1.00	---	90	80 - 120%	---	---	
1,1,1-Trichloroethane	1.19	---	0.0250	mg/kg wet	50	1.00	---	119	80 - 120%	---	---	
1,1,2-Trichloroethane	1.06	---	0.0250	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
Trichloroethene (TCE)	1.11	---	0.0250	mg/kg wet	50	1.00	---	111	80 - 120%	---	---	
Trichlorofluoromethane	1.34	---	0.250	mg/kg wet	50	1.00	---	**134**	**80 - 120%**	---	---	Q-56
1,2,3-Trichloropropane	0.963	---	0.0500	mg/kg wet	50	1.00	---	96	80 - 120%	---	---	
1,2,4-Trimethylbenzene	1.07	---	0.0500	mg/kg wet	50	1.00	---	107	80 - 120%	---	---	
1,3,5-Trimethylbenzene	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	

Apex Laboratories

Jason Woodcock, Project Manager

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ORELAP ID: OR100062

ANALYTICAL REPORT

NW Natural	Project: LNG Soil	
220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0835 - EPA 5035A							Soil					
LCS (25K0835-BS1)		Prepared: 11/20/25 11:00		Analyzed: 11/20/25 12:45								
Vinyl chloride	1.09	---	0.0250	mg/kg wet	50	1.00	---	109	80 - 120%	---	---	
m,p-Xylene	2.01	---	0.0500	mg/kg wet	50	2.00	---	101	80 - 120%	---	---	
o-Xylene	0.962	---	0.0250	mg/kg wet	50	1.00	---	96	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*102 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*95 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*93 %*		*79-120 %*			*"*				
Matrix Spike (25K0835-MS1)		Prepared: 11/18/25 10:15		Analyzed: 11/20/25 18:41								**COMP**
QC Source Sample: 2711-251118-COMP F (A5K1621-24)												
5035A/8260D												
Acetone	5.47	---	2.78	mg/kg dry	100	5.56	ND	98	36 - 164%	---	---	
Acrylonitrile	2.97	---	0.278	mg/kg dry	100	2.78	ND	107	65 - 134%	---	---	
Benzene	3.12	---	0.0278	mg/kg dry	100	2.78	ND	112	77 - 121%	---	---	
Bromobenzene	2.74	---	0.0694	mg/kg dry	100	2.78	ND	99	78 - 121%	---	---	
Bromochloromethane	3.05	---	0.139	mg/kg dry	100	2.78	ND	110	78 - 125%	---	---	
Bromodichloromethane	3.28	---	0.139	mg/kg dry	100	2.78	ND	118	75 - 127%	---	---	Q-54
Bromoform	2.69	---	0.278	mg/kg dry	100	2.78	ND	97	67 - 132%	---	---	
Bromomethane	3.24	---	1.39	mg/kg dry	100	2.78	ND	117	53 - 143%	---	---	
2-Butanone (MEK)	6.09	---	1.39	mg/kg dry	100	5.56	ND	110	51 - 148%	---	---	
n-Butylbenzene	3.41	---	0.139	mg/kg dry	100	2.78	ND	123	70 - 128%	---	---	
sec-Butylbenzene	3.36	---	0.139	mg/kg dry	100	2.78	ND	121	73 - 126%	---	---	
tert-Butylbenzene	3.23	---	0.139	mg/kg dry	100	2.78	ND	116	73 - 125%	---	---	
Carbon disulfide	3.29	---	1.39	mg/kg dry	100	2.78	ND	119	63 - 132%	---	---	
Carbon tetrachloride	3.94	---	0.139	mg/kg dry	100	2.78	ND	**142**	**70 - 135%**	---	---	Q-54d
Chlorobenzene	2.81	---	0.0694	mg/kg dry	100	2.78	ND	101	79 - 120%	---	---	
Chloroethane	2.82	---	1.39	mg/kg dry	100	2.78	ND	101	59 - 139%	---	---	
Chloroform	3.09	---	0.139	mg/kg dry	100	2.78	ND	111	78 - 123%	---	---	
Chloromethane	3.07	---	0.694	mg/kg dry	100	2.78	ND	110	50 - 136%	---	---	
2-Chlorotoluene	2.92	---	0.139	mg/kg dry	100	2.78	ND	105	75 - 122%	---	---	
4-Chlorotoluene	3.00	---	0.139	mg/kg dry	100	2.78	ND	108	72 - 124%	---	---	
Dibromochloromethane	2.75	---	0.278	mg/kg dry	100	2.78	ND	99	74 - 126%	---	---	
1,2-Dibromo-3-chloropropane	2.86	---	0.694	mg/kg dry	100	2.78	ND	103	61 - 132%	---	---	
1,2-Dibromoethane (EDB)	3.12	---	0.139	mg/kg dry	100	2.78	ND	112	78 - 122%	---	---	
Dibromomethane	3.02	---	0.139	mg/kg dry	100	2.78	ND	109	78 - 125%	---	---	

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Jason Woodcock, Project Manager

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

NW Natural	Project: LNG Soil	
220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0835 - EPA 5035A							**Soil**					
Matrix Spike (25K0835-MS1)		Prepared: 11/18/25 10:15	Analyzed: 11/20/25 18:41									**COMP**
QC Source Sample: 2711-251118-COMP F (A5K1621-24)												
1,2-Dichlorobenzene	2.81	---	0.0694	mg/kg dry	100	2.78	ND	101	78 - 121%	---	---	
1,3-Dichlorobenzene	2.92	---	0.0694	mg/kg dry	100	2.78	ND	105	77 - 121%	---	---	
1,4-Dichlorobenzene	2.69	---	0.0694	mg/kg dry	100	2.78	ND	97	75 - 120%	---	---	
Dichlorodifluoromethane	4.04	---	0.278	mg/kg dry	100	2.78	ND	146	29 - 149%	---	---	Q-54c
1,1-Dichloroethane	3.11	---	0.0694	mg/kg dry	100	2.78	ND	112	76 - 125%	---	---	
1,2-Dichloroethane (EDC)	3.06	---	0.0694	mg/kg dry	100	2.78	ND	110	73 - 128%	---	---	
1,1-Dichloroethene	3.53	---	0.0694	mg/kg dry	100	2.78	ND	127	70 - 131%	---	---	
cis-1,2-Dichloroethene	3.28	---	0.0694	mg/kg dry	100	2.78	ND	118	77 - 123%	---	---	
trans-1,2-Dichloroethene	3.27	---	0.0694	mg/kg dry	100	2.78	ND	118	74 - 125%	---	---	
1,2-Dichloropropane	3.26	---	0.0694	mg/kg dry	100	2.78	ND	117	76 - 123%	---	---	
1,3-Dichloropropane	2.97	---	0.139	mg/kg dry	100	2.78	ND	107	77 - 121%	---	---	
2,2-Dichloropropane	3.69	---	0.139	mg/kg dry	100	2.78	ND	133	67 - 133%	---	---	Q-54c
1,1-Dichloropropene	3.62	---	0.139	mg/kg dry	100	2.78	ND	**130**	**76 - 125%**	---	---	Q-01
cis-1,3-Dichloropropene	3.01	---	0.139	mg/kg dry	100	2.78	ND	108	74 - 126%	---	---	
trans-1,3-Dichloropropene	2.89	---	0.139	mg/kg dry	100	2.78	ND	104	71 - 130%	---	---	
Ethylbenzene	2.93	---	0.0694	mg/kg dry	100	2.78	ND	105	76 - 122%	---	---	
Hexachlorobutadiene	3.37	---	0.278	mg/kg dry	100	2.78	ND	121	61 - 135%	---	---	
2-Hexanone	5.13	---	1.39	mg/kg dry	100	5.56	ND	92	53 - 145%	---	---	Q-54e
Isopropylbenzene	3.36	---	0.139	mg/kg dry	100	2.78	ND	121	68 - 134%	---	---	
4-Isopropyltoluene	3.43	---	0.139	mg/kg dry	100	2.78	ND	123	73 - 127%	---	---	
Methylene chloride	3.15	---	1.39	mg/kg dry	100	2.78	ND	113	70 - 128%	---	---	
4-Methyl-2-pentanone (MiBK)	5.28	---	1.39	mg/kg dry	100	5.56	ND	95	65 - 135%	---	---	
Methyl tert-butyl ether (MTBE)	3.18	---	0.139	mg/kg dry	100	2.78	ND	114	73 - 125%	---	---	
Naphthalene	3.15	---	0.278	mg/kg dry	100	2.78	0.451	97	62 - 129%	---	---	
n-Propylbenzene	3.03	---	0.0694	mg/kg dry	100	2.78	ND	109	73 - 125%	---	---	
Styrene	2.67	---	0.139	mg/kg dry	100	2.78	ND	96	76 - 124%	---	---	
1,1,1,2-Tetrachloroethane	3.16	---	0.0694	mg/kg dry	100	2.78	ND	114	78 - 125%	---	---	
1,1,2,2-Tetrachloroethane	2.68	---	0.139	mg/kg dry	100	2.78	ND	96	70 - 124%	---	---	
Tetrachloroethene (PCE)	3.23	---	0.0694	mg/kg dry	100	2.78	ND	116	73 - 128%	---	---	
Toluene	2.87	---	0.139	mg/kg dry	100	2.78	ND	103	77 - 121%	---	---	
1,2,3-Trichlorobenzene	3.03	---	0.694	mg/kg dry	100	2.78	ND	109	66 - 130%	---	---	
1,2,4-Trichlorobenzene	3.01	---	0.694	mg/kg dry	100	2.78	ND	108	67 - 129%	---	---	
1,1,1-Trichloroethane	3.53	---	0.0694	mg/kg dry	100	2.78	ND	127	73 - 130%	---	---	

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Jason Woodcock, Project Manager

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0835 - EPA 5035A							**Soil**					
Matrix Spike (25K0835-MS1)		Prepared: 11/18/25 10:15		Analyzed: 11/20/25 18:41								**COMP**
QC Source Sample: 2711-251118-COMP F (A5K1621-24)												
1,1,2-Trichloroethane	2.93	---	0.0694	mg/kg dry	100	2.78	ND	105	78 - 121%	---	---	
Trichloroethene (TCE)	3.37	---	0.0694	mg/kg dry	100	2.78	ND	121	77 - 123%	---	---	
Trichlorofluoromethane	3.54	---	0.694	mg/kg dry	100	2.78	ND	128	62 - 140%	---	---	Q-54a
1,2,3-Trichloropropane	2.63	---	0.139	mg/kg dry	100	2.78	ND	95	73 - 125%	---	---	
1,2,4-Trimethylbenzene	3.35	---	0.139	mg/kg dry	100	2.78	ND	120	75 - 123%	---	---	
1,3,5-Trimethylbenzene	3.26	---	0.139	mg/kg dry	100	2.78	ND	117	73 - 124%	---	---	
Vinyl chloride	3.53	---	0.0694	mg/kg dry	100	2.78	ND	127	56 - 135%	---	---	
m,p-Xylene	6.24	---	0.139	mg/kg dry	100	5.56	ND	112	77 - 124%	---	---	
o-Xylene	3.10	---	0.0694	mg/kg dry	100	2.78	ND	112	77 - 123%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 101 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)			*94 %*		*80-120 %*		*"*					
4-Bromofluorobenzene (Surr)			*99 %*		*79-120 %*		*"*					

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Jason Woodcock, Project Manager

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ANALYTICAL REPORT

NW Natural	Project: LNG Soil	
220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0880 - EPA 5035A							Soil					
Blank (25K0880-BLK1)		Prepared: 11/21/25 08:48 Analyzed: 11/21/25 11:20										
5035A/8260D												
Acetone	ND	---	1.00	mg/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
Benzene	ND	---	0.0100	mg/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	

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Jason Woodcock, Project Manager

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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

NW Natural	Project: LNG Soil	
220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0880 - EPA 5035A							Soil					
Blank (25K0880-BLK1)		Prepared: 11/21/25 08:48 Analyzed: 11/21/25 11:20										
1,2-Dichloropropane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Styrene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 104 %*		*Limits: 80-120 %*				*Dilution: 1x*				

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Jason Woodcock, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0880 - EPA 5035A									Soil			
Blank (25K0880-BLK1)			Prepared: 11/21/25 08:48 Analyzed: 11/21/25 11:20									
Surr: Toluene-d8 (Surr)			*Recovery: 91 %*	*Limits: 80-120 %*				*Dilution: 1x*				
4-Bromofluorobenzene (Surr)			*99 %*	*79-120 %*				*"*				
LCS (25K0880-BS1)			Prepared: 11/21/25 08:48 Analyzed: 11/21/25 10:24									
5035A/8260D												
Acetone	1.94	---	1.00	mg/kg wet	50	2.00	---	97	80 - 120%	---	---	
Acrylonitrile	1.06	---	0.100	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
Benzene	1.06	---	0.0100	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
Bromobenzene	0.920	---	0.0250	mg/kg wet	50	1.00	---	92	80 - 120%	---	---	
Bromochloromethane	1.09	---	0.0500	mg/kg wet	50	1.00	---	109	80 - 120%	---	---	
Bromodichloromethane	1.16	---	0.0500	mg/kg wet	50	1.00	---	116	80 - 120%	---	---	
Bromoform	0.956	---	0.100	mg/kg wet	50	1.00	---	96	80 - 120%	---	---	
Bromomethane	1.12	---	0.500	mg/kg wet	50	1.00	---	112	80 - 120%	---	---	
2-Butanone (MEK)	2.08	---	0.500	mg/kg wet	50	2.00	---	104	80 - 120%	---	---	
n-Butylbenzene	0.998	---	0.0500	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
sec-Butylbenzene	1.04	---	0.0500	mg/kg wet	50	1.00	---	104	80 - 120%	---	---	
tert-Butylbenzene	0.980	---	0.0500	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Carbon disulfide	1.10	---	0.500	mg/kg wet	50	1.00	---	110	80 - 120%	---	---	
Carbon tetrachloride	1.26	---	0.0500	mg/kg wet	50	1.00	---	**126**	**80 - 120%**	---	---	Q-56
Chlorobenzene	0.946	---	0.0250	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
Chloroethane	1.00	---	0.500	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
Chloroform	1.08	---	0.0500	mg/kg wet	50	1.00	---	108	80 - 120%	---	---	
Chloromethane	1.01	---	0.250	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
2-Chlorotoluene	0.938	---	0.0500	mg/kg wet	50	1.00	---	94	80 - 120%	---	---	
4-Chlorotoluene	0.974	---	0.0500	mg/kg wet	50	1.00	---	97	80 - 120%	---	---	
Dibromochloromethane	0.958	---	0.100	mg/kg wet	50	1.00	---	96	80 - 120%	---	---	
1,2-Dibromo-3-chloropropane	0.948	---	0.250	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
Dibromomethane	1.08	---	0.0500	mg/kg wet	50	1.00	---	108	80 - 120%	---	---	
1,2-Dichlorobenzene	0.947	---	0.0250	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
1,3-Dichlorobenzene	0.970	---	0.0250	mg/kg wet	50	1.00	---	97	80 - 120%	---	---	
1,4-Dichlorobenzene	0.903	---	0.0250	mg/kg wet	50	1.00	---	90	80 - 120%	---	---	
Dichlorodifluoromethane	1.18	---	0.100	mg/kg wet	50	1.00	---	118	80 - 120%	---	---	
1,1-Dichloroethane	1.07	---	0.0250	mg/kg wet	50	1.00	---	107	80 - 120%	---	---	

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Jason Woodcock, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0880 - EPA 5035A							**Soil**					
LCS (25K0880-BS1)		Prepared: 11/21/25 08:48		Analyzed: 11/21/25 10:24								
1,2-Dichloroethane (EDC)	1.08	---	0.0250	mg/kg wet	50	1.00	---	108	80 - 120%	---	---	
1,1-Dichloroethene	1.11	---	0.0250	mg/kg wet	50	1.00	---	111	80 - 120%	---	---	
cis-1,2-Dichloroethene	1.09	---	0.0250	mg/kg wet	50	1.00	---	109	80 - 120%	---	---	
trans-1,2-Dichloroethene	1.09	---	0.0250	mg/kg wet	50	1.00	---	109	80 - 120%	---	---	
1,2-Dichloropropane	1.11	---	0.0250	mg/kg wet	50	1.00	---	111	80 - 120%	---	---	
1,3-Dichloropropane	1.02	---	0.0500	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
2,2-Dichloropropane	1.26	---	0.0500	mg/kg wet	50	1.00	---	**126**	**80 - 120%**	---	---	Q-56
1,1-Dichloropropene	1.14	---	0.0500	mg/kg wet	50	1.00	---	114	80 - 120%	---	---	
cis-1,3-Dichloropropene	1.02	---	0.0500	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
trans-1,3-Dichloropropene	0.994	---	0.0500	mg/kg wet	50	1.00	---	99	80 - 120%	---	---	
Ethylbenzene	0.959	---	0.0250	mg/kg wet	50	1.00	---	96	80 - 120%	---	---	
Hexachlorobutadiene	0.942	---	0.100	mg/kg wet	50	1.00	---	94	80 - 120%	---	---	
2-Hexanone	1.61	---	0.500	mg/kg wet	50	2.00	---	81	80 - 120%	---	---	
Isopropylbenzene	1.05	---	0.0500	mg/kg wet	50	1.00	---	105	80 - 120%	---	---	
4-Isopropyltoluene	1.05	---	0.0500	mg/kg wet	50	1.00	---	105	80 - 120%	---	---	
Methylene chloride	1.13	---	0.500	mg/kg wet	50	1.00	---	113	80 - 120%	---	---	
4-Methyl-2-pentanone (MiBK)	1.74	---	0.500	mg/kg wet	50	2.00	---	87	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	1.09	---	0.0500	mg/kg wet	50	1.00	---	109	80 - 120%	---	---	
Naphthalene	0.804	---	0.100	mg/kg wet	50	1.00	---	80	80 - 120%	---	---	
n-Propylbenzene	0.962	---	0.0250	mg/kg wet	50	1.00	---	96	80 - 120%	---	---	
Styrene	0.888	---	0.0500	mg/kg wet	50	1.00	---	89	80 - 120%	---	---	
1,1,1,2-Tetrachloroethane	1.10	---	0.0250	mg/kg wet	50	1.00	---	110	80 - 120%	---	---	
1,1,2,2-Tetrachloroethane	0.931	---	0.0500	mg/kg wet	50	1.00	---	93	80 - 120%	---	---	
Tetrachloroethene (PCE)	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
Toluene	0.964	---	0.0500	mg/kg wet	50	1.00	---	96	80 - 120%	---	---	
1,2,3-Trichlorobenzene	0.951	---	0.250	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
1,2,4-Trichlorobenzene	0.897	---	0.250	mg/kg wet	50	1.00	---	90	80 - 120%	---	---	
1,1,1-Trichloroethane	1.18	---	0.0250	mg/kg wet	50	1.00	---	118	80 - 120%	---	---	
1,1,2-Trichloroethane	1.04	---	0.0250	mg/kg wet	50	1.00	---	104	80 - 120%	---	---	
Trichloroethene (TCE)	1.13	---	0.0250	mg/kg wet	50	1.00	---	113	80 - 120%	---	---	
Trichlorofluoromethane	1.15	---	0.250	mg/kg wet	50	1.00	---	115	80 - 120%	---	---	
1,2,3-Trichloropropane	0.922	---	0.0500	mg/kg wet	50	1.00	---	92	80 - 120%	---	---	
1,2,4-Trimethylbenzene	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
1,3,5-Trimethylbenzene	1.05	---	0.0500	mg/kg wet	50	1.00	---	105	80 - 120%	---	---	

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0880 - EPA 5035A								Soil				
LCS (25K0880-BS1)		Prepared: 11/21/25 08:48 Analyzed: 11/21/25 10:24										
Vinyl chloride	1.11	---	0.0250	mg/kg wet	50	1.00	---	111	80 - 120%	---	---	
m,p-Xylene	2.05	---	0.0500	mg/kg wet	50	2.00	---	103	80 - 120%	---	---	
o-Xylene	0.992	---	0.0250	mg/kg wet	50	1.00	---	99	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 101 %*		*Limits: 80-120 %*				*Dilution: 1x*				
Toluene-d8 (Surr)		*94 %*		*80-120 %*				*"*				
4-Bromofluorobenzene (Surr)		*96 %*		*79-120 %*				*"*				

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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ANALYTICAL REPORT

NW Natural	Project: LNG Soil	
220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K1055 - EPA 3546							Soil					
Blank (25K1055-BLK1)		Prepared: 11/26/25 10:13 Analyzed: 11/26/25 18:45										**C-07**
EPA 8082A												
Aroclor 1016	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)		*Recovery: 108 %*		*Limits: 60-125 %*			*Dilution: 1x*					
LCS (25K1055-BS1)		Prepared: 11/26/25 10:13 Analyzed: 11/26/25 19:03										**C-07**
EPA 8082A												
Aroclor 1016	0.194	---	0.0100	mg/kg wet	1	0.250	---	78	47 - 134%	---	---	
Aroclor 1260	0.216	---	0.0100	mg/kg wet	1	0.250	---	86	53 - 140%	---	---	
Surr: Decachlorobiphenyl (Surr)		*Recovery: 105 %*		*Limits: 60-125 %*			*Dilution: 1x*					
Duplicate (25K1055-DUP1)		Prepared: 11/26/25 10:13 Analyzed: 11/26/25 19:57										**C-07, COMP**
QC Source Sample: 2711-251118-COMP A (A5K1621-19)												
EPA 8082A												
Aroclor 1016	ND	---	0.0103	mg/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	---	0.0103	mg/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	0.0103	mg/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1242	ND	---	0.0103	mg/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1248	ND	---	0.0103	mg/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1254	**0.0121**	---	0.0103	mg/kg dry	1	---	0.00914	---	---	28	30%	
Aroclor 1260	ND	---	0.0103	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)		*Recovery: 101 %*		*Limits: 60-125 %*			*Dilution: 1x*					

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Jason Woodcock, Project Manager

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ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0851 - EPA 3546							**Soil**					
Blank (25K0851-BLK1)		Prepared: 11/20/25 14:18 Analyzed: 11/21/25 15:57										
EPA 8270E												
Acenaphthene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	0.00400	mg/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	0.00400	mg/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	0.00400	mg/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	0.00533	mg/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	0.00533	mg/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	---	0.00533	mg/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Carbazole	ND	---	0.00400	mg/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
2-Chlorophenol	ND	---	0.0133	mg/kg wet	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	---	0.0267	mg/kg wet	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	---	0.0133	mg/kg wet	1	---	---	---	---	---	---	
2,6-Dichlorophenol	ND	---	0.0133	mg/kg wet	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	---	0.0133	mg/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	---	0.0667	mg/kg wet	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	---	0.0667	mg/kg wet	1	---	---	---	---	---	---	
2-Methylphenol	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
2-Nitrophenol	ND	---	0.0267	mg/kg wet	1	---	---	---	---	---	---	
4-Nitrophenol	ND	---	0.0267	mg/kg wet	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	---	0.0267	mg/kg wet	1	---	---	---	---	---	---	
Phenol	ND	---	0.00533	mg/kg wet	1	---	---	---	---	---	---	

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Jason Woodcock, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0851 - EPA 3546							**Soil**					
Blank (25K0851-BLK1)		Prepared: 11/20/25 14:18		Analyzed: 11/21/25 15:57								
2,3,4,6-Tetrachlorophenol	ND	---	0.0133	mg/kg wet	1	---	---	---	---	---	---	
2,3,5,6-Tetrachlorophenol	ND	---	0.0133	mg/kg wet	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	---	0.0133	mg/kg wet	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	---	0.0133	mg/kg wet	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	---	0.0400	mg/kg wet	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	---	0.0267	mg/kg wet	1	---	---	---	---	---	---	
Diethylphthalate	ND	---	0.0267	mg/kg wet	1	---	---	---	---	---	---	
Dimethylphthalate	ND	---	0.0267	mg/kg wet	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	---	0.0267	mg/kg wet	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	---	0.0267	mg/kg wet	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	---	0.0133	mg/kg wet	1	---	---	---	---	---	---	
Hexachloroethane	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
Aniline	ND	---	0.0133	mg/kg wet	1	---	---	---	---	---	---	
4-Chloroaniline	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
2-Nitroaniline	ND	---	0.0533	mg/kg wet	1	---	---	---	---	---	---	
3-Nitroaniline	ND	---	0.0533	mg/kg wet	1	---	---	---	---	---	---	
4-Nitroaniline	ND	---	0.0533	mg/kg wet	1	---	---	---	---	---	---	
Nitrobenzene	ND	---	0.0267	mg/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	---	0.0267	mg/kg wet	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	---	0.0267	mg/kg wet	1	---	---	---	---	---	---	
Benzoic acid	ND	---	0.333	mg/kg wet	1	---	---	---	---	---	---	
Benzyl alcohol	ND	---	0.0266	mg/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0851 - EPA 3546							**Soil**					
Blank (25K0851-BLK1)		Prepared: 11/20/25 14:18		Analyzed: 11/21/25 15:57								
Isophorone	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
Azobenzene (1,2-DPH)	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	---	0.0667	mg/kg wet	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	---	0.0533	mg/kg wet	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	---	0.0667	mg/kg wet	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	---	0.0667	mg/kg wet	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	---	0.0667	mg/kg wet	1	---	---	---	---	---	---	
Pyridine	ND	---	0.0133	mg/kg wet	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.00667	mg/kg wet	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)		*Recovery:*	*100 %*	*Limits:*	*37-122 %*		*Dilution:*	*1x*				
2-Fluorobiphenyl (Surr)			*95 %*		*44-120 %*			*"*				
Phenol-d6 (Surr)			*97 %*		*33-122 %*			*"*				
p-Terphenyl-d14 (Surr)			*105 %*		*54-127 %*			*"*				
2-Fluorophenol (Surr)			*96 %*		*35-120 %*			*"*				
2,4,6-Tribromophenol (Surr)			*95 %*		*39-132 %*			*"*				
LCS (25K0851-BS1)		Prepared: 11/20/25 14:18		Analyzed: 11/21/25 16:33								**Q-18**
EPA 8270E												
Acenaphthene	0.499	---	0.0107	mg/kg wet	4	0.533	---	93	40 - 123%	---	---	
Acenaphthylene	0.533	---	0.0107	mg/kg wet	4	0.533	---	100	32 - 132%	---	---	
Anthracene	0.511	---	0.0107	mg/kg wet	4	0.533	---	96	47 - 123%	---	---	
Benz(a)anthracene	0.517	---	0.0107	mg/kg wet	4	0.533	---	97	49 - 126%	---	---	
Benzo(a)pyrene	0.545	---	0.0160	mg/kg wet	4	0.533	---	102	45 - 129%	---	---	
Benzo(b)fluoranthene	0.529	---	0.0160	mg/kg wet	4	0.533	---	99	45 - 132%	---	---	
Benzo(k)fluoranthene	0.542	---	0.0160	mg/kg wet	4	0.533	---	102	47 - 132%	---	---	
Benzo(g,h,i)perylene	0.526	---	0.0107	mg/kg wet	4	0.533	---	99	43 - 134%	---	---	
Chrysene	0.509	---	0.0107	mg/kg wet	4	0.533	---	95	50 - 124%	---	---	
Dibenz(a,h)anthracene	0.522	---	0.0107	mg/kg wet	4	0.533	---	98	45 - 134%	---	---	
Fluoranthene	0.516	---	0.0107	mg/kg wet	4	0.533	---	97	50 - 127%	---	---	
Fluorene	0.518	---	0.0107	mg/kg wet	4	0.533	---	97	43 - 125%	---	---	
Indeno(1,2,3-cd)pyrene	0.494	---	0.0107	mg/kg wet	4	0.533	---	93	45 - 133%	---	---	
1-Methylnaphthalene	0.499	---	0.0213	mg/kg wet	4	0.533	---	94	40 - 120%	---	---	

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Jason Woodcock, Project Manager

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APEX LABORATORIES

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0851 - EPA 3546							**Soil**					
LCS (25K0851-BS1)		Prepared: 11/20/25 14:18		Analyzed: 11/21/25 16:33								**Q-18**
2-Methylnaphthalene	0.498	---	0.0213	mg/kg wet	4	0.533	---	93	38 - 122%	---	---	
Naphthalene	0.492	---	0.0213	mg/kg wet	4	0.533	---	92	35 - 123%	---	---	
Phenanthrene	0.493	---	0.0107	mg/kg wet	4	0.533	---	93	50 - 121%	---	---	
Pyrene	0.516	---	0.0107	mg/kg wet	4	0.533	---	97	47 - 127%	---	---	
Carbazole	0.536	---	0.0160	mg/kg wet	4	0.533	---	101	50 - 123%	---	---	
Dibenzofuran	0.503	---	0.0107	mg/kg wet	4	0.533	---	94	44 - 120%	---	---	
2-Chlorophenol	0.507	---	0.0532	mg/kg wet	4	0.533	---	95	34 - 121%	---	---	
4-Chloro-3-methylphenol	0.546	---	0.107	mg/kg wet	4	0.533	---	102	45 - 122%	---	---	
2,4-Dichlorophenol	0.539	---	0.0532	mg/kg wet	4	0.533	---	101	40 - 122%	---	---	
2,6-Dichlorophenol	0.529	---	0.0532	mg/kg wet	4	0.533	---	99	41 - 120%	---	---	
2,4-Dimethylphenol	0.540	---	0.0532	mg/kg wet	4	0.533	---	101	30 - 127%	---	---	
2,4-Dinitrophenol	0.444	---	0.267	mg/kg wet	4	0.533	---	83	10 - 137%	---	---	
4,6-Dinitro-2-methylphenol	0.479	---	0.267	mg/kg wet	4	0.533	---	90	29 - 132%	---	---	
2-Methylphenol	0.529	---	0.0267	mg/kg wet	4	0.533	---	99	32 - 122%	---	---	
3+4-Methylphenol(s)	0.550	---	0.0267	mg/kg wet	4	0.533	---	103	34 - 120%	---	---	
2-Nitrophenol	0.533	---	0.107	mg/kg wet	4	0.533	---	100	36 - 123%	---	---	
4-Nitrophenol	0.491	---	0.107	mg/kg wet	4	0.533	---	92	30 - 132%	---	---	
Pentachlorophenol (PCP)	0.468	---	0.107	mg/kg wet	4	0.533	---	88	25 - 133%	---	---	
Phenol	0.537	---	0.0213	mg/kg wet	4	0.533	---	101	34 - 121%	---	---	
2,3,4,6-Tetrachlorophenol	0.511	---	0.0532	mg/kg wet	4	0.533	---	96	44 - 125%	---	---	
2,3,5,6-Tetrachlorophenol	0.503	---	0.0532	mg/kg wet	4	0.533	---	94	40 - 120%	---	---	
2,4,5-Trichlorophenol	0.528	---	0.0532	mg/kg wet	4	0.533	---	99	41 - 124%	---	---	
2,4,6-Trichlorophenol	0.519	---	0.0532	mg/kg wet	4	0.533	---	97	39 - 126%	---	---	
Bis(2-ethylhexyl)phthalate	0.533	---	0.160	mg/kg wet	4	0.533	---	100	51 - 133%	---	---	
Butyl benzyl phthalate	0.551	---	0.107	mg/kg wet	4	0.533	---	103	48 - 132%	---	---	
Diethylphthalate	0.536	---	0.107	mg/kg wet	4	0.533	---	100	50 - 124%	---	---	
Dimethylphthalate	0.519	---	0.107	mg/kg wet	4	0.533	---	97	48 - 124%	---	---	
Di-n-butylphthalate	0.566	---	0.107	mg/kg wet	4	0.533	---	106	51 - 128%	---	---	
Di-n-octyl phthalate	0.559	---	0.107	mg/kg wet	4	0.533	---	105	45 - 140%	---	---	
N-Nitrosodimethylamine	0.519	---	0.0267	mg/kg wet	4	0.533	---	97	23 - 120%	---	---	
N-Nitroso-di-n-propylamine	0.554	---	0.0267	mg/kg wet	4	0.533	---	104	36 - 120%	---	---	
N-Nitrosodiphenylamine	0.554	---	0.0267	mg/kg wet	4	0.533	---	104	38 - 127%	---	---	
Bis(2-Chloroethoxy) methane	0.508	---	0.0267	mg/kg wet	4	0.533	---	95	36 - 121%	---	---	
Bis(2-Chloroethyl) ether	0.487	---	0.0267	mg/kg wet	4	0.533	---	91	31 - 120%	---	---	

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0851 - EPA 3546							**Soil**					
LCS (25K0851-BS1)		Prepared: 11/20/25 14:18		Analyzed: 11/21/25 16:33								**Q-18**
2,2'-Oxybis(1-Chloropropane)	0.580	---	0.0267	mg/kg wet	4	0.533	---	109	39 - 120%	---	---	
Hexachlorobenzene	0.486	---	0.0107	mg/kg wet	4	0.533	---	91	45 - 122%	---	---	
Hexachlorobutadiene	0.492	---	0.0267	mg/kg wet	4	0.533	---	92	32 - 123%	---	---	
Hexachlorocyclopentadiene	0.391	---	0.0532	mg/kg wet	4	0.533	---	73	10 - 140%	---	---	
Hexachloroethane	0.485	---	0.0267	mg/kg wet	4	0.533	---	91	28 - 120%	---	---	
2-Chloronaphthalene	0.494	---	0.0107	mg/kg wet	4	0.533	---	93	41 - 120%	---	---	
1,2,4-Trichlorobenzene	0.492	---	0.0267	mg/kg wet	4	0.533	---	92	34 - 120%	---	---	
4-Bromophenyl phenyl ether	0.499	---	0.0267	mg/kg wet	4	0.533	---	93	46 - 124%	---	---	
4-Chlorophenyl phenyl ether	0.507	---	0.0267	mg/kg wet	4	0.533	---	95	45 - 121%	---	---	
Aniline	0.424	---	0.0532	mg/kg wet	4	0.533	---	79	10 - 120%	---	---	
4-Chloroaniline	0.330	---	0.0267	mg/kg wet	4	0.533	---	62	17 - 120%	---	---	
2-Nitroaniline	0.542	---	0.213	mg/kg wet	4	0.533	---	102	44 - 127%	---	---	
3-Nitroaniline	0.342	---	0.213	mg/kg wet	4	0.533	---	64	33 - 120%	---	---	
4-Nitroaniline	0.554	---	0.213	mg/kg wet	4	0.533	---	104	51 - 125%	---	---	
Nitrobenzene	0.536	---	0.107	mg/kg wet	4	0.533	---	100	34 - 122%	---	---	
2,4-Dinitrotoluene	0.541	---	0.107	mg/kg wet	4	0.533	---	102	48 - 126%	---	---	
2,6-Dinitrotoluene	0.519	---	0.107	mg/kg wet	4	0.533	---	97	46 - 124%	---	---	
Benzoic acid	0.428	---	0.400	mg/kg wet	4	1.07	---	40	10 - 140%	---	---	Q-41
Benzyl alcohol	0.520	---	0.106	mg/kg wet	4	0.533	---	98	29 - 122%	---	---	
Isophorone	0.533	---	0.0267	mg/kg wet	4	0.533	---	100	30 - 122%	---	---	
Azobenzene (1,2-DPH)	0.581	---	0.0267	mg/kg wet	4	0.533	---	109	39 - 125%	---	---	
Bis(2-Ethylhexyl) adipate	0.542	---	0.267	mg/kg wet	4	0.533	---	102	61 - 121%	---	---	
3,3'-Dichlorobenzidine	2.54	---	0.213	mg/kg wet	4	1.07	---	**238**	**22 - 121%**	---	---	Q-29, Q-41, Q-52
1,2-Dinitrobenzene	0.529	---	0.267	mg/kg wet	4	0.533	---	99	44 - 120%	---	---	
1,3-Dinitrobenzene	0.529	---	0.267	mg/kg wet	4	0.533	---	99	43 - 127%	---	---	
1,4-Dinitrobenzene	0.507	---	0.267	mg/kg wet	4	0.533	---	95	37 - 132%	---	---	
Pyridine	0.457	---	0.0532	mg/kg wet	4	0.533	---	86	10 - 120%	---	---	
1,2-Dichlorobenzene	0.475	---	0.0267	mg/kg wet	4	0.533	---	89	33 - 120%	---	---	
1,3-Dichlorobenzene	0.474	---	0.0267	mg/kg wet	4	0.533	---	89	30 - 120%	---	---	
1,4-Dichlorobenzene	0.480	---	0.0267	mg/kg wet	4	0.533	---	90	31 - 120%	---	---	

Surr: Nitrobenzene-d5 (Surr)	*Recovery: 110 %*	*Limits: 37-122 %*	*Dilution: 4x*	
2-Fluorobiphenyl (Surr)	*101 %*	*44-120 %*	*"*	
Phenol-d6 (Surr)	*107 %*	*33-122 %*	*"*	

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ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0851 - EPA 3546							**Soil**					
LCS (25K0851-BS1)			Prepared: 11/20/25 14:18 Analyzed: 11/21/25 16:33									**Q-18**
Surr: p-Terphenyl-d14 (Surr)			*Recovery: 107 %*	*Limits: 54-127 %*			*Dilution: 4x*					
2-Fluorophenol (Surr)			*101 %*	*35-120 %*			*"*					
2,4,6-Tribromophenol (Surr)			*106 %*	*39-132 %*			*"*					
Duplicate (25K0851-DUP1)			Prepared: 11/20/25 14:18 Analyzed: 11/21/25 17:45									**COMP**
QC Source Sample: 2711-251118-COMP A (A5K1621-19)												
EPA 8270E												
Acenaphthene	ND	---	0.300	mg/kg dry	100	---	ND	---	---	---	30%	
Acenaphthylene	ND	---	0.300	mg/kg dry	100	---	0.180	---	---	***	30%	
Anthracene	ND	---	0.300	mg/kg dry	100	---	0.214	---	---	***	30%	
Benz(a)anthracene	**1.16**	---	0.300	mg/kg dry	100	---	1.22	---	---	6	30%	
Benzo(a)pyrene	**2.09**	---	0.449	mg/kg dry	100	---	2.25	---	---	8	30%	
Benzo(b)fluoranthene	**2.39**	---	0.449	mg/kg dry	100	---	2.42	---	---	1	30%	
Benzo(k)fluoranthene	**0.774**	---	0.449	mg/kg dry	100	---	0.959	---	---	21	30%	M-05
Benzo(g,h,i)perylene	**2.34**	---	0.300	mg/kg dry	100	---	2.51	---	---	7	30%	
Chrysene	**1.57**	---	0.300	mg/kg dry	100	---	1.64	---	---	4	30%	
Dibenz(a,h)anthracene	ND	---	0.300	mg/kg dry	100	---	0.267	---	---	***	30%	
Fluoranthene	**2.27**	---	0.300	mg/kg dry	100	---	2.31	---	---	2	30%	
Fluorene	ND	---	0.300	mg/kg dry	100	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	**1.85**	---	0.300	mg/kg dry	100	---	1.98	---	---	6	30%	
1-Methylnaphthalene	ND	---	0.599	mg/kg dry	100	---	ND	---	---	---	30%	
2-Methylnaphthalene	ND	---	0.599	mg/kg dry	100	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.599	mg/kg dry	100	---	0.434	---	---	***	**30%**	Q-17
Phenanthrene	**0.937**	---	0.300	mg/kg dry	100	---	0.952	---	---	2	30%	
Pyrene	**2.85**	---	0.300	mg/kg dry	100	---	2.94	---	---	3	30%	
Carbazole	ND	---	0.449	mg/kg dry	100	---	ND	---	---	---	30%	
Dibenzofuran	ND	---	0.300	mg/kg dry	100	---	ND	---	---	---	30%	
2-Chlorophenol	ND	---	1.49	mg/kg dry	100	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	---	3.00	mg/kg dry	100	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	---	1.49	mg/kg dry	100	---	ND	---	---	---	30%	
2,6-Dichlorophenol	ND	---	1.49	mg/kg dry	100	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	---	1.49	mg/kg dry	100	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	---	7.49	mg/kg dry	100	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	---	7.49	mg/kg dry	100	---	ND	---	---	---	30%	

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NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
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Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0851 - EPA 3546							**Soil**					
Duplicate (25K0851-DUP1)		Prepared: 11/20/25 14:18		Analyzed: 11/21/25 17:45								**COMP**
QC Source Sample: 2711-251118-COMP A (A5K1621-19)												
2-Methylphenol	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
2-Nitrophenol	ND	---	3.00	mg/kg dry	100	---	ND	---	---	---	30%	
4-Nitrophenol	ND	---	3.00	mg/kg dry	100	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	---	3.00	mg/kg dry	100	---	ND	---	---	---	30%	
Phenol	ND	---	0.599	mg/kg dry	100	---	ND	---	---	---	30%	
2,3,4,6-Tetrachlorophenol	ND	---	1.49	mg/kg dry	100	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	---	1.49	mg/kg dry	100	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	---	1.49	mg/kg dry	100	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	---	1.49	mg/kg dry	100	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	---	4.49	mg/kg dry	100	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	---	3.00	mg/kg dry	100	---	ND	---	---	---	30%	
Diethylphthalate	ND	---	3.00	mg/kg dry	100	---	ND	---	---	---	30%	
Dimethylphthalate	ND	---	3.00	mg/kg dry	100	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	---	3.00	mg/kg dry	100	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	---	3.00	mg/kg dry	100	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	---	0.300	mg/kg dry	100	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	---	1.49	mg/kg dry	100	---	ND	---	---	---	30%	
Hexachloroethane	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	---	0.300	mg/kg dry	100	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
Aniline	ND	---	1.49	mg/kg dry	100	---	ND	---	---	---	30%	
4-Chloroaniline	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
2-Nitroaniline	ND	---	5.99	mg/kg dry	100	---	ND	---	---	---	30%	

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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0851 - EPA 3546							**Soil**					
Duplicate (25K0851-DUP1)		Prepared: 11/20/25 14:18		Analyzed: 11/21/25 17:45								**COMP**
QC Source Sample: 2711-251118-COMP A (A5K1621-19)												
3-Nitroaniline	ND	---	5.99	mg/kg dry	100	---	ND	---	---	---	30%	
4-Nitroaniline	ND	---	5.99	mg/kg dry	100	---	ND	---	---	---	30%	
Nitrobenzene	ND	---	3.00	mg/kg dry	100	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	---	3.00	mg/kg dry	100	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	---	3.00	mg/kg dry	100	---	ND	---	---	---	30%	
Benzoic acid	ND	---	37.4	mg/kg dry	100	---	ND	---	---	---	30%	
Benzyl alcohol	ND	---	2.99	mg/kg dry	100	---	ND	---	---	---	30%	
Isophorone	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
Azobenzene (1,2-DPH)	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	---	7.49	mg/kg dry	100	---	ND	---	---	---	30%	
3,3'-Dichlorobenzidine	ND	---	5.99	mg/kg dry	100	---	ND	---	---	---	30%	Q-52
1,2-Dinitrobenzene	ND	---	7.49	mg/kg dry	100	---	ND	---	---	---	30%	
1,3-Dinitrobenzene	ND	---	7.49	mg/kg dry	100	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	---	7.49	mg/kg dry	100	---	ND	---	---	---	30%	
Pyridine	ND	---	1.49	mg/kg dry	100	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	0.749	mg/kg dry	100	---	ND	---	---	---	30%	
Surr: Nitrobenzene-d5 (Surr)		*Recovery:*	*79 %*	*Limits:*	*37-122 %*		*Dilution:*	*100x*				S-05
2-Fluorobiphenyl (Surr)			*82 %*		*44-120 %*			*"*				S-05
Phenol-d6 (Surr)			*84 %*		*33-122 %*			*"*				S-05
p-Terphenyl-d14 (Surr)			*89 %*		*54-127 %*			*"*				S-05
2-Fluorophenol (Surr)			*71 %*		*35-120 %*			*"*				S-05
2,4,6-Tribromophenol (Surr)			*103 %*		*39-132 %*			*"*				S-05

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Jason Woodcock, Project Manager

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Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K1042 - EPA 1311/3510C (BNA Extraction)							**Water**					
Blank (25K1042-BLK1)		Prepared: 11/26/25 08:01		Analyzed: 11/26/25 15:11								**TCLP**
1311/8270E												
2-Methylphenol	ND	---	0.00500	mg/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	---	0.00500	mg/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	---	0.0100	mg/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	---	0.00500	mg/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	---	0.00500	mg/L	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	---	0.00200	mg/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.00500	mg/L	1	---	---	---	---	---	---	
Hexachloroethane	ND	---	0.00500	mg/L	1	---	---	---	---	---	---	
Nitrobenzene	ND	---	0.00500	mg/L	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	---	0.00200	mg/L	1	---	---	---	---	---	---	
Pyridine	ND	---	0.0100	mg/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)		*Recovery: 88 %*		*Limits: 44-120 %*			*Dilution: 1x*					
2-Fluorobiphenyl (Surr)		*75 %*		*44-120 %*			*"*					
Phenol-d6 (Surr)		*26 %*		*10-133 %*			*"*					
p-Terphenyl-d14 (Surr)		*85 %*		*50-134 %*			*"*					
2-Fluorophenol (Surr)		*41 %*		*19-120 %*			*"*					
2,4,6-Tribromophenol (Surr)		*83 %*		*43-140 %*			*"*					
LCS (25K1042-BS1)		Prepared: 11/26/25 08:01		Analyzed: 11/26/25 15:42								**TCLP**
1311/8270E												
2-Methylphenol	0.0258	---	0.0200	mg/L	4	0.0400	---	65	30 - 120%	---	---	
3+4-Methylphenol(s)	0.0238	---	0.0200	mg/L	4	0.0400	---	60	29 - 120%	---	---	
Pentachlorophenol (PCP)	0.0375	---	0.0200	mg/L	4	0.0400	---	94	35 - 138%	---	---	
2,4,5-Trichlorophenol	0.0334	---	0.0200	mg/L	4	0.0400	---	83	53 - 123%	---	---	
2,4,6-Trichlorophenol	0.0343	---	0.0200	mg/L	4	0.0400	---	86	50 - 125%	---	---	
Hexachlorobenzene	0.0333	---	0.00800	mg/L	4	0.0400	---	83	53 - 125%	---	---	
Hexachlorobutadiene	0.0226	---	0.0200	mg/L	4	0.0400	---	57	22 - 124%	---	---	
Hexachloroethane	0.0226	---	0.0200	mg/L	4	0.0400	---	56	21 - 120%	---	---	
Nitrobenzene	0.0361	---	0.0200	mg/L	4	0.0400	---	90	45 - 121%	---	---	
2,4-Dinitrotoluene	0.0367	---	0.00800	mg/L	4	0.0400	---	92	57 - 128%	---	---	
Pyridine	0.0177	---	0.00400	mg/L	4	0.0400	---	44	10 - 120%	---	---	Q-41
Surr: Nitrobenzene-d5 (Surr)		*Recovery: 89 %*		*Limits: 44-120 %*			*Dilution: 4x*					
2-Fluorobiphenyl (Surr)		*78 %*		*44-120 %*			*"*					

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Jason Woodcock, Project Manager

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K1042 - EPA 1311/3510C (BNA Extraction)												**Water**
LCS (25K1042-BS1)			Prepared: 11/26/25 08:01		Analyzed: 11/26/25 15:42							**TCLP**
Surr: Phenol-d6 (Surr)			*Recovery: 23 %*		*Limits: 10-133 %*		*Dilution: 4x*					
p-Terphenyl-d14 (Surr)			*86 %*		*50-134 %*		*"*					
2-Fluorophenol (Surr)			*35 %*		*19-120 %*		*"*					
2,4,6-Tribromophenol (Surr)			*88 %*		*43-140 %*		*"*					
Matrix Spike (25K1042-MS1)			Prepared: 11/26/25 08:01		Analyzed: 11/26/25 17:22							**COMP**
QC Source Sample: 2711-251118-COMP A (A5K1621-19RE1)												
1311/8270E												
2-Methylphenol	ND	---	0.0500	mg/L	10	0.0400	ND	67	30 - 120%	---	---	
3+4-Methylphenol(s)	ND	---	0.0500	mg/L	10	0.0400	ND		**29 - 120%**	---	---	Q-11
Pentachlorophenol (PCP)	ND	---	0.100	mg/L	10	0.0400	ND		**35 - 138%**	---	---	Q-11
2,4,5-Trichlorophenol	ND	---	0.0500	mg/L	10	0.0400	ND	79	53 - 123%	---	---	
2,4,6-Trichlorophenol	ND	---	0.0500	mg/L	10	0.0400	ND	81	50 - 125%	---	---	
Hexachlorobenzene	0.0317	---	0.0200	mg/L	10	0.0400	ND	79	53 - 125%	---	---	
Hexachlorobutadiene	ND	---	0.0500	mg/L	10	0.0400	ND		**22 - 124%**	---	---	Q-11
Hexachloroethane	ND	---	0.0500	mg/L	10	0.0400	ND		**21 - 120%**	---	---	Q-11
Nitrobenzene	ND	---	0.0500	mg/L	10	0.0400	ND	85	45 - 121%	---	---	
2,4-Dinitrotoluene	0.0336	---	0.0200	mg/L	10	0.0400	ND	84	57 - 128%	---	---	
Pyridine	ND	---	0.100	mg/L	10	0.0400	ND		**10 - 120%**	---	---	Q-11, Q-41
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 86 %*		*Limits: 44-120 %*		*Dilution: 10x*					
2-Fluorobiphenyl (Surr)			*77 %*		*44-120 %*		*"*					
Phenol-d6 (Surr)			*22 %*		*10-133 %*		*"*					
p-Terphenyl-d14 (Surr)			*87 %*		*50-134 %*		*"*					
2-Fluorophenol (Surr)			*35 %*		*19-120 %*		*"*					
2,4,6-Tribromophenol (Surr)			*87 %*		*43-140 %*		*"*					
Matrix Spike Dup (25K1042-MSD1)			Prepared: 11/26/25 08:01		Analyzed: 11/26/25 17:56							**COMP**
QC Source Sample: 2711-251118-COMP A (A5K1621-19RE1)												
1311/8270E												
2-Methylphenol	ND	---	0.0500	mg/L	10	0.0400	ND	77	30 - 120%	14	30%	
3+4-Methylphenol(s)	ND	---	0.0500	mg/L	10	0.0400	ND	69	29 - 120%	**200**	**30%**	Q-11
Pentachlorophenol (PCP)	ND	---	0.100	mg/L	10	0.0400	ND		**35 - 138%**		30%	Q-11
2,4,5-Trichlorophenol	ND	---	0.0500	mg/L	10	0.0400	ND	85	53 - 123%	6	30%	
2,4,6-Trichlorophenol	ND	---	0.0500	mg/L	10	0.0400	ND	88	50 - 125%	9	30%	

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ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K1042 - EPA 1311/3510C (BNA Extraction)							**Water**					
Matrix Spike Dup (25K1042-MSD1)	Prepared: 11/26/25 08:01 Analyzed: 11/26/25 17:56											**COMP**
QC Source Sample: 2711-251118-COMP A (A5K1621-19RE1)												
Hexachlorobenzene	0.0342	---	0.0200	mg/L	10	0.0400	ND	86	53 - 125%	8	30%	
Hexachlorobutadiene	ND	---	0.0500	mg/L	10	0.0400	ND		**22 - 124%**		30%	Q-11
Hexachloroethane	ND	---	0.0500	mg/L	10	0.0400	ND		**21 - 120%**		30%	Q-11
Nitrobenzene	ND	---	0.0500	mg/L	10	0.0400	ND	102	45 - 121%	18	30%	
2,4-Dinitrotoluene	0.0367	---	0.0200	mg/L	10	0.0400	ND	92	57 - 128%	9	30%	
Pyridine	ND	---	0.100	mg/L	10	0.0400	ND		**10 - 120%**		30%	Q-11, Q-41
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 96 %*		*Limits: 44-120 %*		*Dilution: 10x*					
2-Fluorobiphenyl (Surr)			*81 %*		*44-120 %*		*"*					
Phenol-d6 (Surr)			*27 %*		*10-133 %*		*"*					
p-Terphenyl-d14 (Surr)			*88 %*		*50-134 %*		*"*					
2-Fluorophenol (Surr)			*39 %*		*19-120 %*		*"*					
2,4,6-Tribromophenol (Surr)			*90 %*		*43-140 %*		*"*					

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220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0974 - EPA 3051A							Soil					
Blank (25K0974-BLK1)		Prepared: 11/25/25 08:00 Analyzed: 11/26/25 00:45										
EPA 6020B												
Arsenic	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Barium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
Mercury	ND	---	0.0800	mg/kg wet	10	---	---	---	---	---	---	
Selenium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Silver	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
LCS (25K0974-BS1)		Prepared: 11/25/25 08:00 Analyzed: 11/26/25 00:50										
EPA 6020B												
Arsenic	49.3	---	1.00	mg/kg wet	10	50.0	---	99	80 - 120%	---	---	
Barium	49.4	---	1.00	mg/kg wet	10	50.0	---	99	80 - 120%	---	---	
Cadmium	49.6	---	0.200	mg/kg wet	10	50.0	---	99	80 - 120%	---	---	
Chromium	48.7	---	1.00	mg/kg wet	10	50.0	---	97	80 - 120%	---	---	
Lead	49.5	---	0.200	mg/kg wet	10	50.0	---	99	80 - 120%	---	---	
Mercury	0.989	---	0.0800	mg/kg wet	10	1.00	---	99	80 - 120%	---	---	
Selenium	22.9	---	1.00	mg/kg wet	10	25.0	---	92	80 - 120%	---	---	
Silver	25.9	---	0.200	mg/kg wet	10	25.0	---	104	80 - 120%	---	---	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Jason Woodcock, Project Manager

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ANALYTICAL REPORT

NW Natural	Project: LNG Soil	
220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

QUALITY CONTROL (QC) SAMPLE RESULTS

Soluble Cyanide by Flow Analysis (Non-Aqueous/Water Leach)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0852 - EPA 9013M(Leach)/MicroDist												**Soil**
Blank (25K0852-BLK1)		Prepared: 11/20/25 14:19		Analyzed: 11/20/25 17:48								
EPA 9013M/9012B												
Total Cyanide	ND	---	0.100	mg/kg wet	1	---	---	---	---	---	---	
LCS (25K0852-BS1)		Prepared: 11/20/25 14:19		Analyzed: 11/20/25 17:50								
EPA 9013M/9012B												
Total Cyanide	3.77	---	0.100	mg/kg wet	1	4.00	---	94	76 - 120%	---	---	
Duplicate (25K0852-DUP1)		Prepared: 11/20/25 14:19		Analyzed: 11/20/25 17:56								**COMP**
QC Source Sample: 2711-251118-COMP A (A5K1621-19)												
EPA 9013M/9012B												
Total Cyanide	**0.152**	---	0.113	mg/kg dry	1	---	0.190	---	---	**22**	**20%**	Q-05
Matrix Spike (25K0852-MS1)		Prepared: 11/20/25 14:19		Analyzed: 11/20/25 17:58								**COMP**
QC Source Sample: 2711-251118-COMP A (A5K1621-19)												
EPA 9013M/9012B												
Total Cyanide	4.55	---	0.115	mg/kg dry	1	4.59	0.190	95	76 - 120%	---	---	

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220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0842 - DI Leach							**Soil**					
Duplicate (25K0842-DUP1)		Prepared: 11/20/25 12:39 Analyzed: 11/20/25 14:55										
QC Source Sample: 2711-251118-COMP A (A5K1621-19)												
EPA 9045D												
Soil/Solid pH (measured in H2O)	**7.7**	---		pH Units	1	---	7.6	---	---	0.8	5%	COMP, pH_S
pH Temperature (deg C)	**20.7**	---		pH Units	1	---	20.7	---	---	0	30%	COMP, pH_S
Reference (25K0842-SRM1)		Prepared: 11/20/25 12:39 Analyzed: 11/20/25 14:52										
EPA 9045D												
Soil/Solid pH (measured in H2O)	6.0	---		pH Units	1	6.00		100	98.33 - 101.67%	---	---	
pH Temperature (deg C)	21.0	---		pH Units	1	20.0		105	50 - 200%	---	---	
Reference (25K0842-SRM2)		Prepared: 11/20/25 12:39 Analyzed: 11/20/25 15:04										
EPA 9045D												
Soil/Solid pH (measured in H2O)	8.0	---		pH Units	1	8.00		100	98.875 - 101.125%	---	---	
pH Temperature (deg C)	21.0	---		pH Units	1	20.0		105	50 - 200%	---	---	

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ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0898 - Paint Filter							**Soil**					
Duplicate (25K0898-DUP1)		Prepared: 11/21/25 17:08		Analyzed: 11/21/25 17:13								
QC Source Sample: 2711-251118-COMP A (A5K1621-19)												
EPA 9095B												
Free Liquid	ND	---	0.00	mL	1	---	ND	---	---	---	20%	COMP

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25K0884 - Dry Weight Prep (EPA 8000D)							**Soil**					
Duplicate (25K0884-DUP1)		Prepared: 11/21/25 10:17		Analyzed: 11/22/25 13:02								**COMP**
QC Source Sample: 2711-251118-COMP A (A5K1621-19)												
EPA 8000D												
% Solids	**85.3**	---	1.00	%	1	---	86.2	---	---	1	10%	

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25K0921							
A5K1621-19	Soil	NWTPH-Dx	11/18/25 08:45	11/22/25 07:23	11.49g/5mL	10g/5mL	0.87
A5K1621-20	Soil	NWTPH-Dx	11/18/25 09:05	11/22/25 07:23	11.49g/5mL	10g/5mL	0.87
A5K1621-21	Soil	NWTPH-Dx	11/18/25 10:27	11/22/25 07:23	11.49g/5mL	10g/5mL	0.87
A5K1621-22	Soil	NWTPH-Dx	11/18/25 10:30	11/22/25 07:23	11.4g/5mL	10g/5mL	0.88
A5K1621-23	Soil	NWTPH-Dx	11/18/25 10:10	11/22/25 07:23	11.59g/5mL	10g/5mL	0.86
A5K1621-24RE1	Soil	NWTPH-Dx	11/18/25 10:15	11/22/25 07:23	11.47g/5mL	10g/5mL	0.87

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25K0835							
A5K1621-22	Soil	NWTPH-Gx (MS)	11/18/25 10:30	11/18/25 10:30	14.76g/15mL	5g/5mL	1.02
Batch: 25K0880							
A5K1621-19RE1	Soil	NWTPH-Gx (MS)	11/18/25 08:45	11/18/25 08:45	15.09g/15mL	5g/5mL	0.99
A5K1621-20RE1	Soil	NWTPH-Gx (MS)	11/18/25 09:05	11/18/25 09:05	13.29g/15mL	5g/5mL	1.13
A5K1621-21RE1	Soil	NWTPH-Gx (MS)	11/18/25 10:27	11/18/25 10:27	13.79g/15mL	5g/5mL	1.09
A5K1621-23RE1	Soil	NWTPH-Gx (MS)	11/18/25 10:10	11/18/25 10:10	15.97g/15mL	5g/5mL	0.94
A5K1621-24RE1	Soil	NWTPH-Gx (MS)	11/18/25 10:15	11/18/25 10:15	14.41g/15mL	5g/5mL	1.04

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25K0835							
A5K1621-22	Soil	5035A/8260D	11/18/25 10:30	11/18/25 10:30	14.76g/15mL	5g/5mL	1.02
Batch: 25K0880							
A5K1621-19RE1	Soil	5035A/8260D	11/18/25 08:45	11/18/25 08:45	15.09g/15mL	5g/5mL	0.99
A5K1621-20RE1	Soil	5035A/8260D	11/18/25 09:05	11/18/25 09:05	13.29g/15mL	5g/5mL	1.13
A5K1621-21RE1	Soil	5035A/8260D	11/18/25 10:27	11/18/25 10:27	13.79g/15mL	5g/5mL	1.09
A5K1621-22RE1	Soil	5035A/8260D	11/18/25 10:30	11/18/25 10:30	14.76g/15mL	5g/5mL	1.02
A5K1621-23RE1	Soil	5035A/8260D	11/18/25 10:10	11/18/25 10:10	15.97g/15mL	5g/5mL	0.94
A5K1621-24RE1	Soil	5035A/8260D	11/18/25 10:15	11/18/25 10:15	14.41g/15mL	5g/5mL	1.04

Polychlorinated Biphenyls by EPA 8082A

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Jason Woodcock, Project Manager

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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

NW Natural	Project: LNG Soil	
220 NW Second Ave	Project Number: 2711	Report ID:
Portland, OR 97209	Project Manager: Corey Raspone	A5K1621 - 12 08 25 0933

SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25K1055							
A5K1621-19	Soil	EPA 8082A	11/18/25 08:45	11/26/25 10:13	11.7g/5mL	10g/5mL	0.86
A5K1621-20RE1	Soil	EPA 8082A	11/18/25 09:05	11/26/25 10:13	11.68g/5mL	10g/5mL	0.86
A5K1621-21	Soil	EPA 8082A	11/18/25 10:27	11/26/25 10:13	11.57g/5mL	10g/5mL	0.86
A5K1621-22RE1	Soil	EPA 8082A	11/18/25 10:30	11/26/25 10:13	11.2g/5mL	10g/5mL	0.89
A5K1621-23RE1	Soil	EPA 8082A	11/18/25 10:10	11/26/25 10:13	11.39g/5mL	10g/5mL	0.88
A5K1621-24RE1	Soil	EPA 8082A	11/18/25 10:15	11/26/25 10:13	11.19g/5mL	10g/5mL	0.89

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25K0851							
A5K1621-19	Soil	EPA 8270E	11/18/25 08:45	11/20/25 14:18	15.39g/2mL	15g/2mL	0.98
A5K1621-20	Soil	EPA 8270E	11/18/25 09:05	11/20/25 14:18	15.74g/2mL	15g/2mL	0.95
A5K1621-21	Soil	EPA 8270E	11/18/25 10:27	11/20/25 14:18	15.23g/2mL	15g/2mL	0.99
A5K1621-22	Soil	EPA 8270E	11/18/25 10:30	11/20/25 14:18	15.34g/2mL	15g/2mL	0.98
A5K1621-23	Soil	EPA 8270E	11/18/25 10:10	11/20/25 14:18	15.54g/2mL	15g/2mL	0.97
A5K1621-24	Soil	EPA 8270E	11/18/25 10:15	11/20/25 14:18	15.32g/2mL	15g/2mL	0.98

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Prep: EPA 1311/3510C (BNA Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25K1042							
A5K1621-19RE1	Soil	1311/8270E	11/18/25 08:45	11/26/25 08:01	200mL/2mL	200mL/2mL	1.00
A5K1621-20	Soil	1311/8270E	11/18/25 09:05	11/26/25 08:01	200mL/2mL	200mL/2mL	1.00
A5K1621-21	Soil	1311/8270E	11/18/25 10:27	11/26/25 08:01	200mL/2mL	200mL/2mL	1.00
A5K1621-22	Soil	1311/8270E	11/18/25 10:30	11/26/25 08:01	200mL/2mL	200mL/2mL	1.00
A5K1621-23	Soil	1311/8270E	11/18/25 10:10	11/26/25 08:01	200mL/2mL	200mL/2mL	1.00
A5K1621-24	Soil	1311/8270E	11/18/25 10:15	11/26/25 08:01	200mL/2mL	200mL/2mL	1.00

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25K0974							

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A5K1621-19	Soil	EPA 6020B	11/18/25 08:45	11/25/25 08:00	0.507g/50mL	0.5g/50mL	0.99
A5K1621-20	Soil	EPA 6020B	11/18/25 09:05	11/25/25 08:00	0.46g/50mL	0.5g/50mL	1.09
A5K1621-21	Soil	EPA 6020B	11/18/25 10:27	11/25/25 08:00	0.471g/50mL	0.5g/50mL	1.06
A5K1621-22	Soil	EPA 6020B	11/18/25 10:30	11/25/25 08:00	0.519g/50mL	0.5g/50mL	0.96
A5K1621-23	Soil	EPA 6020B	11/18/25 10:10	11/25/25 08:00	0.48g/50mL	0.5g/50mL	1.04
A5K1621-24	Soil	EPA 6020B	11/18/25 10:15	11/25/25 08:00	0.482g/50mL	0.5g/50mL	1.04

Soluble Cyanide by Flow Analysis (Non-Aqueous/Water Leach)

Prep: EPA 9013M(Leach)/MicroDist

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25K0852							
A5K1621-19	Soil	EPA 9013M/9012B	11/18/25 08:45	11/20/25 14:19	2.5317g/50mL	2.5g/50mL	0.99
A5K1621-20	Soil	EPA 9013M/9012B	11/18/25 09:05	11/20/25 14:19	2.5739g/50mL	2.5g/50mL	0.97
A5K1621-21	Soil	EPA 9013M/9012B	11/18/25 10:27	11/20/25 14:19	2.5363g/50mL	2.5g/50mL	0.99
A5K1621-22	Soil	EPA 9013M/9012B	11/18/25 10:30	11/20/25 14:19	2.5525g/50mL	2.5g/50mL	0.98
A5K1621-23	Soil	EPA 9013M/9012B	11/18/25 10:10	11/20/25 14:19	2.5595g/50mL	2.5g/50mL	0.98
A5K1621-24	Soil	EPA 9013M/9012B	11/18/25 10:15	11/20/25 14:19	2.5002g/50mL	2.5g/50mL	1.00

Conventional Chemistry Parameters

Prep: DI Leach

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25K0842							
A5K1621-19	Soil	EPA 9045D	11/18/25 08:45	11/20/25 12:39	20.0199g/20mL	20g/20mL	NA
A5K1621-20	Soil	EPA 9045D	11/18/25 09:05	11/20/25 12:39	20.0061g/20mL	20g/20mL	NA
A5K1621-21	Soil	EPA 9045D	11/18/25 10:27	11/20/25 12:39	20.0239g/20mL	20g/20mL	NA
A5K1621-22	Soil	EPA 9045D	11/18/25 10:30	11/20/25 12:39	20.0447g/20mL	20g/20mL	NA
A5K1621-23	Soil	EPA 9045D	11/18/25 10:10	11/20/25 12:39	20.0279g/20mL	20g/20mL	NA
A5K1621-24	Soil	EPA 9045D	11/18/25 10:15	11/20/25 12:39	20.0367g/20mL	20g/20mL	NA

Prep: Paint Filter

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25K0898							
A5K1621-19	Soil	EPA 9095B	11/18/25 08:45	11/21/25 16:49	100.0399g	100g	1.00
A5K1621-20	Soil	EPA 9095B	11/18/25 09:05	11/21/25 17:10	100.022g	100g	1.00
A5K1621-21	Soil	EPA 9095B	11/18/25 10:27	11/21/25 17:13	100.012g	100g	1.00

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

SAMPLE PREPARATION INFORMATION

Conventional Chemistry Parameters

Prep: Paint Filter

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A5K1621-22	Soil	EPA 9095B	11/18/25 10:30	11/21/25 17:17	100.0455g	100g	1.00
A5K1621-23	Soil	EPA 9095B	11/18/25 10:10	11/21/25 17:21	100.005g	100g	1.00
A5K1621-24	Soil	EPA 9095B	11/18/25 10:15	11/21/25 17:27	100.0316g	100g	1.00

Percent Dry Weight

Prep: Dry Weight Prep (EPA 8000D)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25K0884							
A5K1621-19	Soil	EPA 8000D	11/18/25 08:45	11/21/25 10:17	1g	1g	1.00
A5K1621-20	Soil	EPA 8000D	11/18/25 09:05	11/21/25 10:17	1g	1g	1.00
A5K1621-21	Soil	EPA 8000D	11/18/25 10:27	11/21/25 10:17	1g	1g	1.00
A5K1621-22	Soil	EPA 8000D	11/18/25 10:30	11/21/25 10:17	1g	1g	1.00
A5K1621-23	Soil	EPA 8000D	11/18/25 10:10	11/21/25 10:17	1g	1g	1.00
A5K1621-24	Soil	EPA 8000D	11/18/25 10:15	11/21/25 10:17	1g	1g	1.00

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25K0954							
A5K1621-19	Soil	EPA 1311	11/18/25 08:45	11/24/25 16:10	91.7g/1834g	100g/2000g	NA
A5K1621-20	Soil	EPA 1311	11/18/25 09:05	11/24/25 16:10	99.9g/1993g	100g/2000g	NA
A5K1621-21	Soil	EPA 1311	11/18/25 10:27	11/24/25 16:10	99.9g/1996g	100g/2000g	NA
A5K1621-22	Soil	EPA 1311	11/18/25 10:30	11/24/25 16:10	99.9g/1990g	100g/2000g	NA
A5K1621-23	Soil	EPA 1311	11/18/25 10:10	11/24/25 16:10	100g/1994g	100g/2000g	NA
A5K1621-24	Soil	EPA 1311	11/18/25 10:15	11/24/25 16:10	99.9g/1997g	100g/2000g	NA

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ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

C-07	Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
COMP	Analyzed sample is a composite of discrete samples that was performed in the laboratory.
F-03	The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
F-13	The chromatographic pattern does not resemble the fuel standard used for quantitation
M-02	Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
M-05	Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
pH_S	Method recommends preparation 'as soon as possible'. See Sample Preparation Information section of report for details. Consult regulator or permit manager to determine the usability of data for intended purpose.
Q-01	Spike recovery and/or RPD is outside acceptance limits.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-11	Spike recovery is not applicable due to sample dilution required for high analyte concentration and/or matrix interference.
Q-17	RPD between original and duplicate sample, or spike duplicates, is outside of established control limits.
Q-18	Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
Q-29	Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
Q-39	Results for sample duplicate are higher than the sample results. See duplicate results in QC section of the report.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
Q-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
Q-52	Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
Q-54	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in the associated EPA method by +1%. The results are reported as Estimated Values.
Q-54a	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in the associated EPA method by +14%. The results are reported as Estimated Values.
Q-54c	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in the associated EPA method by +7%. The results are reported as Estimated Values.
Q-54d	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in the associated EPA method by +8%. The results are reported as Estimated Values.
Q-54e	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in the associated EPA method by -1%. The results are reported as Estimated Values.

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Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

Q-55	Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA method 8260, however there is adequate sensitivity to ensure detection at the reporting level.
Q-56	Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260. Samples that are ND (Non-Detect) are not impacted.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
TCLP	This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 25K0954.
TCLPa	Limited sample volume. Leachate was prepared using less than the specified amount of sample per EPA 1311 or 1312. For consistency in leaching, the standard 20x ratio of sample to leachate fluid was maintained. Results may not meet regulatory requirements.

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220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported.

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting and Detection Limits: Default Limits

Default Reporting and Detection Limits are based on 100% dry weight with the minimum dilution for the analysis. Reporting and Detection Limits are raised due to moisture content, additional dilutions required for analysis, matrix interferences and in other cases, as necessary.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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220 NW Second Ave	Project Number: **2711**	**Report ID:**
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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.
'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

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Decanted Samples:

Soils/Sediments:
Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:
Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)
Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight corretion as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

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ANALYTICAL REPORT

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220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Jason Woodcock, Project Manager

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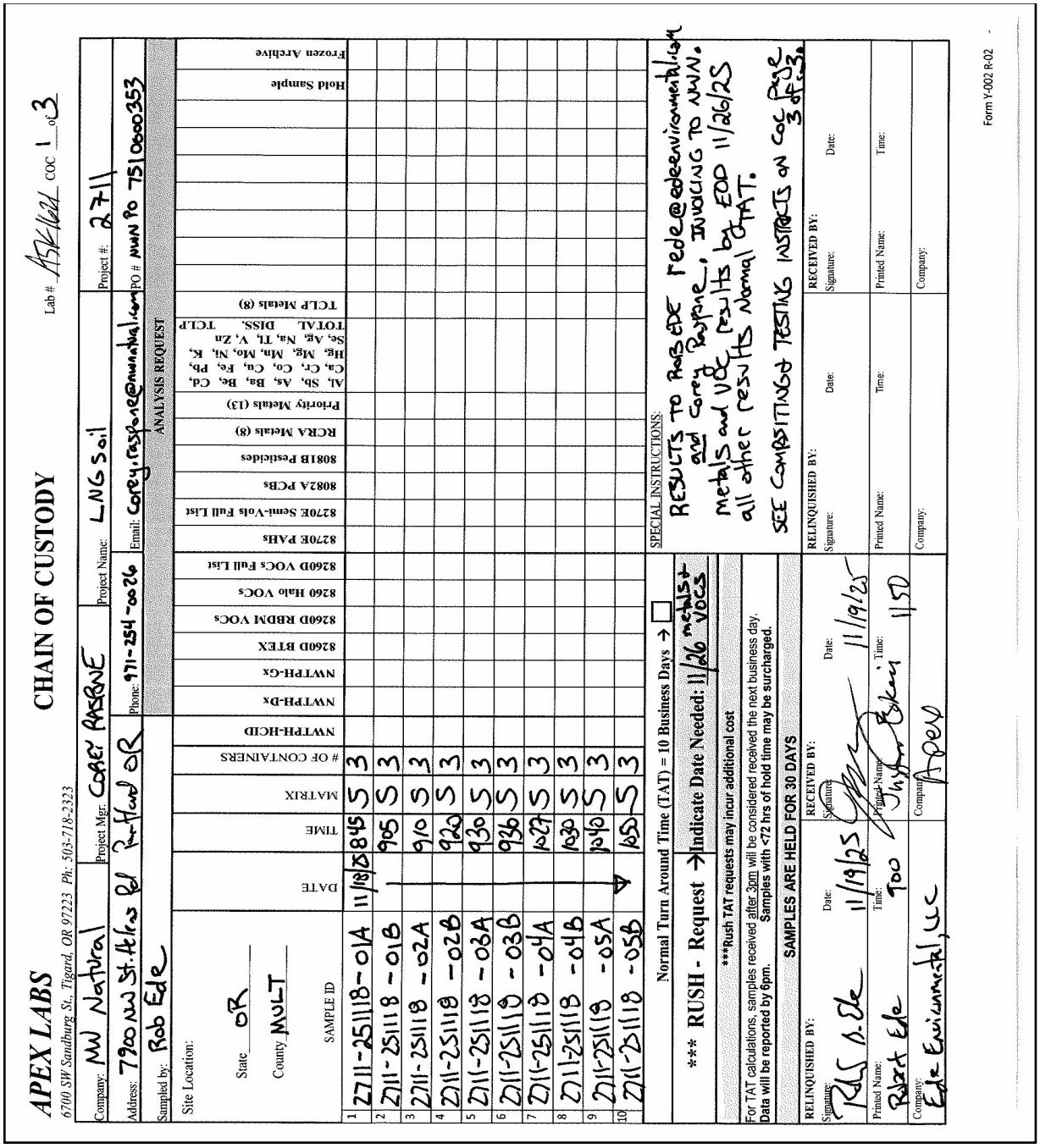
Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**



APEX LABS — CHAIN OF CUSTODY — Lab # ASK1621 COC 1 of 3

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

Company: NW Natural | Project Mgr: COREY RASPONE | Project Name: LNG Soil | Project #: 2711

Address: 7900 NW St. Helens Rd Portland OR | Phone: 971-254-0026 | Email: corey.raspone@nwnatural.com | PO # NWN PO 7510000353

Sampled by: Rob Ede

Site Location: State OR County MULT

	SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260D BTEX	8260D RBDM VOCs	8260 Halo VOCs	8260D VOCs Full List	8270E PAHs	8270E Semi-Vols Full List	8082A PCBs	8081B Pesticides	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	Hold Sample	Frozen Archive
1	2711-251118-01A	11/18	0845	S	3																
2	2711-251118-01B		905	S	3																
3	2711-251118-02A		910	S	3																
4	2711-251118-02B		920	S	3																
5	2711-251118-03A		930	S	3																
6	2711-251118-03B		936	S	3																
7	2711-251118-04A		1027	S	3																
8	2711-251118-04B		1030	S	3																
9	2711-251119-05A		1045	S	3																
10	2711-251118-05B	↓	1055	S	3																

Normal Turn Around Time (TAT) = 10 Business Days → ☐

*** RUSH - Request → Indicate Date Needed: 11/26 metals + VOCs

***Rush TAT requests may incur additional cost

For TAT calculations, samples received after 3pm will be considered received the next business day. Data will be reported by 6pm. Samples with <72 hrs of hold time may be surcharged.

SAMPLES ARE HELD FOR 30 DAYS

SPECIAL INSTRUCTIONS:
RESULTS TO ROB EDE rede@edeenvironmental.com and Corey Raspone, INVOICING TO NWN. metals and VOC results by EOD 11/26/25 all other results Normal TAT.
SEE COMPOSITING TESTING INSTRUCTIONS ON COC PAGE 3 of 3.

	RELINQUISHED BY:	Date:	RECEIVED BY:	Date:	RELINQUISHED BY:	Date:	RECEIVED BY:	Date:
Signature:	[signature]	11/19/25	[signature]	11/19/25	Signature:		Signature:	
Printed Name:	Rob Ede	Time: 700	Jaylen Baker	Time: 1150	Printed Name:	Time:	Printed Name:	Time:
Company:	Ede Environmental, LLC		Apex		Company:		Company:	

Form Y-002 R-02

Apex Laboratories

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Jason Woodcock, Project Manager

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ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

APEX LABS

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Lab # A5K1621 COC 2 of 3

Company: NW Natural | Project Mgr: COREY RASPONE | Project Name: LNG SOIL | Project #: 2711

Address: 7900 NW St. Helens Rd Portland OR | Phone: 971-254-0026 | Email: Corey.raspone@nwnatural.com | PO # NWN PO 7510000353

Sampled by:

Site Location:

State OR

County MULT

ANALYSIS REQUEST

	SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260D BTEX	8260D RBDM VOCs	8260 Halo VOCs	8260D VOCs Full List	8270E PAHs	8270E Semi-Vols Full List	8082A PCBs	8081B Pesticides	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	Hold Sample	Frozen Archive
1	2711-251118-06A	11/18/25	950	S	3																	
2	2711-251118-06B	↓	1000	S	3																	
3	2711-251118-07A		1010	S	3																	
4	2711-251118-07B		1015	S	3																	
5	2711-251118-08A		1200	S	3																	
6	2711-251118-08B		1212	S	3																	
7	2711-251118-09A		1215	S	3																	
8	2711-251118-09B	↓	1225	S	3																	
9																						
10																						

Normal Turn Around Time (TAT) = 10 Business Days → ☐

*** RUSH - Request → Indicate Date Needed: 11/26 metals-VOCs

***Rush TAT requests may incur additional cost

For TAT calculations, samples received after 3pm will be considered received the next business day.
Data will be reported by 6pm. Samples with <72 hrs of hold time may be surcharged.

SAMPLES ARE HELD FOR 30 DAYS

SPECIAL INSTRUCTIONS:
SEE PAGE 1 & 3 of COC.
(TESTING OF 6 LAB PREPARED COMPOSITES AS PER INSTRUCTS)

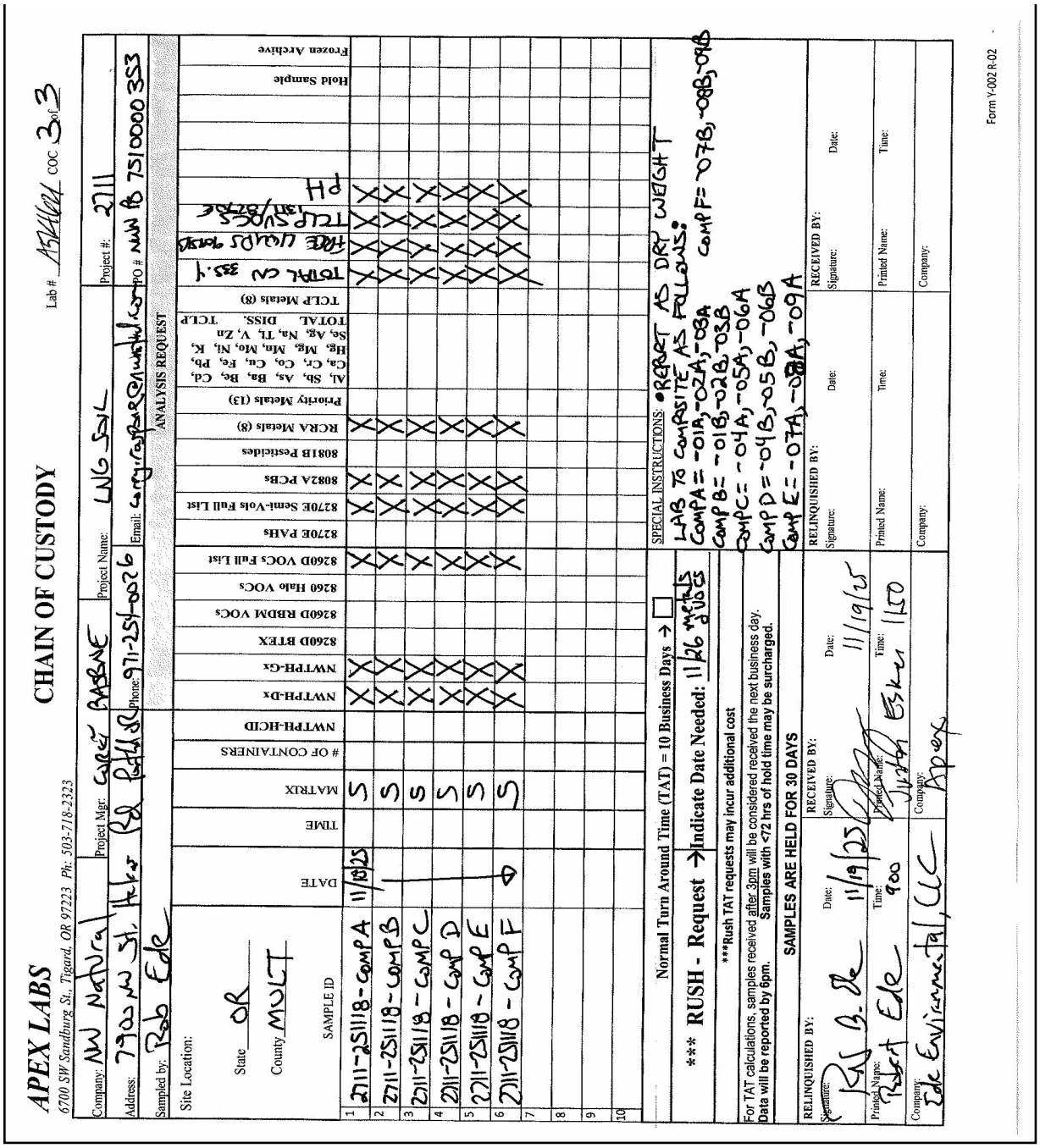
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date: 11/19/25	Signature: [signature] Date: 11/19/25	Signature: Date:	Signature: Date:
Printed Name: Robert Ede Time: 900	Printed Name: Jordan Eskin Time: 1150	Printed Name: Time:	Printed Name: Time:
Company: Ede Environmental, LLC	Company: APEX	Company:	Company:

Form Y-002 R-02

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**



APEX LABS — CHAIN OF CUSTODY — Lab # A5K1621 COC 3 of 3

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

Company: NW Natural | Project Mgr: Corey Raspone | Project Name: LNG Soil | Project #: 2711

Address: 7900 NW St. Helens Rd | Phone: 971-254-0026 | Email: corey.raspone@nwnatural.com | PO # NW PO 7510000353

Sampled by: Rob Ede

Site Location: State OR | County MULT

ANALYSIS REQUEST

#	SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260D BTEX	8260D RBDM VOCs	8260 Halo VOCs	8260D VOCs Full List	8270E PAHs	8270E Semi-Vols Full List	8082A PCBs	8081B Pesticides	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	TOTAL Cn 335.4	TCLP SVOCs 1311/8270E	TCLP VOCs 1311/8260D	pH	Hold Sample	Frozen Archive
1	2711-251118-CompA	11/18/25		S			X	X				X		X	X		X			X	X	X			
2	2711-251118-CompB			S			X	X				X		X	X		X			X	X	X			
3	2711-251118-CompC			S			X	X				X		X	X		X			X	X	X			
4	2711-251118-CompD			S			X	X				X		X	X		X			X	X	X			
5	2711-251118-CompE			S			X	X				X		X	X		X			X	X	X			
6	2711-251118-CompF			S			X	X				X		X	X		X			X	X	X			
7																										
8																										
9																										
10																										

SPECIAL INSTRUCTIONS: •REPORT AS DRY WEIGHT
LAB TO COMPOSITE AS FOLLOWS:
CompA = -01A, -02A, -03A
CompB = -01B, -02B, -03B
CompC = -04A, -05A, -06A
CompD = -04B, -05B, -06B
CompE = -07A, -08A, -09A
CompF = 07B, -08B, -09B

Normal Turn Around Time (TAT) = 10 Business Days → ☐

*** RUSH - Request → Indicate Date Needed: 11/26 metals & VOCs

***Rush TAT requests may incur additional cost

For TAT calculations, samples received after 3pm will be considered received the next business day. Data will be reported by 6pm. Samples with <72 hrs of hold time may be surcharged.

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date: 11/19/25	Date: 11/19/25	Date:	Date:
Time: 900	Time: 1150	Time:	Time:
Printed Name: Robert Ede	Printed Name: Jason Woodcock	Printed Name:	Printed Name:
Company: Ede Environmental, LLC	Company: Apex	Company:	Company:

Form Y-002 R-02

Apex Laboratories

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Jason Woodcock, Project Manager

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ANALYTICAL REPORT

NW Natural	Project: **LNG Soil**	
220 NW Second Ave	Project Number: **2711**	**Report ID:**
Portland, OR 97209	Project Manager: **Corey Raspone**	**A5K1621 - 12 08 25 0933**

APEX LABS COOLER RECEIPT FORM

Client: NW Natural Element WO#: A5 K1621

Project/Project #: LNG Soil / 2711

Delivery Info:

Date/time received: 11/19/25 @ 1150 By: JPE

Delivered by: Apex ✓ Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

From USDA Regulated Origin? Yes ____ No X

Cooler Inspection Date/time inspected: 11/19/25 @ 1317 By: JPE

Chain of Custody included? Yes X No ____

Signed/dated by client? Yes X No ____

Contains USDA Reg. Soils? Yes ____ No X Unsure (email RegSoils) ____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	4.1	5.3					
Custody seals? (Y/N)	N	N					
Received on ice? (Y/N)	Y	Y					
Temp. blanks? (Y/N)	Y	Y					
Ice type: (Gel/Real/Other)	REAL	REAL					
Condition (In/Out):	IN	IN					

Cooler out of temp? (Y/N) Possible reason why: ____

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 11/20/25 @ 0920 By: [illegible]

All samples intact? Yes X No ___ Comments: ____

Bottle labels/COCs agree? Yes ___ No X Comments: 1 on jars read 2711-251118-08A 1008, -08B 1012.

COC/container discrepancies form initiated? Yes ___ No X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments: ____

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments ____

Water samples: pH checked: Yes ___ No ___ NA X pH appropriate? Yes ___ No ___ NA X pH ID: ____

Comments: ____

Labeled by: [illegible] Witness: [illegible] Cooler Inspected by: [illegible]

Form Y-003 R-02

Apex Laboratories

[illegible]

Jason Woodcock, Project Manager

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Based on the preceding analytical testing and screening procedures, it is concluded that the upper 4 feet of soils planned for excavation from the electrical equipment foundation and trenching area (Figures 1 and 2), would be acceptable for disposal as contaminated soil at a RCRA Subtitle D non-hazardous waste disposal facility. The data presented herein will be provided for profiling and acceptance by the intended disposal facility prior to initiation of excavation activities in the proposed foundation area.

Should excavation activities reveal localized areas of soil with field screening evidence of contamination significantly different than those as described herein, then those soils will be segregated at the time of excavation for confirmation of regulatory status prior to disposal.

If you have any questions or comments regarding this report, please do not hesitate to contact me.

Sincerely,

Rob Ede, R.G.
Principal
robe@hahnenv.com

cc: Bob Wyatt, NW Natural
Patty Dost, Pearl Legal Group
Tim Stone, Anchor QEA
Jen Mott, Anchor QEA
Chip Byrd, Sevenson Environmental, Inc.
Wes Thomas, Oregon Department of Environmental Quality

Attachments
Table 1: Analytical Results
Figure1: Foundation Location
Figure 2: Test Pit Locations
Attachment A: Apex Laboratory Report A5K1621