

Transmittal

March 11, 2021

March 11	, 2021				
To:	Jerome B. Cruz	Ref. No.:	112 ⁻	18519	
	Washington State Department of Ecology 3190 – 160 th SE	From: Jeff Gaarder			
	Bellevue, WA 98008	GHD Tel:	707-	-540-9686	
Subject:	Shell Harbor Island Terminal, Seattle, Washington				
No. of Copies	Description/Title			Drawing No./ Document Ref.	Issue
1	Interim Action Report			RPT-1	
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Copy to:	Andrea Wing, Shell Oil Products US, via ShareF Paul Katz, Seattle Terminal Manager (e-copy) Theresa Geijer, Seattle Terminal Environmental (e-copy)		1	м	
Complete	I by: Jeff Gaarder Sig	gned:	-	1 Jaan of	
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Interim Action Report

Shell Harbor Island Terminal 2555, 1835,1711 13th Avenue Southwest Seattle, Washington

PlaNet Site ID MIGUS357032 PlaNet Project ID 86013 Consent Decree No 99-2-07176-OSEA





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1. Introduction

GHD Services Inc. (GHD) prepared this *Interim Action Report* (IAR) on behalf of Shell Pipeline Company LP (Shell) to document the findings of remedial excavation efforts performed following an October 1, 2020 gasoline release at the Harbor Island Terminal in Seattle, Washington (Site). The scope of work was completed in accordance with GHD's October 8, 2020 *Cleanup Action Work Plan* and complies with the Washington State Department of Ecology's (Ecology) Washington Administrative Code (WAC) 173- 340 (Model Toxics Control Act [MTCA]).

This IAR was submitted to Ecology and summarizes the findings of the remedial excavation activities that were completed during October and November 2020. The site description and background, remedial excavation soil sampling results, and conclusions and recommendations are presented below.

2. Site Description and Background

The Shell Harbor Island Terminal is a petroleum distribution facility located on Harbor Island, which is approximately one mile southwest of downtown Seattle at the mouth of the Duwamish River (Figure 1). The site is comprised of three parcels located at 2555 13th Avenue Southwest, 1835 13th Avenue Southwest, and 1711 13th Avenue Southwest. These parcels are designated as the Main Tank Farm, North Tank Farm, and Shoreline Manifold Area, respectively (Figure 2).

This is a MTCA site and compliance monitoring activities are performed under *Consent Decree No.* 99 2-07 176 SEA with Ecology (Ecology, 1998). Three groundwater monitoring and cleanup areas are associated with the three parcels. Groundwater monitoring and cleanup area TX-03A Area, shown on Figure 2, encompasses the North Tank Farm and the northern portion of the Main Tank Farm. The SH-04 Area overlaps the southeastern portion of the Main Tank Farm. The boundaries for the Shoreline Manifold Area parcel and groundwater monitoring and cleanup area are identical.

2.1 Geology and Hydrogeology

Soil underlying the site consists of emplaced grade and dredge fill overlying native estuarine deposits (EMCON and LCI, 1999). The uppermost grade fill unit consists of coarse-grained fill varying in thickness from less than 1 foot to approximately 2 feet thick. The dredge fill unit was created when estuarine deposits near the site were dredged and used as fill. The contact between the dredge fill and native estuarine units is not well defined due to similar properties of the two units. The dredge fill appears to vary from approximately 8 to 20 feet in thickness at the site. It consists of fine- to medium-grained sand with some gravel. Native estuarine deposit underlie the dredge fill at depths of approximately 8 to 20 feet below grade. These deposits are composed of primarily fine- to medium-grained sand with thin silt interbeds.

Groundwater occurs as a thin lens of fresh water overlying brackish water at depth. The groundwater table occurs within the dredge fill 4 to 8 feet below ground surface (ft bgs). Groundwater within the dredge fill unit occurs under unconfined conditions. The North Tank Farm



and Main Tank Farm areas generally are unaffected by tides, whereas the Shoreline Manifold Area groundwater quality and elevations are affected by tides.

The native estuarine deposits are fully saturated, and groundwater within this unit is unconfined. Groundwater quality and groundwater elevations within this unit can be influenced by surrounding surface water bodies and associated tidal fluctuations. This shallow groundwater flows in a radial fashion to the north and to the south from a potentiometric high located within the Main Tank Farm area.

2.2 October 1, 2020 Gasoline Release

On October 1, 2020 at 4:45 am a gasoline release occurred from a failed pump inside the Pump House during tanker truck fueling operations. The Pump House is located south of the Main Tank Farm in the western portion of the property (Figure 2). Areas affected by the release include the Pump House interior, Manifold Pit East, and limited areas outside the Pump House on the ground surface at its northern and southern entryways.

The estimated release volume was 580 gallons, and it appears that most of the fuel was released to secondary containment within the Manifold Pit East (Pit) area located on the eastern side of the Pump House. Between October 1 and 3, US Ecology (formerly NRC) used a vacuum truck to remove all standing fluids from the Pit and then pressure washed the Pit to remove potentially impacted sediments. A total of approximately 9,190 gallons of fuel and water were recovered and of this volume, approximately 387 gallons of gasoline was recovered. The recovered fuel/water/sediment mixture was stored in an on-Ste Baker Tank, sampled, and profiled for proper disposal.

Additionally, US Ecology removed approximately 3 cubic yards of impacted gravel over an area of approximately 880 square feet adjacent to the north and south ends of the Pump House. The impacted gravel was stockpiled and covered with visqueen. GHD then assessed soil conditions below the areas where gravel was removed to determine if shallow soils appeared to contain volatile organic compounds (VOCs). GHD collected several shallow surface soil samples (upper 6 inches) and measured VOCs using a photo-ionization detector (PID). Elevated PID readings exceeding 1,000 parts per million (ppm) were measured in soil on both ends of the Pump House. Based on these findings, GHD recommended further remedial excavation and prepared the October 8, 2020 *Cleanup Action Work Plan* that was submitted to and verbally approved by Ecology. The following sections describe the remedial excavation conducted.

3. Remedial Excavation

3.1 Utilities

Prior to field activities, US Ecology notified the Washington State One Call Utility Notification Service more than 48 hours prior to field activities to clear the remedial excavation areas with public utility companies. GHD also contracted Underground Locating Services (ULS) to conduct a private utility survey to further identify potential subsurface utilities and underground obstructions in the vicinity of the proposed remedial excavation. Numerous active and former utilities were identified on both ends of the Pump House. The ULS report is included as Appendix A.



3.2 Remedial Excavation

During October and November, GHD oversaw remedial excavation activities at the north and south ends of the Pump House. The excavations were advanced by US Ecology of Seattle, Washington. The excavations were cleared for utilities prior to digging. Due to several utility conflicts, the first excavation phase was performed by airknifing using a vacuum truck and by hand digging. Due to several utility conflicts, the first excavation phase was performed by air knifing using a vacuum truck and by hand digging. The second phase was completed using an excavator and hand digging. A photographic log of the excavations is presented in Appendix B.

3.2.1 Phase 1 Excavation

The first phase of the excavation occurred periodically due to inclement weather during the first three weeks of October. On October 8, excavating began on the north and south ends of the Pump House building. Due to elevated gasoline vapor concentrations in soils located on the north end, the excavation was dug predominately by hand with workers in full-face respirators. Additionally, there were several utility conflicts and structural limitations at the building's foundation wall that prevented removing all the impacted soils. The crew excavated approximately 50 percent and 10 percent of impacted soils on the north and south sides of the Pump House, respectively.

On October 9, the remaining 50 percent of the northern excavation was complete (Photographs 1 and 2 in Appendix B), and the final excavation depth was approximately 2 to 3 ft bgs. A total of approximately 20 cubic yards of impacted soil was removed.

Excavating on the south end of the Pump House resumed on October 14 and proceeded through the following day. The excavation was extended to a final depth of approximately 2 ft bgs, and a total of approximately 40 cubic yards of impacted soil was removed (Photographs 3 through 6 in Appendix B).

Soils within the excavation are predominately coarse-grained, loose, fine to medium grained sands and silty sands with varying amounts of silt. Groundwater was not encountered and is estimated to be at depths between 5 and 6 ft bgs based on water levels measured in nearby well MW-105. Impacted soils were stockpiled on the west side of the Pump House and covered with visqueen to prevent rain and wind erosion (Photograph 7 in Appendix B). Additionally, nearby storm drains were protected using best management practices (Photograph 8 in Appendix B). GHD provided excavation progress reports to Jerome Cruz of Ecology by email and/or telephone conversation on October 8 and 12, 2020.

At the end of Phase 1 excavation activities, confirmation soil sampling was performed.

3.2.2 Phase 1 Confirmation Soil Sampling

On October 16, 2020, GHD collected confirmation soil samples at selected depths based on visual observations and field screening utilizing a PID to evaluate whether further remedial excavation was necessary. Soil samples were collected from the north excavation bottom adjacent to the Pump House foundation and between exposed utility lines at depths ranging from approximately 1.5 to 4 ft bgs. Soil samples were collected from the south excavation bottom and sidewalls at depths ranging from approximately 2 to 4 ft bgs. Additionally, composite soil samples were collected from the soil stockpiles for laboratory analysis and profiling purposes.



A total of seven samples were collected from the north excavation and a total of thirteen samples were collected from the south excavation. Sample locations are shown on Figure 3.

Soil samples were collected in place using a Terra Core® soil sampler (EPA Method 5036A). All non-dedicated sampling equipment was decontaminated prior to and between each sample collection. Soil samples were immediately placed on ice and transported to Eurofins TestAmerica Laboratory (TA) located in Tacoma, Washington under chain of custody procedures. The soil samples were analyzed for the following constituents:

- Total petroleum hydrocarbons as gasoline (TPHg) by NWTPH-Gx
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260D

The laboratory analytical report is included in Appendix C.

3.2.3 Northern Excavation Soil Sampling Results

The soil analytical results for TPHg and BTEX are summarized in Table 1, and the TPHg and benzene concentrations are presented on Figure 3. Soil samples collected from the northern excavation contained TPHg concentrations ranging from non-detect (ND) to 19,600 milligrams per kilogram (mg/kg). Benzene concentrations ranged from 0.00816 to 60.5 mg/kg. Toluene concentrations ranged from 0.0284 to 1,160 mg/kg. Ethylbenzene concentrations ranged from ND to 266 mg/kg. Total xylene concentrations ranged from ND to 1,530 mg/kg. The highest TPHg and BTEX concentrations were detected in samples N1 at 3 ft bgs, N2 at 2 ft bgs, and N3 at 4 ft bgs.

The *Draft Cleanup Acton Plan* dated 9/28/98 (Exhibit B of 4/2/99 *Final Consent Decree* 99-2-07176-0 SEA) establishes a TPH cleanup level in subsurface soil (> 6 inches) of 20,000 mg/kg. BTEX cleanup levels in soil were not established. Comparing the soil sample TPHg concentrations to the cleanup level indicates no exceedances.

3.2.4 Southern Excavation Soil Sampling Results

The soil analytical results for TPHg and BTEX are summarized in Table 1, and the TPHg and benzene concentrations are presented on Figure 3. Soil samples collected from the southern excavation contained TPHg concentrations ranging from ND to 69,100 mg/kg. Benzene concentrations ranged from ND to 719 mg/kg. Toluene concentrations ranged from ND to 9,750 mg/kg. Ethylbenzene concentrations ranged from ND to 1,430 mg/kg. Total xylenes concentrations ranged from ND to 9,590 mg/kg. The highest TPHg and BTEX concentrations were detected in sample S7 at 2 ft bgs.

Comparing the soil sample TPHg concentrations to the 20,000 mg/kg cleanup level indicates samples S7 and S10 at 2 ft bgs exceeded the cleanup level.

The confirmation soil sampling results for the northern and southern excavations were emailed to and discussed with Jerome Cruz of Ecology on October 26, 2020. Based on the results, Shell proposed a second phase of excavation in areas S7 and S10 within the southern excavation.

3.2.5 Phase 2 Excavation

On October 28, 2020, the second phase of the excavation was performed at the south end of the Pump House using an excavator. Initially, two areas around sample locations S7 and S10 were



delineated as shown in Photographs 9 and 10 in Appendix B. There were electrical conduits running through the center of the excavation, therefore, impacted soils were removed on both sides of the lines, but not beneath the lines. Impacted soils were removed to a maximum depth of 4 ft bgs, including the removal of soil at previous sample locations S7 and S10. The crew completed the excavation in one day removing an additional total of approximately 25 cubic yards of impacted soil.

3.2.6 Phase 2 Confirmation Soil Sampling

On October 29, 2020, GHD collected confirmation soil samples at selected depths based on visual observations and field screening utilizing a PID. Soil samples were collected from the excavation bottom and sidewalls at depths ranging from approximately 3 to 4 ft bgs. A total of nine samples were collected at the sample locations are shown on Figure 3.

Soil samples were collected in place using a Terra Core® soil sampler (EPA Method 5036A). All non-dedicated sampling equipment was decontaminated prior to and between each sample collection. Soil samples were immediately placed on ice and transported to TA's Tacoma laboratory under chain of custody procedures. The soil samples were analyzed for TPHg and BTEX using the same analytical methods as previously samples. The laboratory analytical report is included in Appendix C.

3.2.7 Phase 2 Soil Sampling Results

The soil analytical results for TPHg and BTEX are presented in Table 1, and the TPHg and benzene concentrations are presented on Figure 3. Soil samples collected from the southern excavation contained TPHg concentrations ranging from ND to 2,020 mg/kg. Benzene concentrations ranged from ND to 29.6 mg/kg. Toluene concentrations ranged from ND to 119 mg/kg. Ethylbenzene concentrations ranged from ND to 0.725 mg/kg. Total xylenes concentrations ranged from ND to 27.6 mg/kg. The highest TPHg and BTEX concentrations were detected in samples S14, S15, and S16 at 4 ft bgs and in samples S21 and S22 at 3 ft bgs.

The soil TPHg concentrations were all below the 20,000 mg/kg TPH cleanup level. The confirmation soil sampling results were emailed to and discussed with Jerome Cruz of Ecology on November 2, 2020.

3.2.8 Excavation Backfill and Site Restoration

At the completion of remedial excavation activities, approximately 55 gallons of Gold Crew®, a microbial formulation used for bioremediation of petroleum hydrocarbons, was applied to the base of both excavations. On November 5, 2020, the excavations were backfilled with a sand fill that US Ecology sourced from Cadman, Inc. located in Everett, Washington. Prior to importing the fill material, analytical testing for TPHg, TPH as diesel, and BTEX was performed by ALS Environmental, located in Everett, Washington. The analytical results confirmed the fill did not contain hydrocarbons. The laboratory analytical report is presented in Appendix C. The excavation backfill was completed in 1-foot lifts and compacted with a Jumping Jack compactor and track rolled. The completed excavation surface was covered with several inches of gravel as shown in Photographs 11 and 12.



3.2.9 Investigation Derived Waste (IDW)

The petroleum hydrocarbon impacted soils were initially stockpiled and then transferred into twelve 20 cubic yard roll-off bins. Between December 7 and December 15, a total of 136.05 tons of impacted soil were transported to Waste Management Inc.'s (WMI) Duwamish Reload Facility in Seattle and then transported by rail to WMI's Columbia Ridge Landfill located in Arlington, Oregon. The impacted soils were used for daily landfill cover and the disposal profile and waste manifests are included in Appendix D.

The recovered gasoline and water generated during cleanup of the fuel release were stored in a 21,000-gallon Baker Tank on Site. On February 17, 18, and 24, 2021, a total of 9,190 gallons of residual waste water, sediment and fuel were transferred to Clean Earth's Tacoma facility for treatment and disposal. The disposal profile approval and waste manifests are included in Appendix D.

4. Conclusions and Recommendations

GHD oversaw a portion of the cleanup following the October 1, 2020 gasoline release at the Shell Harbor Island Fuel Terminal. This included remedial soil excavations at the north and south ends of the Pump House, which resulted in the following:

- The estimated release volume was 580 gallons. A total of approximately 9,190 gallons of fuel and water was recovered, and of this volume, approximately 387 gallons of gasoline was recovered.
- The north excavation area was approximately 360 square feet and advanced to approximate depths of 2 to 3 ft bgs. Approximately 20 cubic yards of soil was removed and confirmation soil samples were below the Consent Decree 20,000 mg/kg TPH cleanup level.
- The south excavation area was approximately 1,065 square feet and advanced to approximate
 depths of 2 to 4 ft bgs. Approximately 65 cubic yards of soil was removed and confirmation soil
 samples were below the Consent Decree 20,000 mg/kg TPH cleanup level.
- A total of 136.05 tons of impacted soil was excavated and hauled offsite for disposal.
- A total of 9,190 gallons of fuel and water were hauled offsite for disposal.
- Prior to backfilling the excavation GHD oversaw the application of Gold Crew® to enhance bioremediation of the remaining residual impacts.

Within the northern excavation, up to 19,600 mg/kg TPHg (N2) and 50.9 mg/kg benzene (N2) remain at a depth of approximately 2 ft bgs, and up to 11,200 mg/kg TPHg (N3) and 60.5 mg/kg benzene (N3) remain at a depth of 4 ft bgs. Within the southern excavation, up to17,700 mg/kg TPHg (S5) and 105 mg/kg benzene (S8) remain at a depth of approximately 2 ft bgs, and up to 9,150 mg/kg TPHg (S1) and 38.1 mg/kg benzene (S1) remain at a depth of approximately 4 ft bgs. Some of the remaining impacts within both excavations were left beneath the exposed utility lines and adjacent to the building foundations to prevent undermining of these structures during soil removal. The depth to groundwater is approximately 5 to 6 ft bgs, and it is unknown whether the release has impacted groundwater.



Based on these results, GHD recommends preparing a work plan for well installations to assess groundwater quality and to determine groundwater flow direction and hydraulic gradient in the vicinity of the Pump House area.

All of Which is Respectfully Submitted,

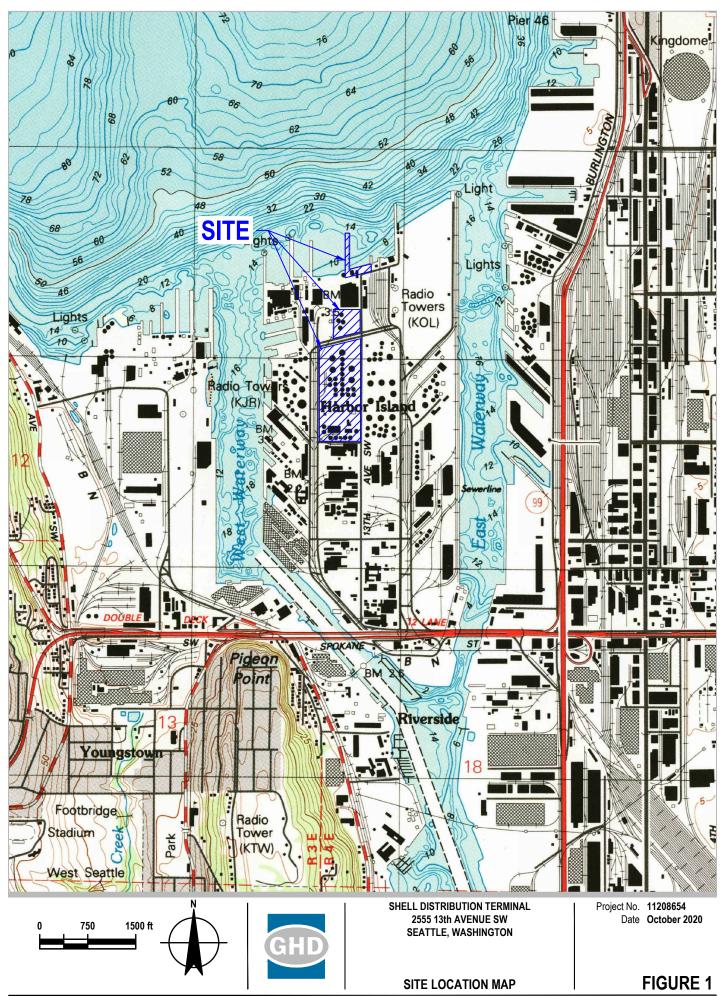
GHD

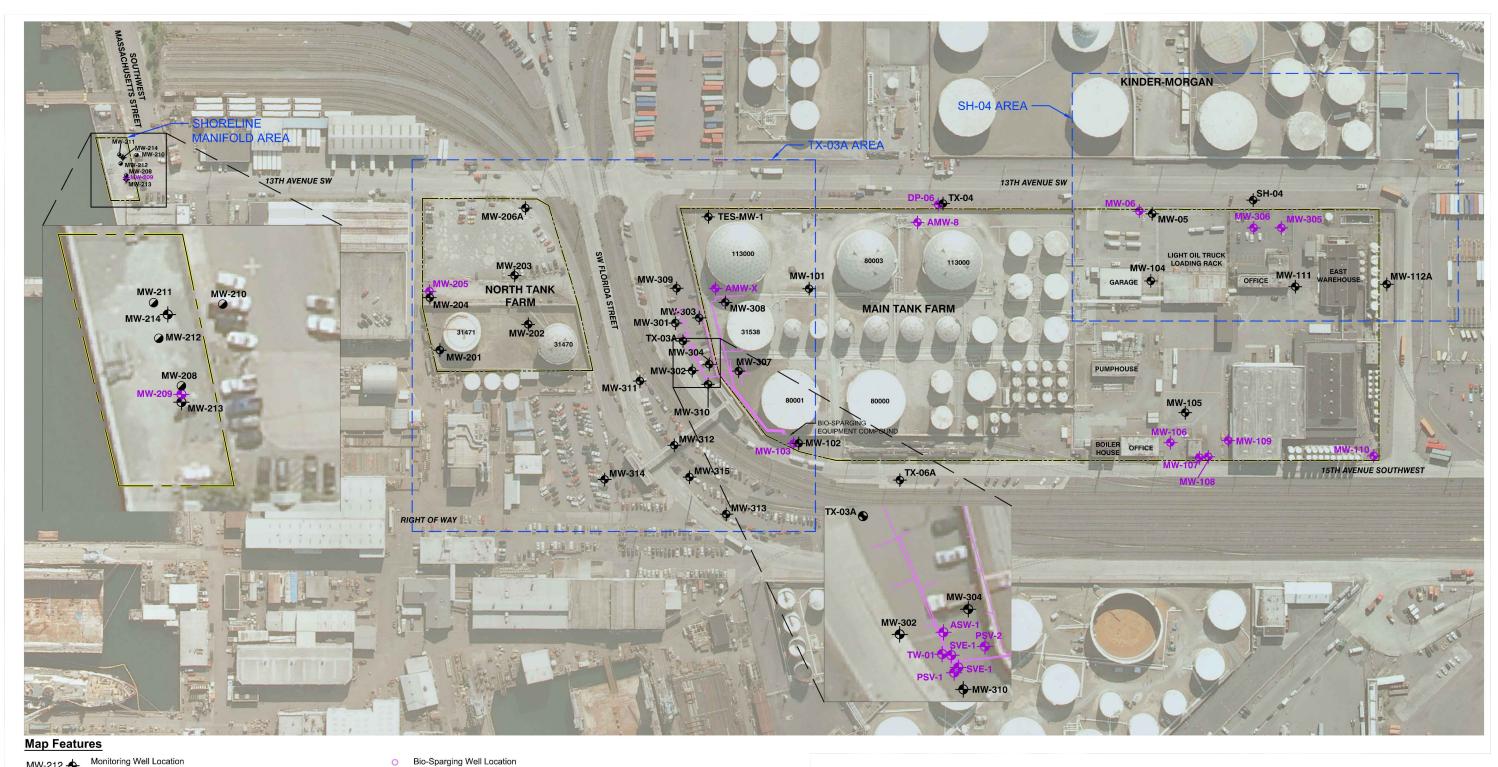
Jacquelyn England, LG

Sed Geo

Jacquelyn England

Figures





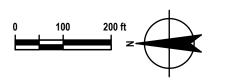
(Included in Current Groundwater Monitoring Program)

MW-210 Product Recovery / Monitoring Well Location Additional Well Location

(Not Included in Current Groundwater Monitoring Program)

MW-103 -

Bio-Sparging Line (System start on May 25, 2017)



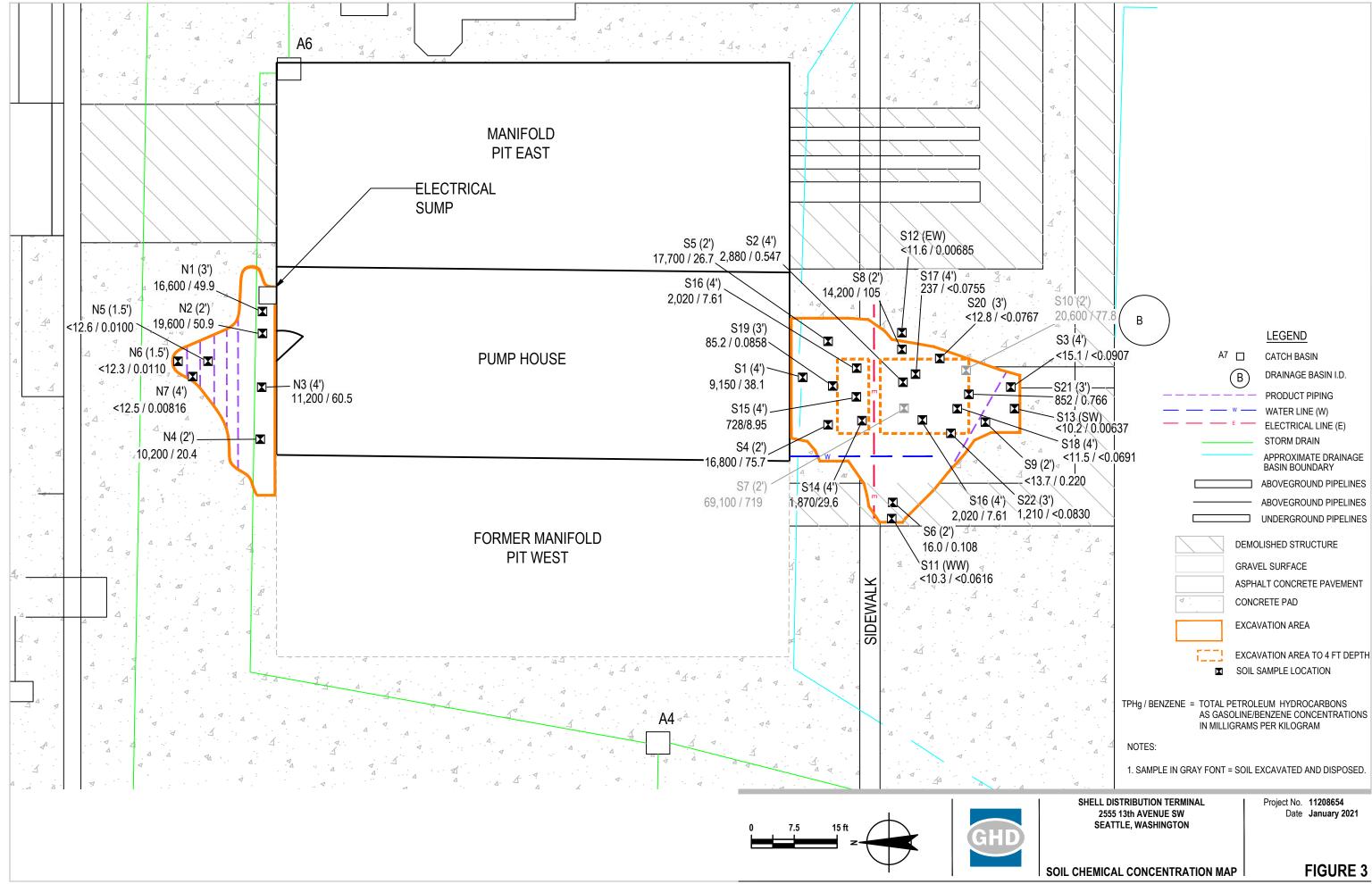


SHELL DISTRIBUTION TERMINAL 2555 13th AVENUE SW SEATTLE, WASHINGTON

Project No. 11208654 Date October 2020

SITE PLAN

FIGURE 2



Tables

Summary of Soil Analytical Data Shell Harbor Island Fuel Terminal 2555 13th Ave Southwest Seattle, Washington

Sample Name	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethylbenzene	Xylene	
	Con	sent Decree Cleanup Level ¹ ft	20,000 (mg/kg)	 (mg/kg)	 (mg/kg)	 (mg/kg)	 (mg/kg)	
S-101620-JRL-N1 (3)	10/16/2020	3	16600	49.9	1020	266	1530	
S-101620-JRL-N2 (2)	10/16/2020	2	19600	50.9	1160	261	1480	
S-101620-JRL-N3 (4)	10/16/2020	4	11200	60.5	890	185	1070	
S-101620-JRL-N4 (2)	10/16/2020	2	10200	20.4	554	162	970	
S-101620-JRL-N5 (2)	10/16/2020	2	<12.6	0.0110	0.0430	<0.00224	0.0126	
S-101620-JRL-N6 (18)	10/16/2020	1.5	<12.3	0.0100	0.0331	<0.00218	<0.0109	
S-101620-JRL-N7 (4)	10/16/2020	4	<12.5	0.00816	0.0284	<0.00216	<0.0108	
S-101620-JRL-S1 (4)	10/16/2020	4	9150	38.1	761	176	1020	
S-101620-JRL-S2 (4)	10/16/2020	4	2880	0.547	0.783	0.229	0.981	
S-101620-JRL-S3 (4)	10/16/2020	4	<15.1	<0.0907	<0.454	<0.121	<0.605	
S-101620-JRL-S4 (2)	10/16/2020	2	16800	75.7	1250	278	1600	
S-101620-JRL-S5 (2)	10/16/2020	2	17700	26.7	1070	297	1690	
S-101620-JRL-S6 (2)	10/16/2020	2	16.0	0.108	0.544	<0.101	0.883	
S-101620-JRL-S7 (2)	10/16/2020	2	69100	719	9750	1430	9590	
S-101620-JRL-S8 (2)	10/16/2020	2	14200	105	1350	280	1490	
S-101620-JRL-S9 (2)	10/16/2020	2	<13.7	0.220	1.07	0.114	<0.547	
S-101620-JRL-S10 (2)	10/16/2020	2	20600	77.8	1650	386	2200	
S-101620-JRL-S11 (WW) ²	10/16/2020		<10.3	<0.0616	<0.308	<0.0821	<0.410	
S-101620-JRL-S12 (EW) ²	10/16/2020	-	<11.6	0.00685	0.0324	<0.00203	<0.0102	
S-101620-JRL-S13 (SW) ²	10/16/2020		<10.2	0.00637	0.0302	0.00189	<0.00928	
S-102820-JRL-S14 (4)	10/28/2020	4	1870	29.6	119	<1.18	<5.88	
S-102820-JRL-S15 (4)	10/28/2020	4	728	8.95	70.2	0.725	2.90	

Table 1 Page 2 of 2

Summary of Soil Analytical Data Shell Harbor Island Fuel Terminal 2555 13th Ave Southwest Seattle, Washington

Sample Name	Sample Date Cons	Sample Depth sent Decree Cleanup Level ¹ ft	TPHg 20,000 <i>(mg/kg)</i>	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)
S-102820-JRL-S16 (4)	10/28/2020	4	2020	7.61	13.4	<1.23	<6.15
S-102820-JRL-S17 (4)	10/28/2020	4	237	<0.0755	0.384	0.00553	<0.0119
S-102820-JRL-S18 (4)	10/28/2020	4	<11.5	<0.0691	<0.345	<0.0921	<0.460
S-102820-JRL-S19 (3) ³	10/28/2020	3	85.2	0.0858	14.5	0.0331	0.122
S-102820-JRL-S20 (3) ³	10/28/2020	3	<12.8	<0.0767	<0.384	<0.102	<0.511
S-102820-JRL-S21 (3) ³	10/28/2020	3	852	0.766	14.5	0.0484	27.6
S-102820-JRL-S22 (3) ³	10/28/2020	3	1210	<0.083	<0.415	<0.111	<0.553

Notes/Abbreviations

TPHg = Total petroleum hydrocarbons as gasoline range organics analyzed by NWTPH-Gx

BTEX = Benzene, toluene, ethylbenzene, xylenes analyzed by EPA Method 8260B

mg/kg = milligrams per kilogram

Concentrations in bold indicate the concentration value exceeded the MTCA Method A cleanup level

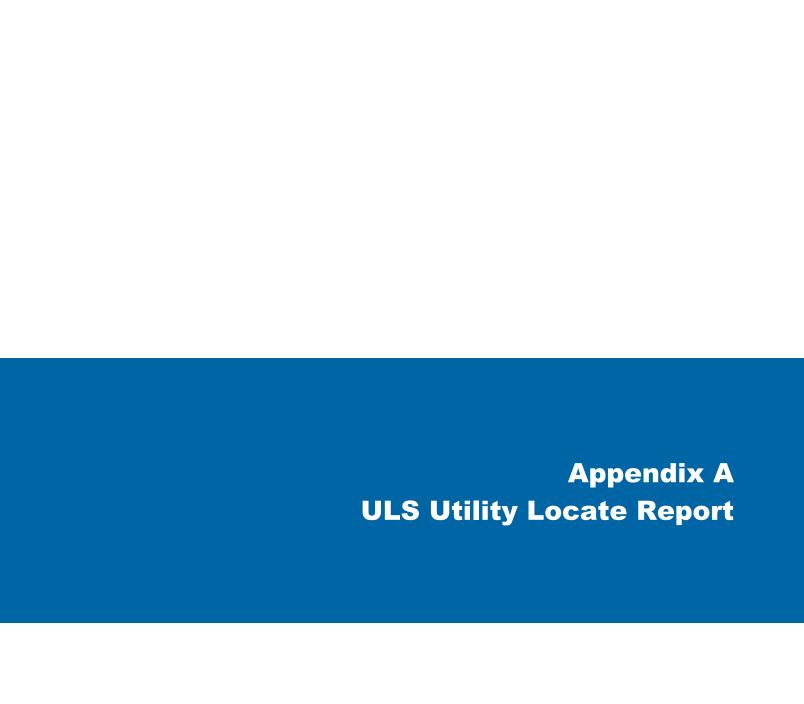
Samples S7 (2') and S10 (2') TPHg concentrations in gray font exceeded the TPH cleanup level and as a result these areas were overexcavated

- 2. Samples designated as WW, EW, SW were collected at depths between 18 inches and 2 feet from the excavation sidewalls.
- 3. Samples S19, S20, S21, and S22 were collected from the north, east, south, and west sidewalls, respectively.

<x = Not detected above reporting limit x</p>

^{1.} Draft Cleanup Acton Plan dated 9/28/98 (Exhibit B of 4/2/99 Final Consent Decreee 99-2-07176-0 SEA) establishes a TPH cleanup level in subsurface soil (> 6 inches) of 20,000 mg/kg. BTEX cleanup levels were not established.







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SOCAL 619 562 0972







LABOR HOURS W/REPORT/

33 YEARS IN BUSINESS

Work Order Agreement

PROJECT / LOCATION SHELL TERMINAL SEATTLE , WA	Date 7 OCT 20 0900-1215 (3.25) Report 1.	
CLIENT	GHD INC.	l

HRS 4.25 WORK REQUESTED: UTILITY LOCATE-PRESCREENING AT TWO ZONES ON NORTH AND SOUND END

OF PUMP HOUSE. GENERATE REPORT.

WORK PERFORMED	PRELIMINARY REVIEW OF CLIENT PROVIDED UTILITY DRAWINGS. NONE			
VISUAL SITE INSPECTION (MANHOLES, DRAINS): SURFACE ONLY	EMPCL CONDUCTIVE UTILITY SURVEY: CHECK GAS: X ELECTRIC: X COMM.: X WATER: X			
EMIMD METAL DETECTION SURVEY: EM AND MAG (LOW AMBIENT NOISE – HI SETTING = 7.5) GOOD	EM INSERTION: NF			
GPR NON-CONDUCTIVE SURVEY: FAIR-GOOD RESPONSE. (POOR OVER SOME UTILITIES PIPING).	CLIENT ON-SITE REVIEW OF FINDINGS: YES			

GENERAL LIMITATIONS

NOTE: The work described herein is performed to industry standards (or higher) using multiple methodology and QA/QC protocol. ULS cannot guarantee the accuracy or the ability to detect all underground facilities and potential interferences. Nonconductive or conductive utilities/facilities may not be detected due to variables and constraints beyond ULS control. Where known, constraints and limitations will be brought to the client's attention. Excavation work may result in injury to persons and/or damage to facilities. Client and/or excavator are advised to take all steps necessary to avoid contact with underground facilities. This includes, but is not limited to, safe digging practices, hand tooling in congested areas and within two feet on either side of marked utilities (distance may vary by law), utility drawing review, site facilities representative review, and "one-call" utilities notification. ULS and its representatives are not responsible for injury to persons or damage to facilities. This document and accompanying pages will be delivered to the client before commencement of intrusive work for the client's review. If any questions arise, please notify our office immediately.

NOTE: Specific comments/limitations/constraints, known and recognized will be recorded on attached pages (field notes). Caution – some facilities (conductive or non- conductive) may not be detected. Not all limitations and constraints may be recognized.

SIGNATURE OF ULS REPRESENTATIVE ON-SITE	PAGE	OF
M BENEDICT	1	

ULS SERVICES CORPORATION



.....

GEOMARKOUT

a trade name of ULS Services Corp

SHELL OIL TERMINAL SEATTLE PUMPHOUSE

METHODS AND GENERAL OBSERVATIONS:

- ■COMPLETED HS MEETING AT FACILITY AND BEGAN MARKOUT WORK. MADE GENERAL SITE WALK TO REVIEW SURVEY AREAS. SITE IS MOSTLY GRAVEL AND SOIL. .
- ■CHECKED FOR VALVES, METERS, AND CONDUITS, PIPING, TRENCHING SEAMS (SURFACE SCARS), VAULTS, AND USTS, OBSERVED EXISTING ONE CALL MARKOUTS. CHECKED AROUND CANOPY AND RACKS FOR UST, LINE AND VENT LAYOUT.

UTILIZED

- 1) EM PIPE AND CABLE LOCATOR
 (USING AMBIENT, GROUND INDUCTION AND CONNNECTION MODE SWEEPS)
- 2) EM INDUCTION METAL DETECTOR
 (EMPCL TRANSMITTER BROADCAST AND EM INDUCTION BOTH HAVE GOOD SIGNAL)
- 3) **GPR** FAIR RESPONCE

SPECIFIC OBSERVATIONS AND COMMENTS OR CONCERNS:

SEE OBSERVATION COMMENTS TO RIGHT SIDE, ABOVE , BELOW AND PHOTOS BELOW.

Х	VISUALS YES
Х	ONECALL /DIG ALERT NEED TO CALL ?
Х	ELECTRIC NUMEROUS PANELS
	TELEPHONE UNKNOWN
X	NAT GAS ******* NO METER ON SITE IN AREA. ALWAYS VERIFY WITH 811.
X	DOMESTIC AND OR FIRE WATER METER CAUTION WATER AND FIRE HYDRANT IN AREA HOWEVER NO RESPONSE OR DETECTION WITH EM OR GPR.
X	SEWER/STORM SEWER STORM DRAIN INLETS OBSERVED DO NOT APPEAR TO TREND INTO DIG ZONE.

GEOMARKOUT

a trade name of ULS Services Corp

SHELL TERMINAL PUMP HOUSE

SPECIFIC OBSERVATIONS AND NOTES:

⚠ SPECIAL NOTES CAUTION **⚠**:

NUMEROUS ELECTRICAL CONDUITS IN AREA.

WATER NOT FOUND OR CONFIRMED.

USE SAFE DIG PRACTICE AT THIS SITE.

PROCEEED WITH CAUTION AND CARE AT THIS SITE.
END TEXT REPORT. PHOTOS BELOW.
THANK YOU
mwb 206 384-2857 m.geomarkout.com www.geomarkout.com









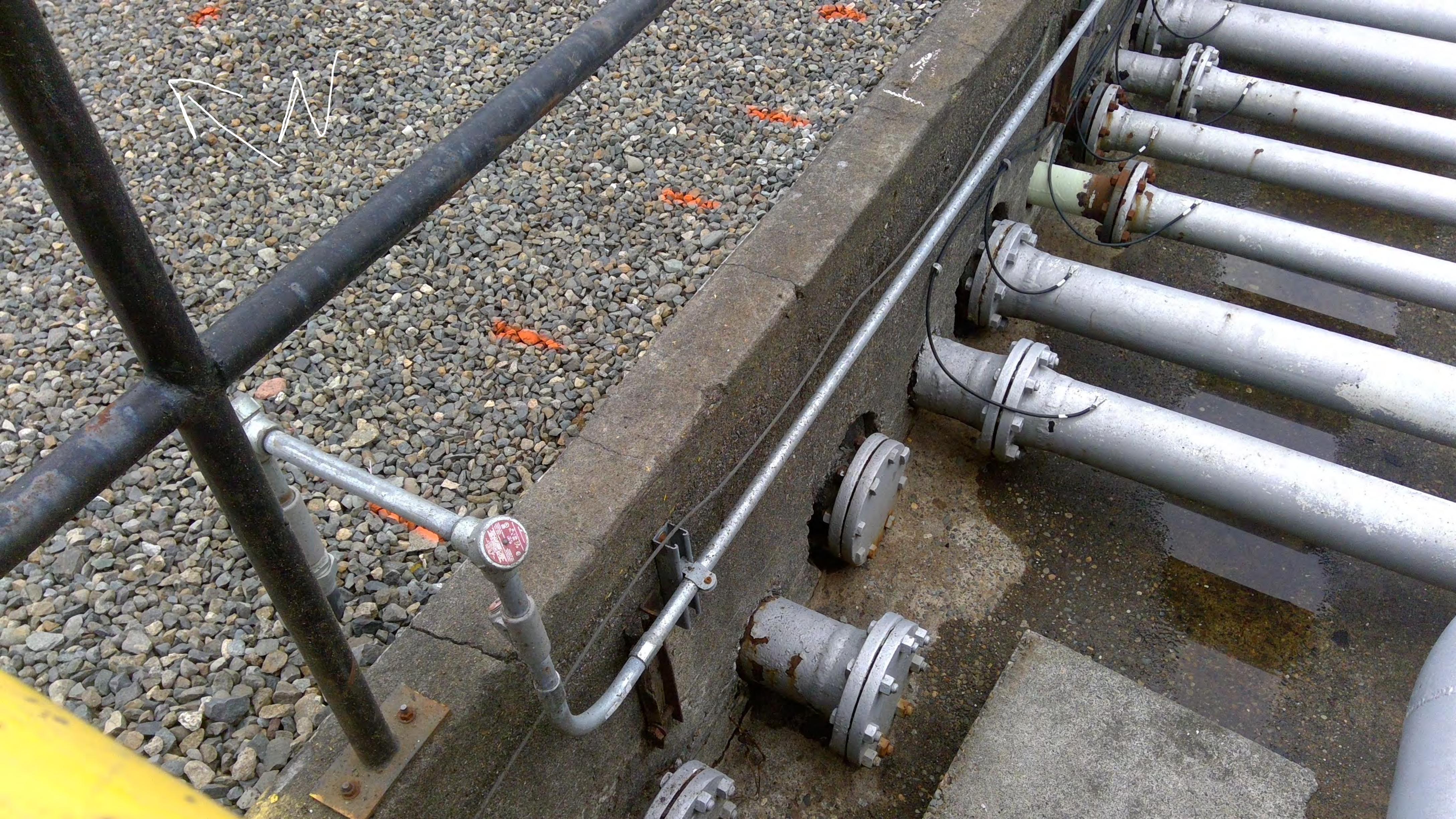












































Appendix B Excavation Photographs

Photo 1: North Side of Pump House Shallow Soil Excavation, October 8, 2020. View Southeast





Photo 2: North Side of Pump House Shallow Soil Excavation, October 9, 2020. View East.







Photos 3 and 4: South Side of Pump House, October 8 and 9, 2020. View North.







Photos 5 and 6: South Side of Pump House, October 8 and 9, 2020. View Northwest.





Photo 7 Impacted Soil Stockpile, October 15, 2020. View Northwest



Photo 8 Storm Drain Protection, October 15, 2020. View Southwest.







Photos 9 and 10 Phase 2 Excavation South Side of Pump House. View Northwest





Photo 11 North Side of Pump House Completed Excavation, November 5, 2020. View Fast



Photo 12 South Side of Pump House Completed Excavation, November 5, 2020. View North.







ANALYTICAL REPORT

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-98313-1

Laboratory Sample Delivery Group: Products Release Client Project/Site: Shell Harbor Island Fuel Terminal

For:

GHD Services Inc. 20818 44th Ave W Suite 190 Lynnwood, Washington 98036

Attn: Jeff Gaarder

Roxanne Cisneros

Authorized for release by: 10/22/2020 9:09:08 AM

Roxanne Cisneros, Senior Project Manager (615)301-5761

roxanne.cisneros@Eurofinset.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at: www.eurofinsus.com/Env This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Laboratory Job ID: 580-98313-1 SDG: Products Release

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Case Narrative

Client: GHD Services Inc.

Project/Site: Shell Harbor Island Fuel Terminal SDG: Products Release

Job ID: 580-98313-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative 580-98313-1

Comments

No additional comments.

Receipt

The samples were received on 10/16/2020 2:20 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 9.1° C and 14.5° C.

Receipt Exceptions

All of the tared methanol vials and the tared stirbar vials for all samples in this job have had additional labels added by the client. S-101620-JRL-N1 (3') (580-98313-1), S-101620-JRL-N2 (2') (580-98313-2), S-101620-JRL-N3 (4') (580-98313-3), S-101620-JRL-N4 (2') (580-98313-4), S-101620-JRL-N5 (2') (580-98313-5), S-101620-JRL-N6 (18") (580-98313-6), S-101620-JRL-N7 (4') (580-98313-7), S-101620-JRL-S1 (4') (580-98313-8), S-101620-JRL-S2 (4') (580-98313-9), S-101620-JRL-S3 (4') (580-98313-10), S-101620-JRL-S4 (2') (580-98313-11), S-101620-JRL-S5 (2') (580-98313-12), S-101620-JRL-S6 (2') (580-98313-13), S-101620-JRL-S7 (2') (580-98313-14), S-101620-JRL-S8 (2') (580-98313-15), S-101620-JRL-S9 (2') (580-98313-16), S-101620-JRL-S10 (2') (580-98313-17), S-101620-JRL-S11 (WW) (580-98313-18), S-101620-JRL-S12 (EW) (580-98313-19), S-101620-JRL-S13 (SW) (580-98313-20) and S-101620-JRL-Stockpile (580-98313-21)

GC/MS VOA

Method 8260D: The following samples were analyzed at reduced volume due to high concentrations of target analytes: S-101620-JRL-N1 (3') (580-98313-1), S-101620-JRL-N2 (2') (580-98313-2), S-101620-JRL-N3 (4') (580-98313-3), S-101620-JRL-N4 (2') (580-98313-4), S-101620-JRL-N5 (2') (580-98313-5), S-101620-JRL-N6 (18") (580-98313-6), S-101620-JRL-N7 (4') (580-98313-7), S-101620-JRL-S1 (4') (580-98313-8), S-101620-JRL-S2 (4') (580-98313-9), S-101620-JRL-S3 (4') (580-98313-10), S-101620-JRL-S4 (2') (580-98313-11), S-101620-JRL-S5 (2') (580-98313-12), S-101620-JRL-S6 (2') (580-98313-13), S-101620-JRL-S7 (2') (580-98313-14), S-101620-JRL-S8 (2') (580-98313-15), S-101620-JRL-S9 (2') (580-98313-16), S-101620-JRL-S10 (2') (580-98313-17), S-101620-JRL-S11 (WW) (580-98313-18), S-101620-JRL-S12 (EW) (580-98313-19) and S-101620-JRL-S13 (SW) (580-98313-20). The calculation was performed using an initial volume adjustment rather than a dilution factor. The reporting limits have been elevated by the appropriate factor.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method NWTPH-Gx: The following samples were analyzed at reduced volume due to high concentrations of target analytes: S-101620-JRL-N1 (3') (580-98313-1), S-101620-JRL-N2 (2') (580-98313-2), S-101620-JRL-N3 (4') (580-98313-3), S-101620-JRL-N4 (2') (580-98313-4), S-101620-JRL-S1 (4') (580-98313-8), S-101620-JRL-S2 (4') (580-98313-9), S-101620-JRL-S4 (2') (580-98313-11), S-101620-JRL-S5 (2') (580-98313-12), S-101620-JRL-S7 (2') (580-98313-14), S-101620-JRL-S8 (2') (580-98313-15) and S-101620-JRL-S10 (2') (580-98313-17). The calculation was performed using an initial volume adjustment rather than a dilution factor. The reporting limits have been elevated by the appropriate factor.

Method NWTPH-Gx: The following samples were diluted to bring the concentration of target analytes within the calibration range: S-101620-JRL-N1 (3') (580-98313-1), S-101620-JRL-N2 (2') (580-98313-2), S-101620-JRL-N3 (4') (580-98313-3), S-101620-JRL-N4 (2') (580-98313-4), S-101620-JRL-S1 (4') (580-98313-8), S-101620-JRL-S2 (4') (580-98313-9), S-101620-JRL-S4 (2') (580-98313-11) and S-101620-JRL-S5 (2') (580-98313-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

Method 5035: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: S-101620-JRL-N1 (3') (580-98313-1), S-101620-JRL-N2 (2') (580-98313-2), S-101620-JRL-N3 (4') (580-98313-3), S-101620-JRL-N4 (2') (580-98313-4), S-101620-JRL-N5 (2') (580-98313-5), S-101620-JRL-N6 (18") (580-98313-6), S-101620-JRL-N7 (4') (580-98313-7), S-101620-JRL-S1 (4') (580-98313-8), S-101620-JRL-S2 (4') (580-98313-9), S-101620-JRL-S3 (4') (580-98313-10),

3

Job ID: 580-98313-1

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4.6

Case Narrative

Client: GHD Services Inc.

Job ID: 580-98313-1 Project/Site: Shell Harbor Island Fuel Terminal SDG: Products Release

Job ID: 580-98313-1 (Continued)

Laboratory: Eurofins TestAmerica, Seattle (Continued)

S-101620-JRL-S4 (2') (580-98313-11), S-101620-JRL-S5 (2') (580-98313-12), S-101620-JRL-S6 (2') (580-98313-13), S-101620-JRL-S7 (2') (580-98313-14), S-101620-JRL-S8 (2') (580-98313-15), S-101620-JRL-S9 (2') (580-98313-16), S-101620-JRL-S10 (2') (580-98313-17), S-101620-JRL-S11 (WW) (580-98313-18), S-101620-JRL-S12 (EW) (580-98313-19) and S-101620-JRL-S13 (SW) (580-98313-20). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 10g. The amount provided was below this range.

Method 5035: The following sample was provided to the laboratory with a significantly different initial weight than that required by the reference method: S-101620-JRL-S6 (2') (580-98313-13). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 5g. The amount provided was above this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: GHD Services Inc.

Job ID: 580-98313-1 Project/Site: Shell Harbor Island Fuel Terminal SDG: Products Release

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** 0C

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Client: GHD Services Inc. Project/Site: Shell Harbor Island Fuel Terminal

12.1

Percent Moisture

SDG: Products Release Client Sample ID: S-101620-JRL-N1 (3') Lab Sample ID: 580-98313-1

Matrix: Solid

Job ID: 580-98313-1

Date Collected: 10/16/20 08: Date Received: 10/16/20 14:2	55	(0)				Matrix: S Percent Solids:					
Method: 8260D - Volatile O Analyte	•	unds by G Qualifier	C/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	49.9		8.24		mg/Kg	— <u></u>	10/20/20 10:00	10/20/20 19:10			
Toluene	1020		41.2		mg/Kg	₩	10/20/20 10:00	10/20/20 19:10	•		
Ethylbenzene	266		11.0		mg/Kg	₩	10/20/20 10:00	10/20/20 19:10	•		
m-Xylene & p-Xylene	1100		54.9		mg/Kg	₩	10/20/20 10:00	10/20/20 19:10	· · · · · · · · · ·		
o-Xylene	432		16.5		mg/Kg	₩	10/20/20 10:00	10/20/20 19:10	•		
Xylenes, Total	1530		54.9		mg/Kg	₽	10/20/20 10:00	10/20/20 19:10	•		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa		
Toluene-d8 (Surr)	103		80 - 120				10/20/20 10:00	10/20/20 19:10			
4-Bromofluorobenzene (Surr)	99		80 - 120				10/20/20 10:00	10/20/20 19:10			
Dibromofluoromethane (Surr)	102		80 - 120				10/20/20 10:00	10/20/20 19:10			
1,2-Dichloroethane-d4 (Surr)	94		80 - 121				10/20/20 10:00	10/20/20 19:10			
- Method: NWTPH-Gx - Norti	hwest - Volatile	e Petroleui	m Products (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics - NWTPH-G	16600		137		mg/Kg	*	10/17/20 15:13	10/18/20 04:52	1		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa		
4-Bromofluorobenzene (Surr)	121		50 - 150				10/17/20 15:13	10/18/20 04:52	1		
General Chemistry											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Percent Solids	87.9		0.1		%			10/20/20 14:07	1		

0.1

10/22/2020

10/20/20 14:07

Client: GHD Services Inc.

Job ID: 580-98313-1 Project/Site: Shell Harbor Island Fuel Terminal SDG: Products Release

Client Sample ID: S-101620-JRL-N2 (2')

Lab Sample ID: 580-98313-2 Date Collected: 10/16/20 09:10

Matrix: Solid

Date Received: 10/16/20 14:2	20							Percent Solid	s: 89.6
Method: 8260D - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	50.9		8.10		mg/Kg	<u></u>	10/20/20 10:00	10/20/20 19:34	1
Toluene	1160		40.5		mg/Kg	≎	10/20/20 10:00	10/20/20 19:34	1
Ethylbenzene	261		10.8		mg/Kg	₩	10/20/20 10:00	10/20/20 19:34	1
m-Xylene & p-Xylene	1070		54.0		mg/Kg	₽	10/20/20 10:00	10/20/20 19:34	1
o-Xylene	409		16.2		mg/Kg	≎	10/20/20 10:00	10/20/20 19:34	1
Xylenes, Total	1480		54.0		mg/Kg	≎	10/20/20 10:00	10/20/20 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120				10/20/20 10:00	10/20/20 19:34	1
4-Bromofluorobenzene (Surr)	98		80 - 120				10/20/20 10:00	10/20/20 19:34	1
Dibromofluoromethane (Surr)	101		80 - 120				10/20/20 10:00	10/20/20 19:34	1
1,2-Dichloroethane-d4 (Surr)	96		80 - 121				10/20/20 10:00	10/20/20 19:34	1
Method: NWTPH-Gx - North	nwest - Volatile	e Petroleui	m Products (0	GC)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	19600		135		mg/Kg	*	10/17/20 15:13	10/18/20 05:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		50 - 150				10/17/20 15:13	10/18/20 05:16	1

General Chemistry									
Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.6		0.1		%			10/20/20 14:07	1
Percent Moisture	10.4		0.1		%			10/20/20 14:07	1

10/22/2020

Client: GHD Services Inc.

Date Collected: 10/16/20 09:20

Project/Site: Shell Harbor Island Fuel Terminal

Client Sample ID: S-101620-JRL-N3 (4')

SDG: Products Release

Lab Sample ID: 580-98313-3

Matrix: Solid Percent Solids: 93.5

Job ID: 580-98313-1

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Method: 8260D - Volatile O	rganic Compoເ	ınds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	60.5		8.03		mg/Kg	— <u></u>	10/20/20 10:00	10/20/20 19:59	1
Toluene	890		40.2		mg/Kg	₩	10/20/20 10:00	10/20/20 19:59	1
Ethylbenzene	185		10.7		mg/Kg	₩	10/20/20 10:00	10/20/20 19:59	1
m-Xylene & p-Xylene	771		53.5		mg/Kg	₩	10/20/20 10:00	10/20/20 19:59	1
o-Xylene	295		16.1		mg/Kg	₩	10/20/20 10:00	10/20/20 19:59	1
Xylenes, Total	1070		53.5		mg/Kg	₩	10/20/20 10:00	10/20/20 19:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120				10/20/20 10:00	10/20/20 19:59	1
4-Bromofluorobenzene (Surr)	98		80 - 120				10/20/20 10:00	10/20/20 19:59	1
Dibromofluoromethane (Surr)	104		80 - 120				10/20/20 10:00	10/20/20 19:59	1
1,2-Dichloroethane-d4 (Surr)	96		80 - 121				10/20/20 10:00	10/20/20 19:59	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	11200		134		mg/Kg	— -	10/17/20 15:13	10/18/20 05:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		50 - 150				10/17/20 15:13	10/18/20 05:41	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.5		0.1		%			10/20/20 14:07	1
Percent Moisture	6.5		0.1		%			10/20/20 14:07	1

Client: GHD Services Inc.

Job ID: 580-98313-1 Project/Site: Shell Harbor Island Fuel Terminal SDG: Products Release

Client Sample ID: S-101620-JRL-N4 (2') Lab Sample ID: 580-98313-4

Date Collected: 10/16/20 09:30 **Matrix: Solid**

Date Received: 10/16/20 14:							l	Percent Solid	ls: 91.2
Method: 8260D - Volatile O	•			MDI	11-4		Duamanad	Amahmad	D:: F-
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
Benzene	20.4		8.08		mg/Kg	₩	10/20/20 10:00	10/20/20 20:24	ĺ
Toluene	554		40.4		mg/Kg	₩	10/20/20 10:00	10/20/20 20:24	•
Ethylbenzene	162		10.8		mg/Kg		10/20/20 10:00	10/20/20 20:24	1
m-Xylene & p-Xylene	697		53.9		mg/Kg	₩	10/20/20 10:00	10/20/20 20:24	1
o-Xylene	273		16.2		mg/Kg	≎	10/20/20 10:00	10/20/20 20:24	1
Xylenes, Total	970		53.9		mg/Kg	₩	10/20/20 10:00	10/20/20 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120				10/20/20 10:00	10/20/20 20:24	1
4-Bromofluorobenzene (Surr)	98		80 - 120				10/20/20 10:00	10/20/20 20:24	1
Dibromofluoromethane (Surr)	103		80 - 120				10/20/20 10:00	10/20/20 20:24	1
1,2-Dichloroethane-d4 (Surr)	96		80 - 121				10/20/20 10:00	10/20/20 20:24	1
_ Method: NWTPH-Gx - Nortl	hwest - Volatile	Petroleui	m Products (GC)					
Analyte		Qualifier	RL `	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	10200		135		mg/Kg	— <u> </u>	10/17/20 15:13	10/18/20 06:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		50 - 150				10/17/20 15:13	10/18/20 06:05	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91.2		0.1		%		-	10/20/20 14:07	1
Percent Moisture	8.8		0.1		%			10/20/20 14:07	1

10/22/2020

Client: GHD Services Inc.

Client Sample ID: S-101620-JRL-N5 (2')

Date Collected: 10/16/20 09:50

Date Received: 10/16/20 14:20

Project/Site: Shell Harbor Island Fuel Terminal

Lab Sample ID: 580-98313-5

Matrix: Solid

Percent Solids: 92.1

Job ID: 580-98313-1

SDG: Products Release

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0110		0.00224		mg/Kg	<u></u>	10/16/20 15:00	10/21/20 12:30	1
Toluene	0.0430		0.0112		mg/Kg	₩	10/16/20 15:00	10/21/20 12:30	1
Ethylbenzene	ND		0.00224		mg/Kg	₩	10/16/20 15:00	10/21/20 12:30	1
m-Xylene & p-Xylene	ND		0.0112		mg/Kg	₩	10/16/20 15:00	10/21/20 12:30	1
o-Xylene	0.0126		0.00559		mg/Kg	₩	10/16/20 15:00	10/21/20 12:30	1
Xylenes, Total	0.0126		0.0112		mg/Kg	₩	10/16/20 15:00	10/21/20 12:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120				10/16/20 15:00	10/21/20 12:30	1
4-Bromofluorobenzene (Surr)	102		80 - 120				10/16/20 15:00	10/21/20 12:30	1
Dibromofluoromethane (Surr)	100		80 - 120				10/16/20 15:00	10/21/20 12:30	1
1,2-Dichloroethane-d4 (Surr)	111		80 - 121				10/16/20 15:00	10/21/20 12:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	ND		12.6		mg/Kg	₩	10/17/20 15:13	10/18/20 01:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150				10/17/20 15:13	10/18/20 01:11	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.1		0.1		%			10/20/20 14:07	1

10/22/2020

Client: GHD Services Inc.

Date Collected: 10/16/20 10:05

Date Received: 10/16/20 14:20

Project/Site: Shell Harbor Island Fuel Terminal

Client Sample ID: S-101620-JRL-N6 (18")

Lab Sample ID: 580-98313-6

Matrix: Solid

Percent Solids: 89.9

Job ID: 580-98313-1

SDG: Products Release

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0100		0.00218		mg/Kg	<u></u>	10/16/20 15:00	10/21/20 12:55	1
Toluene	0.0331		0.0109		mg/Kg	₩	10/16/20 15:00	10/21/20 12:55	1
Ethylbenzene	ND		0.00218		mg/Kg	₩	10/16/20 15:00	10/21/20 12:55	1
m-Xylene & p-Xylene	ND		0.0109		mg/Kg	₩	10/16/20 15:00	10/21/20 12:55	1
o-Xylene	ND		0.00546		mg/Kg	₩	10/16/20 15:00	10/21/20 12:55	1
Xylenes, Total	ND		0.0109		mg/Kg	₩	10/16/20 15:00	10/21/20 12:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120				10/16/20 15:00	10/21/20 12:55	1
4-Bromofluorobenzene (Surr)	98		80 - 120				10/16/20 15:00	10/21/20 12:55	1

Dibromofluoromethane (Surr)	96		80 - 120				10/16/20 15:00	10/21/20 12:55	1
1,2-Dichloroethane-d4 (Surr)	110		80 - 121				10/16/20 15:00	10/21/20 12:55	1
Method: NWTPH-Gx - Northwe	est - Volatile	e Petroleui	m Products (GC)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	ND		12.3		mg/Kg	<u></u>	10/17/20 15:13	10/18/20 01:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		50 - 150				10/17/20 15:13	10/18/20 01:35	

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.9		0.1		%			10/20/20 14:07	1
Percent Moisture	10.1		0.1		%			10/20/20 14:07	1

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4 -

Client: GHD Services Inc.

Date Collected: 10/16/20 10:15 Date Received: 10/16/20 14:20

Project/Site: Shell Harbor Island Fuel Terminal

Client Sample ID: S-101620-JRL-N7 (4')

SDG: Products Release

Lab Sample ID: 580-98313-7

Job ID: 580-98313-1

Matrix: Solid
Percent Solids: 88.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00816		0.00216		mg/Kg	— <u></u>	10/16/20 15:00	10/21/20 13:21	1
Toluene	0.0284		0.0108		mg/Kg	₩	10/16/20 15:00	10/21/20 13:21	1
Ethylbenzene	ND		0.00216		mg/Kg	₩	10/16/20 15:00	10/21/20 13:21	1
m-Xylene & p-Xylene	ND		0.0108		mg/Kg	₩	10/16/20 15:00	10/21/20 13:21	1
o-Xylene	ND		0.00540		mg/Kg	₩	10/16/20 15:00	10/21/20 13:21	1
Xylenes, Total	ND		0.0108		mg/Kg	☼	10/16/20 15:00	10/21/20 13:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120				10/16/20 15:00	10/21/20 13:21	1
4-Bromofluorobenzene (Surr)	105		80 - 120				10/16/20 15:00	10/21/20 13:21	1
Dibromofluoromethane (Surr)	99		80 - 120				10/16/20 15:00	10/21/20 13:21	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 121				10/16/20 15:00	10/21/20 13:21	1
Method: NWTPH-Gx - Nortl	hwest - Volatile	Petroleur	m Products (0	GC)					
Analyte	Result	Qualifier	RL `	MDL	Unit	D	Prepared	Analyzed	Dil Fac

	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
ND		12.5	mg/Kg	<u></u>	10/17/20 15:13	10/18/20 04:27	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
79		50 - 150			10/17/20 15:13	10/18/20 04:27	1
2	%Recovery	Recovery Qualifier	%Recovery Qualifier Limits	6Recovery Qualifier Limits	6Recovery Qualifier Limits	6Recovery Qualifier Limits Prepared	6Recovery Qualifier Limits Prepared Analyzed

General Oneilistry									
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.4		0.1		%			10/20/20 14:07	1
Percent Moisture	11.6		0.1		%			10/20/20 14:07	1

10/22/2020

Client: GHD Services Inc.

Job ID: 580-98313-1 Project/Site: Shell Harbor Island Fuel Terminal SDG: Products Release

Client Sample ID: S-101620-JRL-S1 (4')

Lab Sample ID: 580-98313-8 Date Collected: 10/16/20 10:45 **Matrix: Solid** Date Received: 10/16/20 14:20 Percent Solids: 90.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	38.1		7.35		mg/Kg	<u></u>	10/20/20 10:00	10/20/20 22:03	1
Toluene	761		36.7		mg/Kg	☆	10/20/20 10:00	10/20/20 22:03	1
Ethylbenzene	176		9.80		mg/Kg	☆	10/20/20 10:00	10/20/20 22:03	1
m-Xylene & p-Xylene	741		49.0		mg/Kg	☆	10/20/20 10:00	10/20/20 22:03	1
o-Xylene	282		14.7		mg/Kg	☆	10/20/20 10:00	10/20/20 22:03	1
Xylenes, Total	1020		49.0		mg/Kg	₩	10/20/20 10:00	10/20/20 22:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120				10/20/20 10:00	10/20/20 22:03	1
4-Bromofluorobenzene (Surr)	100		80 - 120				10/20/20 10:00	10/20/20 22:03	1
Dibromofluoromethane (Surr)	103		80 - 120				10/20/20 10:00	10/20/20 22:03	1
1,2-Dichloroethane-d4 (Surr)	100		80 - 121				10/20/20 10:00	10/20/20 22:03	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	9150		122		mg/Kg	— <u>-</u>	10/17/20 15:13	10/18/20 06:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		50 - 150				10/17/20 15:13	10/18/20 06:30	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.2		0.1		%			10/20/20 14:07	1
Percent Moisture	9.8		0.1		%			10/20/20 14:07	1

10/22/2020

Client: GHD Services Inc.

Result Qualifier

94.6

5.4

Job ID: 580-98313-1 Project/Site: Shell Harbor Island Fuel Terminal SDG: Products Release

Client Sample ID: S-101620-JRL-S2 (4')

General Chemistry

Analyte

Percent Solids

Percent Moisture

Lab Sample ID: 580-98313-9 Date Collected: 10/16/20 10:55 **Matrix: Solid** Date Received: 10/16/20 14:20 t Solids: 94 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.547		0.0755		mg/Kg	<u></u>	10/21/20 10:00	10/21/20 13:08	1
Toluene	0.783		0.378		mg/Kg	₩	10/21/20 10:00	10/21/20 13:08	1
Ethylbenzene	0.229		0.101		mg/Kg	₩	10/21/20 10:00	10/21/20 13:08	1
m-Xylene & p-Xylene	0.694		0.503		mg/Kg	₩	10/21/20 10:00	10/21/20 13:08	1
o-Xylene	0.287		0.151		mg/Kg	₩	10/21/20 10:00	10/21/20 13:08	1
Xylenes, Total	0.981		0.503		mg/Kg	₩	10/21/20 10:00	10/21/20 13:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120				10/21/20 10:00	10/21/20 13:08	1
4-Bromofluorobenzene (Surr)	97		80 - 120				10/21/20 10:00	10/21/20 13:08	1
Dibromofluoromethane (Surr)	103		80 - 120				10/21/20 10:00	10/21/20 13:08	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 121				10/21/20 10:00	10/21/20 13:08	1
Method: NWTPH-Gx - North	nwest - Volatile	e Petroleur	n Products (GC)					
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	2880		135		mg/Kg	— -	10/17/20 15:13	10/18/20 06:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		50 - 150				10/17/20 15:13	10/18/20 06:54	1

RL

0.1

0.1

MDL Unit

%

%

D

Prepared

10/22/2020

Dil Fac

Analyzed

10/20/20 14:07

10/20/20 14:07

Client: GHD Services Inc.

Date Collected: 10/16/20 11:00

Date Received: 10/16/20 14:20

Project/Site: Shell Harbor Island Fuel Terminal

Client Sample ID: S-101620-JRL-S3 (4')

Job ID: 580-98313-1 SDG: Products Release

Lab Sample ID: 580-98313-10

Matrix: Solid Percent Solids: 80.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	MD		0.0907		mg/Kg	<u></u>	10/21/20 10:00	10/21/20 13:32	1
Toluene	ND		0.454		mg/Kg	₩	10/21/20 10:00	10/21/20 13:32	1
Ethylbenzene	ND		0.121		mg/Kg	₩	10/21/20 10:00	10/21/20 13:32	1
m-Xylene & p-Xylene	ND		0.605		mg/Kg	₩	10/21/20 10:00	10/21/20 13:32	1
o-Xylene	ND		0.181		mg/Kg	₩	10/21/20 10:00	10/21/20 13:32	1
Xylenes, Total	ND		0.605		mg/Kg	₩	10/21/20 10:00	10/21/20 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120				10/21/20 10:00	10/21/20 13:32	1
4-Bromofluorobenzene (Surr)	98		80 - 120				10/21/20 10:00	10/21/20 13:32	1
Dibromofluoromethane (Surr)	101		80 - 120				10/21/20 10:00	10/21/20 13:32	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 121				10/21/20 10:00	10/21/20 13:32	1

- 1,2-Dichioroethane-d+ (Surr)	101		00 - 121				10/21/20 10.00	10/21/20 13.32	'
- Method: NWTPH-Gx - Northwe	est - Volatile	e Petroleui	m Products (GC)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	ND		15.1		mg/Kg	— <u></u>	10/17/20 15:13	10/18/20 02:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		50 - 150				10/17/20 15:13	10/18/20 02:00	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.2		0.1		%			10/20/20 14:07	1
Percent Moisture	19.8		0.1		%			10/20/20 14:07	1

Client: GHD Services Inc.

Date Collected: 10/16/20 11:07

Project/Site: Shell Harbor Island Fuel Terminal

Client Sample ID: S-101620-JRL-S4 (2')

Job ID: 580-98313-1 SDG: Products Release

Lab Sample ID: 580-98313-11

Matrix: Solid

Percent Solids: 81.6

Date Received: 10/16/20 14:20 Percent Solids:								ls: 81.6	
Method: 8260D - Volatile O	•	unds by G Qualifier	C/MS RL	MDI	Unit	D	Prepared	Analyzod	Dil Fa
Analyte		Qualifier		MIDL				Analyzed	DII Fac
Benzene	75.7		9.93		mg/Kg	₩	10/20/20 10:00		1
Toluene	1250		49.6		mg/Kg	₽	10/20/20 10:00	10/20/20 23:16	1
Ethylbenzene	278		13.2		mg/Kg	≎	10/20/20 10:00	10/20/20 23:16	1
m-Xylene & p-Xylene	1160		66.2		mg/Kg	₩	10/20/20 10:00	10/20/20 23:16	1
o-Xylene	444		19.9		mg/Kg	≎	10/20/20 10:00	10/20/20 23:16	1
Xylenes, Total	1600		66.2		mg/Kg	≎	10/20/20 10:00	10/20/20 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120				10/20/20 10:00	10/20/20 23:16	1
4-Bromofluorobenzene (Surr)	101		80 - 120				10/20/20 10:00	10/20/20 23:16	1
Dibromofluoromethane (Surr)	104		80 - 120				10/20/20 10:00	10/20/20 23:16	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 121				10/20/20 10:00	10/20/20 23:16	1
Method: NWTPH-Gx - North	nwest - Volatile	Petroleui	m Products (GC)					
Analyte	Result	Qualifier	RL `	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	16800		165		mg/Kg	‡	10/17/20 15:13	10/18/20 07:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		50 - 150				10/17/20 15:13	10/18/20 07:19	

General Chemistry							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.6	0.1	%			10/20/20 14:07	1
Percent Moisture	18.4	0.1	%			10/20/20 14:07	1

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Client: GHD Services Inc.

Analyte

Percent Solids

Percent Moisture

Date Collected: 10/16/20 11:12

Client Sample ID: S-101620-JRL-S5 (2')

Job ID: 580-98313-1 Project/Site: Shell Harbor Island Fuel Terminal SDG: Products Release

Lab Sample ID: 580-98313-12

	ıvıatı	rix: S	olla
Percent	Sol	ids:	72.7

Method: 8260D - Volatile On Analyte	•	unds by G Qualifier	C/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	26.7	- Guaintoi	9.37		mg/Kg	— <u>=</u>	10/20/20 10:00	10/20/20 23:41	
Toluene	1070		46.9		mg/Kg	Ť Ž	10/20/20 10:00	10/20/20 23:41	1
Ethylbenzene	297		12.5		mg/Kg	₩	10/20/20 10:00	10/20/20 23:41	
m-Xylene & p-Xylene	1230		62.5		mg/Kg		10/20/20 10:00	10/20/20 23:41	1
o-Xylene	456		18.7		mg/Kg	₩	10/20/20 10:00	10/20/20 23:41	1
Xylenes, Total	1690		62.5		mg/Kg	₩	10/20/20 10:00	10/20/20 23:41	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Toluene-d8 (Surr)	103		80 - 120				10/20/20 10:00	10/20/20 23:41	
4-Bromofluorobenzene (Surr)	99		80 - 120				10/20/20 10:00	10/20/20 23:41	
Dibromofluoromethane (Surr)	106		80 - 120				10/20/20 10:00	10/20/20 23:41	
1,2-Dichloroethane-d4 (Surr)	101		80 - 121				10/20/20 10:00	10/20/20 23:41	
Method: NWTPH-Gx - North	nwest - Volatile	Petroleur	n Products (GC)					
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics - NWTPH-G	17700		156		mg/Kg		10/17/20 15:13	10/18/20 11:18	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	120		50 - 150				10/17/20 15:13	10/18/20 11:18	

RL

0.1

0.1

MDL Unit

%

%

D

Prepared

Result Qualifier

72.7

27.3

10/22/2020

Dil Fac

Analyzed

10/20/20 14:07

10/20/20 14:07

Client: GHD Services Inc.

General Chemistry

Analyte

Percent Solids

Percent Moisture

Date Collected: 10/16/20 11:17

Project/Site: Shell Harbor Island Fuel Terminal

Client Sample ID: S-101620-JRL-S6 (2')

Job ID: 580-98313-1 SDG: Products Release

Lab Sample ID: 580-98313-13

Matrix: Solid

Method: 8260D - Volatile O	rganic Compo	unas by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.108		0.0759		mg/Kg	<u></u>	10/21/20 10:00	10/21/20 13:57	1
Toluene	0.544		0.379		mg/Kg	₩	10/21/20 10:00	10/21/20 13:57	1
Ethylbenzene	ND		0.101		mg/Kg	₩	10/21/20 10:00	10/21/20 13:57	1
m-Xylene & p-Xylene	0.606		0.506		mg/Kg	₩	10/21/20 10:00	10/21/20 13:57	1
o-Xylene	0.277		0.152		mg/Kg	₩	10/21/20 10:00	10/21/20 13:57	1
Xylenes, Total	0.883		0.506		mg/Kg	₩	10/21/20 10:00	10/21/20 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120				10/21/20 10:00	10/21/20 13:57	1
4-Bromofluorobenzene (Surr)	99		80 - 120				10/21/20 10:00	10/21/20 13:57	1
Dibromofluoromethane (Surr)	102		80 - 120				10/21/20 10:00	10/21/20 13:57	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 121				10/21/20 10:00	10/21/20 13:57	1
Method: NWTPH-Gx - Nortl	nwest - Volatile	e Petroleur	m Products (0	GC)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	16.0		12.6		mg/Kg	— -	10/17/20 15:13	10/18/20 02:25	1
Surra mata	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate	/or ecovery	Qualifier	Liiiits				riepaieu	Allalyzeu	Diriac

RL

0.1

0.1

MDL Unit

%

%

Prepared

Result Qualifier

85.4

14.7

Eurofins	TestAmerica,	Seattle

10/22/2020

Dil Fac

Analyzed

10/20/20 14:07

10/20/20 14:07

Percent Solids

Percent Moisture

Client Sample ID: S-101620-JRL-S7 (2')

Lab Sample ID: 580-98313-14 Date Collected: 10/16/20 11:21 **Matrix: Solid** Date Received: 10/16/20 14:20 **Percent Solids: 80**

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8.0	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	719		9.10		mg/Kg	— <u>—</u>	10/20/20 10:00	10/21/20 00:30	1
Toluene	9750		455		mg/Kg	₩	10/21/20 10:00	10/21/20 14:22	1
Ethylbenzene	1430		12.1		mg/Kg	₩	10/20/20 10:00	10/21/20 00:30	1
m-Xylene & p-Xylene	7000		607		mg/Kg	₩	10/21/20 10:00	10/21/20 14:22	1
o-Xylene	2590		182		mg/Kg	₩	10/21/20 10:00	10/21/20 14:22	1
Xylenes, Total	9590		607		mg/Kg	₩	10/21/20 10:00	10/21/20 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120				10/20/20 10:00	10/21/20 00:30	1
Toluene-d8 (Surr)	102		80 - 120				10/21/20 10:00	10/21/20 14:22	1
4-Bromofluorobenzene (Surr)	100		80 - 120				10/20/20 10:00	10/21/20 00:30	1
4-Bromofluorobenzene (Surr)	98		80 - 120				10/21/20 10:00	10/21/20 14:22	1
Dibromofluoromethane (Surr)	106		80 - 120				10/20/20 10:00	10/21/20 00:30	1
Dibromofluoromethane (Surr)	103		80 - 120				10/21/20 10:00	10/21/20 14:22	1
1,2-Dichloroethane-d4 (Surr)	97		80 - 121				10/20/20 10:00	10/21/20 00:30	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 121				10/21/20 10:00	10/21/20 14:22	1
Method: NWTPH-Gx - Nort	hwest - Volatile	e Petroleur	n Products (GC)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	69100		607		mg/Kg	— <u> </u>	10/17/20 15:13	10/18/20 21:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		50 - 150				10/17/20 15:13	10/18/20 21:45	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

0.1

0.1

80.8

19.2

%

%

10/20/20 14:07

10/20/20 14:07

Eurofins	TestAmerica,	Seattle

Client: GHD Services Inc. Project/Site: Shell Harbor Island Fuel Terminal

SDG: Products Release

Client Sample ID: S-101620-JRL-S8 (2')

Lab Sample ID: 580-98313-15 Matrix: Solid

Date Collected: 10/16/20 11:26 Date Received: 10/16/20 14:20

	I COLLIAN	Ouiu
Percent S	Solids:	78.5

Job ID: 580-98313-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	105		9.31		mg/Kg	<u></u>	10/20/20 10:00	10/21/20 00:54	1
Toluene	1350		46.5		mg/Kg	₩	10/21/20 10:00	10/21/20 14:46	1
Ethylbenzene	280		12.4		mg/Kg	₩	10/20/20 10:00	10/21/20 00:54	1
m-Xylene & p-Xylene	1080		62.0		mg/Kg	₩	10/21/20 10:00	10/21/20 14:46	1
o-Xylene	407		18.6		mg/Kg	₩	10/21/20 10:00	10/21/20 14:46	•
Xylenes, Total	1490		62.0		mg/Kg	₩	10/21/20 10:00	10/21/20 14:46	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Toluene-d8 (Surr)	103		80 - 120				10/20/20 10:00	10/21/20 00:54	
Toluene-d8 (Surr)	102		80 - 120				10/21/20 10:00	10/21/20 14:46	
4-Bromofluorobenzene (Surr)	98		80 - 120				10/20/20 10:00	10/21/20 00:54	
4-Bromofluorobenzene (Surr)	99		80 - 120				10/21/20 10:00	10/21/20 14:46	
Dibromofluoromethane (Surr)	104		80 - 120				10/20/20 10:00	10/21/20 00:54	1
Dibromofluoromethane (Surr)	106		80 - 120				10/21/20 10:00	10/21/20 14:46	
1,2-Dichloroethane-d4 (Surr)	101		80 - 121				10/20/20 10:00	10/21/20 00:54	
1,2-Dichloroethane-d4 (Surr)	104		80 - 121				10/21/20 10:00	10/21/20 14:46	•
Method: NWTPH-Gx - Norti	nwest - Volatile	Petroleur	n Products (GC)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	14200		155		mg/Kg	₩	10/17/20 15:13	10/18/20 20:56	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	111		50 - 150				10/17/20 15:13	10/18/20 20:56	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.5		0.1		%			10/20/20 14:07	
Percent Moisture	21.5		0.1		%			10/20/20 14:07	

Client: GHD Services Inc.

Date Collected: 10/16/20 11:30

Date Received: 10/16/20 14:20

Project/Site: Shell Harbor Island Fuel Terminal

Client Sample ID: S-101620-JRL-S9 (2')

Job ID: 580-98313-1 SDG: Products Release

Lab Sample ID: 580-98313-16

Matrix: Solid

Percent Solids: 77.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.220		0.0820		mg/Kg	— <u></u>	10/21/20 10:00	10/21/20 15:11	1
Toluene	1.07		0.410		mg/Kg	₩	10/21/20 10:00	10/21/20 15:11	1
Ethylbenzene	0.114		0.109		mg/Kg	₩	10/21/20 10:00	10/21/20 15:11	1
m-Xylene & p-Xylene	ND		0.547		mg/Kg	₩	10/21/20 10:00	10/21/20 15:11	1
o-Xylene	0.205		0.164		mg/Kg	₩	10/21/20 10:00	10/21/20 15:11	1
Xylenes, Total	ND		0.547		mg/Kg	₩	10/21/20 10:00	10/21/20 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120				10/21/20 10:00	10/21/20 15:11	1
4-Bromofluorobenzene (Surr)	99		80 - 120				10/21/20 10:00	10/21/20 15:11	1
Dibromofluoromethane (Surr)	102		80 - 120				10/21/20 10:00	10/21/20 15:11	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 121				10/21/20 10:00	10/21/20 15:11	1
Method: NWTPH-Gx - Northwe	est - Volatile	e Petroleur	m Products (0	GC)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	ND		13.7		mg/Kg	<u></u>	10/17/20 15:13	10/18/20 02:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150				10/17/20 15:13	10/18/20 02:49	1

General Chemistry							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.2	0.1	%			10/20/20 14:07	1
Percent Moisture	22.8	0.1	%			10/20/20 14:07	1

Client: GHD Services Inc.

Date Collected: 10/16/20 11:36

Project/Site: Shell Harbor Island Fuel Terminal

Client Sample ID: S-101620-JRL-S10 (2')

Job ID: 580-98313-1 SDG: Products Release

Lab Sample ID: 580-98313-17

Matrix: Solid

Method: 8260D - Volatile O	•	•				_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	77.8		10.3		mg/Kg	≎	10/20/20 10:00	10/21/20 01:44	1
Toluene	1650		51.7		mg/Kg	☼	10/20/20 10:00	10/21/20 01:44	1
Ethylbenzene	386		13.8		mg/Kg	☼	10/20/20 10:00	10/21/20 01:44	1
m-Xylene & p-Xylene	1590		68.9		mg/Kg	₩	10/20/20 10:00	10/21/20 01:44	1
o-Xylene	611		20.7		mg/Kg	₩	10/20/20 10:00	10/21/20 01:44	1
Xylenes, Total	2200		68.9		mg/Kg	≎	10/20/20 10:00	10/21/20 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120				10/20/20 10:00	10/21/20 01:44	1
4-Bromofluorobenzene (Surr)	100		80 - 120				10/20/20 10:00	10/21/20 01:44	1
Dibromofluoromethane (Surr)	105		80 - 120				10/20/20 10:00	10/21/20 01:44	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 121				10/20/20 10:00	10/21/20 01:44	1
Method: NWTPH-Gx - Norti	nwest - Volatile	e Petroleui	m Products (GC)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics -	20600		172		ma/Ka		10/17/20 15:13	10/18/20 21:20	

moundar itti ii Ox itoiti				,					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	20600		172		mg/Kg	— <u> </u>	10/17/20 15:13	10/18/20 21:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		50 - 150				10/17/20 15:13	10/18/20 21:20	1
[aa.a									

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.2	0.1	%			10/20/20 14:07	1
Percent Moisture	13.8	0.1	%			10/20/20 14:07	1

Client: GHD Services Inc.

Date Collected: 10/16/20 11:41

Date Received: 10/16/20 14:20

Project/Site: Shell Harbor Island Fuel Terminal

Client Sample ID: S-101620-JRL-S11 (WW)

Job ID: 580-98313-1 SDG: Products Release

Lab Sample ID: 580-98313-18

Matrix: Solid

Percent Solids: 94.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0616		mg/Kg	<u></u>	10/21/20 10:00	10/21/20 15:36	1
Toluene	ND		0.308		mg/Kg	₩	10/21/20 10:00	10/21/20 15:36	1
Ethylbenzene	ND		0.0821		mg/Kg	☼	10/21/20 10:00	10/21/20 15:36	1
m-Xylene & p-Xylene	ND		0.410		mg/Kg	≎	10/21/20 10:00	10/21/20 15:36	1
o-Xylene	0.143		0.123		mg/Kg	☼	10/21/20 10:00	10/21/20 15:36	1
Xylenes, Total	ND		0.410		mg/Kg	≎	10/21/20 10:00	10/21/20 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120				10/21/20 10:00	10/21/20 15:36	
4-Bromofluorobenzene (Surr)	98		80 - 120				10/21/20 10:00	10/21/20 15:36	1
Dibromofluoromethane (Surr)	103		80 - 120				10/21/20 10:00	10/21/20 15:36	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 121				10/21/20 10:00	10/21/20 15:36	1
- Method: NWTPH-Gx - Northwe	st - Volatile	e Petroleur	n Products (0	GC)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	ND		10.3		mg/Kg	*	10/17/20 15:13	10/18/20 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		50 - 150				10/17/20 15:13	10/18/20 03:14	

General Chemistry Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.5	0.1	%			10/20/20 14:07	1
Percent Moisture	5.5	0.1	%			10/20/20 14:07	1

Client: GHD Services Inc.

Project/Site: Shell Harbor Island Fuel Terminal

Job ID: 580-98313-1 SDG: Products Release

Lab Sample ID: 580-98313-19

Client Sample ID: S-101620-JRL-S12 (EW) Date Collected: 10/16/20 11:46 Matrix: Solid Date Received: 10/16/20 14:20 **Percent Solids**

Solia	
s: 92.5	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00685		0.00203		mg/Kg	<u></u>	10/16/20 15:00	10/21/20 13:46	1
Toluene	0.0324		0.0102		mg/Kg	₩	10/16/20 15:00	10/21/20 13:46	1
Ethylbenzene	ND		0.00203		mg/Kg	₩	10/16/20 15:00	10/21/20 13:46	1
m-Xylene & p-Xylene	ND		0.0102		mg/Kg	₩	10/16/20 15:00	10/21/20 13:46	1
o-Xylene	ND		0.00508		mg/Kg	₩	10/16/20 15:00	10/21/20 13:46	1
Xylenes, Total	ND		0.0102		mg/Kg	₩	10/16/20 15:00	10/21/20 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120				10/16/20 15:00	10/21/20 13:46	1
4-Bromofluorobenzene (Surr)	99		80 - 120				10/16/20 15:00	10/21/20 13:46	1
Dibromofluoromethane (Surr)	100		80 - 120				10/16/20 15:00	10/21/20 13:46	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 121				10/16/20 15:00	10/21/20 13:46	1

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	ND		11.6		mg/Kg	-	10/17/20 15:13	10/18/20 00:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		50 - 150				10/17/20 15:13	10/18/20 00:46	1

4-Bromofluorobenzene (Surr)	75	50 - 150		10/17/20 15:13	10/18/20 00:46	1
General Chemistry						
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Percent Solids	92.5	0.1	%		10/20/20 14:07	1
Percent Moisture	7.5	0.1	%		10/20/20 14:07	1

Client: GHD Services Inc.

Client Sample ID: S-101620-JRL-S13 (SW)

Project/Site: Shell Harbor Island Fuel Terminal

Date Collected: 10/16/20 11:52

Date Received: 10/16/20 14:20

Lab Sample ID: 580-98313-20

Matrix: Solid

Percent Solids: 95.5

Job ID: 580-98313-1

SDG: Products Release

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00637		0.00186		mg/Kg	— <u></u>	10/16/20 15:00	10/21/20 14:12	1
Toluene	0.0302		0.00928		mg/Kg	☆	10/16/20 15:00	10/21/20 14:12	1
Ethylbenzene	0.00189		0.00186		mg/Kg	☆	10/16/20 15:00	10/21/20 14:12	1
m-Xylene & p-Xylene	ND		0.00928		mg/Kg	☆	10/16/20 15:00	10/21/20 14:12	1
o-Xylene	ND		0.00464		mg/Kg	☆	10/16/20 15:00	10/21/20 14:12	1
Xylenes, Total	ND		0.00928		mg/Kg	≎	10/16/20 15:00	10/21/20 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120				10/16/20 15:00	10/21/20 14:12	1
4-Bromofluorobenzene (Surr)	105		80 - 120				10/16/20 15:00	10/21/20 14:12	1
Dibromofluoromethane (Surr)	100		80 - 120				10/16/20 15:00	10/21/20 14:12	1
1,2-Dichloroethane-d4 (Surr)	109		80 - 121				10/16/20 15:00	10/21/20 14:12	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	ND		10.2		mg/Kg	<u></u>	10/17/20 15:13	10/18/20 04:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150				10/17/20 15:13	10/18/20 04:02	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.5		0.1		%			10/20/20 11:29	1

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10

Job ID: 580-98313-1

Client: GHD Services Inc. Project/Site: Shell Harbor Island Fuel Terminal SDG: Products Release

Method: 8260D - Volatile Organic Compounds by GC/MS

MB MB

Lab Sample ID: MB 580-341241/1-A

Matrix: Solid

Analysis Batch: 341246

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 341241

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND ND	0.0300	mg/Kg		10/20/20 10:00	10/20/20 17:56	1
Toluene	ND	0.150	mg/Kg		10/20/20 10:00	10/20/20 17:56	1
Ethylbenzene	ND	0.0400	mg/Kg		10/20/20 10:00	10/20/20 17:56	1
m-Xylene & p-Xylene	ND	0.200	mg/Kg		10/20/20 10:00	10/20/20 17:56	1
o-Xylene	ND	0.0600	mg/Kg		10/20/20 10:00	10/20/20 17:56	1
Xylenes, Total	ND	0.200	mg/Kg		10/20/20 10:00	10/20/20 17:56	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Toluene-d8 (Surr) 102 80 - 120 10/20/20 10:00 10/20/20 17:56 4-Bromofluorobenzene (Surr) 99 80 - 120 10/20/20 10:00 10/20/20 17:56 102 Dibromofluoromethane (Surr) 80 - 120 10/20/20 10:00 10/20/20 17:56 1,2-Dichloroethane-d4 (Surr) 102 80 - 121 10/20/20 10:00 10/20/20 17:56

Lab Sample ID: LCS 580-341241/2-A

Matrix: Solid

Analysis Batch: 341246

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 341241

%Rec.
Limits
79 - 135
75 - 137
80 - 135
80 - 132
80 - 132
80 - 136

LCS	LCS

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	94		80 - 121

Lab Sample ID: LCSD 580-341241/3-A

Matrix: Solid

Analysis Batch: 341246

Client Sample ID: Lab Control Sample Dup

Prep Batch: 341241

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.800	1.004		mg/Kg		126	79 - 135	2	31
Toluene	0.800	1.033		mg/Kg		129	75 - 137	2	34
Ethylbenzene	0.800	1.032		mg/Kg		129	80 - 135	1	37
m-Xylene & p-Xylene	0.800	1.045		mg/Kg		131	80 - 132	2	38
o-Xylene	0.800	1.014		mg/Kg		127	80 - 132	1	39
Xylenes, Total	1.60	2.059		mg/Kg		129	80 - 136	1	19

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120

Eurofins TestAmerica, Seattle

10/22/2020

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Prep Type: Total/NA

Client: GHD Services Inc.

Project/Site: Shell Harbor Island Fuel Terminal SDG: Products Release

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-341241/3-A

Matrix: Solid

Analysis Batch: 341246

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Job ID: 580-98313-1

Prep Batch: 341241

LCSD LCSD

%Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 95 80 - 121

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 341316

Lab Sample ID: MB 580-341316/1-A **Matrix: Solid**

Analysis Batch: 341300 MB MB

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND ND	0.00200	mg/Kg		10/21/20 10:10	10/21/20 12:04	1
Toluene	ND	0.0100	mg/Kg		10/21/20 10:10	10/21/20 12:04	1
Ethylbenzene	ND	0.00200	mg/Kg		10/21/20 10:10	10/21/20 12:04	1
m-Xylene & p-Xylene	ND	0.0100	mg/Kg		10/21/20 10:10	10/21/20 12:04	1
o-Xylene	ND	0.00500	mg/Kg		10/21/20 10:10	10/21/20 12:04	1
Xylenes, Total	ND	0.0100	mg/Kg		10/21/20 10:10	10/21/20 12:04	1

MB MB

Surrogate	%Recovery Q	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120	10/21/20 10:10	10/21/20 12:04	1
4-Bromofluorobenzene (Surr)	103		80 - 120	10/21/20 10:10	10/21/20 12:04	1
Dibromofluoromethane (Surr)	97		80 - 120	10/21/20 10:10	10/21/20 12:04	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 121	10/21/20 10:10	10/21/20 12:04	1

Lab Sample ID: LCS 580-341316/2-A

Matrix: Solid

Analysis Batch: 341300

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 341316

	Spike	LCS I	LCS				%Rec.	
Analyte	Added	Result (Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0200	0.01944		mg/Kg		97	79 - 135	
Toluene	0.0200	0.02120		mg/Kg		106	75 - 137	
Ethylbenzene	0.0200	0.01945		mg/Kg		97	80 - 135	
m-Xylene & p-Xylene	0.0200	0.01837		mg/Kg		92	80 - 132	
o-Xylene	0.0200	0.01963		mg/Kg		98	80 - 132	
Xylenes, Total	0.0400	0.03800		mg/Kg		95	80 - 136	

LCS LCS

Surrogate	%Recovery Q	ualifier Limits
Toluene-d8 (Surr)	96	80 - 120
4-Bromofluorobenzene (Surr)	103	80 - 120
Dibromofluoromethane (Surr)	104	80 - 120
1,2-Dichloroethane-d4 (Surr)	108	80 - 121

Lab Sample ID: LCSD 580-341316/3-A

Matrix: Solid

Analysis Batch: 341300

Client Sample ID: L	ab Control Sample Dup
	Prep Type: Total/NA

Prep Batch: 341316

7									
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0200	0.01913		mg/Kg		96	79 - 135	2	31
Toluene	0.0200	0.02086		mg/Kg		104	75 - 137	2	34
Ethylbenzene	0.0200	0.01937		mg/Kg		97	80 - 135	0	37
m-Xylene & p-Xylene	0.0200	0.01882		mg/Kg		94	80 - 132	2	38
o-Xylene	0.0200	0.01988		mg/Kg		99	80 - 132	1	39

Eurofins TestAmerica, Seattle

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Client: GHD Services Inc.

Project/Site: Shell Harbor Island Fuel Terminal

Job ID: 580-98313-1 SDG: Products Release

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-341316/3-A

Matrix: Solid

Analysis Batch: 341300

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 341316 %Rec. **RPD**

LCSD LCSD Spike Analyte Added Result Qualifier Unit D %Rec Limits RPD 0.0400 Xylenes, Total 0.03870 mg/Kg 97 80 - 136 2

Limit

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	108		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
1,2-Dichloroethane-d4 (Surr)	106		80 - 121

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 341340

Lab Sample ID: MB 580-341340/1-A

Matrix: Solid

Analysis Batch: 341342

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0300		mg/Kg		10/21/20 10:00	10/21/20 11:05	1
Toluene	ND		0.150		mg/Kg		10/21/20 10:00	10/21/20 11:05	1
Ethylbenzene	ND		0.0400		mg/Kg		10/21/20 10:00	10/21/20 11:05	1
m-Xylene & p-Xylene	ND		0.200		mg/Kg		10/21/20 10:00	10/21/20 11:05	1
o-Xylene	ND		0.0600		mg/Kg		10/21/20 10:00	10/21/20 11:05	1
Xylenes, Total	ND		0.200		mg/Kg		10/21/20 10:00	10/21/20 11:05	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120	10/21/20 10:00	10/21/20 11:05	1
4-Bromofluorobenzene (Surr)	97		80 - 120	10/21/20 10:00	10/21/20 11:05	1
Dibromofluoromethane (Surr)	102		80 - 120	10/21/20 10:00	10/21/20 11:05	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 121	10/21/20 10:00	10/21/20 11:05	1

Lab Sample ID: LCS 580-341340/2-A

Matrix: Solid

Analysis Batch: 341342

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 341340

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.800	0.9996		mg/Kg		125	79 - 135	
Toluene	0.800	1.000		mg/Kg		125	75 - 137	
Ethylbenzene	0.800	1.020		mg/Kg		127	80 - 135	
m-Xylene & p-Xylene	0.800	1.011		mg/Kg		126	80 - 132	
o-Xylene	0.800	0.9976		mg/Kg		125	80 - 132	
Xylenes, Total	1.60	2.009		mg/Kg		126	80 - 136	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	105		80 - 120
1,2-Dichloroethane-d4 (Surr)	104		80 - 121

Eurofins TestAmerica, Seattle

Job ID: 580-98313-1

Project/Site: Shell Harbor Island Fuel Terminal SDG: Products Release

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 580-341340/3-A

Prep Type: Total/NA Prep Batch: 341340

Analysis Batch: 341342							Prep Ba		41340
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.800	0.9994		mg/Kg		125	79 - 135	0	31
Toluene	0.800	0.9853		mg/Kg		123	75 - 137	2	34
Ethylbenzene	0.800	1.005		mg/Kg		126	80 - 135	1	37
m-Xylene & p-Xylene	0.800	0.9957		mg/Kg		124	80 - 132	2	38
o-Xylene	0.800	0.9833		mg/Kg		123	80 - 132	1	39
Xylenes, Total	1.60	1.979		mg/Kg		124	80 - 136	1	19

LCSD LCSD Surrogate %Recovery Qualifier Limits Toluene-d8 (Surr) 101 80 - 120 4-Bromofluorobenzene (Surr) 98 80 - 120 104 Dibromofluoromethane (Surr) 80 - 120 1,2-Dichloroethane-d4 (Surr) 103 80 - 121

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

MB MB

Lab Sample ID: MB 580-341041/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 341035

Prep Batch: 341041 Dil Fac

Result Qualifier RL **MDL** Unit Analyte Prepared Analyzed Gasoline Range Organics - NWTPH-G ND 5.00 mg/Kg 10/17/20 15:13 10/17/20 23:33

MB MB Qualifier %Recovery Surrogate

Dil Fac Prepared Analyzed

Limits 4-Bromofluorobenzene (Surr) 50 - 150 10/17/20 15:13 10/17/20 23:33 80

Lab Sample ID: LCS 580-341041/2-A **Matrix: Solid**

Client Sample ID: Lab Control Sample Prep Type: Total/NA **Prep Batch: 341041**

Analysis Batch: 341035 Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Gasoline Range Organics -

NWTPH-G

40.0 35.03 mg/Kg 88 80 - 120

LCS LCS

%Recovery Qualifier Limits Surrogate 50 - 150 4-Bromofluorobenzene (Surr) 80

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 580-341041/3-A

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 341035 Prep Batch: 341041** Spike LCSD LCSD %Rec. **RPD**

Added Result Qualifier Limits RPD Limit Unit %Rec Analyte 80 - 120 Gasoline Range Organics -40.0 35.83 mg/Kg 90 **NWTPH-G**

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 83 50 - 150

Eurofins TestAmerica, Seattle

QC Sample Results

Client: GHD Services Inc. Job ID: 580-98313-1 Project/Site: Shell Harbor Island Fuel Terminal SDG: Products Release

Method: 2540G - SM 2540G

Lab Sample ID: 580-98313-20 DU

Matrix: Solid

Analysis Batch: 341218

Analysis Baton. 041210								
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	95.5		96.0		%		 0.5	20
Percent Moisture	4.5		4.0		%		12	20

Client Sample ID: S-101620-JRL-S13 (SW)

Prep Type: Total/NA

Job ID: 580-98313-1 SDG: Products Release

Client Sample ID: S-101620-JRL-N1 (3') Lab Sample ID: 580-98313-1

Date Collected: 10/16/20 08:55 Date Received: 10/16/20 14:20

Matrix: Solid

Batch Batch Dilution Batch Prepared Method **Factor** Number or Analyzed **Prep Type** Type Run Analyst Lab Total/NA Analysis 2540G 341218 10/20/20 14:07 CCH TAL SEA

Client Sample ID: S-101620-JRL-N1 (3')

Lab Sample ID: 580-98313-1

Date Collected: 10/16/20 08:55 Date Received: 10/16/20 14:20

Matrix: Solid Percent Solids: 87.9

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Lab Total/NA Prep 5035 341241 10/20/20 10:00 ASJ TAL SEA Total/NA Analysis 8260D 341246 10/20/20 19:10 T1W TAL SEA 5035 341041 10/17/20 15:13 DCV TAL SEA Total/NA Prep Total/NA Analysis **NWTPH-Gx** 341035 10/18/20 04:52 DCV TAL SEA

Client Sample ID: S-101620-JRL-N2 (2')

Lab Sample ID: 580-98313-2

Date Collected: 10/16/20 09:10 Date Received: 10/16/20 14:20

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	341218	10/20/20 14:07	CCH	TAL SEA

Client Sample ID: S-101620-JRL-N2 (2')

Lab Sample ID: 580-98313-2

Date Collected: 10/16/20 09:10 Date Received: 10/16/20 14:20

Percent Solids: 89.6

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341241	10/20/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	341246	10/20/20 19:34	T1W	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341035	10/18/20 05:16	DCV	TAL SEA

Client Sample ID: S-101620-JRL-N3 (4')

Lab Sample ID: 580-98313-3

Date Collected: 10/16/20 09:20 Date Received: 10/16/20 14:20

Matrix: Solid

Γ	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	341218	10/20/20 14:07	CCH	TAL SEA

Client Sample ID: S-101620-JRL-N3 (4')

Lab Sample ID: 580-98313-3

Matrix: Solid

Date Collected: 10/16/20 09:20 Date Received: 10/16/20 14:20

Percent Solids: 93.5

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341241	10/20/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	341246	10/20/20 19:59	T1W	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341035	10/18/20 05:41	DCV	TAL SEA

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Project/Site: Shell Harbor Island Fuel Terminal

Client Sample ID: S-101620-JRL-N4 (2') Lab Sample ID: 580-98313-4 **Matrix: Solid**

Date Collected: 10/16/20 09:30

Date Received: 10/16/20 14:20

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	341218	10/20/20 14:07	CCH	TAL SEA

Client Sample ID: S-101620-JRL-N4 (2')

Date Collected: 10/16/20 09:30

Date Received: 10/16/20 14:20

ed	Analyst	Lab
1:07	CCH	TAL SEA

341035 10/18/20 06:05 DCV

Lab Sample ID: 580-98313-4 Matrix: Solid Percent Solids: 91.2

Job ID: 580-98313-1

SDG: Products Release

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Lab Total/NA Prep 5035 341241 10/20/20 10:00 ASJ TAL SEA Total/NA Analysis 8260D 341246 10/20/20 20:24 T1W TAL SEA 5035 341041 10/17/20 15:13 DCV TAL SEA Total/NA Prep

Client Sample ID: S-101620-JRL-N5 (2')

NWTPH-Gx

Analysis

Date Collected: 10/16/20 09:50 Date Received: 10/16/20 14:20

Total/NA

Lab Sample ID: 580-98313-5

TAL SEA

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	341218	10/20/20 14:07	CCH	TAL SEA

Client Sample ID: S-101620-JRL-N5 (2')

Date Collected: 10/16/20 09:50 Date Received: 10/16/20 14:20

Lab Sample ID: 580-98313-5 **Matrix: Solid**

Percent Solids: 92.1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341316	10/16/20 15:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	341300	10/21/20 12:30	CJB	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341035	10/18/20 01:11	DCV	TAL SEA

Client Sample ID: S-101620-JRL-N6 (18")

Date Collected: 10/16/20 10:05

Date Received: 10/16/20 14:20

Lab Sample	ID: 580-98313-6
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Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	341218	10/20/20 14:07	CCH	TAL SEA

Client Sample ID: S-101620-JRL-N6 (18")

Date Collected: 10/16/20 10:05

Lab Sample ID: 580-98313-6 Matrix: Solid Date Received: 10/16/20 14:20 Percent Solids: 89.9

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341316	10/16/20 15:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	341300	10/21/20 12:55	CJB	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341035	10/18/20 01:35	DCV	TAL SEA

SDG: Products Release

Job ID: 580-98313-1

Client Sample ID: S-101620-JRL-N7 (4')

Date Collected: 10/16/20 10:15 Date Received: 10/16/20 14:20 Lab Sample ID: 580-98313-7

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	341218	10/20/20 14:07	CCH	TAL SEA

Client Sample ID: S-101620-JRL-N7 (4')

Date Collected: 10/16/20 10:15 Date Received: 10/16/20 14:20

Lab Sample ID: 580-98313-7 **Matrix: Solid**

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341316	10/16/20 15:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	341300	10/21/20 13:21	CJB	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341035	10/18/20 04:27	DCV	TAL SEA

Client Sample ID: S-101620-JRL-S1 (4')

Date Collected: 10/16/20 10:45 Date Received: 10/16/20 14:20

Lab Sample ID: 580-98313-8

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	341218	10/20/20 14:07	CCH	TAL SEA

Client Sample ID: S-101620-JRL-S1 (4')

Date Collected: 10/16/20 10:45

Date Received: 10/16/20 14:20

Lab Sample ID: 580-98313-8 **Matrix: Solid**

Percent Solids: 90.2

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341241	10/20/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	341246	10/20/20 22:03	T1W	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341035	10/18/20 06:30	DCV	TAL SEA

Date Received: 10/16/20 14:20

Client Sample ID: S-101620-JRL-S2 (4')	Lab Sample ID: 580-98313-9
Date Collected: 10/16/20 10:55	Matrix: Solid
Date Peceived: 10/16/20 1/1:20	

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	341218	10/20/20 14:07	CCH	TAL SEA

Client Sample ID: S-101620-JRL-S2 (4')

Date Collected: 10/16/20 10:55

Date Received: 10/16/20 14:20

Lab Sample ID: 580-98313-9

Matrix: Solid

10/22/2020

Percent Solids: 94.6

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341340	10/21/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	341342	10/21/20 13:08	ASJ	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341035	10/18/20 06:54	DCV	TAL SEA

Job ID: 580-98313-1 SDG: Products Release

Client Sample ID: S-101620-JRL-S3 (4')

Date Collected: 10/16/20 11:00 Date Received: 10/16/20 14:20 Lab Sample ID: 580-98313-10

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	341218	10/20/20 14:07	CCH	TAL SEA

Client Sample ID: S-101620-JRL-S3 (4')

Date Collected: 10/16/20 11:00

Date Received: 10/16/20 14:20

Lab Sample ID: 580-98313-10 **Matrix: Solid**

Percent Solids: 80.2

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341340	10/21/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	341342	10/21/20 13:32	ASJ	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341035	10/18/20 02:00	DCV	TAL SEA

Client Sample ID: S-101620-JRL-S4 (2')

Date Collected: 10/16/20 11:07

Date Received: 10/16/20 14:20

Lab Sample ID:	580-98313-11
	Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	341218	10/20/20 14:07	CCH	TAL SEA

Client Sample ID: S-101620-JRL-S4 (2')

Date Collected: 10/16/20 11:07

Date Received: 10/16/20 14:20

Lab Sample ID: 580-98313-11 **Matrix: Solid**

Lab Sample ID: 580-98313-12

Percent Solids: 81.6

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341241	10/20/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	341246	10/20/20 23:16	T1W	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341035	10/18/20 07:19	DCV	TAL SEA

Client Sample ID: S-101620-JRL-S5 (2')

Date Collected: 10/16/20 11:12	Matrix: Solid
Date Received: 10/16/20 14:20	

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	341218	10/20/20 14:07	CCH	TAL SEA

Client Sample ID: S-101620-JRL-S5 (2')

Date Collected: 10/16/20 11:12

Lab Sample ID: 580-98313-12 **Matrix: Solid** Date Received: 10/16/20 14:20 Percent Solids: 72.7

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341241	10/20/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	341246	10/20/20 23:41	T1W	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341035	10/18/20 11:18	DCV	TAL SEA

Client: GHD Services Inc.

Client Sample ID: S-101620-JRL-S6 (2')

Job ID: 580-98313-1 Project/Site: Shell Harbor Island Fuel Terminal SDG: Products Release

Lab Sample ID: 580-98313-13

Date Collected: 10/16/20 11:17 Date Received: 10/16/20 14:20 **Matrix: Solid**

Batch Dilution Batch Ratch Prepared Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab Total/NA 2540G 10/20/20 14:07 CCH TAL SEA Analysis 341218

Client Sample ID: S-101620-JRL-S6 (2') Lab Sample ID: 580-98313-13

Date Collected: 10/16/20 11:17 **Matrix: Solid** Date Received: 10/16/20 14:20 Percent Solids: 85.4

Batch Batch Dilution Batch **Prepared Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Lab 10/21/20 10:00 Total/NA Prep 5035 341340 ASJ TAL SEA Total/NA Analysis 8260D 341342 10/21/20 13:57 ASJ TAL SEA 1 5035 TAL SEA Total/NA Prep 341041 10/17/20 15:13 DCV Total/NA Analysis **NWTPH-Gx** 1 341035 10/18/20 02:25 DCV TAL SEA

Client Sample ID: S-101620-JRL-S7 (2') Lab Sample ID: 580-98313-14

Date Collected: 10/16/20 11:21 Date Received: 10/16/20 14:20

Batch **Batch** Dilution Batch **Prepared** Method **Prep Type** Type Run **Factor** Number or Analyzed Analyst Lab Total/NA 2540G 341218 10/20/20 14:07 ССН TAL SEA Analysis

Client Sample ID: S-101620-JRL-S7 (2') Lab Sample ID: 580-98313-14

Date Collected: 10/16/20 11:21 Matrix: Solid Date Received: 10/16/20 14:20 Percent Solids: 80.8

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341241	10/20/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	341246	10/21/20 00:30	T1W	TAL SEA
Total/NA	Prep	5035			341340	10/21/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	341342	10/21/20 14:22	ASJ	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341067	10/18/20 21:45	DCV	TAL SEA

Client Sample ID: S-101620-JRL-S8 (2') Lab Sample ID: 580-98313-15

Date Collected: 10/16/20 11:26 Date Received: 10/16/20 14:20

Batch Batch Dilution Batch **Prepared** Туре Method Run Factor Number or Analyzed **Prep Type** Analyst Lab 2540G 10/20/20 14:07 CCH TAL SEA Total/NA Analysis 341218

Client Sample ID: S-101620-JRL-S8 (2') Lab Sample ID: 580-98313-15

Date Collected: 10/16/20 11:26 **Matrix: Solid** Date Received: 10/16/20 14:20 Percent Solids: 78.5

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341241	10/20/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	341246	10/21/20 00:54	T1W	TAL SEA

Eurofins TestAmerica, Seattle

10/22/2020

Matrix: Solid

Matrix: Solid

Job ID: 580-98313-1 SDG: Products Release

Client Sample ID: S-101620-JRL-S8 (2')

Date Collected: 10/16/20 11:26 Date Received: 10/16/20 14:20 Lab Sample ID: 580-98313-15

Matrix: Solid

Percent Solids: 78.5

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341340	10/21/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	341342	10/21/20 14:46	ASJ	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341067	10/18/20 20:56	DCV	TAL SEA

Client Sample ID: S-101620-JRL-S9 (2')

Date Collected: 10/16/20 11:30

Lab Sample ID: 580-98313-16

Matrix: Solid

Date Received: 10/16/20 14:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	341218	10/20/20 14:07	CCH	TAL SEA

Client Sample ID: S-101620-JRL-S9 (2')

Date Collected: 10/16/20 11:30

Date Received: 10/16/20 14:20

Lab Sample ID: 580-98313-16 **Matrix: Solid**

Percent Solids: 77.2

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341340	10/21/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	341342	10/21/20 15:11	ASJ	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341035	10/18/20 02:49	DCV	TAL SEA

Client Sample ID: S-101620-JRL-S10 (2')

Date Collected: 10/16/20 11:36

Date Received: 10/16/20 14:20

Lab	Sample	ID:	58	0-983	13-17

Lab Sample ID: 580-98313-17

Lab Sample ID: 580-98313-18

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	341218	10/20/20 14:07	CCH	TAL SEA

Client Sample ID: S-101620-JRL-S10 (2')

Date Collected: 10/16/20 11:36

Matrix: Solid Date Received: 10/16/20 14:20 Percent Solids: 86.2

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341241	10/20/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	341246	10/21/20 01:44	T1W	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341067	10/18/20 21:20	DCV	TAL SEA

Client Sample ID: S-101620-JRL-S11 (WW)

Da

Date Collected: 10/16/20 11:41		Matrix: Solid
Date Received: 10/16/20 14:20		
-		

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G			341218	10/20/20 14:07	CCH	TAL SEA

TAL SEA

Lab Sample ID: 580-98313-18

Matrix: Solid Percent Solids: 94.5

Job ID: 580-98313-1

SDG: Products Release

Client Sample ID: S-101620-JRL-S11 (WW)

Date Collected: 10/16/20 11:41 Date Received: 10/16/20 14:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341340	10/21/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	341342	10/21/20 15:36	ASJ	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341035	10/18/20 03:14	DCV	TAL SEA

Client Sample ID: S-101620-JRL-S12 (EW)

Lab Sample ID: 580-98313-19 **Matrix: Solid**

Date Collected: 10/16/20 11:46 Date Received: 10/16/20 14:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	341218	10/20/20 14:07	CCH	TAL SEA

Client Sample ID: S-101620-JRL-S12 (EW)

Lab Sample ID: 580-98313-19 Date Collected: 10/16/20 11:46 **Matrix: Solid** Date Received: 10/16/20 14:20 Percent Solids: 92.5

Batch Batch Dilution Batch Prepared **Prep Type** Method Number Type Run **Factor** or Analyzed Analyst Lab Total/NA 5035 341316 10/16/20 15:00 CJB TAL SEA Prep Total/NA Analysis 8260D 341300 10/21/20 13:46 CJB TAL SEA Total/NA Prep 5035 341041 10/17/20 15:13 DCV TAL SEA

Client Sample ID: S-101620-JRL-S13 (SW)

NWTPH-Gx

Analysis

Lab Sample ID: 580-98313-20 Date Collected: 10/16/20 11:52 **Matrix: Solid**

1

341035 10/18/20 00:46 DCV

Date Received: 10/16/20 14:20

Total/NA

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	341218	10/20/20 11:29	CCH	TAL SEA

Client Sample ID: S-101620-JRL-S13 (SW) Lab Sample ID: 580-98313-20

Date Collected: 10/16/20 11:52 **Matrix: Solid** Date Received: 10/16/20 14:20 Percent Solids: 95.5

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			341316	10/16/20 15:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	341300	10/21/20 14:12	CJB	TAL SEA
Total/NA	Prep	5035			341041	10/17/20 15:13	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	341035	10/18/20 04:02	DCV	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: GHD Services Inc.

Project/Site: Shell Harbor Island Fuel Terminal

Job ID: 580-98313-1 SDG: Products Release

Laboratory: Eurofins TestAmerica, Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pre	ogram	Identification Number	Expiration Date		
Washington	Sta	ate	C553	02-18-21		
The following analyte:	s are included in this repo	ort but the laboratory is r	not certified by the governing authority.	This list may include analytes for wh		
,		it, but the laboratory to t	not defined by the governing duthonty.	This list may include analytes for wi		
the agency does not o	offer certification.	•	, , ,	This list may include analytes for wi		
,		Matrix Solid	Analyte Percent Moisture	This list may include analytes for wi		

Sample Summary

Client: GHD Services Inc.

Project/Site: Shell Harbor Island Fuel Terminal

Job ID: 580-98313-1 SDG: Products Release

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-98313-1	S-101620-JRL-N1 (3')	Solid	10/16/20 08:55	10/16/20 14:20
580-98313-2	S-101620-JRL-N2 (2')	Solid	10/16/20 09:10	10/16/20 14:20
580-98313-3	S-101620-JRL-N3 (4')	Solid	10/16/20 09:20	10/16/20 14:20
580-98313-4	S-101620-JRL-N4 (2')	Solid	10/16/20 09:30	10/16/20 14:20
580-98313-5	S-101620-JRL-N5 (2')	Solid	10/16/20 09:50	10/16/20 14:20
580-98313-6	S-101620-JRL-N6 (18")	Solid	10/16/20 10:05	10/16/20 14:20
580-98313-7	S-101620-JRL-N7 (4')	Solid	10/16/20 10:15	10/16/20 14:20
580-98313-8	S-101620-JRL-S1 (4')	Solid	10/16/20 10:45	10/16/20 14:20
580-98313-9	S-101620-JRL-S2 (4')	Solid	10/16/20 10:55	10/16/20 14:20
580-98313-10	S-101620-JRL-S3 (4')	Solid	10/16/20 11:00	10/16/20 14:20
580-98313-11	S-101620-JRL-S4 (2')	Solid	10/16/20 11:07	10/16/20 14:20
580-98313-12	S-101620-JRL-S5 (2')	Solid	10/16/20 11:12	10/16/20 14:20
580-98313-13	S-101620-JRL-S6 (2')	Solid	10/16/20 11:17	10/16/20 14:20
580-98313-14	S-101620-JRL-S7 (2')	Solid	10/16/20 11:21	10/16/20 14:20
580-98313-15	S-101620-JRL-S8 (2')	Solid	10/16/20 11:26	10/16/20 14:20
580-98313-16	S-101620-JRL-S9 (2')	Solid	10/16/20 11:30	10/16/20 14:20
580-98313-17	S-101620-JRL-S10 (2')	Solid	10/16/20 11:36	10/16/20 14:20
580-98313-18	S-101620-JRL-S11 (WW)	Solid	10/16/20 11:41	10/16/20 14:20
580-98313-19	S-101620-JRL-S12 (EW)	Solid	10/16/20 11:46	10/16/20 14:20
580-98313-20	S-101620-JRL-S13 (SW)	Solid	10/16/20 11:52	10/16/20 14:20

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Eurofins TestAmerica, Seattle

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

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Environment Testing America

Phone: 253-922-2310 Fax: 253-922-5047									
Client Information	Sampler: OK (Kurdubau)	Lab PM: Cisneros, Roxa		Tracking No(s):	COC No: 580-40649-12999.1				
Client Contact: Jeff Gaarder	Phone: 281-389-7025	E-Mail: roxanne.cisnero	os@Eurofinset.com		Page: Page 1 of 2				
Company: GHD Services Inc.			Analysis Request	ed	^{Job#} 98313				
Address: 20818 44th Ave W Suite 190	Due Date Requested:			1	Preservation Codes: A - HCL M - Hexane				
City: Lynnwood	TAT Requested (days):				B - NaOH N - None				
State, Zip: WA, 98036	JRR Sow			C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 O - Na2SO3					
Phone:	PO #: 4036058		580-98313 Chain of Custody		F - MeOH R - Na2\$203 G - Amchlor S - H2\$04				
Email:	WO #:				H - Ascorbic Acid				
jeff.gaarder@ghd.com Project Name:	11208654-38-002468 Project #:	e (Yes or No)			K - EDTA W - pH 4-5 L - EDA Z - other (specify)				
Shell - Washington Site:	58013920 SSOW#:				Other:				
		A Samp							
	Sample Type	Matrix (W=water, S=solid, O=west-folit, EHE et de l'O=west-folit, EHE et de l'O=west-folit, EHE et de l'O=west-folit et de l'O=west-folit et de l'O=west-folit et de l'O=west-folit et d'avec de l'O=west-folit et d'avec d			j				
Sample Identification	Sample (C=comp, Sample Date Time G=grab)	S=solid, O=waste/oil, D=waste/oil, DT=Tissue, A=Air)		Total	Special Instructions/Note:				
		tion Code: XXF							
S-101620-JRL-N1 (3')	10-16-20 0855 G	Solid X		L.					
9-1-1-N2(2')	1 0910	Solid 🗶							
S- - - N3 (4')	0920	Solid X							
S N4 (2')	0930	Solid		Therm. ID: <u>41</u>	Cor: 7.1 ° Unc: 9,6 °				
8N2(2.)	0950	Solid 💢		Packing:	FedEx:				
S Nb(18")	1005	Solid X		Cust. Seal: YesBlue Ice, Web Dr.	2 S S S S S S S S S S S S S S S S S S S				
9 N7 (4')	1015	Solid X		-					
S S1 (4)	1045	Solid 🗙		Therm. ID: Rle	2 Cor: 14.5° Unc: 15.4°—				
S S2 (4')	1055	Solid X		Cooler Dsc:	FedEx:				
S- \ - \ - \$3 (4')	W 1100 W	Solid X		Packing: Prof.	a, a leala.				
S- V - 1-34(2')	V 1107 V	Solid		Blue Ice Wet Dry					
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Pois	on B Unknown Radiological		Disposal (A fee may be assesse eleturn To Client Disposa	ed if					
Deliverable Requested: I, II, III, IV, Other (specify)	Tadologica		Instructions/QC Requirements:	. = 7 = CC	THORNO.				
Empty Kit Relinquished by:	Date:	Time:	Me /	ethod of Shipment:					
Relinquished by:	Date/Time: 10 -/6 - 20	Company Received	ived by:	Date/Time: 10 /16/2	o 1420 Company TA-Sea				
Relinquished by:	Date/Time:	Company Receiv	ived by:	Date/Time:	Company				
Relinquished by:	Date/Time:	Company Receiv	ived by:	Date/Time:	Company				
Custody Seals Intact: Custody Seal No.:		Cooler	Cooler Temperature(s) °C and Other Remarks:						
A Yes A No									

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Ver: 01/16/2019 0/22/2020

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

💸 eurofins

Environment Testing America

Client Information	Sampler: On	LANG	MOGUL	Lab Cis	РМ; sneros, F	loxanne	:				Carrier	Trackin	g No(s)	i .		COC No: 580-40649-12	999.2
Client Contact: Jeff Gaarder	Phone: 75	21-38	9-70	VS FOX	lail: anne.cis	neros@	Eurof	inset.c	com								
Company: GHD Services Inc.		**			T					s Req	uest	ed		-1		Page 2 of 2 Job #:	98313
Address: 20818 44th Ave W. Suite 190	Due Date Request	ted:	************						1			1				Preservation C	
City	TAT Requested (d	• •	11				İ							A - HCL B - NaOH	M - Hexane N - None		
Lynnwood State, Zip:	- C1	en s												C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S		
WA, 98036 Phone:	P0 #:				411											E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
	4036058				Jel I				ľ							G - Amchlor H - Ascorbic Acid	
^{Email:} jeff.gaarder@ghd.com	wo #: 11208654-38-0	02468			<u> </u>										90	I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: Shell - Washington	Project #: 58013920		***************************************		اةِ إِقَّالَ										ainer	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site:	SSOW#:		······································		Field Filtered Sample (Yes or No Perform MSMSD (Yes or No)	×								İ	E CO	Other:	
				Matrix	S S S	8260D, NWTPH_Gx	ŀ								ŏ		
			Sample Type	(W=water, S=solid,	Filtered m MSR	W									Ę		
Sample Identification	Sample Date	Sample Time	(C=comp, G=grab)	S=soad, O≂waste/oil, B1=Tissue, A≏Air	異く	2600									Total	Special	Instructions/Note:
	X	> <		ition Code:	奴	F						1			文	Special	instructions/vote.
3-101620 - JRL - 85 (2')	10-16-20	1112	વ	Solid		X									4		
S-1-1-S6 (21)	1	1117	1	Solid		X									ī		
9- - - \$7 (2')		1121		Solid		χ								7			
S- - -88 (z')		1126		Solid	111	V											
S- / - -S9 (2')		1130		Solid	†	χI					\top	\top		_			
S- V - S 10 (2')	1 1/	1136	$\neg V$	Solid		<i>i</i>						+	\vdash	\dashv	7	4	
5- - - S/1 (WW)	Ì	1141	1	Solid	╂╂╌	ケ怈		\dashv	+	+	+	-			1		*******
S - - S12 (EW)		1146		Solid	╂╂┼			+		++				+			
S-1/ - V - S13 (SW)	+	152	-1/-	Solid	╂╋┷	$\overline{\chi}$	+	+	-	++	-			-			
0=0 - 0 313(3W)	V	1196	-V		╂╂╌╏	\hookrightarrow	-	 -		+	-	+	-	_	-		
					$H \rightarrow H$					╂╌╂	-	-			+		
Possible Hazard Identification		<u>l</u>			Sam	nle Dis	posa	(Δ fe	e mav	he ass	50000	d if ca	mnles	. 250	etain	ed longer than	f month)
Non-Hazard Flammable Skin Irritant Pois	son B Unkno	own 🗆 R	adiological			Retun	n To (Client]	Dis	sposal	By La	b			nive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)					Spec	ial Instr	uction	is/QC									
Empty Kit Relinquished by:		Date:			Time:			-		/	Me	thod of	Snipmer	nt:			· · · · · · · · · · · · · · · · · · ·
Relinquished by:	Date/Time:			Company H1)	eceived	1000	\overline{J}	37.		K		Date/Ti	me:	12/0	/20 742	Company
Relinquished by:	Date/Time:			Company		eceived b		_		<u>, - \</u>	Date/Time:					<u> </u>	Company
Relinquished by:	Date/Time:		Company		Received by:				Date/Time:						Company		
Custody Seals Intact: Custody Seal No.:						ooler Ten											

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Ver: 01/16/2019 0/22/2020



TestAmerica Seattle 5755 8th Street E. Tacoma, WA 98424 Tel. 253-922-2310 Fax 253-922-5047 www.testamericainc.com

Rush	
	Chain of
Short Hold	Custody Record

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stody Record	

Client GHD		Client (M	200	95	, (800	Z)a	N/N	3 22	sh	ل)efi	F E)] AA	ever	Date	10	-16	-Tu)	Chain of Custod	y Number 3 (9464
Address		Telepho	one N	lumbe	er (Are	ea Coo	e)/Fax	Numi	ber					•	<u> </u>		Lab Nui 9	mber 83	13			Page	of _	
City State Z	ip Code	Sample	U		ANI	xow.	4	b Con		XΑ	シト	JR.		8 % 6 % 5 %	8	Analy more	rsis (Atta	ach list	if					
Project Name and Location (State) SHEW WASHINGTON, HARD	BOR ISUAND	Billing (Conta	act									_ d:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 >	The same manufacture of the same state of the sa							al Instruct	
Contract/Purchase Order/Quote No. Po# 4036058				M	atrix				Con Pres	itaine serva	rs & tives	;	- 1 2	S S	S. T.							Condi	tions of Re	eceipt
Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2S04	ниоз	HCI	МаОН	ZnAc/ NaOH	Vec's	Sycc's A	PLRAS META	**************************************								
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Cooler Possible Poss	│ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │	able 🗆	Skii	in Irrit	ant		Poisoi	ı B] Un	know		ample l Retur				Disposal Irchive I	-)	Mc	onths	(A fee may be are retained		
Turn Around Time Required (business days)		□ o						QC F	Requi	ireme	ents (Specit	fy)	7										
1. Relinquished By Sign/Print	lays 15 Days	Date		70	Time)		1. Re	eceiv		اکسا	gn/kr	Thi J	f	1		>					Date / 10/16/-	Time /	1420
2. Relinquished By Sign/Print		Date			Time	<u>, , , , , , , , , , , , , , , , , , , </u>		2. Re	eceiv			gn/Pr	int C	·	~~()	***************************************	AAAAA				Date	Time	A CONTRACTOR OF THE PARTY OF TH
3. Relinquished By Sign/Print		Date			Time			3. Re	eceiv	ed By	/ Sig	gn/Pri	int			***************************************				<u> </u>		Date	Time	
Comments		<u> </u>						*****		***************************************		F24447-4447-4447-74			*************************************							<u></u>		

Client: GHD Services Inc.

Job Number: 580-98313-1 SDG Number: Products Release

List Source: Eurofins TestAmerica, Seattle

Login Number: 98313

List Number: 1

Creator: Blankinship, Tom X

Creator. Dialikiliship, Tolli A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	Refer to Job Narrative for details.
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins TestAmerica, Seattle

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-98601-1

Laboratory SDG: 2555 13th Ave, Seattle, WA

Client Project/Site: Shell Harbor Island Fuel Terminal

Revision: 1

For:

GHD Services Inc. 20818 44th Ave W Suite 190 Lynnwood, Washington 98036

Attn: Jeff Gaarder

Roxanne Cisneros

Authorized for release by: 11/12/2020 3:11:25 PM

Roxanne Cisneros, Senior Project Manager (615)301-5761

roxanne.cisneros@Eurofinset.com

LINKS

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Total Access

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: GHD Services Inc.

Project/Site: Shell Harbor Island Fuel Terminal SDG

SDG: 2555 13th Ave, Seattle, WA

Job ID: 580-98601-1

Job ID: 580-98601-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative 580-98601-1

Comments

Revised Report 11/12/2020: Samples S-102820-JRL-S17 (4') (580-98601-4), S-102820-JRL-S19 (3') (580-98601-6) and S-102820-JRL-S21 (3') (580-98601-8) may have been non-homogeneous. The sample labels were verified and weren't switche Some analytes were E-flagged at low level (above the upper calibration limit), so the low level FW value is estimated and could I reading low - in those cases the high level FM (Methanol) run is the most accurate as the result is within calibration range and the is what is reported.

Receipt

The samples were received on 10/29/2020 11:35 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

Method 8260D: The following sample was analyzed at reduced volume due to high concentrations of target analytes: S-102820-JRL-S15 (4') (580-98601-2). The calculation was performed using an initial volume adjustment rather than a dilution factor. The reporting limits have been elevated by the appropriate factor.

Method 8260D: Target analyte hits may be results of carryover from the samples analyzed previously. There is no volume remaining for reanalysis. S-102820-JRL-S19 (3') (580-98601-6) and S-102820-JRL-S21 (3') (580-98601-8)

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-341993 and analytical batch 580-341968 recovered outside control limits for the following analytes: Xylenes, Total.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method NWTPH-Gx: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: Surrogate 4-Bromofluorobenzene (Surr) failed to add from the autosampler for the CCVRT. An additional surrogate was added manually, Trifluorotoluene (Surr), and it passes acceptance criteria. As the method only requires one surrogate, TFT is used to pass this criteria for the CCV.

Method NWTPH-Gx: Surrogate recovery for the following samples were outside control limits: S-102820-JRL-S14 (4') (580-98601-1) and S-102820-JRL-S16 (4') (580-98601-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

Method 5035: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: S-102820-JRL-S14 (4') (580-98601-1), S-102820-JRL-S15 (4') (580-98601-2), S-102820-JRL-S16 (4') (580-98601-3), S-102820-JRL-S17 (4') (580-98601-4), S-102820-JRL-S18 (4') (580-98601-5), S-102820-JRL-S19 (3') (580-98601-6), S-102820-JRL-S20 (3") (580-98601-7), S-102820-JRL-S21 (3') (580-98601-8) and S-102820-JRL-S22 (3') (580-98601-9). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 10g. The amount provided was below this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: GHD Services Inc.

Job ID: 580-98601-1

Project/Site: Shell Harbor Island Fuel Terminal SDG: 2555 13th Ave, Seattle, WA

Qualifiers

GC VOA

Qualifier Qualifier Description

X Surrogate recovery exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Eurofins TestAmerica, Seattle

Client: GHD Services Inc. Job ID: 580-98601-1 Project/Site: Shell Harbor Island Fuel Terminal SDG: 2555 13th Ave, Seattle, WA

Client Sample ID: S-102820-JRL-S14 (4')

Date Collected: 10/28/20 14:15 Date Received: 10/29/20 11:35 Lab Sample ID: 580-98601-1

Matrix: Solid Percent Solids: 94.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	29.6		0.882		mg/Kg	— <u></u>	10/30/20 10:00	10/30/20 13:30	1
Toluene	119		4.41		mg/Kg	☆	10/30/20 10:00	10/30/20 13:30	1
Ethylbenzene	ND		1.18		mg/Kg	☆	10/30/20 10:00	10/30/20 13:30	1
m-Xylene & p-Xylene	ND		5.88		mg/Kg	☆	10/30/20 10:00	10/30/20 13:30	1
o-Xylene	ND		1.76		mg/Kg	☆	10/30/20 10:00	10/30/20 13:30	1
Xylenes, Total	ND		5.88		mg/Kg	≎	10/30/20 10:00	10/30/20 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)			80 - 120				10/30/20 10:00	10/30/20 13:30	1
4-Bromofluorobenzene (Surr)	114		80 - 120				10/30/20 10:00	10/30/20 13:30	1
Dibromofluoromethane (Surr)	97		80 - 120				10/30/20 10:00	10/30/20 13:30	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 121				10/30/20 10:00	10/30/20 13:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1870		13.7		mg/Kg	-	10/30/20 09:19	10/30/20 11:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	169	X	50 - 150				10/30/20 09:19	10/30/20 11:13	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.3		0.1		%			10/29/20 15:28	1

Client Sample ID: S-102820-JRL-S15 (4')

Date Collected: 10/28/20 14:25 Date Received: 10/29/20 11:35

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

1,2-Dichloroethane-d4 (Surr)

Lab Sample ID: 580-98601-2

10/30/20 10:00 10/30/20 17:29

10/30/20 10:00 10/30/20 17:29

10/30/20 10:00 10/30/20 17:29

Matrix: Solid Percent Solids: 95.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8.95		0.0795		mg/Kg	<u></u>	10/30/20 10:00	10/30/20 13:56	1
Ethylbenzene	0.725		0.106		mg/Kg	₩	10/30/20 10:00	10/30/20 13:56	1
m-Xylene & p-Xylene	2.36		0.530		mg/Kg	₩	10/30/20 10:00	10/30/20 13:56	1
o-Xylene	0.535		0.159		mg/Kg	₩	10/30/20 10:00	10/30/20 13:56	1
Xylenes, Total	2.90		0.530		mg/Kg	₽	10/30/20 10:00	10/30/20 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	115		80 - 120				10/30/20 10:00	10/30/20 13:56	1
4-Bromofluorobenzene (Surr)	109		80 - 120				10/30/20 10:00	10/30/20 13:56	1
Dibromofluoromethane (Surr)	99		80 - 120				10/30/20 10:00	10/30/20 13:56	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 121				10/30/20 10:00	10/30/20 13:56	1
Method: 8260D - Volatile O	rganic Compo	unds by G	C/MS - DL						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	70.2		4.27		mg/Kg	₩	10/30/20 10:00	10/30/20 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)		-	80 - 120				10/30/20 10:00	10/30/20 17:29	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	728		13.2		mg/Kg	*	10/30/20 09:19	10/30/20 11:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		50 - 150				10/30/20 09:19	10/30/20 11:38	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.5		0.1		%			10/29/20 15:28	1
Percent Moisture	4.5		0.1		%			10/29/20 15:28	1

80 - 120

80 - 120

80 - 121

105

98

104

Client: GHD Services Inc. Job ID: 580-98601-1 Project/Site: Shell Harbor Island Fuel Terminal SDG: 2555 13th Ave, Seattle, WA

Client Sample ID: S-102820-JRL-S16 (4')

Date Collected: 10/28/20 14:35 Date Received: 10/29/20 11:35

4-Bromofluorobenzene (Surr)

General Chemistry

Analyte

Percent Solids

Percent Moisture

Lab Sample ID: 580-98601-3

10/30/20 09:19 10/30/20 12:03

Analyzed

10/29/20 15:28

10/29/20 15:28

Matrix: Solid

Percent Solids: 94.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	7.61		0.922		mg/Kg	<u></u>	10/30/20 10:00	10/30/20 14:23	1
Toluene	13.4		4.61		mg/Kg	₩	10/30/20 10:00	10/30/20 14:23	1
Ethylbenzene	ND		1.23		mg/Kg	₩	10/30/20 10:00	10/30/20 14:23	•
m-Xylene & p-Xylene	ND		6.15		mg/Kg	₩	10/30/20 10:00	10/30/20 14:23	1
o-Xylene	ND		1.84		mg/Kg	₩	10/30/20 10:00	10/30/20 14:23	1
Xylenes, Total	ND		6.15		mg/Kg	₽	10/30/20 10:00	10/30/20 14:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Toluene-d8 (Surr)	105		80 - 120				10/30/20 10:00	10/30/20 14:23	
4-Bromofluorobenzene (Surr)	119		80 - 120				10/30/20 10:00	10/30/20 14:23	1
Dibromofluoromethane (Surr)	103		80 - 120				10/30/20 10:00	10/30/20 14:23	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 121				10/30/20 10:00	10/30/20 14:23	
Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	n Products (GC)					
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2020		14.3		mg/Kg	<u></u>	10/30/20 09:19	10/30/20 12:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

50 - 150

RL

0.1

0.1

MDL Unit

%

%

D

Prepared

215 X

94.7

5.3

Result Qualifier

Eurofins	TestAmerica,	Seattle

11/12/2020 (Rev. 1)

Dil Fac

Percent Solids

Percent Moisture

Client Sample ID: S-102820-JRL-S17 (4')

Date Collected: 10/28/20 14:40 Date Received: 10/29/20 11:35

Lab Sample ID: 580-98601-4

Matrix: Solid

Percent Solids: 93.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0755		mg/Kg	— <u></u>	10/30/20 10:00	10/30/20 14:49	1
Toluene	0.384		0.377		mg/Kg	≎	10/30/20 10:00	10/30/20 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		80 - 120				10/30/20 10:00	10/30/20 14:49	1
4-Bromofluorobenzene (Surr)	105		80 - 120				10/30/20 10:00	10/30/20 14:49	1
Dibromofluoromethane (Surr)	103		80 - 120				10/30/20 10:00	10/30/20 14:49	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 121				10/30/20 10:00	10/30/20 14:49	1
Method: 8260D - Volatile O	rganic Compo	unds by G	C/MS - RA						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00553		0.00238		mg/Kg	₩	10/29/20 12:30	10/30/20 18:01	1
m-Xylene & p-Xylene	ND		0.0119		mg/Kg	≎	10/29/20 12:30	10/30/20 18:01	1
o-Xylene	ND		0.00594		mg/Kg	≎	10/29/20 12:30	10/30/20 18:01	1
Xylenes, Total	ND		0.0119		mg/Kg	≎	10/29/20 12:30	10/30/20 18:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120				10/29/20 12:30	10/30/20 18:01	1
4-Bromofluorobenzene (Surr)	97		80 - 120				10/29/20 12:30	10/30/20 18:01	1
Dibromofluoromethane (Surr)	97		80 - 120				10/29/20 12:30	10/30/20 18:01	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 121				10/29/20 12:30	10/30/20 18:01	1
Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleui	n Products (GC)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	237		12.6		mg/Kg	*	10/30/20 09:19	10/30/20 12:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		50 - 150				10/30/20 09:19	10/30/20 12:27	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac

0.1

0.1

%

93.9

6.1

10/29/20 15:28

10/29/20 15:28

Client Sample Results

Client: GHD Services Inc. Job ID: 580-98601-1 Project/Site: Shell Harbor Island Fuel Terminal SDG: 2555 13th Ave, Seattle, WA

Client Sample ID: S-102820-JRL-S18 (4')

Date Collected: 10/28/20 14:45 Date Received: 10/29/20 11:35 Lab Sample ID: 580-98601-5

Matrix: Solid Percent Solids: 93.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	MD		0.0691		mg/Kg	— <u></u>	10/30/20 10:00	10/30/20 15:16	1
Toluene	ND		0.345		mg/Kg	₩	10/30/20 10:00	10/30/20 15:16	1
Ethylbenzene	ND		0.0921		mg/Kg	₩	10/30/20 10:00	10/30/20 15:16	1
m-Xylene & p-Xylene	ND		0.460		mg/Kg	₩	10/30/20 10:00	10/30/20 15:16	1
o-Xylene	ND		0.138		mg/Kg	₩	10/30/20 10:00	10/30/20 15:16	1
Xylenes, Total	ND		0.460		mg/Kg	₩	10/30/20 10:00	10/30/20 15:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		80 - 120				10/30/20 10:00	10/30/20 15:16	1
4-Bromofluorobenzene (Surr)	102		80 - 120				10/30/20 10:00	10/30/20 15:16	1
Dibromofluoromethane (Surr)	105		80 - 120				10/30/20 10:00	10/30/20 15:16	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 121				10/30/20 10:00	10/30/20 15:16	1

Method: NWTPH-Gx - North	west - Volatile	e Petroleur	m Products (GC)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		11.5		mg/Kg	<u></u>	10/30/20 09:19	10/30/20 12:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		50 - 150				10/30/20 09:19	10/30/20 12:52	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.5		0.1		%			10/29/20 15:28	1
Percent Moisture	6.5		0.1		%			10/29/20 15:28	1

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Date Collected: 10/28/20 14:50

Date Received: 10/29/20 11:35

Project/Site: Shell Harbor Island Fuel Terminal

Client Sample ID: S-102820-JRL-S19 (3')

Lab Sample ID: 580-98601-6

Matrix: Solid

Percent Solids: 93.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	14.5		0.418		mg/Kg	<u></u>	10/30/20 10:00	10/30/20 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	113		80 - 120				10/30/20 10:00	10/30/20 15:42	1
4-Bromofluorobenzene (Surr)	101		80 - 120				10/30/20 10:00	10/30/20 15:42	1
Dibromofluoromethane (Surr)	104		80 - 120				10/30/20 10:00	10/30/20 15:42	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 121				10/30/20 10:00	10/30/20 15:42	1
Method: 8260D - Volatile O	rganic Compo	unds by G	C/MS - RA						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0858		0.00240		mg/Kg	<u></u>	10/29/20 12:30	10/30/20 18:26	1
Ethylbenzene	0.0331		0.00240		mg/Kg	≎	10/29/20 12:30	10/30/20 18:26	1
					11.6		10/00/00 10 00	10/00/00 10 00	
m-Xylene & p-Xylene	0.0928		0.0120		mg/Kg	₩	10/29/20 12:30	10/30/20 18:26	1

	Xylenes, Total	0.122	0.0120	mg/Kg ☆	10/29/20 12:30	10/30/20 18:26	1
	Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
	Toluene-d8 (Surr)	102	80 - 120		10/29/20 12:30	10/30/20 18:26	1
	4-Bromofluorobenzene (Surr)	108	80 - 120		10/29/20 12:30	10/30/20 18:26	1
ı	Dibromofluoromethane (Surr)	96	80 - 120		10/29/20 12:30	10/30/20 18:26	1
	1,2-Dichloroethane-d4 (Surr)	105	80 - 121		10/29/20 12:30	10/30/20 18:26	1

Method: NWTPH-Gx - Northy	vest - Volatile	Petroleui	m Products (GC)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	85.2		13.9		mg/Kg	≎	10/30/20 09:19	10/30/20 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150				10/30/20 09:19	10/30/20 13:16	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.0		0.1		%			10/29/20 15:28	1
Percent Moisture	7.0		0.1		%			10/29/20 15:28	1

Job ID: 580-98601-1 Project/Site: Shell Harbor Island Fuel Terminal SDG: 2555 13th Ave, Seattle, WA

Client Sample ID: S-102820-JRL-S20 (3')

Date Collected: 10/28/20 14:55 Date Received: 10/29/20 11:35

Lab Sample ID: 580-98601-7

Matrix: Solid Percent Solids: 94.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0767		mg/Kg	<u></u>	10/30/20 10:00	10/30/20 16:09	1
Toluene	ND		0.384		mg/Kg	₩	10/30/20 10:00	10/30/20 16:09	1
Ethylbenzene	ND		0.102		mg/Kg	₩	10/30/20 10:00	10/30/20 16:09	1
m-Xylene & p-Xylene	ND		0.511		mg/Kg	₩	10/30/20 10:00	10/30/20 16:09	1
o-Xylene	ND		0.153		mg/Kg	₩	10/30/20 10:00	10/30/20 16:09	1
Xylenes, Total	ND		0.511		mg/Kg	≎	10/30/20 10:00	10/30/20 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)			80 - 120				10/30/20 10:00	10/30/20 16:09	1
4-Bromofluorobenzene (Surr)	102		80 - 120				10/30/20 10:00	10/30/20 16:09	1
Dibromofluoromethane (Surr)	105		80 - 120				10/30/20 10:00	10/30/20 16:09	1
1,2-Dichloroethane-d4 (Surr)	108		80 - 121				10/30/20 10:00	10/30/20 16:09	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		12.8	mg/Kg	*	10/30/20 09:19	10/30/20 13:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 150			10/30/20 09:19	10/30/20 13:41	1

General Chemistry							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.1	0.1	%			10/29/20 15:28	1
Percent Moisture	5.9	0.1	%			10/29/20 15:28	1

Toluene-d8 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Job ID: 580-98601-1 Project/Site: Shell Harbor Island Fuel Terminal SDG: 2555 13th Ave, Seattle, WA

Client Sample ID: S-102820-JRL-S21 (3')

Date Collected: 10/28/20 15:00 Date Received: 10/29/20 11:35

Lab Sample ID: 580-98601-8

<u>10/29/20 12:30</u> <u>10/30/20 18:52</u>

10/29/20 12:30 10/30/20 18:52

10/29/20 12:30 10/30/20 18:52

Matrix: Solid Percent Solids: 69.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.766		0.106		mg/Kg	<u></u>	10/30/20 10:00	10/30/20 16:35	1
Toluene	14.5		0.531		mg/Kg	☼	10/30/20 10:00	10/30/20 16:35	1
m-Xylene & p-Xylene	19.8		0.708		mg/Kg	☼	10/30/20 10:00	10/30/20 16:35	1
o-Xylene	7.78		0.212		mg/Kg	₩	10/30/20 10:00	10/30/20 16:35	1
Xylenes, Total	27.6		0.708		mg/Kg	₩	10/30/20 10:00	10/30/20 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 120				10/30/20 10:00	10/30/20 16:35	1
4-Bromofluorobenzene (Surr)	103		80 - 120				10/30/20 10:00	10/30/20 16:35	1
Dibromofluoromethane (Surr)	104		80 - 120				10/30/20 10:00	10/30/20 16:35	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 121				10/30/20 10:00	10/30/20 16:35	1
Method: 8260D - Volatile O	rganic Compo	unds by G	C/MS - RA						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.0484		0.00286		mg/Kg	☆	10/29/20 12:30	10/30/20 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1,2-Dichloroethane-d4 (Surr)	108		80 - 121				10/29/20 12:30	10/30/20 18:52	1
Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleu	m Products (GC)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	852		17.7		mg/Kg	*	10/30/20 09:19	10/30/20 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		50 - 150				10/30/20 09:19	10/30/20 14:30	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	69.1		0.1		%			10/29/20 15:28	1
Percent Moisture	30.9		0.1		%			10/29/20 15:28	1

80 - 120

80 - 120

80 - 120

101

109

96

Client Sample ID: S-102820-JRL-S22 (3')

Date Collected: 10/28/20 15:05 Date Received: 10/29/20 11:35

Lab Sample ID: 580-98601-9

Matrix: Solid Percent Solids: 92.3

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0830		mg/Kg	— <u></u>	10/30/20 10:00	10/30/20 17:02	1
Toluene	ND		0.415		mg/Kg	☆	10/30/20 10:00	10/30/20 17:02	1
Ethylbenzene	ND		0.111		mg/Kg	≎	10/30/20 10:00	10/30/20 17:02	1
m-Xylene & p-Xylene	ND		0.553		mg/Kg	₩	10/30/20 10:00	10/30/20 17:02	1
o-Xylene	ND		0.166		mg/Kg	≎	10/30/20 10:00	10/30/20 17:02	1
Xylenes, Total	ND		0.553		mg/Kg	₽	10/30/20 10:00	10/30/20 17:02	1
Surrogate	%Recovery (Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120				10/30/20 10:00	10/30/20 17:02	1
4-Bromofluorobenzene (Surr)	119		80 - 120				10/30/20 10:00	10/30/20 17:02	1
Dibromofluoromethane (Surr)	104		80 - 120				10/30/20 10:00	10/30/20 17:02	1
1,2-Dichloroethane-d4 (Surr)	108		80 - 121				10/30/20 10:00	10/30/20 17:02	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1210		13.8		mg/Kg	-	10/30/20 09:19	10/30/20 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		50 - 150				10/30/20 09:19	10/30/20 14:55	1

General Chemistry							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.3	0.1	<u></u> %			10/29/20 15:28	1
Percent Moisture	7.7	0.1	%			10/29/20 15:28	1

Client: GHD Services Inc.

Project/Site: Shell Harbor Island Fuel Terminal

Job ID: 580-98601-1 SDG: 2555 13th Ave, Seattle, WA

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-342076/1-A

Lab Sample ID: LCS 580-342076/2-A

Matrix: Solid

Analysis Batch: 342077

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 342076

	MB I	MB							
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200		mg/Kg		10/30/20 11:44	10/30/20 17:35	1
Toluene	ND		0.0100		mg/Kg		10/30/20 11:44	10/30/20 17:35	1
Ethylbenzene	ND		0.00200		mg/Kg		10/30/20 11:44	10/30/20 17:35	1
m-Xylene & p-Xylene	ND		0.0100		mg/Kg		10/30/20 11:44	10/30/20 17:35	1
o-Xylene	ND		0.00500		mg/Kg		10/30/20 11:44	10/30/20 17:35	1
Xylenes, Total	ND		0.0100		mg/Kg		10/30/20 11:44	10/30/20 17:35	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120	10/30/20 11:44	10/30/20 17:35	1
4-Bromofluorobenzene (Surr)	101		80 - 120	10/30/20 11:44	10/30/20 17:35	1
Dibromofluoromethane (Surr)	98		80 - 120	10/30/20 11:44	10/30/20 17:35	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 121	10/30/20 11:44	10/30/20 17:35	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 342077 Prep Batch: 342076 Snika 100 100 %Rec.

	Spike	LUS	LUS				MREC.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0200	0.01949		mg/Kg		97	79 - 135	
Toluene	0.0200	0.01961		mg/Kg		98	75 - 137	
Ethylbenzene	0.0200	0.02104		mg/Kg		105	80 - 135	
m-Xylene & p-Xylene	0.0200	0.01845		mg/Kg		92	80 - 132	
o-Xylene	0.0200	0.02075		mg/Kg		104	80 - 132	
Xylenes, Total	0.0400	0.03920		mg/Kg		98	80 - 136	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
1,2-Dichloroethane-d4 (Surr)	98		80 - 121

Spike

Added

Lab Sample ID: LCSD 580-342076/3-A

Matrix: Solid

Analyte

Analysis Batch: 342077

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 342076

%Rec. **RPD** D %Rec Limits RPD Limit 79 - 135 101 7

Benzene	0.0200	0.02027	mg/Kg	101	79 - 135	4	31
Toluene	0.0200	0.02073	mg/Kg	104	75 - 137	6	34
Ethylbenzene	0.0200	0.02254	mg/Kg	113	80 - 135	7	37
m-Xylene & p-Xylene	0.0200	0.01986	mg/Kg	99	80 - 132	7	38
o-Xylene	0.0200	0.02233	mg/Kg	112	80 - 132	7	39
Xylenes, Total	0.0400	0.04219	mg/Kg	105	80 - 136	7	19

LCSD LCSD

Result Qualifier Unit

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	107		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120

Eurofins TestAmerica, Seattle

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-342076/3-A

Matrix: Solid

Analysis Batch: 342077

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 342076

LCSD LCSD

%Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 101 80 - 121

Lab Sample ID: MB 580-342092/1-A

Matrix: Solid

Analysis Batch: 342094

Client Sample ID: Method	Blank
Prep Type: To	tal/NA

Prep Batch: 342092

MB MB Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac ND 0.0300 mg/Kg 10/30/20 10:00 10/30/20 12:10 ND 0.150 10/30/20 10:00 10/30/20 12:10

Analyte Benzene Toluene mg/Kg Ethylbenzene ND 0.0400 mg/Kg 10/30/20 10:00 10/30/20 12:10 m-Xylene & p-Xylene ND 10/30/20 10:00 10/30/20 12:10 0.200 mg/Kg o-Xylene ND 0.0600 mg/Kg 10/30/20 10:00 10/30/20 12:10 Xylenes, Total ND 0.200 mg/Kg 10/30/20 10:00 10/30/20 12:10

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		80 - 120	10/30/20 10:00	10/30/20 12:10	1
4-Bromofluorobenzene (Surr)	100		80 - 120	10/30/20 10:00	10/30/20 12:10	1
Dibromofluoromethane (Surr)	105		80 - 120	10/30/20 10:00	10/30/20 12:10	1
1,2-Dichloroethane-d4 (Surr)	108		80 - 121	10/30/20 10:00	10/30/20 12:10	1

Lab Sample ID: LCS 580-342092/2-A

Matrix: Solid

Analysis Batch: 342094

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 342092

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.800 0.7485 94 79 - 135 mg/Kg Toluene 0.800 0.8782 mg/Kg 110 75 - 137 Ethylbenzene 0.800 0.9022 mg/Kg 80 - 135113 m-Xylene & p-Xylene 0.800 0.8123 mg/Kg 102 80 - 132 o-Xylene 0.800 0.8851 mg/Kg 111 80 - 132 Xylenes, Total 1.60 1.697 mg/Kg 106 80 - 136

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	107		80 - 120
4-Bromofluorobenzene (Surr)	108		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		80 - 121

Lab Sample ID: LCSD 580-342092/3-A

Matrix: Solid

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 342094						Prep Batch: 342092		
	Spike	LCSD LCSD				%Rec.		RPD
Analyte	Added	Result Qualifi	er Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.800	0.8045	mg/Kg		101	79 - 135	7	31
Toluene	0.800	0.9331	mg/Kg		117	75 - 137	6	34
Ethylbenzene	0.800	0.9664	mg/Kg		121	80 - 135	7	37
m-Xylene & p-Xylene	0.800	0.8812	mg/Kg		110	80 - 132	8	38
o-Xylene	0.800	0.9518	mg/Kg		119	80 - 132	7	39

Eurofins TestAmerica, Seattle

Job ID: 580-98601-1

Client: GHD Services Inc. Project/Site: Shell Harbor Island Fuel Terminal

SDG: 2555 13th Ave, Seattle, WA

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-342092/3-A **Matrix: Solid**

Analysis Batch: 342094

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 342092

LCSD LCSD Spike **RPD** %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Xylenes, Total 1 60 1 833 mg/Kg 115 80 - 136 8

Limit 19

	LCSD LCSD	
Surrogate	%Recovery Qualif	ier Limits
Toluene-d8 (Surr)	107	80 - 120
4-Bromofluorobenzene (Surr)	107	80 - 120
Dibromofluoromethane (Surr)	99	80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

101

Lab Sample ID: MB 580-342049/1-A

Matrix: Solid

1,2-Dichloroethane-d4 (Surr)

Analysis Batch: 342111

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 342049

Dil Fac

MB MB Analyte MDL Unit Result Qualifier RL Prepared Analyzed TPH as Gasoline ND 5 00 10/30/20 09:19 10/30/20 10:00 mg/Kg

80 - 121

MB MB Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 84 50 - 150 106 Trifluorotoluene (Surr) 50 - 150

Prepared Analyzed Dil Fac 10/30/20 09:19 10/30/20 10:00 10/30/20 09:19 10/30/20 10:00

Lab Sample ID: LCS 580-342049/2-A

Lab Sample ID: LCSD 580-342049/3-A

Matrix: Solid

Analysis Batch: 342111

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 342049

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline 40.0 36.84 92 80 - 120 mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		50 - 150
Trifluorotoluene (Surr)	114		50 ₋ 150

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 342111

Prep Type: Total/NA **Prep Batch: 342049** %Rec. **RPD**

Spike LCSD LCSD Added Result Qualifier D %Rec Limits RPD Limit Analyte Unit 80 - 120 TPH as Gasoline 40.0 38.05 mg/Kg 95 3

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		50 - 150
Trifluorotoluene (Surr)	114		50 ₋ 150

QC Sample Results

Client: GHD Services Inc.

Job ID: 580-98601-1

Project/Site: Shell Harbor Island Fuel Terminal

SDG: 2555 13th Ave, Seattle, WA

Method: 2540G - SM 2540G

Lab Sample ID: 580-98601-1 DU

Matrix: Solid

Analysis Batch: 342006

Alluly 313 Dutoll. 04200	•							
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	94.3		94.2		%		 0.1	20
Percent Moisture	5.7		5.8		%		2	20

Client Sample ID: S-102820-JRL-S14 (4')

Prep Type: Total/NA

5

6

8

9

10

Project/Site: Shell Harbor Island Fuel Terminal

Lab Sample ID: 580-98601-1

Client Sample ID: S-102820-JRL-S14 (4')

Date Collected: 10/28/20 14:15 Date Received: 10/29/20 11:35

SDG: 2555 13th Ave, Seattle, WA

Matrix: Solid

Job ID: 580-98601-1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	342006	10/29/20 15:28	ССН	TAL SEA

Client Sample ID: S-102820-JRL-S14 (4')

Date Collected: 10/28/20 14:15

Date Received: 10/29/20 11:35

Lab Sample ID: 580-98601-1 **Matrix: Solid**

Percent Solids: 94.3

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			342092	10/30/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	342094	10/30/20 13:30	ASJ	TAL SEA
Total/NA	Prep	5035			342049	10/30/20 09:19	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	342111	10/30/20 11:13	JSM	TAL SEA

Client Sample ID: S-102820-JRL-S15 (4')

Date Collected: 10/28/20 14:25

Date Received: 10/29/20 11:35

Lab Sample ID: 580-98601-2

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	342006	10/29/20 15:28	CCH	TAL SEA

Client Sample ID: S-102820-JRL-S15 (4')

Date Collected: 10/28/20 14:25

Date Received: 10/29/20 11:35

Lab Sample ID: 580-98601-2

Matrix: Solid Percent Solids: 95.5

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			342092	10/30/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	342094	10/30/20 13:56	ASJ	TAL SEA
Total/NA	Prep	5035	DL		342092	10/30/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D	DL	1	342094	10/30/20 17:29	ASJ	TAL SEA
Total/NA	Prep	5035			342049	10/30/20 09:19	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	342111	10/30/20 11:38	JSM	TAL SEA

Client Sample ID: S-102820-JRL-S16 (4')

Date Collected: 10/28/20 14:35

Date Received: 10/29/20 11:35

Lab Sample	ID: 580-98601-3
	Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	2540G			342006	10/29/20 15:28	CCH	TAL SEA	-

Client Sample ID: S-102820-JRL-S16 (4')

Date Collected: 10/28/20 14:35 Date Received: 10/29/20 11:35

Lab Sample ID: 580-98601-3 **Matrix: Solid**

Percent Solids: 94.7

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			342092	10/30/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	342094	10/30/20 14:23	AS.I	TAL SEA

Eurofins TestAmerica, Seattle

Client: GHD Services Inc.

Project/Site: Shell Harbor Island Fuel Terminal

Lab Sample ID: 580-98601-3

Matrix: Solid

Percent Solids: 94.7

Client Sample ID: S-102820-JRL-S16 (4') Date Collected: 10/28/20 14:35

Date Received: 10/29/20 11:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			342049	10/30/20 09:19	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	342111	10/30/20 12:03	JSM	TAL SEA

Client Sample ID: S-102820-JRL-S17 (4') Lab Sample ID: 580-98601-4

Date Collected: 10/28/20 14:40 Date Received: 10/29/20 11:35

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	342006	10/29/20 15:28	CCH	TAL SEA

Client Sample ID: S-102820-JRL-S17 (4')

Lab Sample ID: 580-98601-4

Matrix: Solid

Date Collected: 10/28/20 14:40 Date Received: 10/29/20 11:35

Percent Solids: 93.9

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			342092	10/30/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	342094	10/30/20 14:49	ASJ	TAL SEA
Total/NA	Prep	5035	RA		342076	10/29/20 12:30	CJB	TAL SEA
Total/NA	Analysis	8260D	RA	1	342077	10/30/20 18:01	CJB	TAL SEA
Total/NA	Prep	5035			342049	10/30/20 09:19	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	342111	10/30/20 12:27	JSM	TAL SEA

Client Sample ID: S-102820-JRL-S18 (4')

Date Collected: 10/28/20 14:45 Date Received: 10/29/20 11:35

Lab Sample ID: 580-98601-5

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	342006	10/29/20 15:28	CCH	TAL SEA

Client Sample ID: S-102820-JRL-S18 (4')

Lab Sample ID: 580-98601-5

Matrix: Solid

Date Collected: 10/28/20 14:45 Date Received: 10/29/20 11:35 Percent Solids: 93.5

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			342092	10/30/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	342094	10/30/20 15:16	ASJ	TAL SEA
Total/NA	Prep	5035			342049	10/30/20 09:19	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	342111	10/30/20 12:52	JSM	TAL SEA

Client Sample ID: S-102820-JRL-S19 (3')

Lab Sample ID: 580-98601-6

Matrix: Solid

Date Collected: 10/28/20 14:50 Date Received: 10/29/20 11:35

Batch **Batch** Dilution Batch **Prepared**

Method Number or Analyzed **Prep Type** Type Run **Factor** Analyst Lab 342006 10/29/20 15:28 CCH TAL SEA Total/NA Analysis 2540G

Project/Site: Shell Harbor Island Fuel Terminal

Lab Sample ID: 580-98601-6

SDG: 2555 13th Ave, Seattle, WA

Matrix: Solid

Percent Solids: 93.0

Job ID: 580-98601-1

Client Sample ID: S-102820-JRL-S19 (3')

Date Collected: 10/28/20 14:50 Date Received: 10/29/20 11:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			342092	10/30/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	342094	10/30/20 15:42	ASJ	TAL SEA
Total/NA	Prep	5035	RA		342076	10/29/20 12:30	CJB	TAL SEA
Total/NA	Analysis	8260D	RA	1	342077	10/30/20 18:26	CJB	TAL SEA
Total/NA	Prep	5035			342049	10/30/20 09:19	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	342111	10/30/20 13:16	JSM	TAL SEA

Client Sample ID: S-102820-JRL-S20 (3')

Date Collected: 10/28/20 14:55 Date Received: 10/29/20 11:35

Lab Sample ID: 580-98601-7

Matrix: Solid

Batch Batch Dilution Batch Prepared Method **Prep Type** Type Run **Factor** Number or Analyzed Analyst Lab Total/NA Analysis 2540G 342006 10/29/20 15:28 CCH TAL SEA

Client Sample ID: S-102820-JRL-S20 (3')

Date Collected: 10/28/20 14:55 Date Received: 10/29/20 11:35

Lab Sample ID: 580-98601-7 **Matrix: Solid**

Percent Solids: 94.1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			342092	10/30/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	342094	10/30/20 16:09	ASJ	TAL SEA
Total/NA	Prep	5035			342049	10/30/20 09:19	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	342111	10/30/20 13:41	JSM	TAL SEA

Client Sample ID: S-102820-JRL-S21 (3')

Date Collected: 10/28/20 15:00

Date Received: 10/29/20 11:35

Lab	Sample	D:	580 -	-9860	1-8
-----	--------	----	--------------	-------	-----

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	342006	10/29/20 15:28	CCH	TAL SEA

Client Sample ID: S-102820-JRL-S21 (3')

Date Collected: 10/28/20 15:00

Date Received: 10/29/20 11:35

Lab Sample	ID:	580-98601-8
_		Matrix: Solid

Percent Solids: 69.1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			342092	10/30/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	342094	10/30/20 16:35	ASJ	TAL SEA
Total/NA	Prep	5035	RA		342076	10/29/20 12:30	CJB	TAL SEA
Total/NA	Analysis	8260D	RA	1	342077	10/30/20 18:52	CJB	TAL SEA
Total/NA	Prep	5035			342049	10/30/20 09:19	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	342111	10/30/20 14:30	JSM	TAL SEA

Lab Chronicle

Client: GHD Services Inc.

Job ID: 580-98601-1 Project/Site: Shell Harbor Island Fuel Terminal SDG: 2555 13th Ave, Seattle, WA

Client Sample ID: S-102820-JRL-S22 (3')

Lab Sample ID: 580-98601-9 Date Collected: 10/28/20 15:05 **Matrix: Solid**

Date Received: 10/29/20 11:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	342006	10/29/20 15:28	CCH	TAL SEA

Client Sample ID: S-102820-JRL-S22 (3') Lab Sample ID: 580-98601-9

Date Collected: 10/28/20 15:05 **Matrix: Solid**

Date Received: 10/29/20 11:35 Percent Solids: 92.3

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			342092	10/30/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	342094	10/30/20 17:02	ASJ	TAL SEA
Total/NA	Prep	5035			342049	10/30/20 09:19	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	342111	10/30/20 14:55	JSM	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: GHD Services Inc.

Job ID: 580-98601-1

Project/Site: Shell Harbor Island Fuel Terminal

SDG: 2555 13th Ave, Seattle, WA

Laboratory: Eurofins TestAmerica, Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date
Oregon		NELAP	WA100007	11-05-20
The following analytes the agency does not do		report, but the laboratory is i	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
2540G		Solid	Percent Moisture	
2540G		Solid	Percent Solids	
Washington		State	C553	02-18-21
The following analytes the agency does not do		report, but the laboratory is i	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
2540G		Solid	Percent Moisture	
23400				

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Sample Summary

Client: GHD Services Inc.

Project/Site: Shell Harbor Island Fuel Terminal

Job ID: 580-98601-1 SDG: 2555 13th Ave, Seattle, WA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset
580-98601-1	S-102820-JRL-S14 (4')	Solid	10/28/20 14:15	10/29/20 11:35	
580-98601-2	S-102820-JRL-S15 (4')	Solid	10/28/20 14:25	10/29/20 11:35	
580-98601-3	S-102820-JRL-S16 (4')	Solid	10/28/20 14:35	10/29/20 11:35	
580-98601-4	S-102820-JRL-S17 (4')	Solid	10/28/20 14:40	10/29/20 11:35	
580-98601-5	S-102820-JRL-S18 (4')	Solid	10/28/20 14:45	10/29/20 11:35	
580-98601-6	S-102820-JRL-S19 (3')	Solid	10/28/20 14:50	10/29/20 11:35	
580-98601-7	S-102820-JRL-S20 (3')	Solid	10/28/20 14:55	10/29/20 11:35	
580-98601-8	S-102820-JRL-S21 (3')	Solid	10/28/20 15:00	10/29/20 11:35	
580-98601-9	S-102820-JRL-S22 (3')	Solid	10/28/20 15:05	10/29/20 11:35	

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Eurofins TestAmerica, Seattle

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

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-	Curonnis	

Environment Testing America

Filolie: 200-922-2310 Fax: 253-922-5047	Sampler: 1														
Client Information Client Contact:	0018	LEW	ANDOW	*4	Lab PM: Cisneros	, Roxa	nne			Carrier Track	ing No(s):		COC No: 580-40819-130	963.1	
Jeff Gaarder	Phone: 251	-389	-7075	<u>, </u>	E-Mail: roxanne.c	cisnerc	s@Eurofi	inset.com					Page: Page 1 of 1		
Company: GHD Services Inc.						******		Analysi	s Regi	uested		***************************************	Job#:		
Address: 20818 44th Ave W. Suite 190	Due Date Reques	ited:											Preservation Co	des:	
City: Lynnwood	TAT Requested (c	days):	***		-11								A - HCL B - NaOH	M - Hexane N - None	
State, Zip:	1 2	24 HR	-										C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S	
WA, 98036 Phone:	PO#:	- (•	****										E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3	
Email:	4036058 WO#:				<u>_</u> 3								G - Amehior H - Ascorbic Acid	S - H2SO4 T - TSP Dodecal	hvdrate
eff.gaarder@ghd.com	11208654-38-0	02468											I - Ice J - Di Water	U - Acetone V - MCAA	
Project Name: Shell - Washington	Project #: 58013920											Bluer	K - EDTA L - EDA	W - pH 4-5 Z - other (specify	·)
ite 2555 13TH AVE, SEATTLE, WA	SSOW#:					ğ						f com	Other:		
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wewster, Sesolid, Omwaste/oil		8260D, NWTPH_Gx						the Number o	. 0 }	1 1 1 1	
		><	Preservat			(F)						X	Spe		:
S-102820- dec - S14(41)	10-28-20	1455	9	Solid		X					■	4	<i>~</i>	d	
S - 1 - 1 - S15(4')	i	1425		Solid	\top						Custody	4	<u></u>	FedEx: UPS: Lab Cour: Other:	\dashv
3 Sib (4')		1435		Solid		111			T		و ا	4	0	FedEx: UPS: Lab Col	
S- - - 817 (4')		1440		Solid	\top	†#			\Box		ig ig	4		1 1 1 0	
5 318 (41)		1445		Solid	11	<i>†</i> //	++				= 5 5	4		يا ء	
S Sig(2')		1450		Solid		##	+				9860		10. 16. Co		
3 570 (3')		1455		Solid	+	#					280	4	¥ &	Land L	
$\frac{3}{3}$ $\frac{1}{3}$ $\frac{3}{3}$ $\frac{3}$		1500		Solid	+	+++			+			1 4	ار نے	- 1 T 🛎 📭	
S S22(3')	\forall	1505	$\neg \forall +$	Solid	+	₩	-			+	+		Therm. ID:	Packing:	
30000		70)		Solid	+	╁┸┼	+		 		+-	4		Pack ust. –	
					++-	++	+			 				- C E	
ossible Hazard Identification					Sa	mple E)isposal (A fee may	be asse	ssed if sa	mples an	e retainen	longer than 1 i	month)	
Non-Hazard Flammable Skin Irritant Poiso	n B Unkno	own R	adiological			Ret	urn To Cli	ient L	Disp	osal By La	ab [Archiv		Months	
					Spe	ecial In:	structions	/QC Require	ments:						
npty Kit Relinquished by:	E	Date:			Time:	~	٦			Method of					
() (GHD	Date/fime 10/19/10	<i>O</i>	11340	ompany }		Receide	1				Date/Time:	ab	0 1135	Company IAST	
linquished by:	Date/Time:		Co	mpany		Receive	by			P. T. W. T. L.	Date/Time:	- 1 4 2-	- : (/ 3	Company	<u>-</u>
Inquished by:	Date/Time:		Co	трапу		Receive	d by:				Date/Time:			Company	
Custody Seals Intact: Custody Seal No.:						Cooler T	emperature	(s) °C and Othe	er Remarks						

Page 24 of 25

- Control IIII

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1/12/2020 (Rev. 1)

Client: GHD Services Inc.

Job Number: 580-98601-1

SDG Number: 2555 13th Ave, Seattle, WA

Login Number: 98601 List Source: Eurofins TestAmerica, Seattle

List Number: 1

Creator: Vallelunga, Diana L

Answer	Comment
N/A	
True	
N/A	
True	
True	
N/A	
	N/A True True True True True True True Tru



October 21, 2020

Mr. Larry Baker Cadman, Inc. PO Box 2037, 6300 Glenwood Ave Everett, WA 98203

Dear Mr. Baker,

On October 20th, 1 sample was received by our laboratory and assigned our laboratory project number EV20100125. The project was identified as your Back Fill Sand. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Glen Perry

Iller Perry

Laboratory Manager



CERTIFICATE OF ANALYSIS

CLIENT: Cadman, Inc. DATE: 10/21/2020

PO Box 2037, 6300 Glenwood Ave ALS JOB#: EV20100125 Everett, WA 98203

ALS SAMPLE#: EV20100125-01 Larry Baker DATE RECEIVED: 10/20/2020

CLIENT CONTACT: CLIENT PROJECT: Back Fill Sand **COLLECTION DATE:** 10/20/2020 12:00:00 PM

CLIENT SAMPLE ID B.F. #1 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	10/20/2020	KLS
Benzene	EPA-8021	U	0.030	1	MG/KG	10/20/2020	KLS
Toluene	EPA-8021	U	0.050	1	MG/KG	10/20/2020	KLS
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	10/20/2020	KLS
Xylenes	EPA-8021	U	0.20	1	MG/KG	10/20/2020	KLS
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	10/20/2020	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	10/20/2020	EBS

			ANALYSIS AI	
SURROGATE	METHOD	%REC	DATE	BY
TFT	NWTPH-GX	97.2	10/20/2020	KLS
TFT	EPA-8021	82.6	10/20/2020	KLS
C25	NWTPH-DX	105	10/20/2020	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

ALS Group USA, Corp dba ALS Environmental



CERTIFICATE OF ANALYSIS

CLIENT: Cadman, Inc.

Cadman, Inc. DATE: 10/21/2020 PO Box 2037, 6300 Glenwood Ave ALS SDG#: EV20100125

Everett, WA 98203

WDOE ACCREDITATION: C601

CLIENT CONTACT: Larry Baker CLIENT PROJECT: Back Fill Sand

LABORATORY BLANK RESULTS

MBG-102020S - Batch 158678 - Soil by NWTPH-GX

				REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY	
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	10/20/2020	KLS	

U - Analyte analyzed for but not detected at level above reporting limit.

MB-102020S - Batch 158678 - Soil by EPA-8021

				REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY	
Benzene	EPA-8021	U	MG/KG	0.030	10/20/2020	KLS	
Toluene	EPA-8021	U	MG/KG	0.050	10/20/2020	KLS	
Ethylbenzene	EPA-8021	U	MG/KG	0.050	10/20/2020	KLS	
Xylenes	EPA-8021	U	MG/KG	0.20	10/20/2020	KLS	

U - Analyte analyzed for but not detected at level above reporting limit.

MB-102020S - Batch 158693 - Soil by NWTPH-DX

				REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY	
TPH-Diesel Range	NWTPH-DX	U	MG/KG	25	10/20/2020	EBS	
TPH-Oil Range	NWTPH-DX	U	MG/KG	50	10/20/2020	EBS	

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Cadman, Inc. DATE: 10/21/2020

PO Box 2037, 6300 Glenwood Ave

ALS SDG#: EV20100125

Everett, WA 98203

Back Fill Sand

C601

CLIENT CONTACT: Larry Baker

CLIENT PROJECT:

WDOE ACCREDITATION:

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 158678 - Soil by NWTPH-GX

				LIM	115	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
TPH-Volatile Range - BS	NWTPH-GX	110		66.5	122.7	10/20/2020	KLS
TPH-Volatile Range - BSD	NWTPH-GX	110	0	66.5	122.7	10/20/2020	KLS

ALS Test Batch ID: 158678 - Soil by EPA-8021

				LIMITS		ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
Benzene - BS	EPA-8021	83.2		67.7	124	10/20/2020	KLS
Benzene - BSD	EPA-8021	85.2	2	67.7	124	10/20/2020	KLS
Toluene - BS	EPA-8021	85.4		71	123	10/20/2020	KLS
Toluene - BSD	EPA-8021	87.0	2	71	123	10/20/2020	KLS
Ethylbenzene - BS	EPA-8021	85.1		69.8	117	10/20/2020	KLS
Ethylbenzene - BSD	EPA-8021	87.2	2	69.8	117	10/20/2020	KLS
Xylenes - BS	EPA-8021	87.0		70	119	10/20/2020	KLS
Xylenes - BSD	EPA-8021	89.1	2	70	119	10/20/2020	KLS

ALS Test Batch ID: 158693 - Soil by NWTPH-DX

				LIN	IITS	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
TPH-Diesel Range - BS	NWTPH-DX	106		75.5	122.1	10/20/2020	EBS
TPH-Diesel Range - BSD	NWTPH-DX	102	3	75.5	122.1	10/20/2020	EBS

APPROVED BY

Laboratory Manager

ALS

ALS Environmental 8620 Holly Drive, Suite 100 Everett, WA 98208

Phone (425) 356-2600 Fax (425) 356-2626 http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (

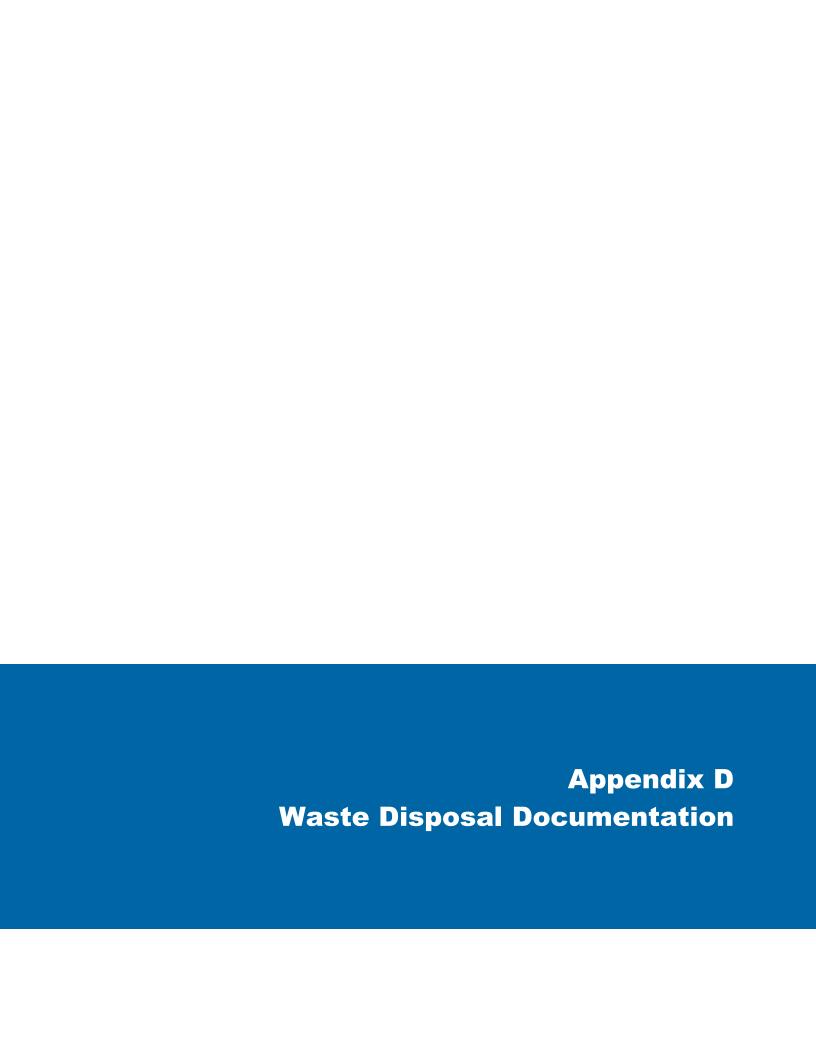
(Laboratory Use Only)

EV20100125

Date 10-70-70ge 1 of /

*Turnaround request less than standard may incur Rush Charges

PROJECT ID: Brok Rill	Sauce	l			AN	ALYS	SIS	REQ	UES	STEE)				-		Duto			 HER		ecify)		<u> </u>		
PROJECT ID: Back Kill Sand REPORT TO COMPANY: Cadman PROJECT MANAGER: Lawy Balzer ADDRESS: PHONE: P.O. #: E-MAIL: Lawy balzer w Lehigh hours in: com INVOICE TO COMPANY: ATTENTION: ADDRESS:					NWTPH-HCID	ХОН	Y9-1	BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐	MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐						NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTP	NWTPH-DX	NWTPH-GX	BTEX &	MTBE	Haloge	Volatile	EDB/E	EDB/E	Semivo	Polycyc	PCB by	Metals-	Metals	TCLP-N						NUME	RECE
1. B. F. #1	10-20	17:00	Sã 1	1		X	X	X										-	-						_	
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9.																										
10.																										
SPECIAL INSTRUCTIONS									.,												*	•		•		
SIGNATURES (Name, Company 1. Relinquished By: Received By: 2. Relinquished By: Received By:	, Date, Time	eichn ALS	10.2	70-70 2. 202) D	[Z[[2]	じ 5		. (Orga 10 Standard	uels	5	als & 3 ydrod 3	carb	rgan 2 on A	ic Aı	naly:	sis 	REQ	TED ecify:		usines OTI	ss Da	ys*		





Profile Number: 115626WA

Non-Hazardous WAM Approval

Waste Acceptance Expiration Date: 11/19/2021

Requested Management Facility: Columbia Ridge Landfill, Duwamish Reload Facility

		WM Regulatory Volume Limit: —			☑ NA
APPROVAL DETAILS					
Approval Decision: 🗹 Approved 🚨 Not Approved			Profile Renewal:	✓ Yes	□ No
Management Method: Direct Landfill					
Generator Name: Shell Pipeline Co LP					
Profile Expiration Date: 11/19/2021					
Periodic Testing Due Date:	1 NA				
Other Due Date: [5	1 NA	(Specify)			
Management Facility Precautions, Special Handling Pro- Generator Conditions - Shall not contain free liquids. - Waste manifest or applicable shipping - The waste profile number must appear of YOU MAY NOT HAUL TO DUWAMISH W/OUT PRIOR YOU'R load with the landfill 24 hours in each load to the landfill scale house at Facility Conditions - Approved via transfer station	document mon the ship R SCHEDULIN advance.	nust accompany load. pping papers. NG. Please contact Kim Funk at 2 A copy of the WAM Approval Form			
WM Authorization Name: <u>Donald Lavrinc</u>				120	
WM Authorization Signature:			Date. 11/13/20	720	

Printed: 25 JAN 2021

Generator's Waste Profile 1702314-00

Status: PENDING

Page

CleanEarth

Starts : 01 DEC 2020 Expires: 31 DEC 2021

499 Anita Perry Sales Rep **Acct Mngr** 0023 Jeff Tanka

A: GENERATOR (14613) SITE INFORMATION

B: CUSTOMER (53229) INFORMATION

EQUILON ENT LLC/DBA SHELL OIL TERMINAL

WAD001684588 **EPA**

2555 13TH AVE SW

SEATTLE, WA 98134-0000

NAICS 2992 Neshap N 6520 CORPORATE DR

INDIANAPOLIS, IN 46278-2915

Contact Tia Bruce TSDF Approval List No Phone (206) 224-0489

C: WASTE INFORMATION

Sub Part P No On File >

MSDS No Analysis Yes

Sample Yes

Formulary No

Waste Name WATER

Process

TOC

SITE SUPPORT WORK - PRODUCT/GASOLINE SPILL CLEAN-UP DURING EXCAVATION

Unused Commercial Product

Spill Residue No

D: PHYSICAL CHARACTERISTICS OF WASTE

Phys States L-Liq

Top Color VARIES **Mid Color Bot Color**

N/A

95-100

No

Odor None Layers Single Phased Spec Grav 1 BTU/Lbs N/A

% Halogens N/A

PH Range 4-10 Free Liq % 95-100 Flash Test NT Flash Rnge N/A **Viscosity Pumpable** Yes

(<

Zinc

Cobalt

E: CHEMICAL COMPOSITION OF WASTE

WATER PCB's NONE Cyanides NONE

voc N/A

% Ash

% Water

95 -100 %) SEDIMENT **Sulfides** Phenolics No

Dioxins No

5 % Information Provided By Generator)

F: METALS METHOD Total

N/A

<5 Arsenic

<100

Origin 1

<1 Cadmium **Merc TCLP** < 0.2

Lead

<5

Chromium <5 Selenium <1 Merc Tot < 0.2

NONE

Nickel ND Thallium ND

Vanadium ND

<5

Silver

ND Copper Chrome-6 NT

ND

ND

G: OTHER CHARACTERISTICS OF WASTE

Barium

Ian. Solid No **Explosive** N/A Herbicides No

Gen State UW No

Oxidizer No **Explosive** No Asbestos N/A Pesticides NONE

Shock Sensitive No Radioactive No. **Ammonia** No Cyanide Reactive No Water Reactive No Infectious No

Sulfide Reactive No Reactive (Other) No Medical No

H: EPA / STATE WASTE IDENTIFICATION

EPA Waste No

State Waste No **NESHAPS** No

TSCA No **CERCLA** No Waste Water No Debris No Universal Waste No Gen State UW No

EPA Codes State Codes

Form W119

UHC

Categorical Discharge Standards

Source G19

Sub Part P No

SubPart CC No

CTW Category Organics

DW/EHW:

I: SHIPPING INFORMATION

Marine Pollutant No

TT Tank Trucks Containers

Qty to Ship Now G

5000/Quarterly **Projected Volume**

DOT Descrip MATERIAL NOT REGULATED BY D.O.T. (WATER)

J: SPECIAL DISPOSAL INSTRUCTIONS

GK 1/24/20; ANALYSIS 11/6/20 AND 1/22/21;

Waste Categs WATB05

Printed: 25 JAN	2021
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Generator's Waste Profile 1702314-00

Status: PENDING

Page

2

CleanEarth

Starts : 01 DEC 2020 **Expires** : 31 DEC 2021

Sales Rep 499 Anita Perry **Acct Mngr** 0023 Jeff Tanka

GENERATOR CERTIFICATION

To the best of my knowledge and belief, I hereby warrant and represent that the information contained and submitted in this waste profile and all attached
documents is true, accurate, and complete and that no material fact has been omitted as to make this misleading. I understand that others may rely on
this information in the handling and processing of the waste material described herein. By signing this waste profile, I am certifying that I am authorized to
sign such documentation on behalf of the generator.

Signature	Printed Name	Title	Date

Burlington Environmental, LLC maintains the appropriate permits for and will accept the dangerous waste the generator is shipping as required by WAC 173-303-290(3).



DOCUMENTATION OF GENERATOR KNOWLEDGE

	Profile Number:	Waste Name: Water	
reliable	and sufficient to manage the	ge" to designate a waste, Clean Earth m waste in accordance with WAC 173-30 t do one or more of the following:	
0 0	information provided by the Ensure waste analysis contai and appropriate sampling an Compare the generator's wa processes to ensure the wast	or's processes by conducting site visits, generator to ensure they are adequate for ined in documented studies on the general d testing methods; site generating process to documented st e profile is accurate and current; or predetermined by WDOE on a case-by-	or safe management of the waste; rator's waste is based on representative tudies of similar waste generating
	Please comple	ete this form, and provide details as a	pplicable:
Genera	tor Name: SHELL OIL		Date: 11/24/2020
Locatio	n: 2555 13TH AVE SW SEATTLE	WA 98134 Gene t/gasoline release spill cleanup excavation.	erator Contact:
			icity Criteria Data ,RTECS, ECOTOX,HSDB) : Job ID: 580-98447-1,
		m documented studies on similar wasta nation is accurate, current, and represe	
(Table 48)85	enerator has worked with WI to profile:	DOE to develop case-by-case equivalen	t information, describe briefly and
By affixi		that the information contained in this doc	ument truly and accurately characterizes the
Author	ized Generator Representativ	e: Nathaniel Sermersheim	Title: Agent of Shell

Authorized Generator Signature: Nathaniel Sermersheim Date 2020 11 24 12 4/15 1-2020 Date: 11/24/2020



8th Ave Reload 7400 8th Ave S Seattle, WA, 98108 Original Ticket# 55660

Volume

Ph: 206-694-0600

Customer Name GHD 115626WA GHD SERVICES INC Carrier Vehicle# NRC411-117

Ticket Date 12/07/2020
Payment Type Credit Account
Manual Ticket#

Route Hauling Ticket#

Destination

PO# 34028879/115626WA

Time Scale 12/07/2020 09:03:57 Scale 1 Out 12/07/2020 09:28:17

Scale 1

Operator kfunk2

Grid

Container

Billing# 0000372

Driver

Check#

kfunk2

Inbound

SCOTT LOIDHAMER

SELF SELF

50100 lb Gross Tare 41820 lb 8280 lb Net

Tons 4.14

NRC-KF MAN# 157446-1 BIN# 3 Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
2 EVF-P-Standa	-PCS-Tons-Pet ard Environme NDOLA PER TON	100		Tons % Tons				KING KING KING

Total Tax Total Ticket

Driver's Signature 2. La Shaw

JAN - 4 2021 DT - 12. 36898698400118102111111111

	NON-HAZARDOUS 1. Generat	or ID Number "	2. Page 1 of 3. Emer	gency Response P	hone	4. Waste Tra	acking Nu	nber	á	
	WASTE MANIFEST W	0001684588		-8808128				57446	No.	
	5. Generator's Name and Mailing Address Shell Pipeline Co. LP of 2520 Corporete Drive Indianapose IN 45278	o GHO	S78.	or's Site Address (i 13 Sea 13 Ave 13 MA S	miral SW	mailing addre	ss)			
	Generator's Phone:								-	
	6. Transporter 1 Company Name	San en de martine				U.S. EPA ID N		000	3 4 4 6 1	£ .
	7. Transporter 2 Company Name	SOLAICES		microsom i si si si si si si si si si si si si s	1	U.S. EPA ID N		003	3 1 1 27	
	77 Transporter 2 Company Trains		RECE:	VED	and the state of t	0.0. LI // ID I	tumber			
	8. Designated Facility Name and Site Address 4444 Cottumbra Ridge La 18177 Coder Springs L Arington OR 97812		JAN - 4		TO STATE OF THE ST	U.S. EPA ID N	lumber			
	Facility's Phone: 541 454303	O Company	BY:	4 1 4 2 7 2 4 4 1 4 5 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	Connections	ORI	0 9 8	7 1 7 :	3 4 5	
	9. Waste Shipping Name and Descri	ption		10. Containe	ers .	11. Total	12. Unit			POST OF THE PERSON
		•	-	No.	Туре	Quantity	Wt./Vol.	5 may 18 mm 1 mg 1 mg 1 mg 1 mg 1 mg 1 mg 1 m	Autoria de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión	
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	13. Special Handling Instructions and Addition	onal Information 1) Profile 8115	regionala esar	/F1 002468			l			
		, प्राप्त विकाशका हर । व		bint	12	· ·	-			
	14. GENERATOR'S/OFFEROR'S CERTIFIC	CATION: I hereby declare that the contents of thi	is consignment are fully an	d accurately descri	bed above by	the proper ship	oping name	, and are classifie	ed, packaged,	
	marked and labeled/placarded, and are Generator's/Offeror's Printed/Typed Name	in all respects in proper condition for transport ac	ccording to applicable inter Signature	national and nationa	al government	al regulations.		Month	Day Yea	_
*	danish of the local state of the	80 l		N.A.		A superior superior	Marian 19	17.	10912	1
INT'L	15. International Shipments In	nport to U.S.	Export from U.S.	Port of entry				MAC.		
8	I	of Materials		7 Date leaving	U.S.:					
RTE	Transporter 1 Printed/Typed Name		Signature	<u>V </u>		7		Month	Day Yea	
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TRANSPORTER	Transporter 2 Printed/Typed Name		Signature `					Month I	Day Yea I I	r
<u> </u>	17. Discrepancy								l	
	17a. Discrepancy Indication Space	Quantity Type		Residue	Г	Partial Reje	ection		Full Rejection	
		,,								
\ \	17b. Alternate Facility (or Generator)		Man	ifest Reference Nur		U.S. EPA ID N	lumber			
FACILITY	(,									
FAC	Facility's Phone:									
DESIGNATED	17c. Signature of Alternate Facility (or Gene	rator)	1					Month	Day Yea	r
- DESIG										
		Certification of receipt of materials covered by the	e manifest except as noted	in Item 17a				· 	·	
	Printed/Typed Name	Very or the second seco	Signature	e a comment	44			Month	Day Yea	
V	Frim Fon	Washington of the state of the		LYY	-t L	- Pr. 5		[7/	1 1 124	-1



8th Ave Reload 7400 8th Ave S Seattle, WA, 98108 Original Ticket# 55666

Ph: 206-694-0600

Customer Name GHD 115626WA GHD SERVICES INC Carrier SELF SELF
Ticket Date 12/07/2020 Vehicle# NRC411-117 Volume
Payment Type Credit Account Container
Manual Ticket# Driver SCOTT LOIDHAMER
Route Check#
Hauling Ticket# Billing# 0000372

Destination Grid PO# 34028879/115626WA

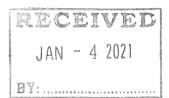
Time Scale Operator Inbound Gross 74620 lb 12/07/2020 10:57:32 41760 lb kfunk2 Tare In Scale 1 Out 12/07/2020 11:30:04 Scale 1 kfunk2 Net 32860 lb Tons 16.43

Comments NRC-KF BOX 4 MAN# 157446

Pro	duct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2	Daily Cover-PCS-Tons-Pet EVF-P-Standard Environme		16.43	Tons %				KING
3	GOND TON-GONDOLA PER TON	100	16.43	Tons				

Total Tax Total Ticket

Driver's Signature 5. LD'dhown



À	NON-HAZARDOUS 1. Generator ID Number	1 "	3. Emergency Respons		4. Waste Tra	acking Numb	
T	WASTE MANIFEST	- Park	86681				7446-
	5. Generator's Name and Mailing Address Steel Programs Co. LP Cro CHD 6520 Corporate Drive		Generator's Site Addres	s (if different tha	ın mailing addre	ss)	
Ш	6520 Corporate Diwe		2555 136h A	/a. SW			
Ш	Indienapolis IN 46278	ı	Seatte VVA	#3 134			
Ш	Generator's Phone: 6. Transporter 1 Company Name	<u> </u>			U.S. EPA ID N	Jumber	
Ш	NRC Environmental Services				CA	R 0 0	0030114
Ш	7. Transporter 2 Company Name	REC	EIVEI	7	U.S. EPA ID N		
Ш		1	and we have be				
	8. Designated Facility Name and Site Address	I JAN	- 4 2021		U.S. EPA ID N	lumber	
	18177 Ceder Spiritus Lane	Parish March		:			
	Artington OR 97812	BY:	PRESONACE CONTRACTOR OF THE STREET	OCHINGO CONTRACTOR CON		6 A 6	7 4 7 0 4 6
	Facility's Phone: 541 4543030				LUR		717345
	9. Waste Shipping Name and Description		10. Conta		11. Total Quantity	12. Unit Wt./Vol.	
	Non-DOT/Non-Regulated Material (Soli)		No.	Туре	Quantity	VVI./VOI.	
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ľ	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this	s consignment a	re fully and accurately de	scribed above b	y the proper shi	oping name, a	and are classified, packaged,
	marked and labeled/placarded, and are in all respects in proper condition for transport acc Generator's/Offeror's Printed/Ityped/Name		able international and nat nature	ional governme	ntal regulations.	_	Month Day Year
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, ,	45 International Chiamanta			<u> </u>	Contract Con	- maleym	1/2/07/
INT'L	Import to U.S. Transporter Signature (for exports only):	Export from (ntry/exit: ving U.S.:			
_	16. Transporter Acknowledgment of Receipt of Materials		Dato loa	ring o.o	A		
TRANSPORTER	Transporter 1 Printed/Typed Name	Sig	nature	0		_	Month Day Yea
SPC	Scott 1. donor NRC		Mores 1	Carrierania.			[][S 0 3] 50
AAN	Transporter 2 Printed/Typed Name	Sig:	nature				Month Day Year
F	47 Photograph						
A	17. Discrepancy						
	Quantity Type		Residue		Partial Reje	ection	Full Rejection
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<u>`</u>	17b. Alternate Facility (or Generator)		Manuest Freiering	ramoti,	U.S. EPA ID N	lumber	
딋							
FA	Facility's Phone:					_	
目	17c. Signature of Alternate Facility (or Generator)						Month Day Year
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DESIGNATED FACILITY							
<u> </u>							
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the	manifect over	t as noted in Item 172		o nastava igr		en jaropa kan kan kan kan kan kan kan kan kan ka
	Printed/Typed Name	<u> </u>	nature				Month Day Year
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8th Ave Reload 7400 8th Ave S Seattle, WA, 98108 Original Ticket# 55673

Ph: 206-694-0600

Customer Name GHD 115626WA GHD SERVICES INC Carrier SELF SELF NRC411-117 Volume Payment Type Credit Account Container Manual Ticket# SCOTT LOIDHAMER

Manual Ticket# Driver SCOTT Let Route Check# Billing# 0000372 Destination Grid

PO# 34028879/115626WA

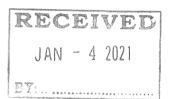
65120 lb Time Scale Operator Inbound Gross 12/07/2020 12:48:54 kfunk2 Tare 41680 lb In Scale 1 23440 lb Out 12/07/2020 13:15:49 kfunk2 Net Scale 1 Tons 11.72

Comments NRC-KF MAN# 157446 BOX 2

Pro	duct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2	Daily Cover-PCS-Tons-Pet EVF-P-Standard Environme		11.72	Tons %				KING KING
3	GOND TON-GONDOLA PER TON	100	11.72	Tons				KING

Total Tax Total Ticket

Driver's Signature . La dhomer



1		HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emerç	gency Response		4. Waste Tr	ū		
		E MANIFEST	WADOO16							57446-		
		5. Generator's Name and Mailing Address Shell Pipeline Co. LP c/o GHD				Generator's Site Address (if different than mailing address) Shelt Secutio Terminal						
	56	20 Corporate	Dive .		2656 136h Ave. SW							·
		dishapoits (N	46278		Seattle WA 98134							
	Generator's	s Phone: rter 1 Company Nam	20						U.S. EPA ID N	Jumhor		
	1											411
	7. Transpo	rter 2 Company Nam	nental Services		RE		IVE	7	U.S. EPA ID N	Vumber	<i>,</i>	1
					- Commence	and the Discould Life						
	8. Designa	ted Facility Name and	d Site Address		JAI	JAN - 4 2021 U.S. EPA ID Number						
	W	M Columbia F	Ridge Lendill		TOTAL SERVICES			erong,			•	
	18 Ar	/177 Cedar S lington OR 9	011106 Lane 170 10		BY:		* * * \$ C & B * p : * * p ;					
	Facility's P	hone: 🔨	<u>4643030</u>				A CONTRACTOR OF THE PARTY OF TH		OR	098	71734	5
	9 V	Vaste Shipping Name	and Description			Ţ	10. Conta	iners	11. Total	12. Unit		
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	marked	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable integrational and national governmental regulations.										
	Generator	s/Offeror's Printed/Ty	bed Name		Sig	nature //	1 1	,	9		Month Day	Year
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_		r Signature (for expor	1				// Date leav	ing U.S.:	- i			
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	Manifest Reference Number:										- 4.	
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DESIGNATED FACILITY												
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		<u> </u>	or Operator: Certification of receipt of	materials covered by the			in Item 17a				10.64	- V.
	Rrinted/Typ	ped Name	nle · · ·		Sig I	nature			1	- A	Month Day	Year
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169	-BLC-O	5 11977 (Rev.	9/09))		V		TRANSPOR	TER#1



8th Ave Reload , 7400 8th Ave S Seattle, WA, 98108 Original Ticket# 55680

Volume

Ph: 206-694-0600

Customer Name GHD 115626WA GHD SERVICES INC Carrier SELF SELF Ticket Date 12/07/2020
Payment Type Credit Account
Manual Ticket# Vehicle# NRC411-117 Container

Route Hauling Ticket#

Destination

34028879/115626WA

Time Scale 12/07/2020 14:45:27 Scale 1 Ιn Out 12/07/2020 15:09:29

Scale 1

Operator kfunk2

Grid

kfunk2

Driver

Check#

Billing# 0000372

Inbound

SCOTT LOIDHAMER

63300 lb Gross Tare 41500 lb 21800 lb Net

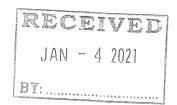
Tons 10.90

NRC-KF MAN# 157446 # 5 Comments

Pro	duct	LD%	Qty	MOU	Rate	Tax	Amount	Origin
1 2 3	Daily Cover-PCS-Tons-Pet EVF-P-Standard Environme GOND TON-GONDOLA PER TON	100	10.90	9				KING KING KING

Total Tax Total Ticket

Driver's Signature 5. Low Whoman



Ī ₁		ION-HAZARDOUS VASTE MANIFEST 1. Generator ID Number VV A D 0 0 1 6 8 4 5 8	2. Page 1 of	3. Emer	gency Response		4. Waste Tr		mber 5 7 4 4 6 -			
	5. Ge	Generator's Name and Mailing Address Stell Poeline Co. LP c/o GHD Stell Poeline Co. LP c/o GHD Stell Sentile Terminal 6520 Corporate Drive Indenspols IN 46276 Seattle VA 98134										
	Gene	erator's Phone:										
	6. Tr	ansporter 1 Company Name NRC Environmental Services					U.S. EPA ID N		00000	41./		
	7 Tr	ansporter 2 Company Name	- 12 F.C	CAROOO30114/ U.S. EPA ID Number								
	/. 11	ansponer 2 Company Name	U.S. EPA ID Number									
	8. De	esignated Facility Name and Site Address	JAN	2021		U.S. EPA ID N	U.S. EPA ID Number					
		18177 Ceder Springs Lane	Washington Co.									
		Afington OR 97812	DY:		. 5000000000000000000000000000000000000	one contra	ORD98717345					
	Facil	ity's Phone: 541 4543030								1 0		
		9. Waste Shipping Name and Description		-	10. Contai No.	Type	11. Total Quantity	12. Unit Wt./Vol.				
		Non-DOT/Non-Regulated Material (Soli)			140.	Турс						
101					. 664	C3.4	NAMO	6.B				
GENERATOR					001	CM ———	00020					
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	13. Special Handling Instructions and Additional Information 1) Profile #115626WA RWR 002468											
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			D ***)								
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are							and are classified in	ırkaned				
	n	narked and labeled/placarded, and are in all respects in proper condition for trans	sport according to applic	able inter	national and nation	nal governme	mental regulations.					
	Gene	rator's/Offeror's Printed/Typed Name	Sig I	inature /	\	and the same of th	1		Month Da	ay Year		
_	15. Ir	nternational Shipments				Name and Association of the Control	V/1000	· kagi jajuna jagana	1,44	740		
INT'L	,5"	Import to U.S. sporter Signature (for exports only):	Export from L	J.S.	Port of ent Date leavir							
EB	16. T	ransporter Acknowledgment of Receipt of Materials			1		6"		j			
TRANSPORTER	Trans	sporter 1 Printed/Typed Name	Sig	nature	Lucia	0/	L		Month Da			
NSP	Trans	sporter 2 Printed/Typed Name		nature	C. C. Sandan	7.1 1 6	CA. CR	garante and a second	Month Da			
TRA	Trunc	portor E i lilitori i pod i talito		nataro								
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ا ≻	17b.	Alternate Facility (or Generator)	•	Mani	fest Reference N	umber:	U.S. EPA ID N	lumber	.,			
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FAC	Facili	ty's Phone:										
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. 8th Ave Reload 7400 8th Ave S Seattle, WA, 98108

Original Ticket# 55695

Ph: 206-694-0600

Customer Name GHD 115626WA GHD SERVICES INC Carrier Ticket Date 12/08/2020
Payment Type Credit Account
Manual Ticket#

Container

SELF SELF Vehicle# NRC22247

Volume

Route

Driver Check#

SCOTT LOIDHAMER

Hauling Ticket#

Billing# 0000372 Grid

Operator

kfunk2

kfunk2

Destination

PO# 34028879/115626WA Time

Out 12/08/2020 12:03:10

12/08/2020 11:47:17

Scale Scale 1 Scale 1

Inbound

58640 lb Gross 35020 lb Tare 23620 lb Net

Comments

Ιn

NRC-KF MAN# 157446 BOX # 13

Tons

11.81

Pro	duct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2	Daily Cover-PCS-Tons-Pet EVF-P-Standard Environme		11.81	Tons %				KING KING
3	GOND TON-GONDOLA PER TON	100	11.81	Tons				KING

Total Tax Total Ticket

Driver's Signature = Walhum

JAN - 4 2021

T.i.	NON-HAZARDOUS 1.	Generator ID Number		2. Page 1 of	3. Emergen	cy Response	Phone	4. Waste Tr	acking Nu	mber		
	WASTE MANIFEST	WAD00168	4588	depail.		86681	22565		7	57446	i n	
	5. Generator's Name and Mailing A Shell Pipeline Co. 6620 Corporate E Indianapolis 1N 4	LP c/o GHD Vrive			Sheli (2555	Site Address See the T 13 th Av See VVA 9	erminal e. SVV	an mailing addre	ss)			·
	Generator's Phone: 6. Transporter 1 Company Name			<u> </u>				U.S. EPA ID1	Number			
	NRC Environme	intal Services	TOTAL STANDARD		KIND OF THE THE PERSON	3		I cA	ROC	003	0 1	16
	7. Transporter 2 Company Name		KEC	JEIW	ED	M common		U.S. EPA ID N				
			1.0.1.1	4 00	0.1	With the second						
	8. Designated Facility Name and S	tite Address	JAN	- 4 20	41			U.S. EPA ID N	Number		ľ	
	V/M Columbia Ric 18177 Gedar Spri		no		10.0							
	Arlington OR 978	312	D1	4684949999999	* * * * * * * * * *			I am 1955		a select a second		inal
	Facility's Phone: 541 45	43030			1	10.0.1	, 1			717:	3 4 3	5
	9. Waste Shipping Name ar	nd Description			-	10. Conta	Type	 Total Quantity 	12. Unit Wt./Vol.			
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TOR	14/14/27/27 11/6/16	L. C. C. Christian Co. C. C. C. C. C. C. C. C. C. C. C. C. C.))									
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	13. Spécial Handling Instructions a	nd Additional Information	Profile #1158	aogana Rv	182 (VI) 24	188 -						
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	 GENERATOR'S/OFFEROR'S (marked and labeled/placarded. 	CERTIFICATION: I hereby declare that and are in all respects in proper condit	the contents of this	consignment are ording to applical	fully and a	ccurately des	cribed above b	by the proper shi	pping name	e, and are classifie	ed, packaç	ged,
	Generator's/Offeror's Printed/Typed	d Name	, on tot manopolt acc	Sign	aturo	17.5			Ø* ·	Month	Day	Year
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۲،۲	15. International Shipments	Import to U.S.		Export from U.		Port of en						1.
INT'L	Transporter Signature (for exports	only):				Date leav	•					
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TRANSPORTER	Transporter 1 Printed/Typed Name	Shover	NAC	Signa I	ature (Leve	J	1.		Month レブ	Day ∂-?	Year 7 d
NSP	Transporter 2 Printed/Typed Name		10	Signa	ature		130	Mr. Carloniana		Month	Day	Year
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					Manifest	Reference N	lumber:					
ΣĮ	17b. Alternate Facility (or Generato	or)						U.S. EPA ID N	Number			
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D FJ	Facility's Phone: 17c. Signature of Alternate Facility	(or Conorator)					·			Month	Day	Year
ATE	17c. Signature of Alternate Facility	(or deficialor)		1						WOTH	Day	
GN				1947/01/01/01					. % . % . \$			<u>. </u>
DES												
	18. Designated Facility Owner or O	perator: Certification of receipt of mater	ials covered by the	manifest except a	as noted in	Item 17a		and the same of th				
	Printed/Typed Name	Tarall.	•	Signa	ature		man or an adversarial or living at	1	100	Month	Day	Year
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8th Ave Reload '7400 8th Ave S Seattle, WA, 98108 Original Ticket# 55705

Volume

Ph: 206-694-0600

Customer Name GHD 115626WA GHD SERVICES INC Carrier SELF SELF Vehicle# NRC22247

Ticket Date 12/09/2020 Payment Type Credit Account

Manual Ticket# Route

Hauling Ticket# Destinátion

34028879/115626WA PO#

Time Ιn 12/09/2020 07:42:05 Scale 1 Out 12/09/2020 08:03:51 Scale 1

Scale Operator kfunk2 kfunk2

Inbound

SCOTT LOIDHAMER

62540 lb Gross Tare 34560 lb Net 27980 lb Tons

13.99

NRC-KF MAN# 157446 BOX # 14

Pro	duct	LD%	Qty	MOU	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet EVF-P-Standard Environme		13.99	Tons				KING KING
3	GOND TON-GONDOLA PER TON		13.99	Tons				KING

Container

Billing# 0000372

Driver

Check#

Grid

Total Tax Total Ticket

S. Loudhand E. Driver`s Signature

RECEIVED

JAN - 4 2021

A c. habsten engine en canada par

À	NON-HAZARDOUS 1. Generator ID Number WASTE MANIFEST WAD 0 0 1 6 8 4 5	8 8 1	ergency Response Phone		446 -
	5. Generator's Name and Malling Address 6820 Corporate Drive Indianapolis IN 46278	25	ator's Site Address (if different than	mailing address)	
	Generator's Phone: 6. Transporter 1 Company Name	· .	· 	U.S. EPA ID Number	
	NRC Environmental Services			CAROOO	030114
	7. Transporter 2 Company Name	RECEIVI	P.D.	U.S. EPA ID Number	
	8. Designated Facility Name and Site Address VVM Columbia Fudge Landiil 18177 Ceder Springs Lane	JAN - 4 202	The second secon	U.S. EPA ID Number	
	Arlington OR 97812 Facilitie Phone: 541 4543030	DY:		080987	17345
	r dulity ST HOHE.	To provide the second control of the second	10. Containers	11. Total 12. Unit	
	Waste Shipping Name and Description		No. Type	Quantity Wt./Vol.	
GENERATOR -	Non-DOT/Non-Regulated Material (Soil)		001 CM	00020 Y	
ENE	2.				
	3.				
	4.				
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the conti	a #115626/VA RI 3 ±1 /4 ents of this consignment are fully	and accurately described above by	the proper shipping name, and a	re classified, packaged,
	marked and labeled/placarded, and are in all respects in proper condition for tra Generator's/Offeror's Printed/Typed Name	ansport according to applicable into Signature	ernational and national government	al regulations.	Month Day Year
1	Se Se Carres		24. 5° 2	Saveres	112 08 20
INT'L	15. International Shipments Import to U.S.	Export from U.S.	Port of entry/exit:		
-	Transporter Signature (for exports only): 16. Transporter Acknowledgment of Receipt of Materials	•	Date leaving U.S.:		
RTE	Transporter 1 Printed/Typed Name	A Signature	A STATE OF THE STA	<u></u>	Month Day Year
ISPC	Transporter 2 Printed/Typed Name	Signature Signature	1 22 (BZ_	Maryagam (NA co.)	12 68 26 Month Day Year
TRANSPORTER	Transporter 2 Printeur Typed Name	Signature			Day real
A	17. Discrepancy	1			
	17a. Discrepancy Indication Space Quantity] _{Type} [Residue	Partial Rejection	Full Rejection
		· Ma	nifest Reference Number:		A CONTRACTOR OF THE CONTRACTOR
È.	17b. Alternate Facility (or Generator)			U.S. EPA ID Number	
ACIL	Facility's Phone:				
ED F	17c. Signature of Alternate Facility (or Generator)		<u></u> :		Month Day Year
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- DESIGNATED FACILITY					
	18. Designated Facility Owner or Operator. Certification of receipt of materials cover				-
	Printed/Typed Name	Signature	Jan. 1	· ·	Month Day Year
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8th Ave Reload 7400 8th Ave S Seattle, WA, 98108

Original Ticket# 55717

Volume

Tare

Ph: 206-694-0600

Customer Name GHD 115626WA GHD SERVICES INC Carrier SELF SELF Vehicle# NRC22247

Ticket Date 12/09/2020 Payment Type Credit Account

Manual Ticket#

Route

Hauling Ticket#

Destination

PO#

34028879/115626WA Time

In 12/09/2020 09:46:41 Scale 1 Out 12/09/2020 10:10:49 Scale 1

Scale kfunk2

Operator Inbound Gross kfunk2

Grid

Container

Billing# 0000372

Driver

Check#

SCOTT LOIDHAMER

60560 lb 34480 lb 26080 lb

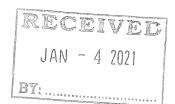
Net Tons 13.04

Comments NRC-KF MAN# 157446 BOX# 1

LD% Qty UOM Rate Tax Amount Origin Product 1 Daily Cover-PCS-Tons-Pet 100 13.04 Tons 2 EVF-P-Standard Environme 100 % 3 GOND TON-GONDOLA PER TON 100 13.04 Tons KING

> Total Tax Total Ticket

Driver's Signature 5 Low Mann



1		ON-HAZARDOUS ASTE MANIFEST	1. Generator ID Number (684588	2. Page 1 of 3. Eme	rgency Response		4. Waste Tr		mber 5 7 4 4 6 -	
	5, Ger	nerator's Name and Mailin	ng Address 6. LP CA GHD 8. Drive 46278		261	or's Site Address 10 1350 AV	a. SW	an mailing addre	ss)		9
		ator's Phone:									
		nsporter 1 Company Nam NRC Environm	nental Services		of the state of the			U.S. EPA ID N		00301	
	7. Trai	nsporter 2 Company Nam	ne		CEIVI			U.S. EPA ID N	Number		
	8 Doc	ignated Facility Name an	d Sita Addrass		AN - 1 202	1		U.S. EPA ID N	lumbor	•	
		ignated Facility Name and 18177 Cadar S Anaroth OR S	orings Lane	BY:	* N € ♣ II S C P P P P P P P P P P P P P P P P P P			0.3. EFA ID I	vumber		
	Facility	v's Phone:	4543030					OR	D 9 8	71734	15
		9. Waste Shipping Name	e and Description			10. Contai	ners Type	 Total Quantity 	12. Unit Wt./Vol.		
		1. Non-DOT/N	on-Regulated Materia	I (Soil)		INO.	Турс	adaminy	7713701		
GENERATOR		٠				001	CM	00020	Y		
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		4.									
	13. Sp	ecial Handling Instruction	ns and Additional Information	1) Profile #116/	529WA - RV	VIR 002468				ar in the	
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INT		porter Signature (for expo	rts only):	L	Export from U.S.	Port of ent	•				
├─-	16. Tra	ansporter Acknowledgmer	nt of Receipt of Materials		***	/)					
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ANSF		porter 2 Printed/Typed Na	4.	PAPER CO.	Signature		<u> </u>	4		Month Da	
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A		screpancy viscrepancy Indication Spa	ace								
			Quantity	Ш Туре	L	Residue		Partial Reje	ection	└─J Full R	ejection
	47L A	Harris Franklin (a. O	-1-5		Man	ifest Reference N	umber:	110 551 151			
FACILITY	1/D. A	Iternate Facility (or Gener	raior)					U.S. EPA ID N	iumber		′
FAC		r's Phone:	· ·								
4TED	17c. Si	ignature of Alternate Facil	lity (or Generator)		l				*	Month Da	y Year
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	10.5					rejani alija e	Maria Company				
		signated Facility Owner o	or Operator: Certification of receipt	or materials covered by the	manifest except as note Signature	o in Item 17a	<i>b</i>			Month Da	y Year
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8th Ave Reload 7400 8th Ave S Seattle, WA, 98108 Original Ticket# 55804

Ph: 206-694-0600

Customer Name GHD 115626WA GHD SERVICES INC Carrier SELF SELF Ticket Date 12/10/2020 Payment Type Credit Account Vehicle# NRC22247

Container

Volume

Manual Ticket#

Route

Driver Check#

SCOTT LOIDHAMER

Hauling Ticket#

Billing# 0000372 Grid

Rate

Destination 34028879/115626WA

Time Scale In 12/10/2020 13:17:09 Scale 1 Out 12/10/2020 13:35:11 Scale 1 kfunk2 kfunk2

Operator Inbound Gross Tare Net

Tons

55800 lb 34780 lb 21020 lb 10.51

Comments

Product

NRC-KF MAN# 157446 BOX # 6

Tax	Amount	Origin

______ 1 Daily Cover-PCS-Tons-Pet 100 10.51 Tons 2 EVF-P-Standard Environme 100 \$ 3 GOND TON-GONDOLA PER TON 100 10.51 Tons KING KING KING

LD% Qty UOM

Total Tax Total Ticket

Driver's Signature 5. Ladram

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JAN - 4 2021

To sergesuadearehosuase.xrvnaseee

l i	NON-HAZARDOUS 1. Generator ID Number	2. Page 1 of	3. Emer	gency Response F	Phone	4. Waste Tr	ackin g Nu	mber	
ľ	WASTE MANIFEST WADOO168458	3 1		866812				57446	٠
	5. Generator's Name and Mailing Address			or's Site Address (•	an mailing addre	ss)		
	Sheti Pipeline Co. LP c/a GHD 6520 Corporate Driva			e cesare re 5 136h Ave					
	Indianapola IN 48278	1	Set	ittle WA 98	134				
	Generator's Phone: 6. Transporter 1 Company Name					U.S. EPA ID I	Number		
	NRC Environmental Services	NACOUNT COLUMN	effice weeker	The sime and printing with		L CA	e o c	003(114
	7. Transporter 2 Company Name	18 13		IWEL	j.	U.S. EPA ID I			7
		- JA	NI	4 2021					
	Designated Facility Name and Site Address WW Columbia Ridge Landfill	JM	1/1	7 CUL1	36.7872299030	U.S. EPA ID I	Number		
	18177 Cedar Springs Lene	lay.		***********	DEPOSITION OF THE PERSON OF TH				
	Aringion OR 97812 Facility's Phone: 641 4643030	- man or a site	beiden and a second	48886688488888	2000	Los	D 9 8	. 7 1 7 2) A E
			· T	10, Contain	ners	11. Total	12. Unit		9 9 3
l	9. Waste Shipping Name and Description			No.	Туре	Quantity	Wt./Vol.		·
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	13. Special Handling Instructions and Additional Information	1 go om a /A	6793 A	82 000101					
	-1) Profile #11			N. ANYAGO					
	(5)	#6							
		,							
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of	this consignment a	uro fully an	d accurately descr	ribad abova b	u the proper chi	nning nam	and are classifie	d packaged
· .	marked and labeled/placarded, and are in all respects in proper condition for transport	according to applic	cable inter	national and nation	nal governme	ntal regulations.	pping nam		,
1	Generator's/Offeror's Printed/Typed Name	Sig	nature	and the second	*	Contraction of the Contraction o		Month	Day Year / ヘ ヱクマセ。
ų.	15. International Shipments		Arriver A	The second of the second	- L	- 2 ^{na}		1 200	10 zom
INT'L	Transporter Signature (for exports only):	Export from U	U.S.	Port of entr Date leavin	•			_	
	16. Transporter Acknowledgment of Receipt of Materials			Date leavill	g 0.5	•			
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	Quantity Type			Residue		∟ Parliai Heje	ection	шг	uli nejection
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Ţ	17b. Alternate Facility (or Generator)					U.S. EPA ID I	Number		
ACI	Faailinia Dhana					1			
EDF	Facility's Phone: 17c. Signature of Alternate Facility (or Generator)			777				Month	Day Year,
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	49. Designated Equility Owner or Operator Castifficially of castal of restablish	the monifest succession	n gayada u oo nata	Lin Hom 47-	<u> </u>				
+	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by Printed(Typed Name	•	ot as noted Ináture	i iii item 1/a	there are to be the wind the state of the st	· ·	*	Month	Day Year
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8th Ave Reload .7400 8th Ave S Seattle, WA, 98108 Original Ticket# 55815

Volume

Ph: 206-694-0600

Customer Name GHD 115626WA GHD SERVICES INC Carrier SELF SELF Ticket Date 12/10/2020 Vehicle# NRC22247

Ticket Date 12/10/2020 Payment Type Credit Account Manual Ticket#

Route

Hauling Ticket# Destination

34028879/115626WA

Scale 12/10/2020 14:41:59 Scale 1 In Out 12/10/2020 14:56:35

Scale 1

Grid

Container

Driver

Check#

Billing# 0000372

Operator kfunk2 kfunk2

Inbound Gross Tare

SCOTT LOIDHAMER

53680 lb 34620 lb

Net Tons 19060 lb 9.53

NRC-KF MAN# 157446 BOX# 7 Comments

Product		LD%	Qty	MOU	Rate	Tax	Amount	Origin
1 2 3	Daily Cover-PCS-Tons-Pet EVF-P-Standard Environme GOND TON-GONDOLA PER TON	100	9.53 9.53	Tons % Tons				KING

Total Tax Total Ticket

Driver's Signature 5. Londham

RECEIVED JAN - 4 2021 BT:

1	NON-HAZAR		1. Generator ID Number		1	·	Emergency Response	4. Waste Tracking Number					
	WASTE MAN 5. Generator's Nam		WAD001	68458	8	9	86681				57446	61	
	Sheli Pk 6520 Ci txilaneş	ielinė C Aporeti Iots IN	o. LP c/o GHD Drive			4	nerator's Site Addres Site (15 Septice 1 2005 (13 Site Av Septice (14 Septice 14 Septice	Terminal re. SW	an mailing addre	ess)			
	Generator's Phone: 6. Transporter 1 Co		ne						U.S. EPA ID	Number			
		' '	nental Services								0036	111	14
	7. Transporter 2 Co				RI	CE	WED		U.S. EPA ID				, (18)
	8. Designated Facil	ty Name an	d Site Address		1	AN -			U.S. EPA ID	Number			
	18177 (Albigo)	ledar S	prings Lene				The state of the s						
			4643030		BY:	**********	**********		OR	0 9 8	7173	1 4 8	ž
	9. Waste Sh	pping Name	e and Description	:			10. Conta	,	11. Total Quantity	12. Unit Wt./Vol.			
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			n'S CERTIFICATION: I hereby do ed, and are in all respects in pro	eclare that the contents of		signment are ful					e, and are classifie	d, packag	ged,
Ψ	Generator's/Offeror	s Printed/Ty	ped Name			Signatu	e				Month	Day	Year
INT'L	15. International Sh		Import to U.S.		☐ Ex	port from U.S.	Port of er						
	Transporter Signatu		rts only): nt of Receipt of Materials				Date leav	ving U.S.:			_		
RTE	Transporter 1 Printe	d/Typed Na	ime. ¿ (Signatu	e //		77—		Month	Day	Year
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Ā	17. Discrepancy										,		
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Ē	17b. Alternate Facili	ty (or Gene	rator)						U.S. EPA ID I	Number			
FAC	Facility's Phone:												
VATED	17c. Signature of Al	ternate Faci	lity (or Generator)								Month	Day	Year
DESIGNATED FACILITY	*												
+	18. Designated Faci Printed/Typed Name	•	or Operator: Certification of receip	ot of materials covered b	y the mani	fest except as r Signatur		110000			Month	Day	Year
¥	Trimed typed tyalli	M	HUNK	and and		Signatur	4-	A. Suderin	tul	(L/D	20



8th Ave Reload 7400 8th Ave S Seattle, WA, 98108 Original Ticket# 55844

Ph: 206-694-0600

Customer Name GHD 115626WA GHD SERVICES INC Carrier SELF SELF Ticket Date 12/11/2020
Payment Type Credit Account
Manual Ticket# Vehicle# NRC22247 Container

Driver

Volume

Route

Check#

SCOTT LOIDHAMER

Hauling Ticket# Destination

Billing# 0000372 Grid

PO# 34028879/115626WA

Time Scale 12/11/2020 10:39:50 Scale 1 Out 12/11/2020 11:01:04 Scale 1

Operator kfunk2 kfunk2

Gross Inbound Tare Net

Tons

55300 lb 33820 lb 21480 lb

10.74

NRC-KF MAN# 157446 BOX 11 Comments

Pro	duct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3	Daily Cover-PCS-Tons-Pet EVF-P-Standard Environme GOND TON-GONDOLA PER TON	100		•				KING KING KING

Total Tax Total Ticket

Driver's Signature 5. Leid Wayner

1 :

RECEIVED JAN - 4 2021 1 To

<u> </u>	NON-HAZARDOUS	1. Generator ID Number	2. Page 1 of 3	3. Emergency Response Ph	one	4. Waste Tra	acking Nur	nber	
П	WASTE MANIFEST	WAD 0 0 1 6 8 4 5 8		6668129				574.46	fo
	5. Generator's Name and Mailir	•	G	Generator's Site Address (if		mailing addre	ss)		
	Sheli Pipeline C 6620 Corporati	a. ur do sau e Dive		Shell Seetlie Ten 2555 135h Ave.					
	indianapolis IN		I	Seattle VVA 981					
	Generator's Phone: 6. Transporter 1 Company Nam	20				U.S. EPA ID N	lumbor		
	, , ,				. '				
	7. Transporter 2 Company Nam	nental Services			,]	U.S. EPA ID N	MUMber	0030	7 7 (
	,		KEC	EIVED		• • • • • • • • • • • • • • • • • • • •			
	Designated Facility Name an	d Site Address		4 2021		U.S. EPA ID N	lumber		
	WM Columbia i	Ridge Landfill	JAN	- 4 2021					
	18177 Cedar S Arlington OR S	176 (4)	12422						
	Facility's Phone:		[Dli	120-0868-18000-1-4-1-4		OR	0 9 8	7 1 7 3	45
	9. Waste Shipping Name	e and Description		10. Container		11. Total	12. Unit		
		- 1.00 m		No.	Туре	Quantity	Wt./Vol.		
OR	" Non-DOTAN	on-Regulated Material (Soil)							
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	13. Special Handling Instruction	ns and Additional Information	A so son sin som a A.A.	the state of the state of the state of		!		1 - 38 - 11 - 12 - 13 - 14 - 14 - 15 - 15	a type of the first telephone
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		s Management							
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		R'S CERTIFICATION: I hereby declare that the contents of led, and are in all respects in proper condition for transpor					pping name	e, and are classified,	, packaged,
	Generator's/Offeror's Printed/Ty	/ped Name	Signa	ture				Month	Day Year
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INT'L	15. International Shipments	Import to U.S.	Export from U.S	,					
-	Transporter Signature (for expo 16. Transporter Acknowledgme			Date leaving t	J.S.:				
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POF	Scott Co	dhever	2	Harris de la companya della companya	L. mitrour	gillering man		1/21.	11 20
TRANSPORTER	Transporter 2 Printed/Typed Na		Signa	turė				Month	Day Year
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	17a. Discrepancy Indication Spa	ace Quantity Type	9	Residue		Partial Reje	ection	Ful	II Rejection
				Manifort Deference North	nor:				
، ح	17b. Alternate Facility (or General	rator)		Manifest Reference Num		J.S. EPA ID N	lumber		·
듰									
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	Printed/Typed Name	La Lilla	Signa	ture	<u>~\</u>		£5.	Month	Day Year
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8th Ave Reload 47400 8th Ave S Seattle, WA, 98108 Original Ticket# 55855

Volume

Ph: 206-694-0600

Customer Name GHD 115626WA GHD SERVICES INC Carrier SELF SELF Vehicle# NRC22247

Ticket Date 12/11/2020
Payment Type Credit Account
Manual Ticket#

Route

Hauling Ticket# Destination

PO#

34028879/115626WA

Time Scale 12/11/2020 11:34:39 Ιn Out 12/11/2020 11:54:28

Scale 1 Scale 1

Operator kfunk2 kfunk2

Container

Billing# 0000372

Driver

Check#

Grid

Inbound

SCOTT LOIDHAMER

Gross Tare Net Tons

61780 lb 35240 lb 26540 lb 13.27

Comments

NRC-KF MAN# 157446 BOX# 12

Prod	duct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3	Daily Cover-PCS-Tons-Pet EVF-P-Standard Environme GOND TON-GONDOLA PER TON	100	13.27 13.27	%				KING KING KING

Total Tax Total Ticket

Driver's Signature S. Loudhum

RECEIVED

JAN - 4 2021

4	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number ** WADOO168		2. Page 1 of 3.	Emergency Response		4. Waste Tr		mber 5 7 4 4 6	461
	5. Generator's Name and Mailing Comments (Composite Composite Comp	d Drive	1	£	nerator's Site Addres Shell Seatle i 2555 135h Av Seatle VVA S	v. SVV	in mailing addre	ss)		
	Generator's Phone: 6. Transporter 1 Company Nam	ne nental Services	grownsonenessor-t-sage				U.S. EPA ID N		0030	and the second
	7. Transporter 2 Company Nam						U.S. EPA ID N			i i
	8. Designated Facility Name an VM Countries of 18177 Cedar S Arlington OR S	prings Lene 17812	CC-N/ GENNA	M 00 /	Providence - Tables		U.S. EPA ID N			
	Facility's Phone:	4543030			10. Cant				7 1 7 3	9 3
	9. Waste Shipping Name	e and Description			10. Conta	Type	11. Total Quantity	12. Unit Wt./Vol.		
GENERATOR —	1. Non-DOT/N	Ion-Regulated Material (Soll))		001		(X)()(2()	. 4		
GENE	2.					-		,		
	3.			. W						
	3.									
	4.		· · · · · · · · · · · · · · · · · · ·							
		R'S CERTIFICATION: I hereby declare that		onsignment are fu				pping name	e, and are classified	d, packaged,
	marked and labeled/placard Generator's/Offeror's Printed/Ty	ded, and are in all respects in proper condit yped Name	ion for transport accor	ding to applicable Signatu		ional governme	ntal regulations.		Month	Day Year
INT'L	15. International Shipments	Import to U.S.		Export from U.S.	Port of er	ntry/exit:				
9	Transporter Signature (for expo			•	Date leav	ring U.S.:				•
ORTEF	Transporter 1 Printed/Typed Na	ame	NOC	Signatu	re (Ar	the state of the s		Month	Day Year
TRANSPORTER	Transporter 2 Printed/Typed Na	ame	NEC	l Signatu I	re	F			Month	Day Year
H	17. Discrepancy	γ								
	17a. Discrepancy Indication Sp	Quantity	Туре		Residue		Partial Reje	ection	F	ull Rejection
					Manifest Reference	Number:				
CILITY	17b. Alternate Facility (or Gene	erator)					U.S. EPA ID N	Number		
FA.	Facility's Phone:	· .								
DESIGNATED FACILITY	17c. Signature of Alternate Fac	ility (or Generator)							Month	Day Year
DESIG										
	- \ ·	or Operator: Certification of receipt of mater	rials covered by the ma	<u> </u>		Wort tu				· · · · · · · · · · · · · · · · · · ·
V	Printed/Typed Name	FONL		Signatu 	re	- Commence	in the	g essecuring construction	Month	Day Year



PO#

8th Ave Reload ,7400 8th Ave S Seattle, WA, 98108

Original Ticket# 55904

Ph: 206-694-0600

Customer Name GHD 115626WA GHD SERVICES INC Carrier SELF SELF Ticket Date 12/15/2020
Payment Type Credit Account Vehicle# NRC22247 Volume Container Manual Ticket# Driver COLTON BROWN Route Check# Billing# 0000372 Hauling Ticket#

Destination Grid 34028879/115626WA

Gross 53900 lb Time Scale Operator Inbound 12/15/2020 07:38:59 Scale 1 kfunk2 Tare 33960 lb Scale 1 19940 lb Out 12/15/2020 07:58:31 kfunk2 Net Tons 9.97

NRC-KF MAN# 157446 Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2	Daily Cover-PCS-Tons-Pet EVF-P-Standard Environme		9.97	Tons				KING
3		100	9.97	Tons				

Total Tax Total Ticket

Driver's Signature C. Brown

RECEIVED JAN - 4 2021

	NON-HAZARDOUS VASTE MANIFEST	1. Generator ID Number 6	68458		3. Emergency Response		4. Waste Tr		mber 5 7 4 4 8 -
5. Generator's Name and Mailing Address Shell Placific Co. LP c/o GHD 6520 Corporate Drive Indianapolis IN 46278 Generator's Place and Mailing Address Shell Seattle Terminal 2555 136/1 Ave. SW Seattle WA 98134									
	erator's Phone: ansporter 1 Company Nam	ie					U.S. EPA ID I	Number	
		nental Services	1	processing the second second	and the same age with the same age.		CA	R 0 (0030112
7. Tr	ansporter 2 Company Nam	ne		REC i			U.S. EPA ID I		4 N. S. S. S. S. S. S. S. S. S. S. S. S. S.
				0000	4 0001				
	esignated Facility Name an Wini Columbia F 18177 Cedar Si Arilington OR 9 ity's Phone: 541	otings Lane		JAN BY:	4 2021		U.S. EPA ID I		3717345
I aciii	ity 3 i none.				10. Conta	ainers	11. Total	12. Unit	
	Waste Shipping Name	e and Description			No.	Туре	Quantity	Wt./Vol.	
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	3.								
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	nternational Shipments	Import to U.S.		Export from I		•			
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	puopu	Quantity	Ш Туре		Residue		Partial Reje	ection	Full Rejection
47'	Allered Feell's (O				Manifest Reference N	Number:	110 551 15		
1/0.	Alternate Facility (or Gener	aiui)					U.S. EPA ID I	number	
Engili									
_	ity's Phone:				,		!		
	ity's Phone: Signature of Alternate Facil	lity (or Generator)		. '1					Month Day
_	<u> </u>	lity (or Generator)							Month Day
17c. 9	Signature of Alternate Facil	lity (or Generator)	ot of materials covered by	the manifest excep	it as noted in Item ⁴ 17a				
17c. 9	Signature of Alternate Facil		ot of materials covered by		t as noted in Item 17a nature				
17c. 9	Signature of Alternate Facil		ot of materials covered by			me_	- (w		

*** 24 Hour Emergency Response Information, CALL SES (186) 681-2956 ***

CleanEarth.

SHIPPING PAPER

Lading Manifest: 092031-21

		DELIVERY DATE		JOB#4282342					
SHIPPER	R/CUSTOMER	POINT OF CONTA	CT						
EG	MUILON ENT LLC/DBA SHELL OIL TERMINAL		Bruce						
ADDRES	S	PHONE #							
25	55 13TH AVE SW	(20)	5)224-048	19					
CITY, ST			9						
SE	ATTLE WA 98134-0000								
	R/TRANSPORTER	PHONE #							
	EAN EARTH SPECIALTY WASTE	(61)	(612) 285-9865						
	NEE / FACILITY	POINT OF CONTA	СТ						
	RLINGTON ENVIRONMENTAL, LLC.								
ADDRES		PHONE #							
	01 East Alexander Avenue	(25)	3)627-756	8	-				
CITY, STA	COMA , WA 98421								
НМ	US DOT Description (Including Proper Shipping Name, Hazard Class, and ID N	umber)	Containers No. Type	Total Quantity	UOM				
A X	UN1203 GASOLINE 3 PGII ERG(128)		1,500						
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		1	/	2500					
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	ARTERIALS NOT REGULATED DI TRE DOT		DM		P				
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Special H	andling Instruction and Additional Information:								
a) 17	03846-00 - RECOVERABLE PRODUCT - GASOLINE - AF01 AF02 AF03 AF	04 (3) b) 882937-03 - RCRA EMP	TY CONTAINER	S PREVIOUSLY					
1	IN - REC27 (4) 1703846-00 Recoverble Product: RWR002468. 8829				4				
= 2									
	Provided YES NO								
packaged	'S CERTIFICATION: "I hereby declare that the contents of this consignment, marked and labelled/placarded, and are in all respects in proper condition for tify that all times listed above are true and correct.	are fully and accurately described abort transport according to applicable inter	ove by proper s national and na	hipping name and are itional governmental re	classified, gulations."				
	R) PRINT OR TYPE NAME SIGNATI	URE A		MONTH DAY	YEAR				
v –	Travis McNair	John Ille		2 17	21				
(CARRIE	R/TRANSPORTER) PRINT OR TYPE NAME SIGNATI	URE 0		MONTH DAY	YEAR				
(57.111121	Joi Cong	11 4 1		7 17	21				
X	NEE/FACILITY) PRINT OR TYPE NAME SIGNATION	Ju / 3/13		MONTH DAY	YEAR				
CONSIG	ALMO O TOIME	1 Saluto		2 17	2/				
X	AND X								

*** 24 Hour Emergency Response Information, CALL SES (186) 681-2956 ***

CleanEarth.

SHIPPING PAPER

Lading Manifest: 092031-21

		DELIVERY DATE		JOB#4282342					
SHIPPER	R/CUSTOMER	POINT OF CONTA	CT						
EG	MUILON ENT LLC/DBA SHELL OIL TERMINAL		Bruce						
ADDRES	S	PHONE #							
25	55 13TH AVE SW	(20)	5)224-048	19					
CITY, ST			9						
SE	ATTLE WA 98134-0000								
	R/TRANSPORTER	PHONE #							
	EAN EARTH SPECIALTY WASTE	(61)	(612) 285-9865						
	NEE / FACILITY	POINT OF CONTA	СТ						
	RLINGTON ENVIRONMENTAL, LLC.								
ADDRES		PHONE #							
	01 East Alexander Avenue	(25)	3)627-756	8	-				
CITY, STA	COMA , WA 98421								
НМ	US DOT Description (Including Proper Shipping Name, Hazard Class, and ID N	umber)	Containers No. Type	Total Quantity	UOM				
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(CARRIE	R/TRANSPORTER) PRINT OR TYPE NAME SIGNATI	URE 0		MONTH DAY	YEAR				
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CleanEarth

SHIPPING PAPER

Lading Manifest: 047376-21

	DELIVERY (DATE		ЈОВ# 426Ø149				
SHIPPER / CUSTOMER .	POINT OF C	ONTACT						
EQUILON ENT LLC/DBA SHELL OIL TERMINAL		Tia Bruc	26					
ADDRESS 2555 13TH AVE SW	PHONE #	PHONE # (206) 224-0489						
CITY, STATE, ZIP								
SEATTLE WA 98134-0000 CARRIER/TRANSPORTER	PHONE #							
NRC ENVIRONMENTAL SERVICES		(510)749	9-139	Ø				
CONSIGNEE / FACILITY	POINT OF CONTACT ·							
BURLINGTON ENVIRONMENTAL, LLC. ADDRESS	PHONE #	PHONE #						
20245 77th Avenue South		(253) 878	2-803	Ø				
CITY, STATE, ZIP KENT , WA 98032								
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Special Handling Instruction and Additional Information:			***************************************					
a) 1702314-00 - WATER - WATB05 (3)								
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l also certify that all times listed above are true and correct. (SHIPPER) PRINT OR TYPE NAME SIGNATURE				MONTH DAY	YEAR			
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(CARRIER/TRANSPORTER) PRINT OR TYPE NAME SIGNATURE				MONTH DAY	YEAR			
X BICORDO ALUMA	2			2 18	21			
(CONSIGNEE/FACILITY) PRINT OR TYPE NAME SIGNATURE				MONTH DAY 18	YEAR			
x Christine Santos x				0- 10	_/			

CONSIGNEE

*** 24 Hour Emergency Response Information, CALL SES (186) 681-2956 ***

CleanEarth

SHIPPING PAPER

Lading Manifest: 073759-21

	DELIVERY			JOB # 4275549				
SHIPPER / CUSTOMER		8-21						
	POINT OF C							
ADDRESS ENT LLC/DBA SHELL OIL TERMINAL	PHONE #	Tia Bru	ce					
		/20/1/20	A AAD	G	,			
2555 13TH AVE SW		(206)22	4-048	7				
SEATTLE WA 98134-0000								
CARRIER / TRANSPORTER	PHONE #							
NRC ENVIRONMENTAL SERVICES		(510)74	9-139	0				
CONSIGNEE / FACILITY	POINT OF C		<u> </u>	X				
BURLINGTON ENVIRONMENTAL. LLC.								
ADDRESS	PHONE #	PHONE #						
20245 77th Avenue South		(253)87	2-803	0				
CITY, STATE, ZIP								
KENT . WA 98032	1							
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X DALE MUCK (CONSIGNEE/FACILITY) PRINT OR TYPE NAME SIGNATURE	100			12/8	21			
(CONSIGNEE/FACILITY) PRINT OR TYPE NAME SIGNATURE				MONTH DAY	YEAR			
x Leslie Hanson x Asta	\rightarrow			2 18	21			

CleanEarth

SHIPPING PAPER

Lading Manifest: 111692-21

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		DELIVERY	DATE	11	JOB# 4296330			
	QUILON ENT LLC/DBA SHELL OIL TERMINAL	POINT OF C	OF CONTACT Tia Bruce					
ADDRES	S 555 13TH AVE S₩	PHONE #	(206)224-0489					
CITY, STA	ATE, ZIP EATTLE WA 98134-0000		(a. v b.) a. a.		4.4			
CARRIEF	R/TRANSPORTER RC ENVIRONMENTAL SERVICES	PHONE #	/E1A\7A	0 170				
CONSIGN	NEE / FACILITY	POINT OF C	(510)749-1390 CONTACT					
ADDRES		PHONE #	#					
CITY, STA	0245 77th Avenue South		(253)87	2-803	50			
	ENT , WA 98032				Ÿ			
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i also ceri	'S CERTIFICATION: "I hereby declare that the contents of this consignment are fully and accurr, marked and labelled/placarded, and are in all respects in proper condition for transport according ify that all times listed above are true and correct.	g to applicable	e international	l and nat	ional governmental regul	ations."		
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about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

Jacquelyn England Jacquelyn.england@ghd.com 707.540.9686

Jeff Gaarder jeff.gaarder@ghd.com 425.563.6504

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