Technical Memorandum

To:	Cameron Penner-Ash, LG, Ecology	Date:	January 7, 2026
From:	Meaghan Pollock, LG, MFA	Project No.:	M9003.01.063
Re:	Engineering Design Report Addendum		

On behalf of the Port of Ridgefield (the Port), Maul Foster & Alongi, Inc. (MFA) has prepared this memorandum as an addendum to the *Engineering Design Report*[1] for soil removal and restoration in impacted areas of the off-property portion (OPP) east of the former Pacific Wood Treating Co. (PWT) site in Ridgefield, Washington (see Figure).

This addendum provides the results of soil sampling completed in public rights-of-way (ROWs) within the Phase 2 cleanup area, as well as the remediation and restoration plans for Phase 2 properties and ROWs (see Attachments A and B, respectively).

Cleanup of Phase 1 properties was completed between August and November 2025. Cleanup of the Phase 2 properties and isolated stretches of ROW is expected to begin in spring 2026. After construction concludes in 2026, MFA will prepare a construction completion report documenting the cleanup activities for both Phase 1 and Phase 2 properties.

[1] MFA. 2025. *Off-Property Portion Engineering Design Report.* Prepared for the Port of Ridgefield, Maul Foster & Alongi, Inc. Vancouver, WA. February 20.

Attachments

Limitations

Figure

A—ROW Sampling Memo

B—Phase 2 Remediation and Restoration Plans

Limitations

The services undertaken in completing this technical memorandum were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This technical memorandum is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this technical memorandum apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this technical memorandum.

Figure

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Note
ROW = right of way.

Data Sources
Aerial photograph obtained from the U.S. Department of Agriculture; parcels obtained from Clark County (2024).

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Legend

Property Cleanup Status
- Phase 1 Cleanup Property
- Phase 2 Cleanup Property
- 2016 Cleanup Property (Completed)
- 2017 Cleanup Property (Completed)
- No Cleanup Needed

Right of Way Cleanup Status
- Phase 1 ROW Cleanup Area
- Phase 2 ROW Cleanup Area
- 2016 ROW Cleanup Area (Completed)
- 2017 ROW Cleanup Area (Completed)

- Off-Property Portion Site
- Parcel
- Railroad

0 150
Feet

Figure
Cleanup Status

Former Pacific Wood Treating Site
Ridgefield, WA

Print Date: 9/8/2025
Reviewed By: pwiescher
Produced By: jelstrott
Project: M9003.01.061

Attachment A

ROW Sampling Memo

MAUL FOSTER ALONGI

Technical Memorandum

To:	Cam Penner-Ash, LG, Ecology	Date:	September 9, 2025
From:	Meaghan Pollock, LG, MFA	Project No.:	M9003.01.063
Re:	Phase 2 Off-Property Portion 2025 Rights-of-Way Sample Results		

On behalf of the Port of Ridgefield (the Port), Maul Foster & Alongi, Inc. (MFA) has prepared this memorandum to summarize the results of soil sampling completed in public rights-of-way (ROWs) within the Phase 2 cleanup area. The Phase 2 cleanup area is part of the off-property portion (OPP) residential neighborhood east of the former Pacific Wood Treating Co. (PWT) site in Ridgefield, Washington (see Figure).

Sampling was conducted to determine the vertical extent of polychlorinated dibenzo-p-dioxins and dibenzofurans (dioxin/furan) in accordance with the 2025 Site-Specific Sampling and Analysis Plan (SSAP) and in coordination with the Washington State Department of Ecology (Ecology) (MFA 2025a, 2025b).

Background

Previous investigations at the OPP identified dioxin/furan toxicity equivalent (TEQ) concentrations exceeding the Model Toxics Control Act (MTCA) Method B CUL in residential yards and ROWs. The Phase 2 cleanup area was defined based on 2010–2011 ROW surface soil data (i.e., 0 to 0.5 foot below ground surface [bgs]) collected north of Hall Street and east of North 1st Avenue, as well as data collected in 2017 near the intersection of Elm Street and Railroad Avenue. Ecology determined that Phase 2 represents the final area requiring additional investigation (Ecology 2018, 2020).

The Phase 2 cleanup area encompasses five properties and associated ROWs, along with isolated ROW segments bounded by North Main Avenue (west), Maple Street (north), North 5th Avenue (east), and Pioneer Street (south) (see Figure). This memorandum describes the soil sampling results for the isolated ROW segments.

Sampling Procedures

Prior to fieldwork, MFA obtained an encroachment permit from the City of Ridgefield and completed public and private utility locates. Discrete surface (0 to 0.5 feet bgs) and subsurface (1.0 to 2.5 feet bgs) soil samples from multiple depth intervals were collected using a stainless-steel hand auger. The shallowest interval samples were analyzed upon collection. The deeper subsurface samples at ROW locations were archived and subsequently analyzed if dioxin/furan TEQ concentrations exceeded the CUL in the corresponding surface or shallower subsurface sample.

In May 2025, soil samples from 13 locations were collected and analyzed per the SSAP (MFA 2025a). Following discussions with Ecology, additional depth samples were collected in July 2025

(MFA 2025b). All samples were submitted under standard chain-of-custody procedures to Apex Laboratories (Tigard, Oregon) and subcontracted to the Ecology-accredit laboratory Enthalpy Analytical, LLC (El Dorado Hills, California) for dioxin/furan analysis by U.S. Environmental Protection Agency Method 8290A. Laboratory reports are provided in Attachment A. A data validation memorandum is included as Attachment B. The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

Results

Sample results are provided in Table 1 and compared to the MTCA Method B CUL of 13 nanograms per kilogram dioxin/furan TEQ.

Nine of the 13 samples collected in May 2025 were below the CUL. These samples were generally located on the east side of North 3rd Avenue, along portions of Division Street, and on a portion east of North Main Avenue.

Four of the May 2025 sample locations exceeded the CUL. These samples are located on the south side of Division Street between North 3rd and North 4th Avenue, on the east side of Main Avenue, and on the west side of North 3rd Avenue between Pioneer and Mill Street. Archived depth samples at these locations were analyzed; one location showed no exceedance at depth, while three required additional sampling. Deeper follow-up samples were collected at these locations in July 2025.

The sample results show that contamination is bounded vertically at all locations. Sample results and proposed remediation depths are provided in Table 2.

Findings and Conclusions

Soil samples were collected from the Phase 2 cleanup area to define the depth of remediation required in the ROWs. The results of this investigation identified the following:

- The surface soil sample collected from the ROW on the east side of North 3rd Avenue between Division Street and Maple Street (i.e., location ROW-P3-002) did not detect dioxin/furan TEQ above the CUL and has been removed from the Phase 2 cleanup area.
- Remaining isolated ROW segments require remediation between 1 and 2.5 feet bgs (see Table 2).

Attachments

References

Limitations

Figure

Tables

A—Analytical Laboratory Reports

B—Data Validation Memorandum

References

Ecology. 2018. Electronic mail (re: Phase 3 initiation - NNW area yard and ROW characterization) to P. Wiescher and L. Olin, from C. Rankine, Washington State Department of Ecology. November 19.

Ecology. 2020. Electronic mail (re: POR Off-Property Portion Work Phase) to P. Wiescher, L. Olin, M. Abbett, and A. Smith, from C. Rankine, Washington State Department of Ecology. May 7.

MFA. 2025a. *Site-Specific Sampling and Analysis Plan, Off-Property Portion, Former Pacific Wood Treating Co. Site*. Maul Foster & Alongi, Inc.: Vancouver, WA. April 14.

MFA. 2025b. Electronic mail (re: PWT – ROW follow up sample results and quick project update) to C. Penner-Ash, Washington State Department of Ecology, from M. Pollock, Maul Foster & Alongi, Inc. July 7.

Limitations

The services undertaken in completing this technical memorandum were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This technical memorandum is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this technical memorandum apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this technical memorandum.

Figure

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Path: X:\9003.01 Port of Ridgefield\063\Pro\M9003_01_063.aprx\Fig ROW Sample Results

Gee Creek

Hall St
Hall Cir
N Heron Dr
Elm St
N Railroad Ave
N 1st Ave
N Main Ave
N 3rd Ave
N 4th Pl
N 4th Ave
N 6th Ave
Maple St
Division St
Ash St
Mill St
Simons St
Pioneer St
BNSF Railway

SS-36 2.8
ROW-078NW 21.2
69234000
ROW-078N 47.9
ROW-078NE 14.0
SS-58 1.6
SS-59 1.0
ROW-002N 24.5
ROW-001 30.5
ROW-004 1.12
ROW-008 10.7
ROW RRW 22.4
SS-57 23
ROW-010W 20.4
ROW-010E 23.6
ROW-P3-001 1.0-2.0: 7.94
ROW-P3-002 0-0.5: 5.42
ROW-P2-001 23.4
ROW-005 46.9
SS-47 57
ROW-011 33.9
ROW-012 10.0
ROW-P3-003 1.0-2.0: 1.60
ROW-P2-002 22.5
ROW-P2-007 9.97
ROW-P2-009 26.9
ROW-P3-005 1.0-2.0: 8.49
ROW-P2-020 14.3
ROW-013 266
ROW-014 352
ROW-019 23.4
SS-56 1.7
ROW-P2-003 51
ROW-P3-004 1.0-2.0: 27.8 1.5-2.0: 5.75
ROW-P2-008 69.3
ROW-P2-021 31.8
ROW-P2-022 2.98
SS-48 27
ROW-016 24.7
ROW-P3-006 1.0-2.0: 2.28
ROW-P2-004 15.9
ROW-P3-008 1.0-2.0: 11.9
ROW-022W 58.9
ROW-022E 46.8
SS-43 48
ROW-P3-007 1.0-2.0: 62.2 1.5-2.0: 62.1 2.0-2.5: 3.04 2.5-3.0: 1.20
ROW-018 17.9
ROW-022 19.5
ROW-023 40.3
ROW-030 15.4
ROW-P2-011A 183
ROW-P2-010 3.53
SS-44 23
SS-49 20
ROW-P2-005 46.1
ROW-033W 51
ROW-025 47.1
ROW-026 14.7
ROW-036 16.0
ROW-P3-009 1.0-2.0: 7.82
ROW-P2-011B 101
SS-45 6.6
ROW-029B 34.9
SS-54 0.64
ROW-P2-006 18.2
ROW-P2-012 9.85
ROW-P2-013 3.59
ROW-038S 3.78
ROW-029BS 36.1
ROW-P2-015 9.84
ROW-P2-014 7.52
ROW-P3-010 1.0-2.0: 109 2.0-2.5: 32.1 2.5-3.0: 3.47 3.0-3.5: 3.86
ROW-P2-017 73.2
ROW-P3-011 1.0-2.0: 9.30
ROW-P2-016 277
ROW-P2-018 8.3
ROW-P2-019 11.5
ROW-P2-034 29.5
ROW-P3-012 1.0-2.0: 27.3 1.5-2.0: 32.3 2.0-2.5: 9.42 2.5-3.0: 12.7
ROW-P3-013 1.0-2.0: 4.08
ROW-P2-033 101

501

Notes

For subsurface soil samples, bolded results are above the MTCA B CUL for ROW Dioxin TEQ (> 13 ng/kg), and unbolded results are below the CUL.
For sample locations where duplicates were collected, the higher result of the two samples is shown.
All results dioxin TEQ ng/kg.
CUL = cleanup level.
MTCA B = Model Toxics Control Act Method B.
ng/kg = nanograms per kilogram.
ROW = right-of-way.
TEQ = toxicity equivalent.

Data Source
Aerial photograph obtained from the U.S. Department of Agriculture; parcels obtained from Clark County (2024).

Legend

2025 Sample Location ROW Dioxin TEQ Results (Depth: Result)
- Subsurface Soil
- Surface Soil, Below MTCA B CUL (< 13 ng/kg)

Previous Sample Location ROW Dioxin TEQ Results
- Surface Soil, Below MTCA B CUL (< 13 ng/kg)
- Surface Soil, Above MTCA B CUL (> 13 ng/kg)

- Phase 2 ROW Cleanup Area
- Phase 2 Cleanup Properties
- Phase 1 Off Property Portion
- Phase 2 Off Property Portion
- Phase 3 Off Property Portion
- Parcel (Cleanup ID)

Figure
ROW Sample Results

Former Pacific Wood Treating Site
Ridgefield, WA

0 100 200
Feet

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Print Date: 8/31/2025
Reviewed By: mpollock
Produced By: jelstrott
Project: M9003.01.063

Tables

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Table 1
ROW Soil Results
Former PWT Site
Ridgefield, Washington

Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	**Dioxin TEQ[(a)(1)(2)] (ng/kg)**	1,2,3,4,6,7,8-HpCDD (ng/kg)	1,2,3,4,6,7,8-HpCDF (ng/kg)	1,2,3,4,7,8,9-HpCDF (ng/kg)	1,2,3,4,7,8-HxCDD (ng/kg)	1,2,3,4,7,8-HxCDF (ng/kg)	1,2,3,6,7,8-HxCDD (ng/kg)	1,2,3,6,7,8-HxCDF (ng/kg)
ROW001	SS-ROW001-0.5	05/04/2016	0-0.5	Discrete	Phase 1 OPP	**30.5**	694	80.7	5.37 J	11.7	12.1	45.7	8.18 J
ROW004	SS-ROW004-0.5	05/07/2015	0-0.5	Discrete	Phase 1 OPP	1.12	21.2	6.66	0.303 J	0.391 J	0.517 J	1.09 J	0.378 J
ROW005	SS-ROW005-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	**46.9**	1,400	194	12.3	16.5	31.6	65.3	14.9
ROW005	SBS-ROW005-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	**38.1**	1,230	175	11.4	13.6	24	59.1	11
ROW005	SBS-ROW005-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	9.93	279	49.9	3.21	3.89	6.06	14.2	3.09
ROW008	SBS-ROW008-0.5	05/07/2015	0-0.5	Discrete	Phase 1 OPP	10.7	344	57.4	3.06 J	3.8 J	4.74 J	14.3	3.12 J
ROW010W	SS-ROW010W-0.5	11/02/2015	0-0.5	Discrete	Phase 1 OPP	**20.4**	533	114	6.24 J	6.91 J	19.1	28	8 J
ROW010W	SBS-ROW010W-1.5	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	1.09	27.5	5.45	0.393 J	0.351 J	0.784 J	1.19	0.419 J
ROW011	SS-ROW011-0.5	03/22/2016	0-0.5	Discrete	Phase 1 OPP	**33.9**	1,090	132	9.29	10.3	25.2	48.9	11.2
ROW011	SBS-ROW011-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	**14.8**	370	46.3	4.38 J	3.93 J	11.3	16.3	7.16
ROW012	SS-ROW012-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	10.0	345	44.1	2.5	3.34	4.29	16.3	2.9
ROW013	SS-ROW013-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	**266**	8,550	1,120	71.6	70.7	280	378	109
ROW013	SBS-ROW013-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	**241**	7,280	1,080	68.2	50.5	331	367	107
ROW013	SBS-ROW013-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	7.99	248	40.3	2.41	2.42	8.01	12	3.06
ROW014	SS-ROW014-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	**352**	11,100	1,700	99.9	88.6	403	569	161
ROW014	SS-ROW014-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	**70.4**	2,400	358	19.1	17.7	80.7	98.9	32.1
ROW014	SBS-ROW014-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	8.63	271	42.4	2.35	2.5	9.42	12.3	3.61
ROW016	SS-ROW016-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	**24.7**	665	105	5.25	8.74	17.3	34.2	8.35
ROW016	SBS-ROW016-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	**28.9**	861	115	8.26	11	24.6	50.5	11.3
ROW016	SBS-ROW016-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	3.8	113	14.9	0.89 J	1.39	2.63	5.02	1.45
ROW018	SS-ROW018-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	**17.9**	521	84.3	5.87	7.71	7.33	22.8	4.41
ROW018	SBS-ROW018-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	10.0	298	50.5	3.27	3.61	4.23	15.9	2.22 U
ROW019	SS-ROW019-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	**23.4**	673	93.5	5.15	7.15	19.6	31.9	7.93
ROW019	SBS-ROW019-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	**15.6**	437	69.1	4.74	4.82	16.2	24.1	6.27
ROW019	SBS-ROW019-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	**40.7**	1,220	197	10.5	12.8	40.9	54.8	16
ROW019	SBS-ROW019-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	7.94	229	40.2	2.14	2.18	9.1	11.3	3.39
ROW022	SS-ROW022-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	**19.5**	572	84.6	4.88	7.19	11.3	26.2	5.68
ROW022	SBS-ROW022-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	**23.1**	600	107	7.29	8.06	15.7	36.5	7.71
ROW022	SBS-ROW022-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	6.77	174	28.4	1.83	2.31	4.1	8.1	2.75
ROW022W	SS-ROW022W-0.5	11/02/2015	0-0.5	Discrete	Phase 1 OPP	**58.9**	1,750	342	20.1	21.4	47.7	84.4	23.3
ROW022W	SBS-ROW022W-1.5	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	4.98	154	27.6	1.83	1.44	3.41	6.35	1.85
ROW023	SS-ROW023-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	**40.3**	1,240	284	21.4	17	20.2	53.6	9.45
ROW023	SBS-ROW023-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	**38.7**	1,080	240	19.5	14	21.8	60.6	10.2
ROW023	SBS-ROW023-1.5	09/01/2015	1.0-1.5	Discrete	Phase 1 OPP	9.14	263	101	6.57	2.97	6.21	11.9	2.62
ROW023	SBS-ROW023-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	2.39	71.4	21.3	1.71	0.741 J	1.3	2.6	0.626 J
ROW025	SS-ROW025-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	**47.1**	1,430	186	12.1	22.3	17.5	63.6	10.9
ROW025	SBS-ROW025-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	**14.2**	395	60.8	4.26	5.44	6.64	22.4	4.16
ROW025	SBS-ROW025-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	9.10	207	34.9	2.37	3.77	4.73	12.2	2.38
ROW026	SS-ROW026-0.5	05/21/2015	0-0.5	Discrete	Phase 1 OPP	**14.7**	424	72.2	3.8	5.27	8.48	18.8	3.95
ROW026	SBS-ROW026-1.0	05/21/2015	0.5-1.0	Discrete	Phase 1 OPP	**23.6**	653	131	6.46	7.46	16.1	36.2	7.05

Table 1
ROW Soil Results
Former PWT Site
Ridgefield, Washington

Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	**Dioxin TEQ[a][1][2] (ng/kg)**	1,2,3,4,6,7,8-HpCDD (ng/kg)	1,2,3,4,6,7,8-HpCDF (ng/kg)	1,2,3,4,7,8,9-HpCDF (ng/kg)	1,2,3,4,7,8-HxCDD (ng/kg)	1,2,3,4,7,8-HxCDF (ng/kg)	1,2,3,6,7,8-HxCDD (ng/kg)	1,2,3,6,7,8-HxCDF (ng/kg)
ROW026	SBS-ROW026-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	**17.8**	460	83.5	4.72	5.75	15.2	24.9	6.62
ROW026	SBS-ROW026-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	8.81	232	44.1	2.47	2.68	8.03	11.9	3.44
ROW029B	SS-ROW029B-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	**34.9**	990	152	9.96	16.2	17.4	45.4	8.97
ROW029B	SBS-ROW029B-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	**19.6**	523	84.4	6.76	8.12	11.8	28.9	5.98 U
ROW029B	SBS-ROW029B-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	10.0	300	51.4	3.36	3.5	5.56	12.1	2.79
ROW030	SS-ROW030-0.5	04/30/2015	0-0.5	Discrete	Phase 1 OPP	**15.4**	430	70.2	3.52	6.25	8.45	21.4	4.38
ROW030	SS-ROW030-1.0	04/30/2015	0.5-1.0	Discrete	Phase 1 OPP	7.42	199	23.9	1.53	3.05	3.63	9.45	1.84
ROW033W	SS-ROW033W-0.5	11/02/2015	0-0.5	Discrete	Phase 1 OPP	**51.0**	999	248	15.1	14.7	36.5	58.3	32
ROW033W	SBS-ROW033W	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	**26.6**	463	107	8.1	6.1	22.4	25.5	22.3
ROW036	SS-ROW036-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	**16.0**	363	61.6	5.37	6.07	5.95	14.1	3.26
ROW036	SS-ROW036-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	0.746	13	2.78	0.214 J	0.266 J	0.447 J	0.539 J	0.261 J
ROWRRW	SS-ROWRRW-0.5	03/22/2016	0-0.5	Discrete	Phase 1 OPP	**22.4**	687	87.3	6.06	8.33	11.8	33.2	6.08
ROWRRW	SBS-ROWRRW-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	3.17	89.3	11.6	1.36 J	1.49 J	2.09 J	4.33 J	1.04 J
ROW-002N	ROW-002N-0.5	08/11/2016	0-0.5	Discrete	Phase 2 OPP	**24.5**	477	72.1	5.05	7.7	12.1	35.2	11.6
ROW010E	SS-ROW010E-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	**23.6**	561	101	6.69	6.84	19.9	29.8	10.7
ROW022E	SS-ROW022E-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	**41.8**	1,250	224	13.6	14.9	39.5	67.5	17
ROW022E	SS-ROW022E-0.5	11/02/2015	0-0.5	Discrete Dup	Phase 2 OPP	**46.8**	1,600	218	14.3	14.3	41.1	72.6	19.6
ROW029BS	SS-ROW029BS-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	**36.1**	990	197	14.5	13.3	26.3	50.3	9.76 J
ROW029BS	SBS-ROW029BS-1.5	11/02/2015	1.0-1.5	Discrete	Phase 2 OPP	2.15	55.6	8.46	0.797 J	0.608 J	1.31	2.37	0.54 J
ROW038S	SS-ROW038S-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	3.78	107	19.1	1 J	1.52 J	1.8 J	4.9 J	0.84 J
ROW-P2-001	ROW-P2-001-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	**23.4**	669 J	108	6.68	6.55	25.4	32.7	9.76
ROW-P2-002	ROW-P2-002-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	**22.5**	472	64.9	5.65	4.76 J	16.8	22.8	7.61
ROW-P2-002	ROW-P2-002-0.5-DUP	04/15/2016	0-0.5	Discrete Dup	Phase 2 OPP	**21.9**	451	63.4	5.51	4.52 J	16.5	23	7.68
ROW-P2-003	ROW-P2-003-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	**51.0**	1,580	213	12.1	13.2	50.4	76.6	20.3
ROW-P2-004	ROW-P2-004-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	**15.9**	568	58.3	3.07 J	3.7 J	7.27	29	3.32 J
ROW-P2-005	ROW-P2-005-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	**46.1**	1,440	197	10.6	12.2	40.4	75	16.4
ROW-P2-006	ROW-P2-006-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	**18.2**	499	86.3	5.29	5.25	17.9	23.6	6.21
ROW-P2-007	ROW-P2-007-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	9.97	335	54.4	3.79	2.81	5.99	13.4	2.26
ROW-P2-008	ROW-P2-008-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	**69.3**	2,200	557	42.9	22.7	45.2	83.3	17.8
ROW-P2-009	ROW-P2-009-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	**26.9**	69.3	39	8.15	2.26	42.6	12	20.3
ROW-P2-010	ROW-P2-010-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	3.53	118	15.3	0.945 J	0.842 J	2.45	5.05	1.04
ROW-P2-011A	ROW-P2-011A-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	**183**	5,290	813	58.9	45.2	228	305	83.8
ROW-P2-011B	ROW-P2-011B-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	**101**	2,880	426	30.1	27	119	150	48
ROW-P2-012	ROW-P2-012-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	9.85	287	34.7	2.05	3.19	7	13.2	2.81
ROW-P2-013	ROW-P2-013-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	3.59	116	13.5	0.862 J	1.28	2.03	5.15	0.821 J
ROW-P2-014	ROW-P2-014-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	7.52	234	29.1	1.86	2.36	5.25	10.3	2.01
ROW-P2-015	ROW-P2-015-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	9.84	308	43.3	2.58	3.38	5.78	15.4	2.28
ROW-P2-016	ROW-P2-016-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	**277**	2,440	1,800	71.4	93	393	606	130
ROW-P2-017	ROW-P2-017-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	**73.2**	2,440	302	17.8	18.5	82.2	105	29.2
ROW-P2-018	ROW-P2-018-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	8.26	209	39.5	2.52	2.22	5.01	10.4	2.38

Table 1
ROW Soil Results
Former PWT Site
Ridgefield, Washington

Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	**Dioxin TEQ[a][1][2] (ng/kg)**	1,2,3,4,6,7,8-HpCDD (ng/kg)	1,2,3,4,6,7,8-HpCDF (ng/kg)	1,2,3,4,7,8,9-HpCDF (ng/kg)	1,2,3,4,7,8-HxCDD (ng/kg)	1,2,3,4,7,8-HxCDF (ng/kg)	1,2,3,6,7,8-HxCDD (ng/kg)	1,2,3,6,7,8-HxCDF (ng/kg)
ROW-P2-019	ROW-P2-019-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	11.5	349	77.2	4.21	3.72	7.39	15.6	3.14
ROW-P2-020	ROW-P2-020-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	**14.3**	454	110	7.07	2.5	8.59	21	3.45
ROW-P2-021	ROW-P2-021-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	**30.8**	857	175	11.6	7.64	34	43.2	12.8
ROW-P2-022	ROW-P2-022-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	2.98	88.6	11.8	0.864 J	0.483 J	1.27	2.64	0.775 J
ROW-P2-033	ROW-P2-033-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	**101**	2,810 J	514	31.1	20	126	150	51.2
ROW-P2-034	ROW-P2-034-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	**29.5**	804	131	7.22	7.67	26.3	42.4	12.3
ROW078N	ROW-078N	11/22/2017	0-0.5	Discrete	Phase 3 OPP	**47.9**	985	150	10.3	19	22.7	60.2	12.4
ROW078NE	ROW-078NE	11/22/2017	0-0.5	Discrete	Phase 3 OPP	**14.0**	271	43.3	3.28 J	4.76 J	10.9	16.6	3.78 J
ROW078NW	ROW-078NW	11/22/2017	0-0.5	Discrete	Phase 3 OPP	**21.2**	445	58.3	3.35 J	7.98	7.41	29.8	4.18 J
ROW-P3-001	ROW-P3-001-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	7.94	77.7	13.6	1.15 J	1.11 J	3.26	4.63	3.18
ROW-P3-002	ROW-P3-002-0-0.5	05/01/2025	0-0.5	Discrete	Phase 3 OPP	5.42	154	23.1	1.73 J	1.96 J	2.03 J	6.49	1.34 J
ROW-P3-003	ROW-P3-003-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	1.60	33.9	6.22	0.425 J	0.405 J	1.10 J	2.12 J	0.680 J
ROW-P3-004	ROW-P3-004-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	**27.8**	781	125	7.75	7.52	27.1 J	38.7	12.3
ROW-P3-004	ROW-P3-004-1.5-2.0	05/01/2025	1.5-2.0	Discrete	Phase 3 OPP	5.75	169 J-	26.4 J-	2.39 J-	1.63 J	6.07 J	7.54 J	2.68 J
ROW-P3-005	ROW-P3-005-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	8.49	76.6	19.9	1.77 J	1.42 J	5.12 J	5.59	6.60
ROW-P3-006	ROW-P3-006-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	2.28	84.0	25.8	2.38 J	0.677 J	1.02 J	2.10 U	0.343 J
ROW-P3-007	ROW-P3-007-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	**62.2**	1,590	258	17.7	18.2	28.9 J	76.4	19.1
ROW-P3-007	ROW-P3-007-1.5-2.0	05/01/2025	1.5-2.0	Discrete	Phase 3 OPP	**62.1**	1,750 J	295 J	21.4 J	20.0 J	29.1 J	73.5 J	20.2 J
ROW-P3-007	ROW-P3-007-2.0-2.5	07/09/2025	2.0-2.5	Discrete	Phase 3 OPP	3.04	76.1	14.3	0.849 U	0.922 J	1.08 J	2.81	0.784 J
ROW-P3-007	ROW-P3-007-2.5-3.0	07/09/2025	2.5-3.0	Discrete	Phase 3 OPP	1.20	41.4	5.50	0.358 J	0.466 J	0.721 J	2.11 J	0.192 U
ROW-P3-008	ROW-P3-008-1.0-2.0	05/07/2025	1.0-2.0	Discrete	Phase 3 OPP	11.9	423	69.6	5.45 U	5.32	5.70	13.9	2.98
ROW-P3-009	ROW-P3-009-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	7.82	241	33.8	1.80 J	2.27 J	6.84	12.0	2.89
ROW-P3-010	ROW-P3-010-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	**109**	3,500	518	21.8	30.2	93.5	167	37.3
ROW-P3-010	ROW-P3-010-1.0-2.0-DUP	05/01/2025	1.0-2.0	Discrete Dup	Phase 3 OPP	**96.6**	2,840	445	18.7	23.4	81.8	137	32.1
ROW-P3-010	ROW-P3-010-2.0-2.5	05/01/2025	2.0-2.5	Discrete	Phase 3 OPP	**32.1**	948 J-	148 J-	7.45 J	7.25 UJ	23.9 J	40.7 J	10.8 J
ROW-P3-010	ROW-P3-010-2.5-3.0	07/09/2025	2.5-3.0	Discrete	Phase 3 OPP	3.47	90.6	12.5	0.669 J	0.747 J	2.60	4.11	1.10 J
ROW-P3-010	ROW-P3-010-3.0-3.5	07/09/2025	3.0-3.5	Discrete	Phase 3 OPP	3.86	114	16.2	0.827 J	1.11 J	2.67	4.77	1.13 U
ROW-P3-011	ROW-P3-011-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	9.30	289	41.7	2.54	2.70	8.25	14.4	3.97
ROW-P3-012	ROW-P3-012-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	**27.3**	390	66.2	4.23	4.36	14.3 J	21.8	11.4
ROW-P3-012	ROW-P3-012-1.5-2.0	05/01/2025	1.5-2.0	Discrete	Phase 3 OPP	**32.3**	608 J	105 J	7.52 J	7.50 J	20.6 J	32.1 J	16.8 J
ROW-P3-012	ROW-P3-012-2.0-2.5	07/09/2025	2.0-2.5	Discrete	Phase 3 OPP	9.42	249	35.0	2.13 J	2.30 J	6.04	11.4	3.23
ROW-P3-012	ROW-P3-012-2.5-3.0	07/09/2025	2.5-3.0	Discrete	Phase 3 OPP	12.7	311	43.6	2.63	3.18	8.01	15.1	4.83
ROW-P3-013	ROW-P3-013-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	4.08	116	16.1	1.02 J	1.14 J	3.37	6.28	1.72 J

Table 1
ROW Soil Results
Former PWT Site
Ridgefield, Washington

Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	1,2,3,7,8,9-HxCDD (ng/kg)	1,2,3,7,8,9-HxCDF (ng/kg)	1,2,3,7,8-PeCDD (ng/kg)	1,2,3,7,8-PeCDF (ng/kg)	2,3,4,6,7,8-HxCDF (ng/kg)	2,3,4,7,8-PeCDF (ng/kg)	2,3,7,8-TCDD (ng/kg)
ROW001	SS-ROW001-0.5	05/04/2016	0-0.5	Discrete	Phase 1 OPP	33.2	0.315 U	7.29 J	2.07 J	8.95 J	4.93 J	0.604 J
ROW004	SS-ROW004-0.5	05/07/2015	0-0.5	Discrete	Phase 1 OPP	0.876 J	0.143 U	0.259 J	0.1 U	0.301 J	0.148 J	0.111 J
ROW005	SS-ROW005-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	45.4	0.712 J	7.09	4.43	8.7	6.08	0.664
ROW005	SBS-ROW005-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	35.8	0.667 J	5.05	2.68	7.9	4.1	0.503 U
ROW005	SBS-ROW005-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	9.58	0.183 J	1.56	1.06	2.03	1.35	0.155 J
ROW008	SBS-ROW008-0.5	05/07/2015	0-0.5	Discrete	Phase 1 OPP	9.15	0.184 UJ	1.65 J	0.763 J	2.16 J	1.01 J	0.283 J
ROW010W	SS-ROW010W-0.5	11/02/2015	0-0.5	Discrete	Phase 1 OPP	17.2	0.314 J	2.53 J	1.81 J	6.04 J	3.54 J	0.392 J
ROW010W	SBS-ROW010W-1.5	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	0.847 J	0.106 J	0.163 J	0.185 J	0.448 J	0.209 J	0.0968 U
ROW011	SS-ROW011-0.5	03/22/2016	0-0.5	Discrete	Phase 1 OPP	28.1	0.658 J	2.95 J	4.14 J	8.91	7.25	0.473 J
ROW011	SBS-ROW011-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	9.34	1.42 J	1.71 J	2.57 J	7.12	4.84 J	0.828 J
ROW012	SS-ROW012-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	8.66	0.157 J	1.25	0.609 J	2.13	0.862 J	0.189 U
ROW013	SS-ROW013-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	188	4.57	23.4	36.3	60.3	58.6	1.49
ROW013	SBS-ROW013-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	142	5.01	16.3	37.4	66.7	63	2 U
ROW013	SBS-ROW013-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	6.92	0.159 J	0.671 J	1.08	2.12	1.15	0.109 U
ROW014	SS-ROW014-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	208	6.69	25.1	47.7	88.3	69.7	1.36
ROW014	SS-ROW014-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	42.4	1.3	4.54	8.48	17.8	12.7	0.217 U
ROW014	SBS-ROW014-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	6.41	0.174 J	0.707 J	1.33	2.13	1.58	0.109 U
ROW016	SS-ROW016-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	23.6	0.353 J	4.05	2.78	5.23	4.09	0.435
ROW016	SBS-ROW016-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	28.1	0.419 J	4.9 U	3.58	6.65	4.92	0.426 J
ROW016	SBS-ROW016-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	4.1	0.102 U	0.452 J	0.344 J	1.47	0.642 J	0.101 U
ROW018	SS-ROW018-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	20.4	0.216 J	3.29	1.31	2.71	1.54	0.396
ROW018	SBS-ROW018-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	11.3	0.103 U	1.62	0.776 J	1.61	0.918 J	0.249 J
ROW019	SS-ROW019-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	20.1	0.473 J	3.23	2.77	4.55	4.11	0.803
ROW019	SBS-ROW019-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	13.2	0.24 J	1.66	1.62	3.78	2.55	0.333 J
ROW019	SBS-ROW019-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	31.3	0.526 J	4.13	4.95	10.2	6.79	0.796
ROW019	SBS-ROW019-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	5.91	0.194 J	0.749 J	1.02	1.92	1.54	0.1 U
ROW022	SS-ROW022-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	20.1	0.278 J	2.98	1.79	3.71	2.76	0.43
ROW022	SBS-ROW022-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	24.3	0.311 J	3.54	2.34	5.08	3.57	0.352 J
ROW022	SBS-ROW022-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	6.42	0.119 J	1.11	0.648 J	2.68	1.4	0.193 U
ROW022W	SS-ROW022W-0.5	11/02/2015	0-0.5	Discrete	Phase 1 OPP	44.6	0.755 J	5.6 J	5.24 J	15.3	8.53 J	1.32 J
ROW022W	SBS-ROW022W-1.5	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	3.51	0.105 U	0.505 J	0.471 J	1.44	0.975 J	0.161 J
ROW023	SS-ROW023-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	42.5	0.439 J	6.08	2.34	6.75	3.09	0.484
ROW023	SBS-ROW023-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	37.5	0.41 J	6.75	2.81	6.76	3.74	0.466 J
ROW023	SBS-ROW023-1.5	09/01/2015	1.0-1.5	Discrete	Phase 1 OPP	8.04	0.136 J	1.02	0.617 J	1.95	0.95 J	0.106 U
ROW023	SBS-ROW023-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	2.36	0.106 U	0.315 J	0.149 J	0.543 J	0.264 J	0.106 U
ROW025	SS-ROW025-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	55.6	0.456 J	8.46	2.99	6.85	3.59	0.715
ROW025	SBS-ROW025-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	15.5	0.19 J	2.62	1.11	2.81	1.4	0.188 U
ROW025	SBS-ROW025-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	9.28	0.458 J	2.08	1.21	1.98	1.2	0.253
ROW026	SS-ROW026-0.5	05/21/2015	0-0.5	Discrete	Phase 1 OPP	13.1	0.22 J	2.59	1.42	2.1	1.88	0.494 J
ROW026	SBS-ROW026-1.0	05/21/2015	0.5-1.0	Discrete	Phase 1 OPP	23.3	0.284 J	3.5	2.43	4.12	3.09	0.566

Table 1
ROW Soil Results
Former PWT Site
Ridgefield, Washington

Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	1,2,3,7,8,9-HxCDD (ng/kg)	1,2,3,7,8,9-HxCDF (ng/kg)	1,2,3,7,8-PeCDD (ng/kg)	1,2,3,7,8-PeCDF (ng/kg)	2,3,4,6,7,8-HxCDF (ng/kg)	2,3,4,7,8-PeCDF (ng/kg)	2,3,7,8-TCDD (ng/kg)
ROW026	SBS-ROW026-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	15.6	0.229 J	2.69	2.31	3.88	3.19	0.451
ROW026	SBS-ROW026-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	7.87	0.218 J	1.11	1.18	1.93	1.68	0.213
ROW029B	SS-ROW029B-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	43.2	0.366 J	6.05	2.39	6.46	3.45	0.573
ROW029B	SBS-ROW029B-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	21.7	0.268 J	3.69	1.66	3.46	2.45	0.342 J
ROW029B	SBS-ROW029B-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	9.61	0.132 J	1.57	0.786 J	2.28	1.15	0.206
ROW030	SS-ROW030-0.5	04/30/2015	0-0.5	Discrete	Phase 1 OPP	20.9	0.151 J	2.78	1.24	2.71	1.47	0.296
ROW030	SS-ROW030-1.0	04/30/2015	0.5-1.0	Discrete	Phase 1 OPP	7.98	0.275 J	1.67	0.703 J	1.19	0.934 J	0.158 J
ROW033W	SS-ROW033W-0.5	11/02/2015	0-0.5	Discrete	Phase 1 OPP	36.3	0.586 J	8.08 J	5.13 J	34.7	16.2	1.15 J
ROW033W	SBS-ROW033W	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	13.5	0.278 J	3.81	3.17	25.7	12	0.604
ROW036	SS-ROW036-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	15.5	0.22 U	3.88	0.84 J	2.46	3.96	0.913
ROW036	SS-ROW036-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	0.555 J	0.0983 UJ	0.183 J	0.146 U	0.27 J	0.205 J	0.114 U
ROWRRW	SS-ROWRRW-0.5	03/22/2016	0-0.5	Discrete	Phase 1 OPP	21.5	0.447 J	3.04 J	2.34 J	4.62 J	3.3 J	0.41 J
ROWRRW	SBS-ROWRRW-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	3.18 J	0.386 UJ	0.658 UJ	0.642 UJ	0.95 J	0.818 UJ	0.275 U
ROW-002N	ROW-002N-0.5	08/11/2016	0-0.5	Discrete	Phase 2 OPP	23.1	0.284 U	4.99	2.1 J	10.6	6.75	0.572 J
ROW010E	SS-ROW010E-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	16.3	0.512 J	3.17	3.08	8.94	5.85	1.66
ROW022E	SS-ROW022E-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	34.9	0.56 J	4.13	4.69	11.2	7.66	0.432
ROW022E	SS-ROW022E-0.5	11/02/2015	0-0.5	Discrete Dup	Phase 2 OPP	35.1	0.717 J	4.62	5.02	12.7	8.08	0.449
ROW029BS	SS-ROW029BS-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	33.8	0.409 J	4.78 J	2.6 J	7.11 J	3.81 J	1.31 J
ROW029BS	SBS-ROW029BS-1.5	11/02/2015	1.0-1.5	Discrete	Phase 2 OPP	1.69	0.124 J	0.271 J	0.261 J	0.371 J	0.276 J	0.304
ROW038S	SS-ROW038S-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	4.65 J	0.221 U	0.638 J	0.21 U	0.672 J	0.261 U	0.186 U
ROW-P2-001	ROW-P2-001-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	15.6	0.526 J	2.32 J	3.64 J	5.27	5.91	0.128 U
ROW-P2-002	ROW-P2-002-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	12.5	0.613 J	4.56 J	2.82 J	7.34	7.97	1.36
ROW-P2-002	ROW-P2-002-0.5-DUP	04/15/2016	0-0.5	Discrete Dup	Phase 2 OPP	12.1	0.553 J	4.44 J	2.74 J	7.37	7.65	1.33
ROW-P2-003	ROW-P2-003-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	35.5	0.958 J	4.59 J	6.72	10.9	11	0.614 J
ROW-P2-004	ROW-P2-004-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	9.64	0.368 J	1.5 J	1.83 J	2.43 J	1.92 J	0.235 J
ROW-P2-005	ROW-P2-005-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	32.8	1.01 J	4.38 J	6.35	10.6	9.81	0.306 U
ROW-P2-006	ROW-P2-006-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	14.4	0.334 J	2.36 J	1.97 J	3.91 J	4.05 J	0.339 J
ROW-P2-007	ROW-P2-007-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	8.05	0.129 J	0.99 J	0.686 J	1.95	1.31	0.311 U
ROW-P2-008	ROW-P2-008-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	50.1	0.533 J	8.03	4.23	14.8	7.24	0.712
ROW-P2-009	ROW-P2-009-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	7.82	0.27 J	7.75	2.5	26.1	18.2	0.855
ROW-P2-010	ROW-P2-010-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	2.89	0.136 J	0.391 J	0.424 J	0.721 J	0.5 J	0.105 U
ROW-P2-011A	ROW-P2-011A-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	122	3.68	12	29	47.9	47.8	0.614
ROW-P2-011B	ROW-P2-011B-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	65.1	1.94	8.77	14.6	26	25.9	0.815
ROW-P2-012	ROW-P2-012-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	8.36	0.183 J	1.48	1.06	2.01	1.55	0.421
ROW-P2-013	ROW-P2-013-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	3.52	0.14 U	0.506 J	0.33 U	0.654 J	0.405 J	0.11 U
ROW-P2-014	ROW-P2-014-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	6.1	0.248 J	1.04	0.871 J	1.69	1.23	0.177 J
ROW-P2-015	ROW-P2-015-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	8.88	0.126 J	1.44	0.83 J	1.77	1.2	0.156 U
ROW-P2-016	ROW-P2-016-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	223	13.2	32.2	135	74.4	107	2.12
ROW-P2-017	ROW-P2-017-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	46.6	0.959 J	5.51	9.67	17.6	15.7	0.38
ROW-P2-018	ROW-P2-018-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	6.32	1.27	1.41	0.783 J	1.75	1.35	0.405

Table 1
ROW Soil Results
Former PWT Site
Ridgefield, Washington

Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	1,2,3,7,8,9-HxCDD (ng/kg)	1,2,3,7,8,9-HxCDF (ng/kg)	1,2,3,7,8-PeCDD (ng/kg)	1,2,3,7,8-PeCDF (ng/kg)	2,3,4,6,7,8-HxCDF (ng/kg)	2,3,4,7,8-PeCDF (ng/kg)	2,3,7,8-TCDD (ng/kg)
ROW-P2-019	ROW-P2-019-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	9.63	0.12 J	1.54	0.914 J	2.49	1.42	0.206
ROW-P2-020	ROW-P2-020-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	7.44	0.124 U	1.26	1.17	2.49	1.89	0.771
ROW-P2-021	ROW-P2-021-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	20.3	0.43 J	3.46	3.43	5.49	6.46	0.539
ROW-P2-022	ROW-P2-022-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	1.89	0.126 U	0.355 J	0.132 U	0.49 U	0.439 J	0.461
ROW-P2-033	ROW-P2-033-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	53.8	1.71	7.4	13.9	28.5	30.3	0.616
ROW-P2-034	ROW-P2-034-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	22.5	0.413 J	3.76	2.92	7.18	6.82	0.596
ROW078N	ROW-078N	11/22/2017	0-0.5	Discrete	Phase 3 OPP	37.8	6.18	9.97	3.45 J	18.3	18.2	0.922 J
ROW078NE	ROW-078NE	11/22/2017	0-0.5	Discrete	Phase 3 OPP	8.46	2.25 J	2.98 J	1.52 J	4.82 J	5.18	0.369 UJ
ROW078NW	ROW-078NW	11/22/2017	0-0.5	Discrete	Phase 3 OPP	16.6	2.21 J	4.75 J	1.66 J	5.68	3.81 J	1.87
ROW-P3-001	ROW-P3-001-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	2.25 J	0.817 J	1.09 J	0.737 J	2.87	11.8	0.594 U
ROW-P3-002	ROW-P3-002-0-0.5	05/01/2025	0-0.5	Discrete	Phase 3 OPP	3.88	0.224 U	1.17 J	0.409 U	0.667 J	0.774 J	0.198 U
ROW-P3-003	ROW-P3-003-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	0.849 J	0.150 J	0.299 J	0.257 J	0.609 J	1.20 U	0.0566 U
ROW-P3-004	ROW-P3-004-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	15.4	2.59	2.74	3.94	8.84	8.24	0.267 U
ROW-P3-004	ROW-P3-004-1.5-2.0	05/01/2025	1.5-2.0	Discrete	Phase 3 OPP	3.55 J	0.360 UJ	0.658 UJ	0.844 J	3.13 J	1.51 J	0.112 UJ
ROW-P3-005	ROW-P3-005-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	2.89	0.917 U	1.58 J	1.22 J	7.64	8.13	0.333 U
ROW-P3-006	ROW-P3-006-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	1.27 J	0.047 U	0.282 J	0.073 U	0.356 U	0.119 U	0.0705 U
ROW-P3-007	ROW-P3-007-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	37.1	2.60	8.39	4.19	15.0	34.6	0.629 U
ROW-P3-007	ROW-P3-007-1.5-2.0	05/01/2025	1.5-2.0	Discrete	Phase 3 OPP	43.2 J	5.28 J	9.92 J	4.84 J	19.1 J	17.3 J	0.503 UJ
ROW-P3-007	ROW-P3-007-2.0-2.5	07/09/2025	2.0-2.5	Discrete	Phase 3 OPP	2.45	0.267 J	0.563 J	0.253 J	0.916 J	1.03 J	0.187 U
ROW-P3-007	ROW-P3-007-2.5-3.0	07/09/2025	2.5-3.0	Discrete	Phase 3 OPP	0.900 J	0.111 U	0.120 U	0.211 U	0.370 J	0.360 U	0.0889 U
ROW-P3-008	ROW-P3-008-1.0-2.0	05/07/2025	1.0-2.0	Discrete	Phase 3 OPP	9.06	0.808 U	1.41 U	0.622 U	1.67 J	2.02 J	0.184 U
ROW-P3-009	ROW-P3-009-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	4.41	0.707 J	0.680 U	1.42 J	2.89	2.60	0.277 U
ROW-P3-010	ROW-P3-010-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	60.0	10.6	10.9	20.4	21.9	15.0 J	1.08
ROW-P3-010	ROW-P3-010-1.0-2.0-DUP	05/01/2025	1.0-2.0	Discrete Dup	Phase 3 OPP	46.4	9.69	9.27	17.9	17.2	34.2 J	0.948
ROW-P3-010	ROW-P3-010-2.0-2.5	05/01/2025	2.0-2.5	Discrete	Phase 3 OPP	14.9 J	4.60 UJ	3.80 J	6.01 J	8.76 J	12.1 J	0.286 UJ
ROW-P3-010	ROW-P3-010-2.5-3.0	07/09/2025	2.5-3.0	Discrete	Phase 3 OPP	1.65 J	0.354 J	0.564 J	0.648 J	0.721 U	1.61 J	0.0778 U
ROW-P3-010	ROW-P3-010-3.0-3.5	07/09/2025	3.0-3.5	Discrete	Phase 3 OPP	2.14 J	0.471 J	0.595 J	0.787 J	0.961 U	1.14 J	0.168 U
ROW-P3-011	ROW-P3-011-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	5.54	0.420 J	1.01 J	1.41 J	1.89 J	1.71 J	0.0791 U
ROW-P3-012	ROW-P3-012-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	8.36	3.65	2.63	2.75	10.4	38.2	0.234 U
ROW-P3-012	ROW-P3-012-1.5-2.0	05/01/2025	1.5-2.0	Discrete	Phase 3 OPP	15.8 J	4.19 J	4.45 J	4.34 J	18.1 J	24.3 J	0.403 UJ
ROW-P3-012	ROW-P3-012-2.0-2.5	07/09/2025	2.0-2.5	Discrete	Phase 3 OPP	5.26	0.601 J	1.34 J	1.24 J	2.39 J	4.74	0.0932 U
ROW-P3-012	ROW-P3-012-2.5-3.0	07/09/2025	2.5-3.0	Discrete	Phase 3 OPP	6.75	1.88 J	1.76 J	0.149 J	3.99	7.10	0.290 U
ROW-P3-013	ROW-P3-013-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	2.31 J	0.496 J	0.348 J	0.591 J	1.18 J	1.50 J	0.0591 U

Table 1
ROW Soil Results
Former PWT Site
Ridgefield, Washington

Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	2,3,7,8-TCDF (ng/kg)	OCDD (ng/kg)	OCDF (ng/kg)	Total HpCDDs (ng/kg)	Total HpCDFs (ng/kg)	Total HxCDDs (ng/kg)	Total HxCDFs (ng/kg)
ROW001	SS-ROW001-0.5	05/04/2016	0-0.5	Discrete	Phase 1 OPP	3.24 U	3,660	135	1,170	243	244	271
ROW004	SS-ROW004-0.5	05/07/2015	0-0.5	Discrete	Phase 1 OPP	0.38 U	122	8.05 J	36.9	14.3	6.79	9.45
ROW005	SS-ROW005-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	1.84	8,630	257	2,380	519	330	382
ROW005	SBS-ROW005-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	1.6 U	6,600	210	2,100	474	294	308
ROW005	SBS-ROW005-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	0.48 J	1,590	82.1	517	138	79.7	95.4
ROW008	SBS-ROW008-0.5	05/07/2015	0-0.5	Discrete	Phase 1 OPP	0.32 U	1,980	117	577	159	80.2	94.4
ROW010W	SS-ROW010W-0.5	11/02/2015	0-0.5	Discrete	Phase 1 OPP	1.18 J	3,740	204	906	309	152	227
ROW010W	SBS-ROW010W-1.5	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	0.15 J	157	11.1	46.3	14.2	6.26	10.7
ROW011	SS-ROW011-0.5	03/22/2016	0-0.5	Discrete	Phase 1 OPP	2.69	7,300	219	1,960	375	235	352
ROW011	SBS-ROW011-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	1.11	2,410	60	598	114	74.7	218
ROW012	SS-ROW012-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	0.569 UJ	2,160	72.6	601	116	74.9	85.6
ROW013	SS-ROW013-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	9.5 U	50,400	1,080	14,900	3,070	1,640	2,940
ROW013	SBS-ROW013-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	11.5	38,300	531	11,800	2,870	1,330	2,180
ROW013	SBS-ROW013-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	0.38 J	1,520	49.6	449	107	59.2	96.5
ROW014	SS-ROW014-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	11.2	66,200	1,440	18,900	4,370	2,190	4,700
ROW014	SS-ROW014-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	1.97	15,300	262	4,080	897	418	915
ROW014	SBS-ROW014-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	0.24 U	1,730	39.2	482	110	57	111
ROW016	SS-ROW016-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	1.56	3,860	133	1,200	270	190	213
ROW016	SBS-ROW016-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	0.11 U	4,460	112	1,540	320	246	306
ROW016	SBS-ROW016-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	0.17 J	578	16.8	204	36.2	28.3	42.7
ROW018	SS-ROW018-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	0.87 J	2,910	199	916	251	146	115
ROW018	SBS-ROW018-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	1.1 U	1,650	104	526	168	85.2	61.8
ROW019	SS-ROW019-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	1.21	3,540	87.4	1,080	229	144	192
ROW019	SBS-ROW019-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	0.64 J	2,400	46.3	735	178	103	163
ROW019	SBS-ROW019-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	1.31	8,410	160	2,190	493	277	488
ROW019	SBS-ROW019-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	0.28 J	1,660	28.4	391	96.9	50.5	95
ROW022	SS-ROW022-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	1.18	3,220	193	987	237	142	156
ROW022	SBS-ROW022-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	2.05	3,000	173	1,040	320	179	196
ROW022	SBS-ROW022-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	0.67 J	1,170	61.6	329	77	55.1	87.4
ROW022W	SS-ROW022W-0.5	11/02/2015	0-0.5	Discrete	Phase 1 OPP	1.66 J	13,300	920	2,900	1,010	418	617
ROW022W	SBS-ROW022W-1.5	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	0.21 U	1,130	73.3	265	78.6	31.5	52.4
ROW023	SS-ROW023-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	1.11	6,530	783	1,970	946	277	285
ROW023	SBS-ROW023-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	1.7 U	5,150	469	1,740	852	278	331
ROW023	SBS-ROW023-1.5	09/01/2015	1.0-1.5	Discrete	Phase 1 OPP	0.18 U	1,880	346	411	365	57.4	113
ROW023	SBS-ROW023-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	0.15 U	462	81.8	115	76.9	15.2	23.8
ROW025	SS-ROW025-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	1.73	8,360	385	2,390	512	373	285
ROW025	SBS-ROW025-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	0.787 J	1,930	87.7	666	174	118	97.4
ROW025	SBS-ROW025-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	0.59 J	1,250	58.6	384	95.2	64.9	59.4
ROW026	SS-ROW026-0.5	05/21/2015	0-0.5	Discrete	Phase 1 OPP	0.937 J	2,470	77.8	749	175	106	103
ROW026	SBS-ROW026-1.0	05/21/2015	0.5-1.0	Discrete	Phase 1 OPP	1.52	3,190	102	1,100	309	181	201

Table 1
ROW Soil Results
Former PWT Site
Ridgefield, Washington

Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	2,3,7,8-TCDF (ng/kg)	OCDD (ng/kg)	OCDF (ng/kg)	Total HpCDDs (ng/kg)	Total HpCDFs (ng/kg)	Total HxCDDs (ng/kg)	Total HxCDFs (ng/kg)
ROW026	SBS-ROW026-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	1.16	2,640	89.4	845	223	131	179
ROW026	SBS-ROW026-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	0.62 J	1,610	43.7	389	107	60.7	82.5
ROW029B	SS-ROW029B-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	1.34	5,360	311	1,810	424	303	209
ROW029B	SBS-ROW029B-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	1.32	2,540	127	995	250	174	145
ROW029B	SBS-ROW029B-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	0.61 J	2,010	144	579	161	80.9	92.8
ROW030	SS-ROW030-0.5	04/30/2015	0-0.5	Discrete	Phase 1 OPP	0.495	976	85.7	702	182	122	96.8
ROW030	SS-ROW030-1.0	04/30/2015	0.5-1.0	Discrete	Phase 1 OPP	0.34 U	924	32.4	322	60.1	50.9	42
ROW033W	SS-ROW033W-0.5	11/02/2015	0-0.5	Discrete	Phase 1 OPP	3.27	7,780	637	1,720	763	335	1,040
ROW033W	SBS-ROW033W	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	1.82	2,880	202	849	304	154	780
ROW036	SS-ROW036-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	2.11 U	2,520	223	630	212	109	87.2
ROW036	SS-ROW036-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	0.24 U	99.2	7.13	24.1	7.55	4.13	5.3
ROWRRW	SS-ROWRRW-0.5	03/22/2016	0-0.5	Discrete	Phase 1 OPP	1.9 U	4,530	143	1,240	242	167	195
ROWRRW	SBS-ROWRRW-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	0.449 J	553	22.3	149	32.3	22.1	26.4
ROW-002N	ROW-002N-0.5	08/11/2016	0-0.5	Discrete	Phase 2 OPP	4.21	2,710	78	802	191	169	330
ROW010E	SS-ROW010E-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	1.42	2,580	134	974	290	150	294
ROW022E	SS-ROW022E-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	1.42	3,690	324	2,060	624	310	459
ROW022E	SS-ROW022E-0.5	11/02/2015	0-0.5	Discrete Dup	Phase 2 OPP	1.35	3,210	325	2,760	597	319	483
ROW029BS	SS-ROW029BS-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	1.82 J	7,820	467	1,610	580	242	281
ROW029BS	SBS-ROW029BS-1.5	11/02/2015	1.0-1.5	Discrete	Phase 2 OPP	0.19 J	365	20.9	94.8	24.6	11.9	12.5
ROW038S	SS-ROW038S-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	0.302 J	803	45.1	190	51.7	30.1	23.7
ROW-P2-001	ROW-P2-001-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.829 J	5,280	99.8	1,150	295	137	283
ROW-P2-002	ROW-P2-002-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	3.63	3,400	109	822	195	137	221
ROW-P2-002	ROW-P2-002-0.5-DUP	04/15/2016	0-0.5	Discrete Dup	Phase 2 OPP	3.15	3,450	126	776	194	133	215
ROW-P2-003	ROW-P2-003-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	2.74	10,500	197	2,660	564	334	507
ROW-P2-004	ROW-P2-004-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.7 J	5,400	88.6	962	177	101	131
ROW-P2-005	ROW-P2-005-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	2.56	9,270	157	2,350	510	303	464
ROW-P2-006	ROW-P2-006-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.834 J	3,460	137	829	233	125	181
ROW-P2-007	ROW-P2-007-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.72 J	2,860	316	588	210	68	83.1
ROW-P2-008	ROW-P2-008-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	2.11	19,700	2,440	3,680	2,550	385	876
ROW-P2-009	ROW-P2-009-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	3.54	467	23.2	133	93	118	535
ROW-P2-010	ROW-P2-010-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.3 U	810	19.5	174	37.2	33.4	33.1
ROW-P2-011A	ROW-P2-011A-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	9.01	29,400	714	8,920	2,180	1,110	1,560
ROW-P2-011B	ROW-P2-011B-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	6.23	16,500	370	4,920	1,130	579	839
ROW-P2-012	ROW-P2-012-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.5 J	1,570	55.2	498	89.1	73.4	73.1
ROW-P2-013	ROW-P2-013-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.25 J	720	32.4	184	26.4	27.9	22.9
ROW-P2-014	ROW-P2-014-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.54 J	1,310	51.8	413	79.6	53.7	54.4
ROW-P2-015	ROW-P2-015-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.537 J	1,860 J	93.2	531	120	79.1	73.5
ROW-P2-016	ROW-P2-016-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	56.7	14,100	1,570	4,280	5,620	2,260	5,990
ROW-P2-017	ROW-P2-017-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	3.98	14,100	283	4,280	756	451	785
ROW-P2-018	ROW-P2-018-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	1.84	1,210	71.8	350	114	50.9	40

Table 1
ROW Soil Results
Former PWT Site
Ridgefield, Washington

Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	2,3,7,8-TCDF (ng/kg)	OCDD (ng/kg)	OCDF (ng/kg)	Total HpCDDs (ng/kg)	Total HpCDFs (ng/kg)	Total HxCDDs (ng/kg)	Total HxCDFs (ng/kg)
ROW-P2-019	ROW-P2-019-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	0.97 J	2,190	258	597	257	82.7	103
ROW-P2-020	ROW-P2-020-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	1.25	3,710	528 J	947	404	85.7	165
ROW-P2-021	ROW-P2-021-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	1.63	5,520	373	1,430	589	175	352
ROW-P2-022	ROW-P2-022-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	0.35 U	844	33.5	160	37.4	16.5	23
ROW-P2-033	ROW-P2-033-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	9.56	19,300 J	433	4,640	1,400	609	1,610
ROW-P2-034	ROW-P2-034-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	2.52	4,820	124	1,380	330	186	326
ROW078N	ROW-078N	11/22/2017	0-0.5	Discrete	Phase 3 OPP	2.41	6,720 J	315	1,720	428	368	338 J
ROW078NE	ROW-078NE	11/22/2017	0-0.5	Discrete	Phase 3 OPP	1.65	2,280	69.1	487	123	91 J	106 J
ROW078NW	ROW-078NW	11/22/2017	0-0.5	Discrete	Phase 3 OPP	1.17	2,800	67	797	152	174	128 J
ROW-P3-001	ROW-P3-001-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	0.925	532	15.8	135	37.2	30.2	118
ROW-P3-002	ROW-P3-002-0-0.5	05/01/2025	0-0.5	Discrete	Phase 3 OPP	0.303 J	1,440	56.9	299	71.5	46.6	36.9 J
ROW-P3-003	ROW-P3-003-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	0.179 U	272	8.89	60.6	17.8	10.1	19.4
ROW-P3-004	ROW-P3-004-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	1.49	5,900	133	1,340	346	165	389
ROW-P3-004	ROW-P3-004-1.5-2.0	05/01/2025	1.5-2.0	Discrete	Phase 3 OPP	0.440 J	1,250 J-	24.1 J-	311 J	78.8 J	38.1 J	81.5 J
ROW-P3-005	ROW-P3-005-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	1.35	571	34.9	139	60.8 J	40.5	264 J
ROW-P3-006	ROW-P3-006-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	0.0623 U	1,080	134	134	126	11.8 J	26.9 J
ROW-P3-007	ROW-P3-007-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	1.92	14,100	768	2,660	812	369	673 J
ROW-P3-007	ROW-P3-007-1.5-2.0	05/01/2025	1.5-2.0	Discrete	Phase 3 OPP	1.86 J	14,900 J	836 J	3,080 J	988 J	418 J	746 J
ROW-P3-007	ROW-P3-007-2.0-2.5	07/09/2025	2.0-2.5	Discrete	Phase 3 OPP	0.119 U	704	58.7	127	43.6 J	18.4 J	25.3 J
ROW-P3-007	ROW-P3-007-2.5-3.0	07/09/2025	2.5-3.0	Discrete	Phase 3 OPP	0.0965 U	285	9.15	71.1	14.2	9.8 J	12.2 J
ROW-P3-008	ROW-P3-008-1.0-2.0	05/07/2025	1.0-2.0	Discrete	Phase 3 OPP	0.336 U	4,960	310	697	229 J	71.6 J	109 J
ROW-P3-009	ROW-P3-009-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	0.505	1,660	26.7	407	84.8	51.7	90.2 J
ROW-P3-010	ROW-P3-010-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	5.71	28,100	380	5,480	1,380	666 J	1,390
ROW-P3-010	ROW-P3-010-1.0-2.0-DUP	05/01/2025	1.0-2.0	Discrete Dup	Phase 3 OPP	4.74 U	24,900	323	4,770	1,190	556	1,220
ROW-P3-010	ROW-P3-010-2.0-2.5	05/01/2025	2.0-2.5	Discrete	Phase 3 OPP	1.67 J	8,680 J-	111 J-	1,710 J	437 J	185 J	403 J
ROW-P3-010	ROW-P3-010-2.5-3.0	07/09/2025	2.5-3.0	Discrete	Phase 3 OPP	0.294 J	664	11.3	150	34.4	19.9	43.2 J
ROW-P3-010	ROW-P3-010-3.0-3.5	07/09/2025	3.0-3.5	Discrete	Phase 3 OPP	0.283 U	882	13.5	190	42.4	22.5	46.0 J
ROW-P3-011	ROW-P3-011-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	0.545	1,930	29.4	492	104	63	117 J
ROW-P3-012	ROW-P3-012-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	1.54	2,760	66.5	669	173 J	113	390 J
ROW-P3-012	ROW-P3-012-1.5-2.0	05/01/2025	1.5-2.0	Discrete	Phase 3 OPP	2.37 J	3,990 J	111 J	1,090 J	307 J	184 J	581 J
ROW-P3-012	ROW-P3-012-2.0-2.5	07/09/2025	2.0-2.5	Discrete	Phase 3 OPP	0.431 J	1,800	33.9	431	88.3	57.4	102
ROW-P3-012	ROW-P3-012-2.5-3.0	07/09/2025	2.5-3.0	Discrete	Phase 3 OPP	0.482 J	2,140	39.4	542	109	76.9	135 J
ROW-P3-013	ROW-P3-013-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	0.208 U	812	13.6	197	40.3	26	47.6 J

Table 1
ROW Soil Results
Former PWT Site
Ridgefield, Washington

Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	Total PeCDDs (ng/kg)	Total PeCDFs (ng/kg)	Total TCDDs (ng/kg)	Total TCDFs (ng/kg)	Total Organic Carbon (mg/kg)
ROW001	SS-ROW001-0.5	05/04/2016	0-0.5	Discrete	Phase 1 OPP	36 J	96.8 J	3.61	11.9 J	16,000
ROW004	SS-ROW004-0.5	05/07/2015	0-0.5	Discrete	Phase 1 OPP	0.636 J	3.07 J	0.263 J	0.792 J	4,000
ROW005	SS-ROW005-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	31.6	56.7	4.92	13	15,000
ROW005	SBS-ROW005-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	24.2	55.4	0.583 U	6.54	17,000
ROW005	SBS-ROW005-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	8.03	19.1	0.639	6.56	9,900
ROW008	SBS-ROW008-0.5	05/07/2015	0-0.5	Discrete	Phase 1 OPP	9.11	29.8	1.52	6.64	16,000
ROW010W	SS-ROW010W-0.5	11/02/2015	0-0.5	Discrete	Phase 1 OPP	15.5	114	4.97	30	21,000
ROW010W	SBS-ROW010W-1.5	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	0.505 J	7.29	0.245	2.3	8,400
ROW011	SS-ROW011-0.5	03/22/2016	0-0.5	Discrete	Phase 1 OPP	15.1	199	5.62	43.5	18,000
ROW011	SBS-ROW011-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	5.57	182	1.86	30.3	9,600
ROW012	SS-ROW012-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	4.94	24.7	1.16	6.44	15,000
ROW013	SS-ROW013-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	112	462	13.4	57.4	20,000
ROW013	SBS-ROW013-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	48	423	2 U	15.3	15,000
ROW013	SBS-ROW013-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	2.29	13.6	0.109 U	2.04	6,800
ROW014	SS-ROW014-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	104	1,100	8.54	64.8	19,000
ROW014	SS-ROW014-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	20	241	1.64	18.7	11,000
ROW014	SBS-ROW014-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	2.43	13.6	0.109 U	1.2	8,400
ROW016	SS-ROW016-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	21.8	43.9	1.87	5.38	20,000
ROW016	SBS-ROW016-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	25	134	5.22	20.6	18,000
ROW016	SBS-ROW016-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	2.25	12.3	0.101 U	2.22	3,800
ROW018	SS-ROW018-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	18.5	18.7	2.49	6.25	19,000
ROW018	SBS-ROW018-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	8.45	22.3	2.71	9.88	18,000
ROW019	SS-ROW019-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	12.4	30.8	1.28	2.41	14,000
ROW019	SBS-ROW019-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	6.57	48.2	0.892 J	4.26	10,000
ROW019	SBS-ROW019-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	17.3	70.3	2.98	13.4	9,100
ROW019	SBS-ROW019-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	2.52	15.5	0.14 J	2.63	4,000
ROW022	SS-ROW022-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	15.4	29.8	3.04	12.3	21,000
ROW022	SBS-ROW022-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	18.9	95.9	3.38	27.1	16,000
ROW022	SBS-ROW022-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	7.03	32.1	1.94	12.9	14,000
ROW022W	SS-ROW022W-0.5	11/02/2015	0-0.5	Discrete	Phase 1 OPP	35.6	288	9.47	62.9	16,000
ROW022W	SBS-ROW022W-1.5	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	2.7	31.8	1.07	8.05	12,000
ROW023	SS-ROW023-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	26.1	23.7	2.76	5.01	24,000
ROW023	SBS-ROW023-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	30.9	66.1	4.08	15	16,000
ROW023	SBS-ROW023-1.5	09/01/2015	1.0-1.5	Discrete	Phase 1 OPP	4.41	12.3	1.41	3.72	10,000
ROW023	SBS-ROW023-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	1.26	2.94	0.215	0.779	11,000
ROW025	SS-ROW025-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	41.7	47.8	6.55	17.9	21,000
ROW025	SBS-ROW025-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	12.5	41	2.19	12	13,000
ROW025	SBS-ROW025-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	8.27	10.1	1.16	3.99	9,200
ROW026	SS-ROW026-0.5	05/21/2015	0-0.5	Discrete	Phase 1 OPP	15.4	20.4	4.57	8.44	20,000
ROW026	SBS-ROW026-1.0	05/21/2015	0.5-1.0	Discrete	Phase 1 OPP	19.4	37	5.07	12.8	12,000

Table 1
ROW Soil Results
Former PWT Site
Ridgefield, Washington

Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	Total PeCDDs (ng/kg)	Total PeCDFs (ng/kg)	Total TCDDs (ng/kg)	Total TCDFs (ng/kg)	Total Organic Carbon (mg/kg)
ROW026	SBS-ROW026-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	17.5	29.2	3.85	12.6	9,600
ROW026	SBS-ROW026-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	6.98	16.5	1.83	5.34	7,900
ROW029B	SS-ROW029B-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	31.5	37.7	4.35	10.9	16,000
ROW029B	SBS-ROW029B-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	15.3	60.6	3.73	14.9	16,000
ROW029B	SBS-ROW029B-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	9.66	19.2	1.02	4.84	13,000
ROW030	SS-ROW030-0.5	04/30/2015	0-0.5	Discrete	Phase 1 OPP	13.8	15	2.4	4.79	15,000
ROW030	SS-ROW030-1.0	04/30/2015	0.5-1.0	Discrete	Phase 1 OPP	6.13	11.6	1.04	2.29	9,400
ROW033W	SS-ROW033W-0.5	11/02/2015	0-0.5	Discrete	Phase 1 OPP	59.3	1,270	18.5	373	22,000
ROW033W	SBS-ROW033W	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	38.4	1,010	12.7	277	14,000
ROW036	SS-ROW036-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	22.2	39.7	3.9	60.3	12,000
ROW036	SS-ROW036-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	0.796 J	3.47	0.944	3.68	11,000
ROWRRW	SS-ROWRRW-0.5	03/22/2016	0-0.5	Discrete	Phase 1 OPP	13.2	91.2	2.24	20.7	14,000
ROWRRW	SBS-ROWRRW-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	1.51 J	12.7	0.158 J	2.63	9,000
ROW-002N	ROW-002N-0.5	08/11/2016	0-0.5	Discrete	Phase 2 OPP	29.3	368	7.91	95.3	29,000
ROW010E	SS-ROW010E-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	20.3	248	7.33	66.8	19,000
ROW022E	SS-ROW022E-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	21.9	220	5.28	38.1	14,000
ROW022E	SS-ROW022E-0.5	11/02/2015	0-0.5	Discrete Dup	Phase 2 OPP	18.1	199	5.41	28.7	15,000
ROW029BS	SS-ROW029BS-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	21.5	84.1	6.54	18.2	15,000
ROW029BS	SBS-ROW029BS-1.5	11/02/2015	1.0-1.5	Discrete	Phase 2 OPP	0.753 J	4.86	0.663	1.46	9,200
ROW038S	SS-ROW038S-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	1.76 J	5.69 J	0.253 J	1.07 J	17,000
ROW-P2-001	ROW-P2-001-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	7.29	92.1	0.439 J	6.03	4,500
ROW-P2-002	ROW-P2-002-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	37.6	130	11.4	63.8	16,000
ROW-P2-002	ROW-P2-002-0.5-DUP	04/15/2016	0-0.5	Discrete Dup	Phase 2 OPP	37.1	111	10.2	54.4	19,000
ROW-P2-003	ROW-P2-003-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	23.4	132	6.11	32.8	16,000
ROW-P2-004	ROW-P2-004-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	5.29	33.6	0.992 J	4	8,400
ROW-P2-005	ROW-P2-005-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	17.1	102	1.46	13.7	15,000
ROW-P2-006	ROW-P2-006-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	12.7	78.2	2.72	15.5	21,000
ROW-P2-007	ROW-P2-007-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	5.79	17	0.896	6.69	22,000
ROW-P2-008	ROW-P2-008-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	32	110	2.77	28	26,000
ROW-P2-009	ROW-P2-009-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	56.8	368	10.1	133	16,000
ROW-P2-010	ROW-P2-010-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	2.7	5.84	0.162 J	1.76	9,200
ROW-P2-011A	ROW-P2-011A-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	40.1	234	3.59	26.9	21,000
ROW-P2-011B	ROW-P2-011B-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	30.8	139	4.93	25.1	15,000
ROW-P2-012	ROW-P2-012-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	8.26	17.8	0.964	4.84	13,000
ROW-P2-013	ROW-P2-013-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	2.12	4.06	0.34	1.08	12,000
ROW-P2-014	ROW-P2-014-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	4.85	11.6	0.522	2.94	17,000
ROW-P2-015	ROW-P2-015-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	7.83	14.6	0.973	4.96	20,000
ROW-P2-016	ROW-P2-016-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	107	988	6.04	110	19,000
ROW-P2-017	ROW-P2-017-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	24.5	141	2.62	25.9	16,000
ROW-P2-018	ROW-P2-018-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	7.31	8.17	1.99	8.62	19,000

Table 1
ROW Soil Results
Former PWT Site
Ridgefield, Washington

Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	Total PeCDDs (ng/kg)	Total PeCDFs (ng/kg)	Total TCDDs (ng/kg)	Total TCDFs (ng/kg)	Total Organic Carbon (mg/kg)
ROW-P2-019	ROW-P2-019-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	9.54	17.3	1.45	8.13	28,000
ROW-P2-020	ROW-P2-020-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	9.29	48.4	11.7 J	15.1	35,000
ROW-P2-021	ROW-P2-021-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	16.6	123	5.19	19.5	35,000
ROW-P2-022	ROW-P2-022-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	1.25	18.1	0.461	4.88	16,000
ROW-P2-033	ROW-P2-033-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	46.4	888	14.2	163	23,000
ROW-P2-034	ROW-P2-034-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	21.9	214	6.7	54.3	25,000
ROW078N	ROW-078N	11/22/2017	0-0.5	Discrete	Phase 3 OPP	64.6	248 J	14 J	60.5	29,000
ROW078NE	ROW-078NE	11/22/2017	0-0.5	Discrete	Phase 3 OPP	18.7 J	55.3 J	7.91 U	26.9 J	29,000
ROW078NW	ROW-078NW	11/22/2017	0-0.5	Discrete	Phase 3 OPP	34 J	48.9 J	13.5 J	16.8	30,000
ROW-P3-001	ROW-P3-001-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	9.68 J	180	4.88 U	71.3	--
ROW-P3-002	ROW-P3-002-0-0.5	05/01/2025	0-0.5	Discrete	Phase 3 OPP	8.38 J	14.9 J	2.49 U	6.14 J	--
ROW-P3-003	ROW-P3-003-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	1.33 J	19.1 J	0.195 J	4.31 U	--
ROW-P3-004	ROW-P3-004-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	16.3 J	213	3.62 U	45.3 J	--
ROW-P3-004	ROW-P3-004-1.5-2.0	05/01/2025	1.5-2.0	Discrete	Phase 3 OPP	3.74 UJ	47.1 J	0.13 UJ	7.58 J	--
ROW-P3-005	ROW-P3-005-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	15.9 J	459 J	5.15 U	149 J	--
ROW-P3-006	ROW-P3-006-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	0.797 J	3.44 U	0.175 U	0.547 UJ	--
ROW-P3-007	ROW-P3-007-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	47 J	521 J	11.2 U	117	--
ROW-P3-007	ROW-P3-007-1.5-2.0	05/01/2025	1.5-2.0	Discrete	Phase 3 OPP	56.2 J	615 J	10.4 UJ	108 J	--
ROW-P3-007	ROW-P3-007-2.0-2.5	07/09/2025	2.0-2.5	Discrete	Phase 3 OPP	3.86 J	14.2	0.187 U	2.95 U	--
ROW-P3-007	ROW-P3-007-2.5-3.0	07/09/2025	2.5-3.0	Discrete	Phase 3 OPP	0.12 U	5.28 U	0.0889 U	0.878 U	--
ROW-P3-008	ROW-P3-008-1.0-2.0	05/07/2025	1.0-2.0	Discrete	Phase 3 OPP	4.95 J	30.5 J	0.184 U	2.78 U	--
ROW-P3-009	ROW-P3-009-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	3.99 U	34.6 J	1.15 U	7.07 J	--
ROW-P3-010	ROW-P3-010-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	47.7 J	449	7.53 J	51.4 J	--
ROW-P3-010	ROW-P3-010-1.0-2.0-DUP	05/01/2025	1.0-2.0	Discrete Dup	Phase 3 OPP	43.9	404 J	5.88 J	43 U	--
ROW-P3-010	ROW-P3-010-2.0-2.5	05/01/2025	2.0-2.5	Discrete	Phase 3 OPP	16.9 J	129 J	2.92 UJ	15.8 J	--
ROW-P3-010	ROW-P3-010-2.5-3.0	07/09/2025	2.5-3.0	Discrete	Phase 3 OPP	3.09 J	18.3 J	0.347 J	4.45 J	--
ROW-P3-010	ROW-P3-010-3.0-3.5	07/09/2025	3.0-3.5	Discrete	Phase 3 OPP	2.43 J	13.5 J	0.168 J	1.96 U	--
ROW-P3-011	ROW-P3-011-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	4.32 J	44.1	0.468 UJ	6.68 J	--
ROW-P3-012	ROW-P3-012-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	20.2 J	462 J	4.02 U	104 J	--
ROW-P3-012	ROW-P3-012-1.5-2.0	05/01/2025	1.5-2.0	Discrete	Phase 3 OPP	37.7 J	710 J	8.66 UJ	137 J	--
ROW-P3-012	ROW-P3-012-2.0-2.5	07/09/2025	2.0-2.5	Discrete	Phase 3 OPP	7.63 J	50.7 J	1.08 UJ	10.2 J	--
ROW-P3-012	ROW-P3-012-2.5-3.0	07/09/2025	2.5-3.0	Discrete	Phase 3 OPP	10.7 J	66.6 J	2.46 U	13.4 J	--
ROW-P3-013	ROW-P3-013-1.0-2.0	05/01/2025	1.0-2.0	Discrete	Phase 3 OPP	1.85 J	23.5 J	0.0591 U	3.55 U	--

Table 1
ROW Soil Results
Former PWT Site
Ridgefield, Washington

Notes

Bold indicates values that exceed the MTCA Method B soil cleanup level of 13.0 ng/kg.

-- = not analyzed.

Dup = duplicate sample.

ft bgs = feet below ground surface.

J = result is estimated.

J- = result is estimated, but the result may be biased low.

mg/kg = milligrams per kilogram.

ng/kg = nanograms per kilogram.

OPP = off-property portion.

PWT = Pacific Wood Treating Co.

ROW = right-of-way.

TEQ = toxicity equivalent.

U = result is non-detect.

UJ = result is non-detect with an estimated detection limit.

[a]Dioxin/furan TEQ calculated as the sum of each congener concentration multiplied by the corresponding mammalian TEF value. Detected results qualified as estimated are included in the calculation. Non-detect values are multiplied by one-half.

References

[1]Ecology. 2025. *Cleanup Levels and Risk Calculation (CLARC) table*. Washington State Department of Ecology, Toxics Cleanup Program. February.

[2]Ecology. 2007. Evaluating the Toxicity and Assessing the Carcinogenic Risk of Environmental Mixtures Using Toxicity Equivalency Factors. Supporting Material for CLARC. Washington State Department of Ecology.

Table 2
Phase 2 ROW Cleanup Summary
Former PWT Site
Ridgefield, Washington

ROW	Sample Name	Sample Depth (ft bgs)	Dioxin/Furan TEQ (ng/kg)	Remediation Depth (ft bgs)	ROW Description
P3-001	ROW-010E	0-0.5	**23.6**	1.0	East side of N Main Avenue adjacent to properties 044 and 045.
	ROW-P3-001-1.0-2.0	1.0-2.0	7.94		
P3-002	ROW-P3-002-0-0.5	0-0.5	5.42	1.0	East side of N 3rd Avenue adjacent to property 049.
P3-003	ROW-P2-001	0-0.5	**23.4**	1.0	West side of N 3rd Avenue adjacent to property 048.
	ROW-P3-003-1.0-2.0	1.0-2.0	1.60		
P3-004	ROW-P2-008	0-0.5	**69.3**	1.5	South side of Division Street adjacent to property 063.
	ROW-P3-004-1.0-2.0	1.0-2.0	**27.8**		
	ROW-P3-004-1.5-2.0	1.5-2.0	5.75		
P3-005	ROW-P2-009	0-0.5	**26.9**	1.0	North side of Division Street adjacent to properties 054 and 055.
	ROW-P2-020	0-0.5	**14.3**		
	ROW-P3-005-1.0-2.0	1.0-2.0	8.49		
P3-006	ROW-P2-021	0-0.5	**31.8**	1.0	South side of Division Street and east side of N 4th Avenue adjacent to property 064.
	ROW-P3-006-1.0-2.0	1.0-2.0	2.28		
P3-007	ROW-022E	0-0.5	**46.8**	2.0	East side of N Main Avenue adjacent to properties 058 and 060.
	ROW-P3-007-1.0-2.0	1.0-2.0	**62.2**		
	ROW-P3-007-1.5-2.0	1.5-2.0	**62.1**		
	ROW-P3-007-2.0-2.5	2.0-2.5	3.04		
	ROW-P3-007-2.5-3.0	2.5-3.0	1.20		
P3-008	ROW-P3-008-1.0-2.0	1.0-2.0	11.9	1.0	East side of N 3rd Avenue adjacent to properties 063 and 065.
P3-009	ROW-P2-011B	0-0.5	**101**	1.0	East side of N 3rd Avenue adjacent to properties 068, 071, and 073.
	ROW-P3-009-1.0-2.0	1.0-2.0	7.82		
P3-010	ROW-P2-016	0-0.5	**277**	2.5	West side of N 3rd Avenue between Division and Maple Street.
	ROW-P3-010-1.0-2.0	1.0-2.0	**109**		
	ROW-P3-010-1.0-2.0-DUP	1.0-2.0	**96.6**		
	ROW-P3-010-2.0-2.5	2.0-2.5	**32.1**		
	ROW-P3-010-2.5-3.0	2.5-3.0	3.47		
	ROW-P3-010-3.0-3.5	3.0-3.5	3.86		
P3-011	ROW-P2-017	0-0.5	**73.2**	1.0	East side of N 3rd Avenue adjacent to properties 076 and 077.
	ROW-P3-011-1.0-2.0	1.0-2.0	9.30		
P3-012	ROW-P2-033	0-0.5	**101**	2.0	South side of Simons Street and west side of N 3rd Avenue adjacent to City skate park.
	ROW-P2-017	0-0.5	**73.2**		
	ROW-P3-012-1.0-2.0	1.0-2.0	**27.3**		
	ROW-P3-012-1.5-2.0	1.5-2.0	**32.3**		
	ROW-P3-012-2.0-2.5	2.0-2.5	9.42		
	ROW-P3-012-2.5-3.0	2.5-3.0	12.7		
P3-013	ROW-P2-034	0-0.5	**29.5**	1.0	East side of N 3rd Avenue south of Simons Street.
	ROW-P3-013-1.0-2.0	1.0-2.0	4.08		

NOTES:

Bold values exceed the Model Toxics Control Act Method B CUL of 13 nanograms per kilogram

bgs = below ground surface.

ft = feet.

PWT = Pacific Wood Treating Co.

ROW = right of way.

TEQ = toxicity equivalent

Attachment A

Analytical Laboratory Reports

MAUL
FOSTER
ALONGI

May 20, 2025

Enthalpy Analytical - El Dorado Hills
Work Order No. 2505154

Mr. Philip Nerenberg
Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223

Dear Mr. Nerenberg,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on May 09, 2025 under your Project Name 'A5E1070'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at kathy.zipp@enthalpy.com.

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,

Kathy Zipp
Project Manager

Enthalpy Analytical - EDH Work Order No. 2505154
Case Narrative

Sample Condition on Receipt:

One soil sample was received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The sample was received in good condition and within the method temperature requirements.

Analytical Notes:

EPA Method 8290A

The sample was extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 8290A using a ZB-DIOXIN GC column.

Holding Times

The method holding time criteria was met for this sample.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above the sample quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

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Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2505154-01	ROW-P3-008-1.0-2.0	07-May-25 08:20	09-May-25 09:57	Clear Glass Jar, 250mL

ANALYTICAL RESULTS

Sample ID: Method Blank

EPA Method 8290A

Client Data
Name: Apex Laboratories
Project: A5E1070
Matrix: Solid

Laboratory Data
Lab Sample: B25E177-BLK1
QC Batch: B25E177
Sample Size: 10.0 g
Date Extracted: 14-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.195	0.190			16-May-25 04:57	1
1,2,3,7,8-PeCDD	ND	0.380	0.784			16-May-25 04:57	1
1,2,3,4,7,8-HxCDD	ND	0.280	0.633			16-May-25 04:57	1
1,2,3,6,7,8-HxCDD	ND	0.329	0.640			16-May-25 04:57	1
1,2,3,7,8,9-HxCDD	ND	0.349	0.717			16-May-25 04:57	1
1,2,3,4,6,7,8-HpCDD	ND	0.366	0.706			16-May-25 04:57	1
OCDD	ND	1.58	1.62			16-May-25 04:57	1
2,3,7,8-TCDF	ND	0.216	0.183			16-May-25 04:57	1
1,2,3,7,8-PeCDF	ND	0.210	0.576			16-May-25 04:57	1
2,3,4,7,8-PeCDF	ND	0.196	0.686			16-May-25 04:57	1
1,2,3,4,7,8-HxCDF	ND	0.114	0.659			16-May-25 04:57	1
1,2,3,6,7,8-HxCDF	ND	0.123	0.621			16-May-25 04:57	1
2,3,4,6,7,8-HxCDF	ND	0.138	0.661			16-May-25 04:57	1
1,2,3,7,8,9-HxCDF	ND	0.211	0.716			16-May-25 04:57	1
1,2,3,4,6,7,8-HpCDF	ND	0.142	0.649			16-May-25 04:57	1
1,2,3,4,7,8,9-HpCDF	ND	0.197	0.818			16-May-25 04:57	1
OCDF	ND	0.314	3.84			16-May-25 04:57	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	0.00						
Totals							
Total TCDD	ND	0.195					
Total PeCDD	ND	0.380					
Total HxCDD	ND	0.349					
Total HpCDD	ND	0.366					
Total TCDF	ND	0.216					
Total PeCDF	ND	0.210					
Total HxCDF	ND	0.211					
Total HpCDF	ND	0.197					

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	103	40 - 135		16-May-25 04:57	1
13C-1,2,3,7,8-PeCDD	IS	92.2	40 - 135		16-May-25 04:57	1
13C-1,2,3,4,7,8-HxCDD	IS	97.4	40 - 135		16-May-25 04:57	1
13C-1,2,3,6,7,8-HxCDD	IS	96.3	40 - 135		16-May-25 04:57	1
13C-1,2,3,7,8,9-HxCDD	IS	90.2	40 - 135		16-May-25 04:57	1
13C-1,2,3,4,6,7,8-HpCDD	IS	93.6	40 - 135		16-May-25 04:57	1
13C-OCDD	IS	92.2	40 - 135		16-May-25 04:57	1
13C-2,3,7,8-TCDF	IS	101	40 - 135		16-May-25 04:57	1
13C-1,2,3,7,8-PeCDF	IS	97.1	40 - 135		16-May-25 04:57	1
13C-2,3,4,7,8-PeCDF	IS	96.3	40 - 135		16-May-25 04:57	1
13C-1,2,3,4,7,8-HxCDF	IS	93.2	40 - 135		16-May-25 04:57	1
13C-1,2,3,6,7,8-HxCDF	IS	92.4	40 - 135		16-May-25 04:57	1
13C-2,3,4,6,7,8-HxCDF	IS	92.5	40 - 135		16-May-25 04:57	1
13C-1,2,3,7,8,9-HxCDF	IS	87.4	40 - 135		16-May-25 04:57	1
13C-1,2,3,4,6,7,8-HpCDF	IS	98.6	40 - 135		16-May-25 04:57	1
13C-1,2,3,4,7,8,9-HpCDF	IS	96.1	40 - 135		16-May-25 04:57	1
13C-OCDF	IS	94.0	40 - 135		16-May-25 04:57	1
37Cl-2,3,7,8-TCDD	CRS	96.6	40 - 135		16-May-25 04:57	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: OPR **EPA Method 8290A**

Client Data
Name: Apex Laboratories
Project: A5E1070
Matrix: Solid

Laboratory Data
Lab Sample: B25E177-BS1
QC Batch: B25E177 Date Extracted: 14-May-25 14:21
Sample Size: 10.0 g Column: ZB-DIOXIN

Analyte	Amt Found (pg/g)	Spike Amt	% Recovery	Limits	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	19.9	20.0	99.3	70-130		16-May-25 03:26	1
1,2,3,7,8-PeCDD	90.4	100	90.4	70-130		16-May-25 03:26	1
1,2,3,4,7,8-HxCDD	92.9	100	92.9	70-130		16-May-25 03:26	1
1,2,3,6,7,8-HxCDD	93.1	100	93.1	70-130		16-May-25 03:26	1
1,2,3,7,8,9-HxCDD	93.3	100	93.3	70-130		16-May-25 03:26	1
1,2,3,4,6,7,8-HpCDD	91.6	100	91.6	70-130		16-May-25 03:26	1
OCDD	198	200	98.8	70-130		16-May-25 03:26	1
2,3,7,8-TCDF	20.0	20.0	100	70-130		16-May-25 03:26	1
1,2,3,7,8-PeCDF	86.3	100	86.3	70-130		16-May-25 03:26	1
2,3,4,7,8-PeCDF	94.6	100	94.6	70-130		16-May-25 03:26	1
1,2,3,4,7,8-HxCDF	95.0	100	95.0	70-130		16-May-25 03:26	1
1,2,3,6,7,8-HxCDF	101	100	101	70-130		16-May-25 03:26	1
2,3,4,6,7,8-HxCDF	97.6	100	97.6	70-130		16-May-25 03:26	1
1,2,3,7,8,9-HxCDF	100	100	100	70-130		16-May-25 03:26	1
1,2,3,4,6,7,8-HpCDF	90.7	100	90.7	70-130		16-May-25 03:26	1
1,2,3,4,7,8,9-HpCDF	90.7	100	90.7	70-130		16-May-25 03:26	1
OCDF	196	200	98.2	70-130		16-May-25 03:26	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	73.4	40-135		16-May-25 03:26	1
13C-1,2,3,7,8-PeCDD	IS	71.7	40-135		16-May-25 03:26	1
13C-1,2,3,4,7,8-HxCDD	IS	73.7	40-135		16-May-25 03:26	1
13C-1,2,3,6,7,8-HxCDD	IS	71.9	40-135		16-May-25 03:26	1
13C-1,2,3,7,8,9-HxCDD	IS	70.5	40-135		16-May-25 03:26	1
13C-1,2,3,4,6,7,8-HpCDD	IS	73.6	40-135		16-May-25 03:26	1
13C-OCDD	IS	64.5	40-135		16-May-25 03:26	1
13C-2,3,7,8-TCDF	IS	73.8	40-135		16-May-25 03:26	1
13C-1,2,3,7,8-PeCDF	IS	71.6	40-135		16-May-25 03:26	1
13C-2,3,4,7,8-PeCDF	IS	69.7	40-135		16-May-25 03:26	1
13C-1,2,3,4,7,8-HxCDF	IS	73.4	40-135		16-May-25 03:26	1
13C-1,2,3,6,7,8-HxCDF	IS	70.1	40-135		16-May-25 03:26	1
13C-2,3,4,6,7,8-HxCDF	IS	69.7	40-135		16-May-25 03:26	1
13C-1,2,3,7,8,9-HxCDF	IS	67.6	40-135		16-May-25 03:26	1
13C-1,2,3,4,6,7,8-HpCDF	IS	72.9	40-135		16-May-25 03:26	1
13C-1,2,3,4,7,8,9-HpCDF	IS	72.8	40-135		16-May-25 03:26	1
13C-OCDF	IS	65.6	40-135		16-May-25 03:26	1
37Cl-2,3,7,8-TCDD	CRS	76.0	40-135		16-May-25 03:26	1

Sample ID: ROW-P3-008-1.0-2.0 **EPA Method 8290A**

Client Data
Name: Apex Laboratories
Project: A5E1070
Matrix: Soil
Date Collected: 07-May-25 08:20

Laboratory Data
Lab Sample: 2505154-01
QC Batch: B25E177
Sample Size: 12.0 g
% Solids: 83.4
Date Received: 09-May-25 09:57
Date Extracted: 14-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.184	0.190			16-May-25 09:28	1
1,2,3,7,8-PeCDD	ND		0.784	1.41		16-May-25 09:28	1
1,2,3,4,7,8-HxCDD	5.32		0.633			16-May-25 09:28	1
1,2,3,6,7,8-HxCDD	13.9		0.640			16-May-25 09:28	1
1,2,3,7,8,9-HxCDD	9.06		0.717			16-May-25 09:28	1
1,2,3,4,6,7,8-HpCDD	423		0.706			16-May-25 09:28	1
OCDD	4960		1.62			16-May-25 09:28	1
2,3,7,8-TCDF	ND	0.336	0.183			16-May-25 09:28	1
1,2,3,7,8-PeCDF	ND		0.576	0.622		16-May-25 09:28	1
2,3,4,7,8-PeCDF	2.02		0.686		J	16-May-25 09:28	1
1,2,3,4,7,8-HxCDF	5.70		0.659			16-May-25 09:28	1
1,2,3,6,7,8-HxCDF	2.98		0.621			16-May-25 09:28	1
2,3,4,6,7,8-HxCDF	1.67		0.661		J	16-May-25 09:28	1
1,2,3,7,8,9-HxCDF	ND		0.716	0.808		16-May-25 09:28	1
1,2,3,4,6,7,8-HpCDF	69.6		0.649			16-May-25 09:28	1
1,2,3,4,7,8,9-HpCDF	ND		0.818	5.45		16-May-25 09:28	1
OCDF	310		3.84			16-May-25 09:28	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	11.0						
Totals							
Total TCDD	ND	0.184					
Total PeCDD	ND			4.95			
Total HxCDD	56.6			71.6			
Total HpCDD	697						
Total TCDF	2.37			2.78			
Total PeCDF	29.0			30.5			
Total HxCDF	108			109			
Total HpCDF	223			229			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	107	40 - 135		16-May-25 09:28	1
13C-1,2,3,7,8-PeCDD	IS	102	40 - 135		16-May-25 09:28	1
13C-1,2,3,4,7,8-HxCDD	IS	103	40 - 135		16-May-25 09:28	1
13C-1,2,3,6,7,8-HxCDD	IS	106	40 - 135		16-May-25 09:28	1
13C-1,2,3,7,8,9-HxCDD	IS	103	40 - 135		16-May-25 09:28	1
13C-1,2,3,4,6,7,8-HpCDD	IS	115	40 - 135		16-May-25 09:28	1
13C-OCDD	IS	134	40 - 135		16-May-25 09:28	1
13C-2,3,7,8-TCDF	IS	110	40 - 135		16-May-25 09:28	1
13C-1,2,3,7,8-PeCDF	IS	107	40 - 135		16-May-25 09:28	1
13C-2,3,4,7,8-PeCDF	IS	110	40 - 135		16-May-25 09:28	1
13C-1,2,3,4,7,8-HxCDF	IS	105	40 - 135		16-May-25 09:28	1
13C-1,2,3,6,7,8-HxCDF	IS	99.5	40 - 135		16-May-25 09:28	1
13C-2,3,4,6,7,8-HxCDF	IS	101	40 - 135		16-May-25 09:28	1
13C-1,2,3,7,8,9-HxCDF	IS	97.8	40 - 135		16-May-25 09:28	1
13C-1,2,3,4,6,7,8-HpCDF	IS	111	40 - 135		16-May-25 09:28	1
13C-1,2,3,4,7,8,9-HpCDF	IS	111	40 - 135		16-May-25 09:28	1
13C-OCDF	IS	123	40 - 135		16-May-25 09:28	1
37Cl-2,3,7,8-TCDD	CRS	103	40 - 135		16-May-25 09:28	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Enthalpy Analytical - EDH Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
Nevada Division of Environmental Protection	CA00413
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters can be found at Enthalpy.com/Resources/Accreditations.

SUBCONTRACT ORDER

Apex Laboratories

05/7/25 **A5E1070** 2505154 2.2°C

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Philip Nerenberg

RECEIVING LABORATORY:

Enthalpy Analytical- CA
1104 Windfield Way
El Dorado Hills, CA 95762
Phone :(916) 673-1520
Fax: -

Sample Name: ROW-P3-008-1.0-2.0 **Soil** **Sampled: 05/07/25 08:20** (A5E1070-01)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	05/20/25 17:00	06/06/25 08:20	
Containers Supplied:			
(A)8 oz Glass Jar			

- Standard TAT -

JA 5/8/25		Fed Ex (Shipper)	
Released By	Date	Received By	Date
Fed Ex (Shipper)		Karen x. Ma	05/09/25 09:57
Released By	Date	Received By	Date

CoC/Label Reconciliation Report WO# 2505154

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2505154-01	A ROW-P3-008-1.0-2.0 ☑		07-May-25 08:20 ☑	Clear Glass Jar, 250mL (A)	Solid	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

CONDITION	Yes	No	NA
Sample Container Intact?	✓		
Sample Container(s) Custody Seals Intact?			✓
Custody Seals On Cooler Intact?			✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)?	✓		

Comments: (A) Received in Clear Jar

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 (None) Other

Verifed by/Date: XAO 05/09/25
WWS 05/09/25

May 21, 2025

Enthalpy Analytical - El Dorado Hills
Work Order No. 2505059

Mr. Philip Nerenberg
Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223

Dear Mr. Nerenberg,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on May 06, 2025 under your Project Name 'A5E0955 / Port of Ridgefield'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at kathy.zipp@enthalpy.com.

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,

Kathy Zipp
Project Manager

Enthalpy Analytical - EDH Work Order No. 2505059
Case Narrative

Sample Condition on Receipt:

One water sample and thirteen soil samples were received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The samples were received in good condition and within the method temperature requirements.

Analytical Notes:

EPA Method 8290A

The samples were extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 8290A using a ZB-DIOXIN GC column.

Holding Times

The method holding time criteria were met for these samples.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above the sample quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

The result for 1,2,3,4,7,8-HxCDF in samples "ROW-P3-004-1.0-2.0", "ROW-P3-005-1.0-2.0", "ROW-P3-007-1.0-2.0" and "ROW-P3-012-1.0-2.0" was reported from a concentration that may include contribution from chlorinated diphenyl ether(s) and has been flagged with an "P" qualifier.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

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Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2505059-01	ROW-P3-001-1.0-2.0	01-May-25 10:03	07-May-25 09:03	Clear Glass Jar, 250mL
2505059-02	ROW-P3-002-0-0.5	01-May-25 10:21	07-May-25 09:03	Clear Glass Jar, 250mL
2505059-03	ROW-P3-003-1.0-2.0	01-May-25 11:38	07-May-25 09:03	Clear Glass Jar, 250mL
2505059-04	ROW-P3-004-1.0-2.0	01-May-25 13:12	07-May-25 09:03	Clear Glass Jar, 250mL
2505059-05	ROW-P3-005-1.0-2.0	01-May-25 12:27	07-May-25 09:03	Clear Glass Jar, 250mL
2505059-06	ROW-P3-006-1.0-2.0	01-May-25 12:47	07-May-25 09:03	Clear Glass Jar, 250mL
2505059-07	ROW-P3-007-1.0-2.0	01-May-25 09:30	07-May-25 09:03	Clear Glass Jar, 250mL
2505059-08	ROW-P3-009-1.0-2.0	01-May-25 14:06	07-May-25 09:03	Clear Glass Jar, 250mL
2505059-09	ROW-P3-010-1.0-2.0	01-May-25 14:39	07-May-25 09:03	Clear Glass Jar, 250mL
2505059-10	ROW-P3-010-1.0-2.0-DUP	01-May-25 14:39	07-May-25 09:03	Clear Glass Jar, 250mL
2505059-11	ROW-P3-011-1.0-2.0	01-May-25 15:45	07-May-25 09:03	Clear Glass Jar, 250mL
2505059-12	ROW-P3-012-1.0-2.0	01-May-25 16:21	07-May-25 09:03	Clear Glass Jar, 250mL
2505059-13	ROW-P3-013-1.0-2.0	01-May-25 16:40	07-May-25 09:03	Clear Glass Jar, 250mL
2505059-14	20250501-RB	01-May-25 17:00	07-May-25 09:03	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L

ANALYTICAL RESULTS

Sample ID: Method Blank

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Aqueous

Laboratory Data

Lab Sample: B25E084-BLK1
QC Batch: B25E084
Sample Size: 1.00 L
Date Extracted: 07-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/L)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	1.00	1.78			12-May-25 23:02	1
1,2,3,7,8-PeCDD	ND	0.567	5.63			12-May-25 23:02	1
1,2,3,4,7,8-HxCDD	ND	1.50	4.18			12-May-25 23:02	1
1,2,3,6,7,8-HxCDD	ND	1.65	3.51			12-May-25 23:02	1
1,2,3,7,8,9-HxCDD	ND	1.78	4.46			12-May-25 23:02	1
1,2,3,4,6,7,8-HpCDD	ND	1.25	4.84			12-May-25 23:02	1
OCDD	ND	7.47	16.4			12-May-25 23:02	1
2,3,7,8-TCDF	ND	0.560	1.78			12-May-25 23:02	1
1,2,3,7,8-PeCDF	ND	0.988	5.01			12-May-25 23:02	1
2,3,4,7,8-PeCDF	ND	0.795	4.99			12-May-25 23:02	1
1,2,3,4,7,8-HxCDF	ND	0.492	6.87			12-May-25 23:02	1
1,2,3,6,7,8-HxCDF	ND	0.532	6.31			12-May-25 23:02	1
2,3,4,6,7,8-HxCDF	ND	0.576	5.80			12-May-25 23:02	1
1,2,3,7,8,9-HxCDF	ND	0.826	5.33			12-May-25 23:02	1
1,2,3,4,6,7,8-HpCDF	ND	0.687	5.96			12-May-25 23:02	1
1,2,3,4,7,8,9-HpCDF	ND	0.975	5.34			12-May-25 23:02	1
OCDF	ND	1.02	11.3			12-May-25 23:02	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	0.00						
Totals							
Total TCDD	ND	1.00					
Total PeCDD	ND	0.567					
Total HxCDD	ND	1.78					
Total HpCDD	ND	1.25					
Total TCDF	ND	0.560					
Total PeCDF	ND	0.988					
Total HxCDF	ND			0.330			
Total HpCDF	ND	0.975					

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	77.2	40 - 135		12-May-25 23:02	1
13C-1,2,3,7,8-PeCDD	IS	75.9	40 - 135		12-May-25 23:02	1
13C-1,2,3,4,7,8-HxCDD	IS	76.8	40 - 135		12-May-25 23:02	1
13C-1,2,3,6,7,8-HxCDD	IS	75.8	40 - 135		12-May-25 23:02	1
13C-1,2,3,7,8,9-HxCDD	IS	76.6	40 - 135		12-May-25 23:02	1
13C-1,2,3,4,6,7,8-HpCDD	IS	69.7	40 - 135		12-May-25 23:02	1
13C-OCDD	IS	53.4	40 - 135		12-May-25 23:02	1
13C-2,3,7,8-TCDF	IS	80.6	40 - 135		12-May-25 23:02	1
13C-1,2,3,7,8-PeCDF	IS	78.4	40 - 135		12-May-25 23:02	1
13C-2,3,4,7,8-PeCDF	IS	80.2	40 - 135		12-May-25 23:02	1
13C-1,2,3,4,7,8-HxCDF	IS	78.1	40 - 135		12-May-25 23:02	1
13C-1,2,3,6,7,8-HxCDF	IS	76.3	40 - 135		12-May-25 23:02	1
13C-2,3,4,6,7,8-HxCDF	IS	76.9	40 - 135		12-May-25 23:02	1
13C-1,2,3,7,8,9-HxCDF	IS	78.9	40 - 135		12-May-25 23:02	1
13C-1,2,3,4,6,7,8-HpCDF	IS	75.6	40 - 135		12-May-25 23:02	1
13C-1,2,3,4,7,8,9-HpCDF	IS	76.9	40 - 135		12-May-25 23:02	1
13C-OCDF	IS	62.0	40 - 135		12-May-25 23:02	1
37Cl-2,3,7,8-TCDD	CRS	95.2	40 - 135		12-May-25 23:02	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

Sample ID: OPR **EPA Method 8290A**

Client Data
Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Aqueous

Laboratory Data
Lab Sample: B25E084-BS1
QC Batch: B25E084 Date Extracted: 07-May-25 15:31
Sample Size: 1.00 L Column: ZB-DIOXIN

Analyte	Amt Found (pg/L)	Spike Amt	% Recovery	Limits	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	216	200	108	70-130		12-May-25 21:32	1
1,2,3,7,8-PeCDD	1100	1000	110	70-130		12-May-25 21:32	1
1,2,3,4,7,8-HxCDD	1070	1000	107	70-130		12-May-25 21:32	1
1,2,3,6,7,8-HxCDD	1050	1000	105	70-130		12-May-25 21:32	1
1,2,3,7,8,9-HxCDD	1090	1000	109	70-130		12-May-25 21:32	1
1,2,3,4,6,7,8-HpCDD	1080	1000	108	70-130		12-May-25 21:32	1
OCDD	2260	2000	113	70-130		12-May-25 21:32	1
2,3,7,8-TCDF	219	200	109	70-130		12-May-25 21:32	1
1,2,3,7,8-PeCDF	1110	1000	111	70-130		12-May-25 21:32	1
2,3,4,7,8-PeCDF	1140	1000	114	70-130		12-May-25 21:32	1
1,2,3,4,7,8-HxCDF	1080	1000	108	70-130		12-May-25 21:32	1
1,2,3,6,7,8-HxCDF	1090	1000	109	70-130		12-May-25 21:32	1
2,3,4,6,7,8-HxCDF	1090	1000	109	70-130		12-May-25 21:32	1
1,2,3,7,8,9-HxCDF	1100	1000	110	70-130		12-May-25 21:32	1
1,2,3,4,6,7,8-HpCDF	1040	1000	104	70-130		12-May-25 21:32	1
1,2,3,4,7,8,9-HpCDF	1060	1000	106	70-130		12-May-25 21:32	1
OCDF	2200	2000	110	70-130		12-May-25 21:32	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	81.1	40-135		12-May-25 21:32	1
13C-1,2,3,7,8-PeCDD	IS	79.7	40-135		12-May-25 21:32	1
13C-1,2,3,4,7,8-HxCDD	IS	77.1	40-135		12-May-25 21:32	1
13C-1,2,3,6,7,8-HxCDD	IS	77.1	40-135		12-May-25 21:32	1
13C-1,2,3,7,8,9-HxCDD	IS	76.1	40-135		12-May-25 21:32	1
13C-1,2,3,4,6,7,8-HpCDD	IS	75.5	40-135		12-May-25 21:32	1
13C-OCDD	IS	62.9	40-135		12-May-25 21:32	1
13C-2,3,7,8-TCDF	IS	85.7	40-135		12-May-25 21:32	1
13C-1,2,3,7,8-PeCDF	IS	82.8	40-135		12-May-25 21:32	1
13C-2,3,4,7,8-PeCDF	IS	85.0	40-135		12-May-25 21:32	1
13C-1,2,3,4,7,8-HxCDF	IS	77.9	40-135		12-May-25 21:32	1
13C-1,2,3,6,7,8-HxCDF	IS	77.1	40-135		12-May-25 21:32	1
13C-2,3,4,6,7,8-HxCDF	IS	76.7	40-135		12-May-25 21:32	1
13C-1,2,3,7,8,9-HxCDF	IS	77.6	40-135		12-May-25 21:32	1
13C-1,2,3,4,6,7,8-HpCDF	IS	75.1	40-135		12-May-25 21:32	1
13C-1,2,3,4,7,8,9-HpCDF	IS	76.5	40-135		12-May-25 21:32	1
13C-OCDF	IS	66.6	40-135		12-May-25 21:32	1
37Cl-2,3,7,8-TCDD	CRS	99.5	40-135		12-May-25 21:32	1

Sample ID: 20250501-RB **EPA Method 8290A**

Client Data
Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Water
Date Collected: 01-May-25 17:00

Laboratory Data
Lab Sample: 2505059-14
QC Batch: B25E084
Sample Size: 0.908 L
Date Received: 06-May-25 09:03
Date Extracted: 07-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/L)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	1.73	1.96			13-May-25 15:46	1
1,2,3,7,8-PeCDD	ND	1.51	6.20			13-May-25 15:46	1
1,2,3,4,7,8-HxCDD	ND	2.06	4.60			13-May-25 15:46	1
1,2,3,6,7,8-HxCDD	ND	2.06	3.87			13-May-25 15:46	1
1,2,3,7,8,9-HxCDD	ND	2.37	4.91			13-May-25 15:46	1
1,2,3,4,6,7,8-HpCDD	ND	5.73	5.33			13-May-25 15:46	1
OCDD	ND		18.1	10.9		13-May-25 15:46	1
2,3,7,8-TCDF	ND	1.04	1.96			13-May-25 15:46	1
1,2,3,7,8-PeCDF	ND	2.04	5.52			13-May-25 15:46	1
2,3,4,7,8-PeCDF	ND	1.56	5.50			13-May-25 15:46	1
1,2,3,4,7,8-HxCDF	ND	0.902	7.57			13-May-25 15:46	1
1,2,3,6,7,8-HxCDF	ND	0.953	6.95			13-May-25 15:46	1
2,3,4,6,7,8-HxCDF	ND	0.999	6.39			13-May-25 15:46	1
1,2,3,7,8,9-HxCDF	ND	1.54	5.87			13-May-25 15:46	1
1,2,3,4,6,7,8-HpCDF	ND	0.994	6.56			13-May-25 15:46	1
1,2,3,4,7,8,9-HpCDF	ND	1.20	5.88			13-May-25 15:46	1
OCDF	ND	2.89	12.4			13-May-25 15:46	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	0.00						
Totals							
Total TCDD	ND	1.73					
Total PeCDD	ND	1.51					
Total HxCDD	ND	2.37					
Total HpCDD	ND	5.73					
Total TCDF	ND	1.04					
Total PeCDF	ND	2.04					
Total HxCDF	ND	1.54					
Total HpCDF	ND	1.20					

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	65.9	40 - 135		13-May-25 15:46	1
13C-1,2,3,7,8-PeCDD	IS	64.7	40 - 135		13-May-25 15:46	1
13C-1,2,3,4,7,8-HxCDD	IS	61.8	40 - 135		13-May-25 15:46	1
13C-1,2,3,6,7,8-HxCDD	IS	62.6	40 - 135		13-May-25 15:46	1
13C-1,2,3,7,8,9-HxCDD	IS	59.5	40 - 135		13-May-25 15:46	1
13C-1,2,3,4,6,7,8-HpCDD	IS	58.3	40 - 135		13-May-25 15:46	1
13C-OCDD	IS	42.2	40 - 135		13-May-25 15:46	1
13C-2,3,7,8-TCDF	IS	68.8	40 - 135		13-May-25 15:46	1
13C-1,2,3,7,8-PeCDF	IS	67.7	40 - 135		13-May-25 15:46	1
13C-2,3,4,7,8-PeCDF	IS	72.2	40 - 135		13-May-25 15:46	1
13C-1,2,3,4,7,8-HxCDF	IS	61.3	40 - 135		13-May-25 15:46	1
13C-1,2,3,6,7,8-HxCDF	IS	60.4	40 - 135		13-May-25 15:46	1
13C-2,3,4,6,7,8-HxCDF	IS	62.0	40 - 135		13-May-25 15:46	1
13C-1,2,3,7,8,9-HxCDF	IS	61.5	40 - 135		13-May-25 15:46	1
13C-1,2,3,4,6,7,8-HpCDF	IS	56.3	40 - 135		13-May-25 15:46	1
13C-1,2,3,4,7,8,9-HpCDF	IS	59.5	40 - 135		13-May-25 15:46	1
13C-OCDF	IS	43.8	40 - 135		13-May-25 15:46	1
37Cl-2,3,7,8-TCDD	CRS	97.8	40 - 135		13-May-25 15:46	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

Sample ID: Method Blank

EPA Method 8290A

Client Data
Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Solid

Laboratory Data
Lab Sample: B25E166-BLK1
QC Batch: B25E166
Sample Size: 10.0 g
Date Extracted: 13-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.0546	0.190			17-May-25 13:02	1
1,2,3,7,8-PeCDD	ND	0.0646	0.784			17-May-25 13:02	1
1,2,3,4,7,8-HxCDD	ND	0.0980	0.633			17-May-25 13:02	1
1,2,3,6,7,8-HxCDD	ND	0.107	0.640			17-May-25 13:02	1
1,2,3,7,8,9-HxCDD	ND	0.106	0.717			17-May-25 13:02	1
1,2,3,4,6,7,8-HpCDD	ND		0.706	0.215		17-May-25 13:02	1
OCDD	0.693		1.62		J	17-May-25 13:02	1
2,3,7,8-TCDF	ND	0.0599	0.183			17-May-25 13:02	1
1,2,3,7,8-PeCDF	ND	0.0649	0.576			17-May-25 13:02	1
2,3,4,7,8-PeCDF	ND	0.0600	0.686			17-May-25 13:02	1
1,2,3,4,7,8-HxCDF	ND	0.0561	0.659			17-May-25 13:02	1
1,2,3,6,7,8-HxCDF	ND	0.0571	0.621			17-May-25 13:02	1
2,3,4,6,7,8-HxCDF	ND	0.0618	0.661			17-May-25 13:02	1
1,2,3,7,8,9-HxCDF	ND	0.0815	0.716			17-May-25 13:02	1
1,2,3,4,6,7,8-HpCDF	ND	0.0572	0.649			17-May-25 13:02	1
1,2,3,4,7,8,9-HpCDF	ND	0.0895	0.818			17-May-25 13:02	1
OCDF	ND	0.196	3.84			17-May-25 13:02	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	0.000208						
Totals							
Total TCDD	ND	0.0546					
Total PeCDD	ND	0.0646					
Total HxCDD	ND	0.107					
Total HpCDD	ND			0.215			
Total TCDF	ND	0.0599					
Total PeCDF	ND	0.0649					
Total HxCDF	ND	0.0815					
Total HpCDF	ND	0.0895					

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	96.4	40 - 135		17-May-25 13:02	1
13C-1,2,3,7,8-PeCDD	IS	85.0	40 - 135		17-May-25 13:02	1
13C-1,2,3,4,7,8-HxCDD	IS	93.4	40 - 135		17-May-25 13:02	1
13C-1,2,3,6,7,8-HxCDD	IS	87.3	40 - 135		17-May-25 13:02	1
13C-1,2,3,7,8,9-HxCDD	IS	89.2	40 - 135		17-May-25 13:02	1
13C-1,2,3,4,6,7,8-HpCDD	IS	87.5	40 - 135		17-May-25 13:02	1
13C-OCDD	IS	77.3	40 - 135		17-May-25 13:02	1
13C-2,3,7,8-TCDF	IS	97.7	40 - 135		17-May-25 13:02	1
13C-1,2,3,7,8-PeCDF	IS	93.5	40 - 135		17-May-25 13:02	1
13C-2,3,4,7,8-PeCDF	IS	92.4	40 - 135		17-May-25 13:02	1
13C-1,2,3,4,7,8-HxCDF	IS	92.6	40 - 135		17-May-25 13:02	1
13C-1,2,3,6,7,8-HxCDF	IS	87.1	40 - 135		17-May-25 13:02	1
13C-2,3,4,6,7,8-HxCDF	IS	88.7	40 - 135		17-May-25 13:02	1
13C-1,2,3,7,8,9-HxCDF	IS	87.5	40 - 135		17-May-25 13:02	1
13C-1,2,3,4,6,7,8-HpCDF	IS	84.7	40 - 135		17-May-25 13:02	1
13C-1,2,3,4,7,8,9-HpCDF	IS	86.2	40 - 135		17-May-25 13:02	1
13C-OCDF	IS	76.8	40 - 135		17-May-25 13:02	1
37Cl-2,3,7,8-TCDD	CRS	84.6	40 - 135		17-May-25 13:02	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: OPR **EPA Method 8290A**

Client Data
Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Solid

Laboratory Data
Lab Sample: B25E166-BS1
QC Batch: B25E166 Date Extracted: 13-May-25 13:14
Sample Size: 10.0 g Column: ZB-DIOXIN

Analyte	Amt Found (pg/g)	Spike Amt	% Recovery	Limits	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	18.9	20.0	94.4	70-130		17-May-25 11:29	1
1,2,3,7,8-PeCDD	95.3	100	95.3	70-130		17-May-25 11:29	1
1,2,3,4,7,8-HxCDD	95.8	100	95.8	70-130		17-May-25 11:29	1
1,2,3,6,7,8-HxCDD	96.9	100	96.9	70-130		17-May-25 11:29	1
1,2,3,7,8,9-HxCDD	94.3	100	94.3	70-130		17-May-25 11:29	1
1,2,3,4,6,7,8-HpCDD	94.4	100	94.4	70-130		17-May-25 11:29	1
OCDD	196	200	98.2	70-130	B	17-May-25 11:29	1
2,3,7,8-TCDF	17.7	20.0	88.6	70-130		17-May-25 11:29	1
1,2,3,7,8-PeCDF	93.0	100	93.0	70-130		17-May-25 11:29	1
2,3,4,7,8-PeCDF	95.9	100	95.9	70-130		17-May-25 11:29	1
1,2,3,4,7,8-HxCDF	91.1	100	91.1	70-130		17-May-25 11:29	1
1,2,3,6,7,8-HxCDF	92.8	100	92.8	70-130		17-May-25 11:29	1
2,3,4,6,7,8-HxCDF	89.0	100	89.0	70-130		17-May-25 11:29	1
1,2,3,7,8,9-HxCDF	93.1	100	93.1	70-130		17-May-25 11:29	1
1,2,3,4,6,7,8-HpCDF	90.8	100	90.8	70-130		17-May-25 11:29	1
1,2,3,4,7,8,9-HpCDF	90.4	100	90.4	70-130		17-May-25 11:29	1
OCDF	187	200	93.3	70-130		17-May-25 11:29	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	97.7	40-135		17-May-25 11:29	1
13C-1,2,3,7,8-PeCDD	IS	75.5	40-135		17-May-25 11:29	1
13C-1,2,3,4,7,8-HxCDD	IS	90.8	40-135		17-May-25 11:29	1
13C-1,2,3,6,7,8-HxCDD	IS	84.6	40-135		17-May-25 11:29	1
13C-1,2,3,7,8,9-HxCDD	IS	91.6	40-135		17-May-25 11:29	1
13C-1,2,3,4,6,7,8-HpCDD	IS	90.3	40-135		17-May-25 11:29	1
13C-OCDD	IS	78.1	40-135		17-May-25 11:29	1
13C-2,3,7,8-TCDF	IS	100	40-135		17-May-25 11:29	1
13C-1,2,3,7,8-PeCDF	IS	93.6	40-135		17-May-25 11:29	1
13C-2,3,4,7,8-PeCDF	IS	94.6	40-135		17-May-25 11:29	1
13C-1,2,3,4,7,8-HxCDF	IS	92.7	40-135		17-May-25 11:29	1
13C-1,2,3,6,7,8-HxCDF	IS	86.8	40-135		17-May-25 11:29	1
13C-2,3,4,6,7,8-HxCDF	IS	87.3	40-135		17-May-25 11:29	1
13C-1,2,3,7,8,9-HxCDF	IS	86.9	40-135		17-May-25 11:29	1
13C-1,2,3,4,6,7,8-HpCDF	IS	85.7	40-135		17-May-25 11:29	1
13C-1,2,3,4,7,8,9-HpCDF	IS	82.9	40-135		17-May-25 11:29	1
13C-OCDF	IS	74.8	40-135		17-May-25 11:29	1
37Cl-2,3,7,8-TCDD	CRS	87.6	40-135		17-May-25 11:29	1

Sample ID: ROW-P3-001-1.0-2.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 10:03

Laboratory Data

Lab Sample: 2505059-01
QC Batch: B25E166
Sample Size: 11.5 g
% Solids: 87.6
Date Received: 06-May-25 09:03
Date Extracted: 13-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND		0.188	0.594		17-May-25 13:49	1
1,2,3,7,8-PeCDD	1.09		0.777		J	17-May-25 13:49	1
1,2,3,4,7,8-HxCDD	1.11		0.627		J	17-May-25 13:49	1
1,2,3,6,7,8-HxCDD	4.63		0.634			17-May-25 13:49	1
1,2,3,7,8,9-HxCDD	2.25		0.711		J	17-May-25 13:49	1
1,2,3,4,6,7,8-HpCDD	77.7		0.700			17-May-25 13:49	1
OCDD	532		1.61		B	17-May-25 13:49	1
2,3,7,8-TCDF	0.925		0.181			17-May-25 13:49	1
1,2,3,7,8-PeCDF	0.737		0.571		J	17-May-25 13:49	1
2,3,4,7,8-PeCDF	11.8		0.680			17-May-25 13:49	1
1,2,3,4,7,8-HxCDF	3.26		0.653			17-May-25 13:49	1
1,2,3,6,7,8-HxCDF	3.18		0.616			17-May-25 13:49	1
2,3,4,6,7,8-HxCDF	2.87		0.655			17-May-25 13:49	1
1,2,3,7,8,9-HxCDF	0.817		0.710		J	17-May-25 13:49	1
1,2,3,4,6,7,8-HpCDF	13.6		0.643			17-May-25 13:49	1
1,2,3,4,7,8,9-HpCDF	1.15		0.811		J	17-May-25 13:49	1
OCDF	15.8		3.81			17-May-25 13:49	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	7.65						
Totals							
Total TCDD	3.55			4.88			
Total PeCDD	7.35			9.68			
Total HxCDD	30.2						
Total HpCDD	135						
Total TCDF	71.3						
Total PeCDF	180						
Total HxCDF	118						
Total HpCDF	37.2						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	85.3	40 - 135		17-May-25 13:49	1
13C-1,2,3,7,8-PeCDD	IS	74.8	40 - 135		17-May-25 13:49	1
13C-1,2,3,4,7,8-HxCDD	IS	79.9	40 - 135		17-May-25 13:49	1
13C-1,2,3,6,7,8-HxCDD	IS	75.9	40 - 135		17-May-25 13:49	1
13C-1,2,3,7,8,9-HxCDD	IS	77.6	40 - 135		17-May-25 13:49	1
13C-1,2,3,4,6,7,8-HpCDD	IS	75.4	40 - 135		17-May-25 13:49	1
13C-OCDD	IS	73.1	40 - 135		17-May-25 13:49	1
13C-2,3,7,8-TCDF	IS	86.5	40 - 135		17-May-25 13:49	1
13C-1,2,3,7,8-PeCDF	IS	83.0	40 - 135		17-May-25 13:49	1
13C-2,3,4,7,8-PeCDF	IS	82.7	40 - 135		17-May-25 13:49	1
13C-1,2,3,4,7,8-HxCDF	IS	79.4	40 - 135		17-May-25 13:49	1
13C-1,2,3,6,7,8-HxCDF	IS	75.3	40 - 135		17-May-25 13:49	1
13C-2,3,4,6,7,8-HxCDF	IS	76.4	40 - 135		17-May-25 13:49	1
13C-1,2,3,7,8,9-HxCDF	IS	75.3	40 - 135		17-May-25 13:49	1
13C-1,2,3,4,6,7,8-HpCDF	IS	74.8	40 - 135		17-May-25 13:49	1
13C-1,2,3,4,7,8,9-HpCDF	IS	72.3	40 - 135		17-May-25 13:49	1
13C-OCDF	IS	67.1	40 - 135		17-May-25 13:49	1
37Cl-2,3,7,8-TCDD	CRS	76.3	40 - 135		17-May-25 13:49	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-002-0-0.5 **EPA Method 8290A**

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 10:21

Laboratory Data

Lab Sample: 2505059-02
QC Batch: B25E166
Sample Size: 11.2 g
% Solids: 90.0
Date Received: 06-May-25 09:03
Date Extracted: 13-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND		0.189	0.198		17-May-25 14:36	1
1,2,3,7,8-PeCDD	1.17		0.779		J	17-May-25 14:36	1
1,2,3,4,7,8-HxCDD	1.96		0.629		J	17-May-25 14:36	1
1,2,3,6,7,8-HxCDD	6.49		0.636			17-May-25 14:36	1
1,2,3,7,8,9-HxCDD	3.88		0.712			17-May-25 14:36	1
1,2,3,4,6,7,8-HpCDD	154		0.701			17-May-25 14:36	1
OCDD	1440		1.61		B	17-May-25 14:36	1
2,3,7,8-TCDF	0.303		0.182		J	17-May-25 14:36	1
1,2,3,7,8-PeCDF	ND		0.572	0.409		17-May-25 14:36	1
2,3,4,7,8-PeCDF	0.774		0.681		J	17-May-25 14:36	1
1,2,3,4,7,8-HxCDF	2.03		0.655		J	17-May-25 14:36	1
1,2,3,6,7,8-HxCDF	1.34		0.617		J	17-May-25 14:36	1
2,3,4,6,7,8-HxCDF	0.667		0.657		J	17-May-25 14:36	1
1,2,3,7,8,9-HxCDF	ND		0.711	0.224		17-May-25 14:36	1
1,2,3,4,6,7,8-HpCDF	23.1		0.645			17-May-25 14:36	1
1,2,3,4,7,8,9-HpCDF	1.73		0.813		J	17-May-25 14:36	1
OCDF	56.9		3.81			17-May-25 14:36	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	5.31						
Totals							
Total TCDD	1.36			2.49			
Total PeCDD	7.62			8.38			
Total HxCDD	46.6						
Total HpCDD	299						
Total TCDF	5.51			6.14			
Total PeCDF	14.5			14.9			
Total HxCDF	36.1			36.9			
Total HpCDF	71.5						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	96.2	40 - 135		17-May-25 14:36	1
13C-1,2,3,7,8-PeCDD	IS	84.9	40 - 135		17-May-25 14:36	1
13C-1,2,3,4,7,8-HxCDD	IS	89.2	40 - 135		17-May-25 14:36	1
13C-1,2,3,6,7,8-HxCDD	IS	82.4	40 - 135		17-May-25 14:36	1
13C-1,2,3,7,8,9-HxCDD	IS	85.0	40 - 135		17-May-25 14:36	1
13C-1,2,3,4,6,7,8-HpCDD	IS	82.5	40 - 135		17-May-25 14:36	1
13C-OCDD	IS	79.1	40 - 135		17-May-25 14:36	1
13C-2,3,7,8-TCDF	IS	95.5	40 - 135		17-May-25 14:36	1
13C-1,2,3,7,8-PeCDF	IS	88.8	40 - 135		17-May-25 14:36	1
13C-2,3,4,7,8-PeCDF	IS	89.8	40 - 135		17-May-25 14:36	1
13C-1,2,3,4,7,8-HxCDF	IS	87.9	40 - 135		17-May-25 14:36	1
13C-1,2,3,6,7,8-HxCDF	IS	82.7	40 - 135		17-May-25 14:36	1
13C-2,3,4,6,7,8-HxCDF	IS	83.3	40 - 135		17-May-25 14:36	1
13C-1,2,3,7,8,9-HxCDF	IS	84.4	40 - 135		17-May-25 14:36	1
13C-1,2,3,4,6,7,8-HpCDF	IS	81.3	40 - 135		17-May-25 14:36	1
13C-1,2,3,4,7,8,9-HpCDF	IS	81.0	40 - 135		17-May-25 14:36	1
13C-OCDF	IS	73.1	40 - 135		17-May-25 14:36	1
37Cl-2,3,7,8-TCDD	CRS	89.6	40 - 135		17-May-25 14:36	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-003-1.0-2.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 11:38

Laboratory Data

Lab Sample: 2505059-03
QC Batch: B25E166
Sample Size: 10.3 g
% Solids: 97.7
Date Received: 06-May-25 09:03
Date Extracted: 13-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.0566	0.189			17-May-25 15:24	1
1,2,3,7,8-PeCDD	0.299		0.780		J	17-May-25 15:24	1
1,2,3,4,7,8-HxCDD	0.405		0.630		J	17-May-25 15:24	1
1,2,3,6,7,8-HxCDD	2.12		0.637		J	17-May-25 15:24	1
1,2,3,7,8,9-HxCDD	0.849		0.713		J	17-May-25 15:24	1
1,2,3,4,6,7,8-HpCDD	33.9		0.702			17-May-25 15:24	1
OCDD	272		1.61		B	17-May-25 15:24	1
2,3,7,8-TCDF	ND		0.182	0.179		17-May-25 15:24	1
1,2,3,7,8-PeCDF	0.257		0.573		J	17-May-25 15:24	1
2,3,4,7,8-PeCDF	ND		0.683	1.20		17-May-25 15:24	1
1,2,3,4,7,8-HxCDF	1.10		0.656		J	17-May-25 15:24	1
1,2,3,6,7,8-HxCDF	0.680		0.618		J	17-May-25 15:24	1
2,3,4,6,7,8-HxCDF	0.609		0.658		J	17-May-25 15:24	1
1,2,3,7,8,9-HxCDF	0.150		0.712		J	17-May-25 15:24	1
1,2,3,4,6,7,8-HpCDF	6.22		0.646			17-May-25 15:24	1
1,2,3,4,7,8,9-HpCDF	0.425		0.814		J	17-May-25 15:24	1
OCDF	8.89		3.82			17-May-25 15:24	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	1.39						
Totals							
Total TCDD	0.195				J		
Total PeCDD	0.939			1.33	J		
Total HxCDD	10.1						
Total HpCDD	60.6						
Total TCDF	3.73			4.31			
Total PeCDF	17.2			19.1			
Total HxCDF	19.4						
Total HpCDF	17.8						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	94.1	40 - 135		17-May-25 15:24	1
13C-1,2,3,7,8-PeCDD	IS	78.6	40 - 135		17-May-25 15:24	1
13C-1,2,3,4,7,8-HxCDD	IS	79.0	40 - 135		17-May-25 15:24	1
13C-1,2,3,6,7,8-HxCDD	IS	71.2	40 - 135		17-May-25 15:24	1
13C-1,2,3,7,8,9-HxCDD	IS	73.9	40 - 135		17-May-25 15:24	1
13C-1,2,3,4,6,7,8-HpCDD	IS	65.4	40 - 135		17-May-25 15:24	1
13C-OCDD	IS	56.6	40 - 135		17-May-25 15:24	1
13C-2,3,7,8-TCDF	IS	92.6	40 - 135		17-May-25 15:24	1
13C-1,2,3,7,8-PeCDF	IS	83.2	40 - 135		17-May-25 15:24	1
13C-2,3,4,7,8-PeCDF	IS	83.1	40 - 135		17-May-25 15:24	1
13C-1,2,3,4,7,8-HxCDF	IS	74.9	40 - 135		17-May-25 15:24	1
13C-1,2,3,6,7,8-HxCDF	IS	72.2	40 - 135		17-May-25 15:24	1
13C-2,3,4,6,7,8-HxCDF	IS	74.1	40 - 135		17-May-25 15:24	1
13C-1,2,3,7,8,9-HxCDF	IS	77.1	40 - 135		17-May-25 15:24	1
13C-1,2,3,4,6,7,8-HpCDF	IS	62.2	40 - 135		17-May-25 15:24	1
13C-1,2,3,4,7,8,9-HpCDF	IS	67.1	40 - 135		17-May-25 15:24	1
13C-OCDF	IS	54.0	40 - 135		17-May-25 15:24	1
37Cl-2,3,7,8-TCDD	CRS	86.1	40 - 135		17-May-25 15:24	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-004-1.0-2.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 13:12

Laboratory Data

Lab Sample: 2505059-04
QC Batch: B25E166
Sample Size: 12.1 g
% Solids: 83.4
Date Received: 06-May-25 09:03
Date Extracted: 13-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND		0.189	0.267		17-May-25 16:11	1
1,2,3,7,8-PeCDD	2.74		0.778			17-May-25 16:11	1
1,2,3,4,7,8-HxCDD	7.52		0.628			17-May-25 16:11	1
1,2,3,6,7,8-HxCDD	38.7		0.635			17-May-25 16:11	1
1,2,3,7,8,9-HxCDD	15.4		0.711			17-May-25 16:11	1
1,2,3,4,6,7,8-HpCDD	781		0.700			17-May-25 16:11	1
OCDD	5900		1.61		B	17-May-25 16:11	1
2,3,7,8-TCDF	1.49		0.182			17-May-25 16:11	1
1,2,3,7,8-PeCDF	3.94		0.571			17-May-25 16:11	1
2,3,4,7,8-PeCDF	8.24		0.681			17-May-25 16:11	1
1,2,3,4,7,8-HxCDF	27.1		0.654		P	17-May-25 16:11	1
1,2,3,6,7,8-HxCDF	12.3		0.616			17-May-25 16:11	1
2,3,4,6,7,8-HxCDF	8.84		0.656			17-May-25 16:11	1
1,2,3,7,8,9-HxCDF	2.59		0.710			17-May-25 16:11	1
1,2,3,4,6,7,8-HpCDF	125		0.644			17-May-25 16:11	1
1,2,3,4,7,8,9-HpCDF	7.75		0.812			17-May-25 16:11	1
OCDF	133		3.81			17-May-25 16:11	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	27.7						
Totals							
Total TCDD	2.58			3.62			
Total PeCDD	15.4			16.3			
Total HxCDD	165						
Total HpCDD	1340						
Total TCDF	43.2			45.3			
Total PeCDF	213						
Total HxCDF	389						
Total HpCDF	346						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	102	40 - 135		17-May-25 16:11	1
13C-1,2,3,7,8-PeCDD	IS	92.9	40 - 135		17-May-25 16:11	1
13C-1,2,3,4,7,8-HxCDD	IS	93.3	40 - 135		17-May-25 16:11	1
13C-1,2,3,6,7,8-HxCDD	IS	88.1	40 - 135		17-May-25 16:11	1
13C-1,2,3,7,8,9-HxCDD	IS	86.5	40 - 135		17-May-25 16:11	1
13C-1,2,3,4,6,7,8-HpCDD	IS	88.4	40 - 135		17-May-25 16:11	1
13C-OCDD	IS	89.6	40 - 135		17-May-25 16:11	1
13C-2,3,7,8-TCDF	IS	102	40 - 135		17-May-25 16:11	1
13C-1,2,3,7,8-PeCDF	IS	96.6	40 - 135		17-May-25 16:11	1
13C-2,3,4,7,8-PeCDF	IS	96.8	40 - 135		17-May-25 16:11	1
13C-1,2,3,4,7,8-HxCDF	IS	92.0	40 - 135		17-May-25 16:11	1
13C-1,2,3,6,7,8-HxCDF	IS	86.3	40 - 135		17-May-25 16:11	1
13C-2,3,4,6,7,8-HxCDF	IS	86.1	40 - 135		17-May-25 16:11	1
13C-1,2,3,7,8,9-HxCDF	IS	87.1	40 - 135		17-May-25 16:11	1
13C-1,2,3,4,6,7,8-HpCDF	IS	85.2	40 - 135		17-May-25 16:11	1
13C-1,2,3,4,7,8,9-HpCDF	IS	89.3	40 - 135		17-May-25 16:11	1
13C-OCDF	IS	80.2	40 - 135		17-May-25 16:11	1
37Cl-2,3,7,8-TCDD	CRS	93.7	40 - 135		17-May-25 16:11	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-005-1.0-2.0 **EPA Method 8290A**

Client Data
Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 12:27

Laboratory Data
Lab Sample: 2505059-05
QC Batch: B25E166
Sample Size: 12.3 g
% Solids: 81.5
Date Received: 06-May-25 09:03
Date Extracted: 13-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND		0.190	0.333		17-May-25 16:58	1
1,2,3,7,8-PeCDD	1.58		0.782		J	17-May-25 16:58	1
1,2,3,4,7,8-HxCDD	1.42		0.632		J	17-May-25 16:58	1
1,2,3,6,7,8-HxCDD	5.59		0.639			17-May-25 16:58	1
1,2,3,7,8,9-HxCDD	2.89		0.716			17-May-25 16:58	1
1,2,3,4,6,7,8-HpCDD	76.6		0.705			17-May-25 16:58	1
OCDD	571		1.62		B	17-May-25 16:58	1
2,3,7,8-TCDF	1.35		0.183			17-May-25 16:58	1
1,2,3,7,8-PeCDF	1.22		0.575		J	17-May-25 16:58	1
2,3,4,7,8-PeCDF	8.13		0.685			17-May-25 16:58	1
1,2,3,4,7,8-HxCDF	5.12		0.658		P	17-May-25 16:58	1
1,2,3,6,7,8-HxCDF	6.60		0.620			17-May-25 16:58	1
2,3,4,6,7,8-HxCDF	7.64		0.660			17-May-25 16:58	1
1,2,3,7,8,9-HxCDF	ND		0.715	0.917		17-May-25 16:58	1
1,2,3,4,6,7,8-HpCDF	19.9		0.648			17-May-25 16:58	1
1,2,3,4,7,8,9-HpCDF	1.77		0.816		J	17-May-25 16:58	1
OCDF	34.9		3.83			17-May-25 16:58	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	8.28						
Totals							
Total TCDD	4.18			5.15			
Total PeCDD	15.4			15.9			
Total HxCDD	40.5						
Total HpCDD	139						
Total TCDF	146			149			
Total PeCDF	458			459			
Total HxCDF	262			264			
Total HpCDF	60.3			60.8			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	99.9	40 - 135		17-May-25 16:58	1
13C-1,2,3,7,8-PeCDD	IS	91.1	40 - 135		17-May-25 16:58	1
13C-1,2,3,4,7,8-HxCDD	IS	90.3	40 - 135		17-May-25 16:58	1
13C-1,2,3,6,7,8-HxCDD	IS	84.1	40 - 135		17-May-25 16:58	1
13C-1,2,3,7,8,9-HxCDD	IS	87.4	40 - 135		17-May-25 16:58	1
13C-1,2,3,4,6,7,8-HpCDD	IS	87.2	40 - 135		17-May-25 16:58	1
13C-OCDD	IS	78.1	40 - 135		17-May-25 16:58	1
13C-2,3,7,8-TCDF	IS	93.4	40 - 135		17-May-25 16:58	1
13C-1,2,3,7,8-PeCDF	IS	90.9	40 - 135		17-May-25 16:58	1
13C-2,3,4,7,8-PeCDF	IS	91.3	40 - 135		17-May-25 16:58	1
13C-1,2,3,4,7,8-HxCDF	IS	86.1	40 - 135		17-May-25 16:58	1
13C-1,2,3,6,7,8-HxCDF	IS	81.9	40 - 135		17-May-25 16:58	1
13C-2,3,4,6,7,8-HxCDF	IS	85.1	40 - 135		17-May-25 16:58	1
13C-1,2,3,7,8,9-HxCDF	IS	84.2	40 - 135		17-May-25 16:58	1
13C-1,2,3,4,6,7,8-HpCDF	IS	84.3	40 - 135		17-May-25 16:58	1
13C-1,2,3,4,7,8,9-HpCDF	IS	87.6	40 - 135		17-May-25 16:58	1
13C-OCDF	IS	78.5	40 - 135		17-May-25 16:58	1
37Cl-2,3,7,8-TCDD	CRS	90.9	40 - 135		17-May-25 16:58	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-006-1.0-2.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 12:47

Laboratory Data

Lab Sample: 2505059-06
QC Batch: B25E166
Sample Size: 12.1 g
% Solids: 83.4
Date Received: 06-May-25 09:03
Date Extracted: 13-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.0705	0.189			17-May-25 17:46	1
1,2,3,7,8-PeCDD	0.282		0.780		J	17-May-25 17:46	1
1,2,3,4,7,8-HxCDD	0.677		0.630		J	17-May-25 17:46	1
1,2,3,6,7,8-HxCDD	ND		0.637	2.10		17-May-25 17:46	1
1,2,3,7,8,9-HxCDD	1.27		0.713		J	17-May-25 17:46	1
1,2,3,4,6,7,8-HpCDD	84.0		0.702			17-May-25 17:46	1
OCDD	1080		1.61		B	17-May-25 17:46	1
2,3,7,8-TCDF	ND	0.0623	0.182			17-May-25 17:46	1
1,2,3,7,8-PeCDF	ND	0.0730	0.573			17-May-25 17:46	1
2,3,4,7,8-PeCDF	ND		0.683	0.119		17-May-25 17:46	1
1,2,3,4,7,8-HxCDF	1.02		0.656		J	17-May-25 17:46	1
1,2,3,6,7,8-HxCDF	0.343		0.618		J	17-May-25 17:46	1
2,3,4,6,7,8-HxCDF	ND		0.658	0.356		17-May-25 17:46	1
1,2,3,7,8,9-HxCDF	ND		0.712	0.0470		17-May-25 17:46	1
1,2,3,4,6,7,8-HpCDF	25.8		0.646			17-May-25 17:46	1
1,2,3,4,7,8,9-HpCDF	2.38		0.814		J	17-May-25 17:46	1
OCDF	134		3.82			17-May-25 17:46	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	2.10						
Totals							
Total TCDD	ND			0.175			
Total PeCDD	0.282			0.797	J		
Total HxCDD	9.67			11.8			
Total HpCDD	134						
Total TCDF	0.218			0.547	J		
Total PeCDF	2.85			3.44			
Total HxCDF	26.0			26.9			
Total HpCDF	126						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	95.6	40 - 135		17-May-25 17:46	1
13C-1,2,3,7,8-PeCDD	IS	85.7	40 - 135		17-May-25 17:46	1
13C-1,2,3,4,7,8-HxCDD	IS	89.6	40 - 135		17-May-25 17:46	1
13C-1,2,3,6,7,8-HxCDD	IS	84.0	40 - 135		17-May-25 17:46	1
13C-1,2,3,7,8,9-HxCDD	IS	84.9	40 - 135		17-May-25 17:46	1
13C-1,2,3,4,6,7,8-HpCDD	IS	83.6	40 - 135		17-May-25 17:46	1
13C-OCDD	IS	73.7	40 - 135		17-May-25 17:46	1
13C-2,3,7,8-TCDF	IS	96.8	40 - 135		17-May-25 17:46	1
13C-1,2,3,7,8-PeCDF	IS	93.1	40 - 135		17-May-25 17:46	1
13C-2,3,4,7,8-PeCDF	IS	92.5	40 - 135		17-May-25 17:46	1
13C-1,2,3,4,7,8-HxCDF	IS	86.7	40 - 135		17-May-25 17:46	1
13C-1,2,3,6,7,8-HxCDF	IS	81.2	40 - 135		17-May-25 17:46	1
13C-2,3,4,6,7,8-HxCDF	IS	86.4	40 - 135		17-May-25 17:46	1
13C-1,2,3,7,8,9-HxCDF	IS	84.7	40 - 135		17-May-25 17:46	1
13C-1,2,3,4,6,7,8-HpCDF	IS	80.9	40 - 135		17-May-25 17:46	1
13C-1,2,3,4,7,8,9-HpCDF	IS	86.9	40 - 135		17-May-25 17:46	1
13C-OCDF	IS	73.7	40 - 135		17-May-25 17:46	1
37Cl-2,3,7,8-TCDD	CRS	88.8	40 - 135		17-May-25 17:46	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-007-1.0-2.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 09:30

Laboratory Data

Lab Sample: 2505059-07
QC Batch: B25E166
Sample Size: 12.2 g
% Solids: 82.3
Date Received: 06-May-25 09:03
Date Extracted: 13-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND		0.190	0.629		17-May-25 18:33	1
1,2,3,7,8-PeCDD	8.39		0.782			17-May-25 18:33	1
1,2,3,4,7,8-HxCDD	18.2		0.631			17-May-25 18:33	1
1,2,3,6,7,8-HxCDD	76.4		0.638			17-May-25 18:33	1
1,2,3,7,8,9-HxCDD	37.1		0.715			17-May-25 18:33	1
1,2,3,4,6,7,8-HpCDD	1590		0.704			17-May-25 18:33	1
OCDD	14100		8.08		B,D	19-May-25 14:31	5
2,3,7,8-TCDF	1.92		0.183			17-May-25 18:33	1
1,2,3,7,8-PeCDF	4.19		0.575			17-May-25 18:33	1
2,3,4,7,8-PeCDF	34.6		0.684			17-May-25 18:33	1
1,2,3,4,7,8-HxCDF	28.9		0.657		P	17-May-25 18:33	1
1,2,3,6,7,8-HxCDF	19.1		0.620			17-May-25 18:33	1
2,3,4,6,7,8-HxCDF	15.0		0.659			17-May-25 18:33	1
1,2,3,7,8,9-HxCDF	2.60		0.714			17-May-25 18:33	1
1,2,3,4,6,7,8-HpCDF	258		0.647			17-May-25 18:33	1
1,2,3,4,7,8,9-HpCDF	17.7		0.816			17-May-25 18:33	1
OCDF	768		3.83			17-May-25 18:33	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	61.9						
Totals							
Total TCDD	8.66			11.2			
Total PeCDD	44.4			47.0			
Total HxCDD	369						
Total HpCDD	2660						
Total TCDF	117						
Total PeCDF	519			521			
Total HxCDF	667			673			
Total HpCDF	812						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	95.4	40 - 135		17-May-25 18:33	1
13C-1,2,3,7,8-PeCDD	IS	86.4	40 - 135		17-May-25 18:33	1
13C-1,2,3,4,7,8-HxCDD	IS	90.6	40 - 135		17-May-25 18:33	1
13C-1,2,3,6,7,8-HxCDD	IS	84.5	40 - 135		17-May-25 18:33	1
13C-1,2,3,7,8,9-HxCDD	IS	88.3	40 - 135		17-May-25 18:33	1
13C-1,2,3,4,6,7,8-HpCDD	IS	94.7	40 - 135		17-May-25 18:33	1
13C-OCDD	IS	75.0	40 - 135	D	19-May-25 14:31	5
13C-2,3,7,8-TCDF	IS	98.2	40 - 135		17-May-25 18:33	1
13C-1,2,3,7,8-PeCDF	IS	94.2	40 - 135		17-May-25 18:33	1
13C-2,3,4,7,8-PeCDF	IS	94.0	40 - 135		17-May-25 18:33	1
13C-1,2,3,4,7,8-HxCDF	IS	89.9	40 - 135		17-May-25 18:33	1
13C-1,2,3,6,7,8-HxCDF	IS	85.9	40 - 135		17-May-25 18:33	1
13C-2,3,4,6,7,8-HxCDF	IS	87.0	40 - 135		17-May-25 18:33	1
13C-1,2,3,7,8,9-HxCDF	IS	85.8	40 - 135		17-May-25 18:33	1
13C-1,2,3,4,6,7,8-HpCDF	IS	89.6	40 - 135		17-May-25 18:33	1
13C-1,2,3,4,7,8,9-HpCDF	IS	90.1	40 - 135		17-May-25 18:33	1
13C-OCDF	IS	87.8	40 - 135		17-May-25 18:33	1
37Cl-2,3,7,8-TCDD	CRS	86.8	40 - 135		17-May-25 18:33	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-009-1.0-2.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 14:06

Laboratory Data

Lab Sample: 2505059-08
QC Batch: B25E166
Sample Size: 12.2 g
% Solids: 82.6
Date Received: 06-May-25 09:03
Date Extracted: 13-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND		0.188	0.277		17-May-25 19:20	1
1,2,3,7,8-PeCDD	ND		0.778	0.680		17-May-25 19:20	1
1,2,3,4,7,8-HxCDD	2.27		0.628		J	17-May-25 19:20	1
1,2,3,6,7,8-HxCDD	12.0		0.635			17-May-25 19:20	1
1,2,3,7,8,9-HxCDD	4.41		0.711			17-May-25 19:20	1
1,2,3,4,6,7,8-HpCDD	241		0.700			17-May-25 19:20	1
OCDD	1660		1.61		B	17-May-25 19:20	1
2,3,7,8-TCDF	0.505		0.182			17-May-25 19:20	1
1,2,3,7,8-PeCDF	1.42		0.571		J	17-May-25 19:20	1
2,3,4,7,8-PeCDF	2.60		0.680			17-May-25 19:20	1
1,2,3,4,7,8-HxCDF	6.84		0.654			17-May-25 19:20	1
1,2,3,6,7,8-HxCDF	2.89		0.616			17-May-25 19:20	1
2,3,4,6,7,8-HxCDF	2.89		0.656			17-May-25 19:20	1
1,2,3,7,8,9-HxCDF	0.707		0.710		J	17-May-25 19:20	1
1,2,3,4,6,7,8-HpCDF	33.8		0.644			17-May-25 19:20	1
1,2,3,4,7,8,9-HpCDF	1.80		0.811		J	17-May-25 19:20	1
OCDF	26.7		3.81			17-May-25 19:20	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	7.35						
Totals							
Total TCDD	0.727			1.15			
Total PeCDD	2.16			3.99	J		
Total HxCDD	51.7						
Total HpCDD	407						
Total TCDF	6.95			7.07			
Total PeCDF	33.2			34.6			
Total HxCDF	89.6			90.2			
Total HpCDF	84.8						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	103	40 - 135		17-May-25 19:20	1
13C-1,2,3,7,8-PeCDD	IS	94.2	40 - 135		17-May-25 19:20	1
13C-1,2,3,4,7,8-HxCDD	IS	98.5	40 - 135		17-May-25 19:20	1
13C-1,2,3,6,7,8-HxCDD	IS	93.7	40 - 135		17-May-25 19:20	1
13C-1,2,3,7,8,9-HxCDD	IS	96.4	40 - 135		17-May-25 19:20	1
13C-1,2,3,4,6,7,8-HpCDD	IS	98.3	40 - 135		17-May-25 19:20	1
13C-OCDD	IS	94.8	40 - 135		17-May-25 19:20	1
13C-2,3,7,8-TCDF	IS	104	40 - 135		17-May-25 19:20	1
13C-1,2,3,7,8-PeCDF	IS	99.8	40 - 135		17-May-25 19:20	1
13C-2,3,4,7,8-PeCDF	IS	98.1	40 - 135		17-May-25 19:20	1
13C-1,2,3,4,7,8-HxCDF	IS	99.0	40 - 135		17-May-25 19:20	1
13C-1,2,3,6,7,8-HxCDF	IS	93.1	40 - 135		17-May-25 19:20	1
13C-2,3,4,6,7,8-HxCDF	IS	94.2	40 - 135		17-May-25 19:20	1
13C-1,2,3,7,8,9-HxCDF	IS	94.0	40 - 135		17-May-25 19:20	1
13C-1,2,3,4,6,7,8-HpCDF	IS	94.5	40 - 135		17-May-25 19:20	1
13C-1,2,3,4,7,8,9-HpCDF	IS	93.6	40 - 135		17-May-25 19:20	1
13C-OCDF	IS	88.0	40 - 135		17-May-25 19:20	1
37Cl-2,3,7,8-TCDD	CRS	90.7	40 - 135		17-May-25 19:20	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-010-1.0-2.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 14:39

Laboratory Data

Lab Sample: 2505059-09
QC Batch: B25E166
Sample Size: 12.1 g
% Solids: 83.5
Date Received: 06-May-25 09:03
Date Extracted: 13-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	1.08		0.189			18-May-25 01:46	1
1,2,3,7,8-PeCDD	10.9		0.778			18-May-25 01:46	1
1,2,3,4,7,8-HxCDD	30.2		0.628			18-May-25 01:46	1
1,2,3,6,7,8-HxCDD	167		0.635			18-May-25 01:46	1
1,2,3,7,8,9-HxCDD	60.0		0.712			18-May-25 01:46	1
1,2,3,4,6,7,8-HpCDD	3500		7.01		D	19-May-25 17:08	10
OCDD	28100		16.1		B,D	19-May-25 17:08	10
2,3,7,8-TCDF	5.71		0.182			18-May-25 01:46	1
1,2,3,7,8-PeCDF	20.4		0.572			18-May-25 01:46	1
2,3,4,7,8-PeCDF	15.0		0.681			18-May-25 01:46	1
1,2,3,4,7,8-HxCDF	93.5		0.654			18-May-25 01:46	1
1,2,3,6,7,8-HxCDF	37.3		0.616			18-May-25 01:46	1
2,3,4,6,7,8-HxCDF	21.9		0.656			18-May-25 01:46	1
1,2,3,7,8,9-HxCDF	10.6		0.711			18-May-25 01:46	1
1,2,3,4,6,7,8-HpCDF	518		0.644			18-May-25 01:46	1
1,2,3,4,7,8,9-HpCDF	21.8		0.812			18-May-25 01:46	1
OCDF	380		3.81			18-May-25 01:46	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	109						
Totals							
Total TCDD	5.13			7.53			
Total PeCDD	46.9			47.7			
Total HxCDD	661			666			
Total HpCDD	5480						
Total TCDF	47.5			51.4			
Total PeCDF	449						
Total HxCDF	1390						
Total HpCDF	1380						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	97.7	40 - 135		18-May-25 01:46	1
13C-1,2,3,7,8-PeCDD	IS	86.9	40 - 135		18-May-25 01:46	1
13C-1,2,3,4,7,8-HxCDD	IS	89.5	40 - 135		18-May-25 01:46	1
13C-1,2,3,6,7,8-HxCDD	IS	85.3	40 - 135		18-May-25 01:46	1
13C-1,2,3,7,8,9-HxCDD	IS	87.9	40 - 135		18-May-25 01:46	1
13C-1,2,3,4,6,7,8-HpCDD	IS	88.0	40 - 135	D	19-May-25 17:08	10
13C-OCDD	IS	81.6	40 - 135	D	19-May-25 17:08	10
13C-2,3,7,8-TCDF	IS	100	40 - 135		18-May-25 01:46	1
13C-1,2,3,7,8-PeCDF	IS	94.7	40 - 135		18-May-25 01:46	1
13C-2,3,4,7,8-PeCDF	IS	95.8	40 - 135		18-May-25 01:46	1
13C-1,2,3,4,7,8-HxCDF	IS	92.7	40 - 135		18-May-25 01:46	1
13C-1,2,3,6,7,8-HxCDF	IS	88.3	40 - 135		18-May-25 01:46	1
13C-2,3,4,6,7,8-HxCDF	IS	88.5	40 - 135		18-May-25 01:46	1
13C-1,2,3,7,8,9-HxCDF	IS	88.9	40 - 135		18-May-25 01:46	1
13C-1,2,3,4,6,7,8-HpCDF	IS	90.6	40 - 135		18-May-25 01:46	1
13C-1,2,3,4,7,8,9-HpCDF	IS	93.9	40 - 135		18-May-25 01:46	1
13C-OCDF	IS	91.2	40 - 135		18-May-25 01:46	1
37Cl-2,3,7,8-TCDD	CRS	90.0	40 - 135		18-May-25 01:46	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-010-1.0-2.0-DUP

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 14:39

Laboratory Data

Lab Sample: 2505059-10
QC Batch: B25E166
Sample Size: 12.0 g
% Solids: 83.6
Date Received: 06-May-25 09:03
Date Extracted: 13-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	0.948		0.190			18-May-25 02:33	1
1,2,3,7,8-PeCDD	9.27		0.783			18-May-25 02:33	1
1,2,3,4,7,8-HxCDD	23.4		0.632			18-May-25 02:33	1
1,2,3,6,7,8-HxCDD	137		0.639			18-May-25 02:33	1
1,2,3,7,8,9-HxCDD	46.4		0.716			18-May-25 02:33	1
1,2,3,4,6,7,8-HpCDD	2840		0.705			18-May-25 02:33	1
OCDD	24900		16.2		B,D	19-May-25 16:04	10
2,3,7,8-TCDF	ND		0.183	4.74		18-May-25 02:33	1
1,2,3,7,8-PeCDF	17.9		0.575			18-May-25 02:33	1
2,3,4,7,8-PeCDF	34.2		0.685			18-May-25 02:33	1
1,2,3,4,7,8-HxCDF	81.8		0.658			18-May-25 02:33	1
1,2,3,6,7,8-HxCDF	32.1		0.620			18-May-25 02:33	1
2,3,4,6,7,8-HxCDF	17.2		0.660			18-May-25 02:33	1
1,2,3,7,8,9-HxCDF	9.69		0.715			18-May-25 02:33	1
1,2,3,4,6,7,8-HpCDF	445		0.648			18-May-25 02:33	1
1,2,3,4,7,8,9-HpCDF	18.7		0.817			18-May-25 02:33	1
OCDF	323		3.83			18-May-25 02:33	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	96.4						
Totals							
Total TCDD	4.86			5.88			
Total PeCDD	43.9						
Total HxCDD	556						
Total HpCDD	4770						
Total TCDF	34.2			43.0			
Total PeCDF	403			404			
Total HxCDF	1220						
Total HpCDF	1190						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	97.3	40 - 135		18-May-25 02:33	1
13C-1,2,3,7,8-PeCDD	IS	88.1	40 - 135		18-May-25 02:33	1
13C-1,2,3,4,7,8-HxCDD	IS	92.3	40 - 135		18-May-25 02:33	1
13C-1,2,3,6,7,8-HxCDD	IS	87.7	40 - 135		18-May-25 02:33	1
13C-1,2,3,7,8,9-HxCDD	IS	88.7	40 - 135		18-May-25 02:33	1
13C-1,2,3,4,6,7,8-HpCDD	IS	101	40 - 135		18-May-25 02:33	1
13C-OCDD	IS	68.7	40 - 135	D	19-May-25 16:04	10
13C-2,3,7,8-TCDF	IS	101	40 - 135		18-May-25 02:33	1
13C-1,2,3,7,8-PeCDF	IS	99.3	40 - 135		18-May-25 02:33	1
13C-2,3,4,7,8-PeCDF	IS	97.9	40 - 135		18-May-25 02:33	1
13C-1,2,3,4,7,8-HxCDF	IS	93.3	40 - 135		18-May-25 02:33	1
13C-1,2,3,6,7,8-HxCDF	IS	89.3	40 - 135		18-May-25 02:33	1
13C-2,3,4,6,7,8-HxCDF	IS	89.2	40 - 135		18-May-25 02:33	1
13C-1,2,3,7,8,9-HxCDF	IS	92.3	40 - 135		18-May-25 02:33	1
13C-1,2,3,4,6,7,8-HpCDF	IS	91.6	40 - 135		18-May-25 02:33	1
13C-1,2,3,4,7,8,9-HpCDF	IS	95.2	40 - 135		18-May-25 02:33	1
13C-OCDF	IS	92.2	40 - 135		18-May-25 02:33	1
37Cl-2,3,7,8-TCDD	CRS	85.6	40 - 135		18-May-25 02:33	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-011-1.0-2.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 15:45

Laboratory Data

Lab Sample: 2505059-11
QC Batch: B25E166
Sample Size: 12.0 g
% Solids: 83.9
Date Received: 06-May-25 09:03
Date Extracted: 13-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.0791	0.188			18-May-25 03:21	1
1,2,3,7,8-PeCDD	1.01		0.777		J	18-May-25 03:21	1
1,2,3,4,7,8-HxCDD	2.70		0.628			18-May-25 03:21	1
1,2,3,6,7,8-HxCDD	14.4		0.635			18-May-25 03:21	1
1,2,3,7,8,9-HxCDD	5.54		0.711			18-May-25 03:21	1
1,2,3,4,6,7,8-HpCDD	289		0.700			18-May-25 03:21	1
OCDD	1930		1.61		B	18-May-25 03:21	1
2,3,7,8-TCDF	0.545		0.181			18-May-25 03:21	1
1,2,3,7,8-PeCDF	1.41		0.571		J	18-May-25 03:21	1
2,3,4,7,8-PeCDF	1.71		0.680		J	18-May-25 03:21	1
1,2,3,4,7,8-HxCDF	8.25		0.653			18-May-25 03:21	1
1,2,3,6,7,8-HxCDF	3.97		0.616			18-May-25 03:21	1
2,3,4,6,7,8-HxCDF	1.89		0.655		J	18-May-25 03:21	1
1,2,3,7,8,9-HxCDF	0.420		0.710		J	18-May-25 03:21	1
1,2,3,4,6,7,8-HpCDF	41.7		0.643			18-May-25 03:21	1
1,2,3,4,7,8,9-HpCDF	2.54		0.811			18-May-25 03:21	1
OCDF	29.4		3.81			18-May-25 03:21	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	9.26						
Totals							
Total TCDD	0.311			0.468	J		
Total PeCDD	2.59			4.32			
Total HxCDD	63.0						
Total HpCDD	492						
Total TCDF	6.07			6.68			
Total PeCDF	44.1						
Total HxCDF	113			117			
Total HpCDF	104						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	104	40 - 135		18-May-25 03:21	1
13C-1,2,3,7,8-PeCDD	IS	96.0	40 - 135		18-May-25 03:21	1
13C-1,2,3,4,7,8-HxCDD	IS	94.3	40 - 135		18-May-25 03:21	1
13C-1,2,3,6,7,8-HxCDD	IS	94.0	40 - 135		18-May-25 03:21	1
13C-1,2,3,7,8,9-HxCDD	IS	94.6	40 - 135		18-May-25 03:21	1
13C-1,2,3,4,6,7,8-HpCDD	IS	98.8	40 - 135		18-May-25 03:21	1
13C-OCDD	IS	94.2	40 - 135		18-May-25 03:21	1
13C-2,3,7,8-TCDF	IS	103	40 - 135		18-May-25 03:21	1
13C-1,2,3,7,8-PeCDF	IS	105	40 - 135		18-May-25 03:21	1
13C-2,3,4,7,8-PeCDF	IS	101	40 - 135		18-May-25 03:21	1
13C-1,2,3,4,7,8-HxCDF	IS	99.1	40 - 135		18-May-25 03:21	1
13C-1,2,3,6,7,8-HxCDF	IS	94.2	40 - 135		18-May-25 03:21	1
13C-2,3,4,6,7,8-HxCDF	IS	94.1	40 - 135		18-May-25 03:21	1
13C-1,2,3,7,8,9-HxCDF	IS	93.0	40 - 135		18-May-25 03:21	1
13C-1,2,3,4,6,7,8-HpCDF	IS	99.5	40 - 135		18-May-25 03:21	1
13C-1,2,3,4,7,8,9-HpCDF	IS	95.5	40 - 135		18-May-25 03:21	1
13C-OCDF	IS	90.5	40 - 135		18-May-25 03:21	1
37Cl-2,3,7,8-TCDD	CRS	97.7	40 - 135		18-May-25 03:21	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-012-1.0-2.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 16:21

Laboratory Data

Lab Sample: 2505059-12
QC Batch: B25E166
Sample Size: 12.1 g
% Solids: 82.7
Date Received: 06-May-25 09:03
Date Extracted: 13-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND		0.190	0.234		18-May-25 04:08	1
1,2,3,7,8-PeCDD	2.63		0.782			18-May-25 04:08	1
1,2,3,4,7,8-HxCDD	4.36		0.632			18-May-25 04:08	1
1,2,3,6,7,8-HxCDD	21.8		0.639			18-May-25 04:08	1
1,2,3,7,8,9-HxCDD	8.36		0.716			18-May-25 04:08	1
1,2,3,4,6,7,8-HpCDD	390		0.705			18-May-25 04:08	1
OCDD	2760		1.62		B	18-May-25 04:08	1
2,3,7,8-TCDF	1.54		0.183			18-May-25 04:08	1
1,2,3,7,8-PeCDF	2.75		0.575			18-May-25 04:08	1
2,3,4,7,8-PeCDF	38.2		0.685			18-May-25 04:08	1
1,2,3,4,7,8-HxCDF	14.3		0.658		P	18-May-25 04:08	1
1,2,3,6,7,8-HxCDF	11.4		0.620			18-May-25 04:08	1
2,3,4,6,7,8-HxCDF	10.4		0.660			18-May-25 04:08	1
1,2,3,7,8,9-HxCDF	3.65		0.715			18-May-25 04:08	1
1,2,3,4,6,7,8-HpCDF	66.2		0.648			18-May-25 04:08	1
1,2,3,4,7,8,9-HpCDF	4.23		0.816			18-May-25 04:08	1
OCDF	66.5		3.83			18-May-25 04:08	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	27.2						
Totals							
Total TCDD	2.40			4.02			
Total PeCDD	15.8			20.2			
Total HxCDD	113						
Total HpCDD	669						
Total TCDF	103			104			
Total PeCDF	460			462			
Total HxCDF	389			390			
Total HpCDF	172			173			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	96.0	40 - 135		18-May-25 04:08	1
13C-1,2,3,7,8-PeCDD	IS	85.8	40 - 135		18-May-25 04:08	1
13C-1,2,3,4,7,8-HxCDD	IS	91.2	40 - 135		18-May-25 04:08	1
13C-1,2,3,6,7,8-HxCDD	IS	86.9	40 - 135		18-May-25 04:08	1
13C-1,2,3,7,8,9-HxCDD	IS	87.5	40 - 135		18-May-25 04:08	1
13C-1,2,3,4,6,7,8-HpCDD	IS	94.4	40 - 135		18-May-25 04:08	1
13C-OCDD	IS	87.3	40 - 135		18-May-25 04:08	1
13C-2,3,7,8-TCDF	IS	96.4	40 - 135		18-May-25 04:08	1
13C-1,2,3,7,8-PeCDF	IS	93.4	40 - 135		18-May-25 04:08	1
13C-2,3,4,7,8-PeCDF	IS	92.2	40 - 135		18-May-25 04:08	1
13C-1,2,3,4,7,8-HxCDF	IS	92.7	40 - 135		18-May-25 04:08	1
13C-1,2,3,6,7,8-HxCDF	IS	89.6	40 - 135		18-May-25 04:08	1
13C-2,3,4,6,7,8-HxCDF	IS	88.6	40 - 135		18-May-25 04:08	1
13C-1,2,3,7,8,9-HxCDF	IS	88.1	40 - 135		18-May-25 04:08	1
13C-1,2,3,4,6,7,8-HpCDF	IS	89.8	40 - 135		18-May-25 04:08	1
13C-1,2,3,4,7,8,9-HpCDF	IS	89.5	40 - 135		18-May-25 04:08	1
13C-OCDF	IS	84.4	40 - 135		18-May-25 04:08	1
37Cl-2,3,7,8-TCDD	CRS	88.5	40 - 135		18-May-25 04:08	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-013-1.0-2.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 16:40

Laboratory Data

Lab Sample: 2505059-13
QC Batch: B25E166
Sample Size: 12.2 g
% Solids: 82.4
Date Received: 06-May-25 09:03
Date Extracted: 13-May-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.0591	0.189			18-May-25 04:55	1
1,2,3,7,8-PeCDD	0.348		0.781		J	18-May-25 04:55	1
1,2,3,4,7,8-HxCDD	1.14		0.630		J	18-May-25 04:55	1
1,2,3,6,7,8-HxCDD	6.28		0.637			18-May-25 04:55	1
1,2,3,7,8,9-HxCDD	2.31		0.714		J	18-May-25 04:55	1
1,2,3,4,6,7,8-HpCDD	116		0.703			18-May-25 04:55	1
OCDD	812		1.61		B	18-May-25 04:55	1
2,3,7,8-TCDF	ND		0.182	0.208		18-May-25 04:55	1
1,2,3,7,8-PeCDF	0.591		0.574		J	18-May-25 04:55	1
2,3,4,7,8-PeCDF	1.50		0.683		J	18-May-25 04:55	1
1,2,3,4,7,8-HxCDF	3.37		0.656			18-May-25 04:55	1
1,2,3,6,7,8-HxCDF	1.72		0.619		J	18-May-25 04:55	1
2,3,4,6,7,8-HxCDF	1.18		0.658		J	18-May-25 04:55	1
1,2,3,7,8,9-HxCDF	0.496		0.713		J	18-May-25 04:55	1
1,2,3,4,6,7,8-HpCDF	16.1		0.646			18-May-25 04:55	1
1,2,3,4,7,8,9-HpCDF	1.02		0.815		J	18-May-25 04:55	1
OCDF	13.6		3.82			18-May-25 04:55	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	4.04						
Totals							
Total TCDD	ND	0.0591					
Total PeCDD	0.348			1.85	J		
Total HxCDD	26.0						
Total HpCDD	197						
Total TCDF	2.82			3.55			
Total PeCDF	22.5			23.5			
Total HxCDF	47.2			47.6			
Total HpCDF	40.3						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	101	40 - 135		18-May-25 04:55	1
13C-1,2,3,7,8-PeCDD	IS	86.7	40 - 135		18-May-25 04:55	1
13C-1,2,3,4,7,8-HxCDD	IS	88.2	40 - 135		18-May-25 04:55	1
13C-1,2,3,6,7,8-HxCDD	IS	84.8	40 - 135		18-May-25 04:55	1
13C-1,2,3,7,8,9-HxCDD	IS	88.6	40 - 135		18-May-25 04:55	1
13C-1,2,3,4,6,7,8-HpCDD	IS	89.5	40 - 135		18-May-25 04:55	1
13C-OCDD	IS	83.1	40 - 135		18-May-25 04:55	1
13C-2,3,7,8-TCDF	IS	100	40 - 135		18-May-25 04:55	1
13C-1,2,3,7,8-PeCDF	IS	97.6	40 - 135		18-May-25 04:55	1
13C-2,3,4,7,8-PeCDF	IS	97.3	40 - 135		18-May-25 04:55	1
13C-1,2,3,4,7,8-HxCDF	IS	92.4	40 - 135		18-May-25 04:55	1
13C-1,2,3,6,7,8-HxCDF	IS	88.2	40 - 135		18-May-25 04:55	1
13C-2,3,4,6,7,8-HxCDF	IS	87.9	40 - 135		18-May-25 04:55	1
13C-1,2,3,7,8,9-HxCDF	IS	89.6	40 - 135		18-May-25 04:55	1
13C-1,2,3,4,6,7,8-HpCDF	IS	90.2	40 - 135		18-May-25 04:55	1
13C-1,2,3,4,7,8,9-HpCDF	IS	87.1	40 - 135		18-May-25 04:55	1
13C-OCDF	IS	78.5	40 - 135		18-May-25 04:55	1
37Cl-2,3,7,8-TCDD	CRS	93.6	40 - 135		18-May-25 04:55	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Enthalpy Analytical - EDH Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
Nevada Division of Environmental Protection	CA00413
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters can be found at Enthalpy.com/Resources/Accreditations.

2505059 1.5C

SUBCONTRACT ORDER

Apex Laboratories

A5E0955

SENDING LABORATORY:	**RECEIVING LABORATORY:**
Apex Laboratories	Enthalpy Analytical- CA
6700 S.W. Sandburg Street	1104 Windfield Way
Tigard, OR 97223	El Dorado Hills, CA 95762
Phone: (503) 718-2323	Phone :(916) 673-1520
Fax: (503) 336-0745	Fax: -
Project Manager: Philip Nerenberg	

Sample Name: ROW-P3-001-1.0-2.0 **Soil** **Sampled: 05/01/25 10:03** (A5E0955-01)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	05/15/25 17:00	05/31/25 10:03	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: ROW-P3-002-0-0.5 **Soil** **Sampled: 05/01/25 10:21** (A5E0955-03)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	05/15/25 17:00	05/31/25 10:21	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: ROW-P3-003-1.0-2.0 **Soil** **Sampled: 05/01/25 11:38** (A5E0955-05)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	05/15/25 17:00	05/31/25 11:38	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: ROW-P3-004-1.0-2.0 **Soil** **Sampled: 05/01/25 13:12** (A5E0955-07)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	05/15/25 17:00	05/31/25 13:12	
Containers Supplied:			
(A)8 oz Glass Jar			

- Standard TAT -

Released By	Date	Received By	Date
ZA	5/5/25	Fed Ex (Shipper)	
Fed Ex (Shipper)			
Released By	Date	Received By	Date
			05/06/25 09:03

2505059

SUBCONTRACT ORDER

Apex Laboratories

5/12/25 **A5E0955**

Sample Name: ROW-P3-005-1.0-2.0 **Soil** **Sampled: 05/01/25 12:27** (A5E0955-09)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	05/15/25 17:00	05/31/25 12:27	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: ROW-P3-006-1.0-2.0 **Soil** **Sampled: 05/01/25 12:47** (A5E0955-11)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	05/15/25 17:00	05/31/25 12:47	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: ROW-P3-007-1.0-2.0 **Soil** **Sampled: 05/01/25 09:30** (A5E0955-13)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	05/15/25 17:00	05/31/25 09:30	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: ROW-P3-009-1.0-2.0 **Soil** **Sampled: 05/01/25 14:06** (A5E0955-16)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	05/15/25 17:00	05/31/25 14:06	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: ROW-P3-010-1.0-2.0 **Soil** **Sampled: 05/01/25 14:39** (A5E0955-18)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	05/15/25 17:00	05/31/25 14:39	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: ROW-P3-010-1.0-2.0-DUP **Soil** **Sampled: 05/01/25 14:39** (A5E0955-19)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	05/15/25 17:00	05/31/25 14:39	
Containers Supplied:			
(A)8 oz Glass Jar			

- Standard TAT -

ZA 5/5/25 Fed Ex (Shipper)

Released By Date Received By Date

Fed Ex (Shipper) VAB 05/06/25

Released By Date Received By 05/06/25 09:03 Date

2505059

SUBCONTRACT ORDER

Apex Laboratories

A5E0955

Sample Name: ROW-P3-011-1.0-2.0 **Soil** **Sampled: 05/01/25 15:45** (A5E0955-21)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	05/15/25 17:00	05/31/25 15:45	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: ROW-P3-012-1.0-2.0 **Soil** **Sampled: 05/01/25 16:21** (A5E0955-23)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	05/15/25 17:00	05/31/25 16:21	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: ROW-P3-013-1.0-2.0 **Soil** **Sampled: 05/01/25 16:40** (A5E0955-25)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	05/15/25 17:00	05/31/25 16:40	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: 20250501-RB **Water** **Sampled: 05/01/25 17:00** (A5E0955-27)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	05/15/25 17:00	05/31/25 17:00	
Containers Supplied:			
(A)1 L Amber Glass - Non Preserved			
(B)1 L Amber Glass - Non Preserved			

Standard TAT -

Released By	Date	Received By	Date
ZA	5/5/25	Fed Ex (Shipper)	
Fed Ex (Shipper)			
Released By	Date	Received By	Date
			05/06/25 09:03

CoC/Label Reconciliation Report WO# 2505059

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2505059-01	A ROW-P3-001-1.0-2.0	A5E0955-01	01-May-25 10:03	Clear Glass Jar, 250mL (A)	Solid	
2505059-02	A ROW-P3-002-0-0.5	A5E0955-03	01-May-25 10:21	Clear Glass Jar, 250mL	Solid	
2505059-03	A ROW-P3-003-1.0-2.0	A5E0955-05	01-May-25 11:38	Clear Glass Jar, 250mL	Solid	
2505059-04	A ROW-P3-004-1.0-2.0	A5E0955-07	01-May-25 13:12	Clear Glass Jar, 250mL	Solid	
2505059-05	A ROW-P3-005-1.0-2.0	A5E0955-09	01-May-25 12:27	Clear Glass Jar, 250mL	Solid	
2505059-06	A ROW-P3-006-1.0-2.0	A5E0955-11	01-May-25 12:47	Clear Glass Jar, 250mL	Solid	
2505059-07	A ROW-P3-007-1.0-2.0	A5E0955-13	01-May-25 09:30	Clear Glass Jar, 250mL	Solid	
2505059-08	A ROW-P3-009-1.0-2.0	A5E0955-16	01-May-25 14:06	Clear Glass Jar, 250mL	Solid	
2505059-09	A ROW-P3-010-1.0-2.0	A5E0955-18	01-May-25 14:39	Clear Glass Jar, 250mL	Solid	
2505059-10	A ROW-P3-010-1.0-2.0-DUP	A5E0955-19	01-May-25 14:39	Clear Glass Jar, 250mL	Solid	
2505059-11	A ROW-P3-011-1.0-2.0	A5E0955-21	01-May-25 15:45	Clear Glass Jar, 250mL	Solid	
2505059-12	A ROW-P3-012-1.0-2.0	A5E0955-23	01-May-25 16:21	Clear Glass Jar, 250mL	Solid	
2505059-13	A ROW-P3-013-1.0-2.0	A5E0955-25	01-May-25 16:40	Clear Glass Jar, 250mL	Solid	
2505059-14	A 20250501-RB	A5E0955-27	01-May-25 17:00	Amber Glass NM Bottle, 1L	Aqueous	
2505059-14	B 20250501-RB	A5E0955-27	01-May-25 17:00	Amber Glass NM Bottle, 1L	Aqueous	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

CONDITION	Yes	No	NA
Sample Container Intact?	✓		
Sample Container(s) Custody Seals Intact?			✓
Custody Seals On Cooler Intact?			✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)?	✓		

Comments:
(A) Clear Jar used, Client Jar Used wrapped in Foil.

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 (None) Other

Verifed by/Date: XAO 05/07/25
HT 05/07/25

June 20, 2025

Enthalpy Analytical - El Dorado Hills
Work Order No. 2506086

Mr. Philip Nerenberg
Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223

Dear Mr. Nerenberg,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on June 05, 2025 under your Project Name 'A5E0955 / Port of Ridgefield'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at kathy.zipp@enthalpy.com.

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,

Kathy Zipp
Project Manager

Enthalpy Analytical - EDH Work Order No. 2506086
Case Narrative

Sample Condition on Receipt:

Four soil samples were received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The samples were received in good condition and within the method temperature requirements. The samples were received out of hold time. Authorization to proceed with the analyses was received by email on June 7, 2025.

Analytical Notes:

EPA Method 8290A

The samples were extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 8290A using a ZB-DIOXIN GC column.

Holding Times

The method holding time criteria were met for these samples. The samples were extracted outside the method hold time but within the hold time guidance in SW-846 Update VI, Chapter 4 (2018). The samples were analyzed within the method hold time.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above the sample quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries outside the acceptance criteria are flagged with an "H" qualifier.

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Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2506086-01	ROW-P3-004-1.5-2.0	01-May-25 13:16	05-Jun-25 09:27	Clear Glass Jar, 250mL
2506086-02	ROW-P3-007-1.5-2.0	01-May-25 09:32	05-Jun-25 09:27	Clear Glass Jar, 250mL
2506086-03	ROW-P3-010-2.0-2.5	01-May-25 14:45	05-Jun-25 09:27	Clear Glass Jar, 250mL
2506086-04	ROW-P3-012-1.5-2.0	01-May-25 16:25	05-Jun-25 09:27	Clear Glass Jar, 250mL

ANALYTICAL RESULTS

Sample ID: Method Blank

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Solid

Laboratory Data

Lab Sample: B25F125-BLK1
QC Batch: B25F125
Sample Size: 10.0 g
Date Extracted: 11-Jun-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.0903	0.190			12-Jun-25 16:52	1
1,2,3,7,8-PeCDD	ND	0.142	0.784			12-Jun-25 16:52	1
1,2,3,4,7,8-HxCDD	ND	0.139	0.633			12-Jun-25 16:52	1
1,2,3,6,7,8-HxCDD	ND	0.133	0.640			12-Jun-25 16:52	1
1,2,3,7,8,9-HxCDD	ND	0.143	0.717			12-Jun-25 16:52	1
1,2,3,4,6,7,8-HpCDD	ND	0.113	0.706			12-Jun-25 16:52	1
OCDD	ND	0.722	1.62			12-Jun-25 16:52	1
2,3,7,8-TCDF	ND	0.0827	0.183			12-Jun-25 16:52	1
1,2,3,7,8-PeCDF	ND		0.576	0.139		12-Jun-25 16:52	1
2,3,4,7,8-PeCDF	ND	0.0947	0.686			12-Jun-25 16:52	1
1,2,3,4,7,8-HxCDF	0.148		0.659		J	12-Jun-25 16:52	1
1,2,3,6,7,8-HxCDF	ND		0.621	0.129		12-Jun-25 16:52	1
2,3,4,6,7,8-HxCDF	ND		0.661	0.137		12-Jun-25 16:52	1
1,2,3,7,8,9-HxCDF	ND	0.130	0.716			12-Jun-25 16:52	1
1,2,3,4,6,7,8-HpCDF	ND	0.0899	0.649			12-Jun-25 16:52	1
1,2,3,4,7,8,9-HpCDF	ND		0.818	0.182		12-Jun-25 16:52	1
OCDF	ND	0.254	3.84			12-Jun-25 16:52	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	0.0148						
Totals							
Total TCDD	ND	0.0903					
Total PeCDD	ND	0.142					
Total HxCDD	ND	0.143					
Total HpCDD	ND	0.113					
Total TCDF	ND	0.0827					
Total PeCDF	ND			0.139			
Total HxCDF	0.148			0.414	J		
Total HpCDF	ND			0.182			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	74.9	40 - 135		12-Jun-25 16:52	1
13C-1,2,3,7,8-PeCDD	IS	76.6	40 - 135		12-Jun-25 16:52	1
13C-1,2,3,4,7,8-HxCDD	IS	83.3	40 - 135		12-Jun-25 16:52	1
13C-1,2,3,6,7,8-HxCDD	IS	85.6	40 - 135		12-Jun-25 16:52	1
13C-1,2,3,7,8,9-HxCDD	IS	81.4	40 - 135		12-Jun-25 16:52	1
13C-1,2,3,4,6,7,8-HpCDD	IS	72.2	40 - 135		12-Jun-25 16:52	1
13C-OCDD	IS	58.5	40 - 135		12-Jun-25 16:52	1
13C-2,3,7,8-TCDF	IS	79.8	40 - 135		12-Jun-25 16:52	1
13C-1,2,3,7,8-PeCDF	IS	78.1	40 - 135		12-Jun-25 16:52	1
13C-2,3,4,7,8-PeCDF	IS	77.4	40 - 135		12-Jun-25 16:52	1
13C-1,2,3,4,7,8-HxCDF	IS	78.1	40 - 135		12-Jun-25 16:52	1
13C-1,2,3,6,7,8-HxCDF	IS	74.5	40 - 135		12-Jun-25 16:52	1
13C-2,3,4,6,7,8-HxCDF	IS	72.6	40 - 135		12-Jun-25 16:52	1
13C-1,2,3,7,8,9-HxCDF	IS	71.4	40 - 135		12-Jun-25 16:52	1
13C-1,2,3,4,6,7,8-HpCDF	IS	66.0	40 - 135		12-Jun-25 16:52	1
13C-1,2,3,4,7,8,9-HpCDF	IS	64.4	40 - 135		12-Jun-25 16:52	1
13C-OCDF	IS	56.6	40 - 135		12-Jun-25 16:52	1
37Cl-2,3,7,8-TCDD	CRS	92.4	40 - 135		12-Jun-25 16:52	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: OPR **EPA Method 8290A**

Client Data
Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Solid

Laboratory Data
Lab Sample: B25F125-BS1
QC Batch: B25F125 Date Extracted: 11-Jun-25 03:35
Sample Size: 10.0 g Column: ZB-DIOXIN

Analyte	Amt Found (pg/g)	Spike Amt	% Recovery	Limits	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	20.5	20.0	103	70-130		12-Jun-25 14:32	1
1,2,3,7,8-PeCDD	111	100	111	70-130		12-Jun-25 14:32	1
1,2,3,4,7,8-HxCDD	97.1	100	97.1	70-130		12-Jun-25 14:32	1
1,2,3,6,7,8-HxCDD	95.0	100	95.0	70-130		12-Jun-25 14:32	1
1,2,3,7,8,9-HxCDD	102	100	102	70-130		12-Jun-25 14:32	1
1,2,3,4,6,7,8-HpCDD	106	100	106	70-130		12-Jun-25 14:32	1
OCDD	218	200	109	70-130		12-Jun-25 14:32	1
2,3,7,8-TCDF	19.3	20.0	96.6	70-130		12-Jun-25 14:32	1
1,2,3,7,8-PeCDF	102	100	102	70-130		12-Jun-25 14:32	1
2,3,4,7,8-PeCDF	107	100	107	70-130		12-Jun-25 14:32	1
1,2,3,4,7,8-HxCDF	102	100	102	70-130	B	12-Jun-25 14:32	1
1,2,3,6,7,8-HxCDF	107	100	107	70-130		12-Jun-25 14:32	1
2,3,4,6,7,8-HxCDF	105	100	105	70-130		12-Jun-25 14:32	1
1,2,3,7,8,9-HxCDF	105	100	105	70-130		12-Jun-25 14:32	1
1,2,3,4,6,7,8-HpCDF	108	100	108	70-130		12-Jun-25 14:32	1
1,2,3,4,7,8,9-HpCDF	107	100	107	70-130		12-Jun-25 14:32	1
OCDF	200	200	99.8	70-130		12-Jun-25 14:32	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	71.5	40-135		12-Jun-25 14:32	1
13C-1,2,3,7,8-PeCDD	IS	76.0	40-135		12-Jun-25 14:32	1
13C-1,2,3,4,7,8-HxCDD	IS	78.3	40-135		12-Jun-25 14:32	1
13C-1,2,3,6,7,8-HxCDD	IS	82.5	40-135		12-Jun-25 14:32	1
13C-1,2,3,7,8,9-HxCDD	IS	77.0	40-135		12-Jun-25 14:32	1
13C-1,2,3,4,6,7,8-HpCDD	IS	65.9	40-135		12-Jun-25 14:32	1
13C-OCDD	IS	51.2	40-135		12-Jun-25 14:32	1
13C-2,3,7,8-TCDF	IS	74.0	40-135		12-Jun-25 14:32	1
13C-1,2,3,7,8-PeCDF	IS	76.4	40-135		12-Jun-25 14:32	1
13C-2,3,4,7,8-PeCDF	IS	76.2	40-135		12-Jun-25 14:32	1
13C-1,2,3,4,7,8-HxCDF	IS	75.1	40-135		12-Jun-25 14:32	1
13C-1,2,3,6,7,8-HxCDF	IS	72.8	40-135		12-Jun-25 14:32	1
13C-2,3,4,6,7,8-HxCDF	IS	70.3	40-135		12-Jun-25 14:32	1
13C-1,2,3,7,8,9-HxCDF	IS	67.9	40-135		12-Jun-25 14:32	1
13C-1,2,3,4,6,7,8-HpCDF	IS	63.8	40-135		12-Jun-25 14:32	1
13C-1,2,3,4,7,8,9-HpCDF	IS	62.3	40-135		12-Jun-25 14:32	1
13C-OCDF	IS	54.7	40-135		12-Jun-25 14:32	1
37Cl-2,3,7,8-TCDD	CRS	91.0	40-135		12-Jun-25 14:32	1

Sample ID: ROW-P3-004-1.5-2.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 13:16

Laboratory Data

Lab Sample: 2506086-01
QC Batch: B25F125
Sample Size: 11.8 g
% Solids: 85.3
Date Received: 05-Jun-25 09:27
Date Extracted: 11-Jun-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.112	0.189			12-Jun-25 19:57	1
1,2,3,7,8-PeCDD	ND		0.779	0.658		12-Jun-25 19:57	1
1,2,3,4,7,8-HxCDD	1.63		0.629		J	12-Jun-25 19:57	1
1,2,3,6,7,8-HxCDD	7.54		0.636			12-Jun-25 19:57	1
1,2,3,7,8,9-HxCDD	3.55		0.712			12-Jun-25 19:57	1
1,2,3,4,6,7,8-HpCDD	169		0.701			12-Jun-25 19:57	1
OCDD	1250		1.61			12-Jun-25 19:57	1
2,3,7,8-TCDF	0.440		0.182		J	12-Jun-25 19:57	1
1,2,3,7,8-PeCDF	0.844		0.572		J	12-Jun-25 19:57	1
2,3,4,7,8-PeCDF	1.51		0.682		J	12-Jun-25 19:57	1
1,2,3,4,7,8-HxCDF	6.07		0.655		B	12-Jun-25 19:57	1
1,2,3,6,7,8-HxCDF	2.68		0.617			12-Jun-25 19:57	1
2,3,4,6,7,8-HxCDF	3.13		0.657			12-Jun-25 19:57	1
1,2,3,7,8,9-HxCDF	ND		0.711	0.360		12-Jun-25 19:57	1
1,2,3,4,6,7,8-HpCDF	26.4		0.645			12-Jun-25 19:57	1
1,2,3,4,7,8,9-HpCDF	2.39		0.813		J	12-Jun-25 19:57	1
OCDF	24.1		3.82			12-Jun-25 19:57	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	5.34						
Totals							
Total TCDD	ND			0.130			
Total PeCDD	1.14			3.74	J		
Total HxCDD	37.2			38.1			
Total HpCDD	311						
Total TCDF	7.11			7.58			
Total PeCDF	46.3			47.1			
Total HxCDF	78.5			81.5	B		
Total HpCDF	78.8						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	70.2	40 - 135		12-Jun-25 19:57	1
13C-1,2,3,7,8-PeCDD	IS	58.9	40 - 135		12-Jun-25 19:57	1
13C-1,2,3,4,7,8-HxCDD	IS	55.3	40 - 135		12-Jun-25 19:57	1
13C-1,2,3,6,7,8-HxCDD	IS	54.5	40 - 135		12-Jun-25 19:57	1
13C-1,2,3,7,8,9-HxCDD	IS	46.2	40 - 135		12-Jun-25 19:57	1
13C-1,2,3,4,6,7,8-HpCDD	IS	34.6	40 - 135	H	12-Jun-25 19:57	1
13C-OCDD	IS	23.5	40 - 135	H	12-Jun-25 19:57	1
13C-2,3,7,8-TCDF	IS	77.4	40 - 135		12-Jun-25 19:57	1
13C-1,2,3,7,8-PeCDF	IS	64.8	40 - 135		12-Jun-25 19:57	1
13C-2,3,4,7,8-PeCDF	IS	64.1	40 - 135		12-Jun-25 19:57	1
13C-1,2,3,4,7,8-HxCDF	IS	48.6	40 - 135		12-Jun-25 19:57	1
13C-1,2,3,6,7,8-HxCDF	IS	45.5	40 - 135		12-Jun-25 19:57	1
13C-2,3,4,6,7,8-HxCDF	IS	40.2	40 - 135		12-Jun-25 19:57	1
13C-1,2,3,7,8,9-HxCDF	IS	52.2	40 - 135		12-Jun-25 19:57	1
13C-1,2,3,4,6,7,8-HpCDF	IS	25.8	40 - 135	H	12-Jun-25 19:57	1
13C-1,2,3,4,7,8,9-HpCDF	IS	37.9	40 - 135	H	12-Jun-25 19:57	1
13C-OCDF	IS	25.3	40 - 135	H	12-Jun-25 19:57	1
37Cl-2,3,7,8-TCDD	CRS	97.4	40 - 135		12-Jun-25 19:57	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-007-1.5-2.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 09:32

Laboratory Data

Lab Sample: 2506086-02
QC Batch: B25F125
Sample Size: 12.3 g
% Solids: 81.8
Date Received: 05-Jun-25 09:27
Date Extracted: 11-Jun-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND		0.190	0.503		12-Jun-25 20:43	1
1,2,3,7,8-PeCDD	9.92		0.782			12-Jun-25 20:43	1
1,2,3,4,7,8-HxCDD	20.0		0.631			12-Jun-25 20:43	1
1,2,3,6,7,8-HxCDD	73.5		0.638			12-Jun-25 20:43	1
1,2,3,7,8,9-HxCDD	43.2		0.715			12-Jun-25 20:43	1
1,2,3,4,6,7,8-HpCDD	1750		0.704			12-Jun-25 20:43	1
OCDD	14900		16.2		D	13-Jun-25 14:37	10
2,3,7,8-TCDF	1.86		0.183			12-Jun-25 20:43	1
1,2,3,7,8-PeCDF	4.84		0.575			12-Jun-25 20:43	1
2,3,4,7,8-PeCDF	17.3		0.684			12-Jun-25 20:43	1
1,2,3,4,7,8-HxCDF	29.1		0.657		B	12-Jun-25 20:43	1
1,2,3,6,7,8-HxCDF	20.2		0.619			12-Jun-25 20:43	1
2,3,4,6,7,8-HxCDF	19.1		0.659			12-Jun-25 20:43	1
1,2,3,7,8,9-HxCDF	5.28		0.714			12-Jun-25 20:43	1
1,2,3,4,6,7,8-HpCDF	295		0.647			12-Jun-25 20:43	1
1,2,3,4,7,8,9-HpCDF	21.4		0.816			12-Jun-25 20:43	1
OCDF	836		3.83			12-Jun-25 20:43	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	61.9						
Totals							
Total TCDD	9.10			10.4			
Total PeCDD	50.8			56.2			
Total HxCDD	418						
Total HpCDD	3080						
Total TCDF	107			108			
Total PeCDF	613			615			
Total HxCDF	746				B		
Total HpCDF	988						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	75.3	40 - 135		12-Jun-25 20:43	1
13C-1,2,3,7,8-PeCDD	IS	67.5	40 - 135		12-Jun-25 20:43	1
13C-1,2,3,4,7,8-HxCDD	IS	68.1	40 - 135		12-Jun-25 20:43	1
13C-1,2,3,6,7,8-HxCDD	IS	68.9	40 - 135		12-Jun-25 20:43	1
13C-1,2,3,7,8,9-HxCDD	IS	58.4	40 - 135		12-Jun-25 20:43	1
13C-1,2,3,4,6,7,8-HpCDD	IS	51.6	40 - 135		12-Jun-25 20:43	1
13C-OCDD	IS	44.8	40 - 135	D	13-Jun-25 14:37	10
13C-2,3,7,8-TCDF	IS	78.9	40 - 135		12-Jun-25 20:43	1
13C-1,2,3,7,8-PeCDF	IS	71.9	40 - 135		12-Jun-25 20:43	1
13C-2,3,4,7,8-PeCDF	IS	71.7	40 - 135		12-Jun-25 20:43	1
13C-1,2,3,4,7,8-HxCDF	IS	62.1	40 - 135		12-Jun-25 20:43	1
13C-1,2,3,6,7,8-HxCDF	IS	57.5	40 - 135		12-Jun-25 20:43	1
13C-2,3,4,6,7,8-HxCDF	IS	53.8	40 - 135		12-Jun-25 20:43	1
13C-1,2,3,7,8,9-HxCDF	IS	61.0	40 - 135		12-Jun-25 20:43	1
13C-1,2,3,4,6,7,8-HpCDF	IS	41.7	40 - 135		12-Jun-25 20:43	1
13C-1,2,3,4,7,8,9-HpCDF	IS	50.4	40 - 135		12-Jun-25 20:43	1
13C-OCDF	IS	42.0	40 - 135		12-Jun-25 20:43	1
37Cl-2,3,7,8-TCDD	CRS	97.6	40 - 135		12-Jun-25 20:43	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-010-2.0-2.5

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 14:45

Laboratory Data

Lab Sample: 2506086-03
QC Batch: B25F125
Sample Size: 12.3 g
% Solids: 81.5
Date Received: 05-Jun-25 09:27
Date Extracted: 11-Jun-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND		0.190	0.286		12-Jun-25 21:30	1
1,2,3,7,8-PeCDD	3.80		0.783			12-Jun-25 21:30	1
1,2,3,4,7,8-HxCDD	ND		0.632	7.25		12-Jun-25 21:30	1
1,2,3,6,7,8-HxCDD	40.7		0.639			12-Jun-25 21:30	1
1,2,3,7,8,9-HxCDD	14.9		0.716			12-Jun-25 21:30	1
1,2,3,4,6,7,8-HpCDD	948		0.705			12-Jun-25 21:30	1
OCDD	8680		16.2		D	13-Jun-25 15:24	10
2,3,7,8-TCDF	1.67		0.183			12-Jun-25 21:30	1
1,2,3,7,8-PeCDF	6.01		0.575			12-Jun-25 21:30	1
2,3,4,7,8-PeCDF	12.1		0.685			12-Jun-25 21:30	1
1,2,3,4,7,8-HxCDF	23.9		0.658		B	12-Jun-25 21:30	1
1,2,3,6,7,8-HxCDF	10.8		0.620			12-Jun-25 21:30	1
2,3,4,6,7,8-HxCDF	8.76		0.660			12-Jun-25 21:30	1
1,2,3,7,8,9-HxCDF	ND		0.715	4.60		12-Jun-25 21:30	1
1,2,3,4,6,7,8-HpCDF	148		0.648			12-Jun-25 21:30	1
1,2,3,4,7,8,9-HpCDF	7.45		0.817			12-Jun-25 21:30	1
OCDF	111		3.83			12-Jun-25 21:30	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	31.4						
Totals							
Total TCDD	0.640			2.92			
Total PeCDD	13.2			16.9			
Total HxCDD	176			185			
Total HpCDD	1710						
Total TCDF	12.8			15.8			
Total PeCDF	120			129			
Total HxCDF	392			403	B		
Total HpCDF	435			437			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	63.6	40 - 135		12-Jun-25 21:30	1
13C-1,2,3,7,8-PeCDD	IS	54.6	40 - 135		12-Jun-25 21:30	1
13C-1,2,3,4,7,8-HxCDD	IS	58.0	40 - 135		12-Jun-25 21:30	1
13C-1,2,3,6,7,8-HxCDD	IS	56.0	40 - 135		12-Jun-25 21:30	1
13C-1,2,3,7,8,9-HxCDD	IS	45.8	40 - 135		12-Jun-25 21:30	1
13C-1,2,3,4,6,7,8-HpCDD	IS	39.9	40 - 135	H	12-Jun-25 21:30	1
13C-OCDD	IS	28.4	40 - 135	D,H	13-Jun-25 15:24	10
13C-2,3,7,8-TCDF	IS	69.7	40 - 135		12-Jun-25 21:30	1
13C-1,2,3,7,8-PeCDF	IS	60.2	40 - 135		12-Jun-25 21:30	1
13C-2,3,4,7,8-PeCDF	IS	59.4	40 - 135		12-Jun-25 21:30	1
13C-1,2,3,4,7,8-HxCDF	IS	51.4	40 - 135		12-Jun-25 21:30	1
13C-1,2,3,6,7,8-HxCDF	IS	46.4	40 - 135		12-Jun-25 21:30	1
13C-2,3,4,6,7,8-HxCDF	IS	41.5	40 - 135		12-Jun-25 21:30	1
13C-1,2,3,7,8,9-HxCDF	IS	48.0	40 - 135		12-Jun-25 21:30	1
13C-1,2,3,4,6,7,8-HpCDF	IS	30.0	40 - 135	H	12-Jun-25 21:30	1
13C-1,2,3,4,7,8,9-HpCDF	IS	40.9	40 - 135		12-Jun-25 21:30	1
13C-OCDF	IS	30.3	40 - 135	H	12-Jun-25 21:30	1
37Cl-2,3,7,8-TCDD	CRS	94.4	40 - 135		12-Jun-25 21:30	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-012-1.5-2.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5E0955 / Port of Ridgefield
Matrix: Soil
Date Collected: 01-May-25 16:25

Laboratory Data

Lab Sample: 2506086-04
QC Batch: B25F125
Sample Size: 12.1 g
% Solids: 83.2
Date Received: 05-Jun-25 09:27
Date Extracted: 11-Jun-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND		0.189	0.403		12-Jun-25 22:16	1
1,2,3,7,8-PeCDD	4.45		0.781			12-Jun-25 22:16	1
1,2,3,4,7,8-HxCDD	7.50		0.631			12-Jun-25 22:16	1
1,2,3,6,7,8-HxCDD	32.1		0.638			12-Jun-25 22:16	1
1,2,3,7,8,9-HxCDD	15.8		0.715			12-Jun-25 22:16	1
1,2,3,4,6,7,8-HpCDD	608		0.704			12-Jun-25 22:16	1
OCDD	3990		1.61			12-Jun-25 22:16	1
2,3,7,8-TCDF	2.37		0.182			12-Jun-25 22:16	1
1,2,3,7,8-PeCDF	4.34		0.574			12-Jun-25 22:16	1
2,3,4,7,8-PeCDF	24.3		0.684			12-Jun-25 22:16	1
1,2,3,4,7,8-HxCDF	20.6		0.657		B	12-Jun-25 22:16	1
1,2,3,6,7,8-HxCDF	16.8		0.619			12-Jun-25 22:16	1
2,3,4,6,7,8-HxCDF	18.1		0.659			12-Jun-25 22:16	1
1,2,3,7,8,9-HxCDF	4.19		0.714			12-Jun-25 22:16	1
1,2,3,4,6,7,8-HpCDF	105		0.647			12-Jun-25 22:16	1
1,2,3,4,7,8,9-HpCDF	7.52		0.815			12-Jun-25 22:16	1
OCDF	111		3.83			12-Jun-25 22:16	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	32.1						
Totals							
Total TCDD	6.49			8.66			
Total PeCDD	36.7			37.7			
Total HxCDD	184						
Total HpCDD	1090						
Total TCDF	136			137			
Total PeCDF	709			710			
Total HxCDF	581				B		
Total HpCDF	307						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	78.2	40 - 135		12-Jun-25 22:16	1
13C-1,2,3,7,8-PeCDD	IS	72.0	40 - 135		12-Jun-25 22:16	1
13C-1,2,3,4,7,8-HxCDD	IS	76.6	40 - 135		12-Jun-25 22:16	1
13C-1,2,3,6,7,8-HxCDD	IS	76.2	40 - 135		12-Jun-25 22:16	1
13C-1,2,3,7,8,9-HxCDD	IS	67.1	40 - 135		12-Jun-25 22:16	1
13C-1,2,3,4,6,7,8-HpCDD	IS	64.3	40 - 135		12-Jun-25 22:16	1
13C-OCDD	IS	45.5	40 - 135		12-Jun-25 22:16	1
13C-2,3,7,8-TCDF	IS	81.1	40 - 135		12-Jun-25 22:16	1
13C-1,2,3,7,8-PeCDF	IS	72.5	40 - 135		12-Jun-25 22:16	1
13C-2,3,4,7,8-PeCDF	IS	71.9	40 - 135		12-Jun-25 22:16	1
13C-1,2,3,4,7,8-HxCDF	IS	70.0	40 - 135		12-Jun-25 22:16	1
13C-1,2,3,6,7,8-HxCDF	IS	65.6	40 - 135		12-Jun-25 22:16	1
13C-2,3,4,6,7,8-HxCDF	IS	61.8	40 - 135		12-Jun-25 22:16	1
13C-1,2,3,7,8,9-HxCDF	IS	66.2	40 - 135		12-Jun-25 22:16	1
13C-1,2,3,4,6,7,8-HpCDF	IS	49.8	40 - 135		12-Jun-25 22:16	1
13C-1,2,3,4,7,8,9-HpCDF	IS	56.6	40 - 135		12-Jun-25 22:16	1
13C-OCDF	IS	45.5	40 - 135		12-Jun-25 22:16	1
37Cl-2,3,7,8-TCDD	CRS	103	40 - 135		12-Jun-25 22:16	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Enthalpy Analytical - EDH Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
Nevada Division of Environmental Protection	CA00413
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters can be found at Enthalpy.com/Resources/Accreditations.

SUBCONTRACT ORDER

Apex Laboratories

A5E0955

ARL 6/3/25 KN 2506086 2.7(

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Philip Nerenberg

RECEIVING LABORATORY:

Enthalpy Analytical- CA
1104 Windfield Way
El Dorado Hills, CA 95762
Phone :(916) 673-1520
Fax: -

Subcontracted analysis added per client reques

Sample Name: ROW-P3-004-1.5-2.0 **Soil** **Sampled: 05/01/25 13:16** (A5E0955-08)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	06/25/25 17:00	05/31/25 13:16	Port of Ridgefield - Out of hold OK
Containers Supplied: (A)8 oz Glass Jar			

Subcontracted analysis added per client reques

Sample Name: ROW-P3-007-1.5-2.0 **Soil** **Sampled: 05/01/25 09:32** (A5E0955-14)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	06/25/25 17:00	05/31/25 09:32	Port of Ridgefield - Out of hold OK
Containers Supplied: (A)8 oz Glass Jar			

Subcontracted analysis added per client reques

Sample Name: ROW-P3-010-2.0-2.5 **Soil** **Sampled: 05/01/25 14:45** (A5E0955-20)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	06/25/25 17:00	05/31/25 14:45	Port of Ridgefield - Out of hold OK
Containers Supplied: (A)8 oz Glass Jar			

Subcontracted analysis added per client reques

Sample Name: ROW-P3-012-1.5-2.0 **Soil** **Sampled: 05/01/25 16:25** (A5E0955-24)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	06/25/25 17:00	05/31/25 16:25	Port of Ridgefield - Out of hold OK
Containers Supplied: (A)8 oz Glass Jar			

Standard TAT

Released By	Date	Received By	Date
	6/4/25	Fed Ex (Shipper)	
Fed Ex (Shipper)			
Released By	Date	Received By	Date
			06/05/25 0927

CoC/Label Reconciliation Report WO# 2506086

LabNumber	CoC Sample ID		SampleAlias	Sample Date/Time		Container	BaseMatrix	Sample Comments
2506086-01	A ROW-P3-004-1.5-2.0	☑	A5E0955-08	01-May-25 13:16	☑	Clear Glass Jar, 250mL (A)	Solid	
2506086-02	A ROW-P3-007-1.5-2.0	☑	A5E0955-14	01-May-25 09:32	☑	Clear Glass Jar, 250mL	Solid	
2506086-03	A ROW-P3-010-2.0-2.5	☑	A5E0955-20	01-May-25 14:45	☑	Clear Glass Jar, 250mL	Solid	
2506086-04	A ROW-P3-012-1.5-2.0	☑	A5E0955-24	01-May-25 16:25	☑	Clear Glass Jar, 250mL	Solid	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

CONDITION	Yes	No	NA
Sample Container Intact?	/		
Sample Container(s) Custody Seals Intact?			/
Custody Seals On Cooler Intact?			/
Adequate Sample Volume?	/		
Container Type Appropriate for Analysis(es)?	/		

Comments:
(A) Recived in Clear Jar wrapped in foil

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 (None) Other

Verifed by/Date: XAO 06/05/25
KBB 06/05/2025

August 07, 2025

Enthalpy Analytical - El Dorado Hills
Work Order No. 2507127

Mr. Philip Nerenberg
Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223

Dear Mr. Nerenberg,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on July 15, 2025 under your Project Name 'A5G1121 / Port of Ridgefield'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at kathy.zipp@enthalpy.com.

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,

Kathy Zipp
Project Manager

Enthalpy Analytical - EDH Work Order No. 2507127
Case Narrative

Sample Condition on Receipt:

Six soil samples were received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The samples were received in good condition and within the method temperature requirements.

Analytical Notes:

EPA Method 8290A

The samples were extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 8290A using a ZB-DIOXIN GC column.

Holding Times

The method holding time criteria were met for these samples.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above the sample quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

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Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2507127-01	ROW-P3-007-2.0-2.5	09-Jul-25 09:20	15-Jul-25 09:37	Clear Glass Jar, 8 oz
2507127-02	ROW-P3-007-2.5-3.0	09-Jul-25 09:25	15-Jul-25 09:37	Clear Glass Jar, 8 oz
2507127-03	ROW-P3-010-2.5-3.0	09-Jul-25 09:55	15-Jul-25 09:37	Clear Glass Jar, 8 oz
2507127-04	ROW-P3-010-3.0-3.5	09-Jul-25 10:00	15-Jul-25 09:37	Clear Glass Jar, 8 oz
2507127-05	ROW-P3-012-2.0-2.5	09-Jul-25 10:20	15-Jul-25 09:37	Clear Glass Jar, 8 oz
2507127-06	ROW-P3-012-2.5-3.0	09-Jul-25 10:25	15-Jul-25 09:37	Clear Glass Jar, 8 oz

ANALYTICAL RESULTS

Sample ID: Method Blank

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5G1121 / Port of Ridgefield
Matrix: Solid

Laboratory Data

Lab Sample: B25G252-BLK1
QC Batch: B25G252
Sample Size: 10.0 g
Date Extracted: 28-Jul-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.106	0.190			06-Aug-25 14:16	1
1,2,3,7,8-PeCDD	ND	0.101	0.784			06-Aug-25 14:16	1
1,2,3,4,7,8-HxCDD	ND	0.148	0.633			06-Aug-25 14:16	1
1,2,3,6,7,8-HxCDD	ND	0.158	0.640			06-Aug-25 14:16	1
1,2,3,7,8,9-HxCDD	ND	0.182	0.717			06-Aug-25 14:16	1
1,2,3,4,6,7,8-HpCDD	0.332		0.706		J	06-Aug-25 14:16	1
OCDD	3.64		1.62		J	06-Aug-25 14:16	1
2,3,7,8-TCDF	ND	0.107	0.183			06-Aug-25 14:16	1
1,2,3,7,8-PeCDF	ND	0.0755	0.576			06-Aug-25 14:16	1
2,3,4,7,8-PeCDF	ND	0.0695	0.686			06-Aug-25 14:16	1
1,2,3,4,7,8-HxCDF	ND	0.106	0.659			06-Aug-25 14:16	1
1,2,3,6,7,8-HxCDF	ND	0.104	0.621			06-Aug-25 14:16	1
2,3,4,6,7,8-HxCDF	ND	0.128	0.661			06-Aug-25 14:16	1
1,2,3,7,8,9-HxCDF	ND	0.132	0.716			06-Aug-25 14:16	1
1,2,3,4,6,7,8-HpCDF	ND	0.110	0.649			06-Aug-25 14:16	1
1,2,3,4,7,8,9-HpCDF	ND	0.160	0.818			06-Aug-25 14:16	1
OCDF	ND	0.395	3.84			06-Aug-25 14:16	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	0.00441						
Totals							
Total TCDD	ND	0.106					
Total PeCDD	ND	0.101					
Total HxCDD	ND	0.182					
Total HpCDD	0.332				J		
Total TCDF	ND	0.107					
Total PeCDF	ND	0.0755					
Total HxCDF	ND	0.132					
Total HpCDF	ND	0.160					

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	97.0	40 - 135		06-Aug-25 14:16	1
13C-1,2,3,7,8-PeCDD	IS	104	40 - 135		06-Aug-25 14:16	1
13C-1,2,3,4,7,8-HxCDD	IS	110	40 - 135		06-Aug-25 14:16	1
13C-1,2,3,6,7,8-HxCDD	IS	111	40 - 135		06-Aug-25 14:16	1
13C-1,2,3,7,8,9-HxCDD	IS	106	40 - 135		06-Aug-25 14:16	1
13C-1,2,3,4,6,7,8-HpCDD	IS	104	40 - 135		06-Aug-25 14:16	1
13C-OCDD	IS	108	40 - 135		06-Aug-25 14:16	1
13C-2,3,7,8-TCDF	IS	81.5	40 - 135		06-Aug-25 14:16	1
13C-1,2,3,7,8-PeCDF	IS	116	40 - 135		06-Aug-25 14:16	1
13C-2,3,4,7,8-PeCDF	IS	114	40 - 135		06-Aug-25 14:16	1
13C-1,2,3,4,7,8-HxCDF	IS	108	40 - 135		06-Aug-25 14:16	1
13C-1,2,3,6,7,8-HxCDF	IS	108	40 - 135		06-Aug-25 14:16	1
13C-2,3,4,6,7,8-HxCDF	IS	102	40 - 135		06-Aug-25 14:16	1
13C-1,2,3,7,8,9-HxCDF	IS	106	40 - 135		06-Aug-25 14:16	1
13C-1,2,3,4,6,7,8-HpCDF	IS	99.7	40 - 135		06-Aug-25 14:16	1
13C-1,2,3,4,7,8,9-HpCDF	IS	101	40 - 135		06-Aug-25 14:16	1
13C-OCDF	IS	101	40 - 135		06-Aug-25 14:16	1
37Cl-2,3,7,8-TCDD	CRS	99.4	40 - 135		06-Aug-25 14:16	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: OPR **EPA Method 8290A**

Client Data
Name: Apex Laboratories
Project: A5G1121 / Port of Ridgefield
Matrix: Solid

Laboratory Data
Lab Sample: B25G252-BS1
QC Batch: B25G252 Date Extracted: 28-Jul-25 08:35
Sample Size: 10.0 g Column: ZB-DIOXIN

Analyte	Amt Found (pg/g)	Spike Amt	% Recovery	Limits	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	20.8	20.0	104	70-130		06-Aug-25 12:44	1
1,2,3,7,8-PeCDD	109	100	109	70-130		06-Aug-25 12:44	1
1,2,3,4,7,8-HxCDD	92.7	100	92.7	70-130		06-Aug-25 12:44	1
1,2,3,6,7,8-HxCDD	92.7	100	92.7	70-130		06-Aug-25 12:44	1
1,2,3,7,8,9-HxCDD	96.4	100	96.4	70-130		06-Aug-25 12:44	1
1,2,3,4,6,7,8-HpCDD	98.3	100	98.3	70-130	B	06-Aug-25 12:44	1
OCDD	199	200	99.7	70-130	B	06-Aug-25 12:44	1
2,3,7,8-TCDF	19.5	20.0	97.7	70-130		06-Aug-25 12:44	1
1,2,3,7,8-PeCDF	93.6	100	93.6	70-130		06-Aug-25 12:44	1
2,3,4,7,8-PeCDF	95.0	100	95.0	70-130		06-Aug-25 12:44	1
1,2,3,4,7,8-HxCDF	96.7	100	96.7	70-130		06-Aug-25 12:44	1
1,2,3,6,7,8-HxCDF	95.9	100	95.9	70-130		06-Aug-25 12:44	1
2,3,4,6,7,8-HxCDF	96.2	100	96.2	70-130		06-Aug-25 12:44	1
1,2,3,7,8,9-HxCDF	93.9	100	93.9	70-130		06-Aug-25 12:44	1
1,2,3,4,6,7,8-HpCDF	99.1	100	99.1	70-130		06-Aug-25 12:44	1
1,2,3,4,7,8,9-HpCDF	97.2	100	97.2	70-130		06-Aug-25 12:44	1
OCDF	198	200	99.1	70-130		06-Aug-25 12:44	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	96.0	40-135		06-Aug-25 12:44	1
13C-1,2,3,7,8-PeCDD	IS	105	40-135		06-Aug-25 12:44	1
13C-1,2,3,4,7,8-HxCDD	IS	111	40-135		06-Aug-25 12:44	1
13C-1,2,3,6,7,8-HxCDD	IS	115	40-135		06-Aug-25 12:44	1
13C-1,2,3,7,8,9-HxCDD	IS	108	40-135		06-Aug-25 12:44	1
13C-1,2,3,4,6,7,8-HpCDD	IS	107	40-135		06-Aug-25 12:44	1
13C-OCDD	IS	120	40-135		06-Aug-25 12:44	1
13C-2,3,7,8-TCDF	IS	80.2	40-135		06-Aug-25 12:44	1
13C-1,2,3,7,8-PeCDF	IS	119	40-135		06-Aug-25 12:44	1
13C-2,3,4,7,8-PeCDF	IS	118	40-135		06-Aug-25 12:44	1
13C-1,2,3,4,7,8-HxCDF	IS	108	40-135		06-Aug-25 12:44	1
13C-1,2,3,6,7,8-HxCDF	IS	108	40-135		06-Aug-25 12:44	1
13C-2,3,4,6,7,8-HxCDF	IS	102	40-135		06-Aug-25 12:44	1
13C-1,2,3,7,8,9-HxCDF	IS	106	40-135		06-Aug-25 12:44	1
13C-1,2,3,4,6,7,8-HpCDF	IS	102	40-135		06-Aug-25 12:44	1
13C-1,2,3,4,7,8,9-HpCDF	IS	100	40-135		06-Aug-25 12:44	1
13C-OCDF	IS	111	40-135		06-Aug-25 12:44	1
37Cl-2,3,7,8-TCDD	CRS	102	40-135		06-Aug-25 12:44	1

Sample ID: ROW-P3-007-2.0-2.5

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5G1121 / Port of Ridgefield
Matrix: Soil
Date Collected: 09-Jul-25 09:20

Laboratory Data

Lab Sample: 2507127-01
QC Batch: B25G252
Sample Size: 12.5 g
% Solids: 84.0
Date Received: 15-Jul-25 09:37
Date Extracted: 28-Jul-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.187	0.181			06-Aug-25 15:03	1
1,2,3,7,8-PeCDD	0.563		0.746		J	06-Aug-25 15:03	1
1,2,3,4,7,8-HxCDD	0.922		0.603		J	06-Aug-25 15:03	1
1,2,3,6,7,8-HxCDD	2.81		0.609			06-Aug-25 15:03	1
1,2,3,7,8,9-HxCDD	2.45		0.683			06-Aug-25 15:03	1
1,2,3,4,6,7,8-HpCDD	76.1		0.672		B	06-Aug-25 15:03	1
OCDD	704		1.54		B	06-Aug-25 15:03	1
2,3,7,8-TCDF	ND	0.119	0.174			06-Aug-25 15:03	1
1,2,3,7,8-PeCDF	0.253		0.548		J	06-Aug-25 15:03	1
2,3,4,7,8-PeCDF	1.03		0.653		J	06-Aug-25 15:03	1
1,2,3,4,7,8-HxCDF	1.08		0.627		J	06-Aug-25 15:03	1
1,2,3,6,7,8-HxCDF	0.784		0.591		J	06-Aug-25 15:03	1
2,3,4,6,7,8-HxCDF	0.916		0.629		J	06-Aug-25 15:03	1
1,2,3,7,8,9-HxCDF	0.267		0.682		J	06-Aug-25 15:03	1
1,2,3,4,6,7,8-HpCDF	14.3		0.618			06-Aug-25 15:03	1
1,2,3,4,7,8,9-HpCDF	ND		0.779	0.849		06-Aug-25 15:03	1
OCDF	58.7		3.66			06-Aug-25 15:03	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	2.94						
Totals							
Total TCDD	ND	0.187					
Total PeCDD	2.27			3.86	J		
Total HxCDD	17.8			18.4			
Total HpCDD	127				B		
Total TCDF	2.16			2.95			
Total PeCDF	14.2						
Total HxCDF	25.2			25.3			
Total HpCDF	42.7			43.6			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	90.7	40 - 135		06-Aug-25 15:03	1
13C-1,2,3,7,8-PeCDD	IS	104	40 - 135		06-Aug-25 15:03	1
13C-1,2,3,4,7,8-HxCDD	IS	110	40 - 135		06-Aug-25 15:03	1
13C-1,2,3,6,7,8-HxCDD	IS	109	40 - 135		06-Aug-25 15:03	1
13C-1,2,3,7,8,9-HxCDD	IS	104	40 - 135		06-Aug-25 15:03	1
13C-1,2,3,4,6,7,8-HpCDD	IS	103	40 - 135		06-Aug-25 15:03	1
13C-OCDD	IS	109	40 - 135		06-Aug-25 15:03	1
13C-2,3,7,8-TCDF	IS	76.4	40 - 135		06-Aug-25 15:03	1
13C-1,2,3,7,8-PeCDF	IS	112	40 - 135		06-Aug-25 15:03	1
13C-2,3,4,7,8-PeCDF	IS	116	40 - 135		06-Aug-25 15:03	1
13C-1,2,3,4,7,8-HxCDF	IS	108	40 - 135		06-Aug-25 15:03	1
13C-1,2,3,6,7,8-HxCDF	IS	104	40 - 135		06-Aug-25 15:03	1
13C-2,3,4,6,7,8-HxCDF	IS	101	40 - 135		06-Aug-25 15:03	1
13C-1,2,3,7,8,9-HxCDF	IS	104	40 - 135		06-Aug-25 15:03	1
13C-1,2,3,4,6,7,8-HpCDF	IS	94.7	40 - 135		06-Aug-25 15:03	1
13C-1,2,3,4,7,8,9-HpCDF	IS	94.9	40 - 135		06-Aug-25 15:03	1
13C-OCDF	IS	101	40 - 135		06-Aug-25 15:03	1
37Cl-2,3,7,8-TCDD	CRS	91.8	40 - 135		06-Aug-25 15:03	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-007-2.5-3.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5G1121 / Port of Ridgefield
Matrix: Soil
Date Collected: 09-Jul-25 09:25

Laboratory Data

Lab Sample: 2507127-02
QC Batch: B25G252
Sample Size: 12.0 g
% Solids: 83.8
Date Received: 15-Jul-25 09:37
Date Extracted: 28-Jul-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.0889	0.190			06-Aug-25 15:51	1
1,2,3,7,8-PeCDD	ND	0.120	0.783			06-Aug-25 15:51	1
1,2,3,4,7,8-HxCDD	0.466		0.632		J	06-Aug-25 15:51	1
1,2,3,6,7,8-HxCDD	2.11		0.639		J	06-Aug-25 15:51	1
1,2,3,7,8,9-HxCDD	0.900		0.716		J	06-Aug-25 15:51	1
1,2,3,4,6,7,8-HpCDD	41.4		0.705		B	06-Aug-25 15:51	1
OCDD	285		1.62		B	06-Aug-25 15:51	1
2,3,7,8-TCDF	ND	0.0965	0.183			06-Aug-25 15:51	1
1,2,3,7,8-PeCDF	ND		0.575	0.211		06-Aug-25 15:51	1
2,3,4,7,8-PeCDF	ND		0.685	0.360		06-Aug-25 15:51	1
1,2,3,4,7,8-HxCDF	0.721		0.658		J	06-Aug-25 15:51	1
1,2,3,6,7,8-HxCDF	ND	0.192	0.620			06-Aug-25 15:51	1
2,3,4,6,7,8-HxCDF	0.370		0.660		J	06-Aug-25 15:51	1
1,2,3,7,8,9-HxCDF	ND		0.715	0.111		06-Aug-25 15:51	1
1,2,3,4,6,7,8-HpCDF	5.50		0.648			06-Aug-25 15:51	1
1,2,3,4,7,8,9-HpCDF	0.358		0.817		J	06-Aug-25 15:51	1
OCDF	9.15		3.83			06-Aug-25 15:51	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	1.02						
Totals							
Total TCDD	ND	0.0889					
Total PeCDD	ND	0.120					
Total HxCDD	9.46			9.80			
Total HpCDD	71.1				B		
Total TCDF	0.716			0.878			
Total PeCDF	4.39			5.28			
Total HxCDF	11.8			12.2			
Total HpCDF	14.2						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	87.9	40 - 135		06-Aug-25 15:51	1
13C-1,2,3,7,8-PeCDD	IS	103	40 - 135		06-Aug-25 15:51	1
13C-1,2,3,4,7,8-HxCDD	IS	113	40 - 135		06-Aug-25 15:51	1
13C-1,2,3,6,7,8-HxCDD	IS	111	40 - 135		06-Aug-25 15:51	1
13C-1,2,3,7,8,9-HxCDD	IS	107	40 - 135		06-Aug-25 15:51	1
13C-1,2,3,4,6,7,8-HpCDD	IS	108	40 - 135		06-Aug-25 15:51	1
13C-OCDD	IS	117	40 - 135		06-Aug-25 15:51	1
13C-2,3,7,8-TCDF	IS	76.2	40 - 135		06-Aug-25 15:51	1
13C-1,2,3,7,8-PeCDF	IS	119	40 - 135		06-Aug-25 15:51	1
13C-2,3,4,7,8-PeCDF	IS	113	40 - 135		06-Aug-25 15:51	1
13C-1,2,3,4,7,8-HxCDF	IS	111	40 - 135		06-Aug-25 15:51	1
13C-1,2,3,6,7,8-HxCDF	IS	106	40 - 135		06-Aug-25 15:51	1
13C-2,3,4,6,7,8-HxCDF	IS	103	40 - 135		06-Aug-25 15:51	1
13C-1,2,3,7,8,9-HxCDF	IS	107	40 - 135		06-Aug-25 15:51	1
13C-1,2,3,4,6,7,8-HpCDF	IS	98.7	40 - 135		06-Aug-25 15:51	1
13C-1,2,3,4,7,8,9-HpCDF	IS	104	40 - 135		06-Aug-25 15:51	1
13C-OCDF	IS	108	40 - 135		06-Aug-25 15:51	1
37Cl-2,3,7,8-TCDD	CRS	92.7	40 - 135		06-Aug-25 15:51	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-010-2.5-3.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5G1121 / Port of Ridgefield
Matrix: Soil
Date Collected: 09-Jul-25 09:55

Laboratory Data

Lab Sample: 2507127-03
QC Batch: B25G252
Sample Size: 12.6 g
% Solids: 82.0
Date Received: 15-Jul-25 09:37
Date Extracted: 28-Jul-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.0778	0.184			06-Aug-25 16:38	1
1,2,3,7,8-PeCDD	0.564		0.757		J	06-Aug-25 16:38	1
1,2,3,4,7,8-HxCDD	0.747		0.612		J	06-Aug-25 16:38	1
1,2,3,6,7,8-HxCDD	4.11		0.618			06-Aug-25 16:38	1
1,2,3,7,8,9-HxCDD	1.65		0.693		J	06-Aug-25 16:38	1
1,2,3,4,6,7,8-HpCDD	90.6		0.682		B	06-Aug-25 16:38	1
OCDD	664		1.57		B	06-Aug-25 16:38	1
2,3,7,8-TCDF	0.294		0.177		J	06-Aug-25 16:38	1
1,2,3,7,8-PeCDF	0.648		0.556		J	06-Aug-25 16:38	1
2,3,4,7,8-PeCDF	1.61		0.663		J	06-Aug-25 16:38	1
1,2,3,4,7,8-HxCDF	2.60		0.637			06-Aug-25 16:38	1
1,2,3,6,7,8-HxCDF	1.10		0.600		J	06-Aug-25 16:38	1
2,3,4,6,7,8-HxCDF	ND		0.639	0.721		06-Aug-25 16:38	1
1,2,3,7,8,9-HxCDF	0.354		0.692		J	06-Aug-25 16:38	1
1,2,3,4,6,7,8-HpCDF	12.5		0.627			06-Aug-25 16:38	1
1,2,3,4,7,8,9-HpCDF	0.669		0.790		J	06-Aug-25 16:38	1
OCDF	11.3		3.71			06-Aug-25 16:38	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	3.39						
Totals							
Total TCDD	ND			0.347			
Total PeCDD	1.49			3.09	J		
Total HxCDD	19.9						
Total HpCDD	150				B		
Total TCDF	2.91			4.45			
Total PeCDF	16.2			18.3			
Total HxCDF	42.4			43.2			
Total HpCDF	34.4						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	97.2	40 - 135		06-Aug-25 16:38	1
13C-1,2,3,7,8-PeCDD	IS	110	40 - 135		06-Aug-25 16:38	1
13C-1,2,3,4,7,8-HxCDD	IS	116	40 - 135		06-Aug-25 16:38	1
13C-1,2,3,6,7,8-HxCDD	IS	116	40 - 135		06-Aug-25 16:38	1
13C-1,2,3,7,8,9-HxCDD	IS	109	40 - 135		06-Aug-25 16:38	1
13C-1,2,3,4,6,7,8-HpCDD	IS	109	40 - 135		06-Aug-25 16:38	1
13C-OCDD	IS	126	40 - 135		06-Aug-25 16:38	1
13C-2,3,7,8-TCDF	IS	84.3	40 - 135		06-Aug-25 16:38	1
13C-1,2,3,7,8-PeCDF	IS	119	40 - 135		06-Aug-25 16:38	1
13C-2,3,4,7,8-PeCDF	IS	118	40 - 135		06-Aug-25 16:38	1
13C-1,2,3,4,7,8-HxCDF	IS	113	40 - 135		06-Aug-25 16:38	1
13C-1,2,3,6,7,8-HxCDF	IS	109	40 - 135		06-Aug-25 16:38	1
13C-2,3,4,6,7,8-HxCDF	IS	105	40 - 135		06-Aug-25 16:38	1
13C-1,2,3,7,8,9-HxCDF	IS	110	40 - 135		06-Aug-25 16:38	1
13C-1,2,3,4,6,7,8-HpCDF	IS	102	40 - 135		06-Aug-25 16:38	1
13C-1,2,3,4,7,8,9-HpCDF	IS	107	40 - 135		06-Aug-25 16:38	1
13C-OCDF	IS	112	40 - 135		06-Aug-25 16:38	1
37Cl-2,3,7,8-TCDD	CRS	103	40 - 135		06-Aug-25 16:38	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-010-3.0-3.5

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5G1121 / Port of Ridgefield
Matrix: Soil
Date Collected: 09-Jul-25 10:00

Laboratory Data

Lab Sample: 2507127-04
QC Batch: B25G252
Sample Size: 12.6 g
% Solids: 83.0
Date Received: 15-Jul-25 09:37
Date Extracted: 28-Jul-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND		0.182	0.168		06-Aug-25 17:26	1
1,2,3,7,8-PeCDD	0.595		0.749		J	06-Aug-25 17:26	1
1,2,3,4,7,8-HxCDD	1.11		0.605		J	06-Aug-25 17:26	1
1,2,3,6,7,8-HxCDD	4.77		0.612			06-Aug-25 17:26	1
1,2,3,7,8,9-HxCDD	2.14		0.685		J	06-Aug-25 17:26	1
1,2,3,4,6,7,8-HpCDD	114		0.675		B	06-Aug-25 17:26	1
OCDD	882		1.55		B	06-Aug-25 17:26	1
2,3,7,8-TCDF	ND		0.175	0.283		06-Aug-25 17:26	1
1,2,3,7,8-PeCDF	0.787		0.551		J	06-Aug-25 17:26	1
2,3,4,7,8-PeCDF	1.14		0.656		J	06-Aug-25 17:26	1
1,2,3,4,7,8-HxCDF	2.67		0.630			06-Aug-25 17:26	1
1,2,3,6,7,8-HxCDF	ND		0.594	1.13		06-Aug-25 17:26	1
2,3,4,6,7,8-HxCDF	ND		0.632	0.961		06-Aug-25 17:26	1
1,2,3,7,8,9-HxCDF	0.471		0.684		J	06-Aug-25 17:26	1
1,2,3,4,6,7,8-HpCDF	16.2		0.620			06-Aug-25 17:26	1
1,2,3,4,7,8,9-HpCDF	0.827		0.782		J	06-Aug-25 17:26	1
OCDF	13.5		3.67			06-Aug-25 17:26	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	3.66						
Totals							
Total TCDD	ND			0.168			
Total PeCDD	2.03			2.43	J		
Total HxCDD	22.5						
Total HpCDD	190				B		
Total TCDF	0.710			1.96			
Total PeCDF	12.3			13.5			
Total HxCDF	43.9			46.0			
Total HpCDF	42.4						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	90.7	40 - 135		06-Aug-25 17:26	1
13C-1,2,3,7,8-PeCDD	IS	96.5	40 - 135		06-Aug-25 17:26	1
13C-1,2,3,4,7,8-HxCDD	IS	111	40 - 135		06-Aug-25 17:26	1
13C-1,2,3,6,7,8-HxCDD	IS	112	40 - 135		06-Aug-25 17:26	1
13C-1,2,3,7,8,9-HxCDD	IS	106	40 - 135		06-Aug-25 17:26	1
13C-1,2,3,4,6,7,8-HpCDD	IS	106	40 - 135		06-Aug-25 17:26	1
13C-OCDD	IS	124	40 - 135		06-Aug-25 17:26	1
13C-2,3,7,8-TCDF	IS	78.9	40 - 135		06-Aug-25 17:26	1
13C-1,2,3,7,8-PeCDF	IS	111	40 - 135		06-Aug-25 17:26	1
13C-2,3,4,7,8-PeCDF	IS	105	40 - 135		06-Aug-25 17:26	1
13C-1,2,3,4,7,8-HxCDF	IS	109	40 - 135		06-Aug-25 17:26	1
13C-1,2,3,6,7,8-HxCDF	IS	106	40 - 135		06-Aug-25 17:26	1
13C-2,3,4,6,7,8-HxCDF	IS	103	40 - 135		06-Aug-25 17:26	1
13C-1,2,3,7,8,9-HxCDF	IS	106	40 - 135		06-Aug-25 17:26	1
13C-1,2,3,4,6,7,8-HpCDF	IS	101	40 - 135		06-Aug-25 17:26	1
13C-1,2,3,4,7,8,9-HpCDF	IS	105	40 - 135		06-Aug-25 17:26	1
13C-OCDF	IS	112	40 - 135		06-Aug-25 17:26	1
37Cl-2,3,7,8-TCDD	CRS	90.4	40 - 135		06-Aug-25 17:26	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-012-2.0-2.5 **EPA Method 8290A**

Client Data
Name: Apex Laboratories
Project: A5G1121 / Port of Ridgefield
Matrix: Soil
Date Collected: 09-Jul-25 10:20

Laboratory Data
Lab Sample: 2507127-05
QC Batch: B25G252
Sample Size: 11.8 g
% Solids: 85.3
Date Received: 15-Jul-25 09:37
Date Extracted: 28-Jul-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.0932	0.190			06-Aug-25 18:13	1
1,2,3,7,8-PeCDD	1.34		0.782		J	06-Aug-25 18:13	1
1,2,3,4,7,8-HxCDD	2.30		0.632		J	06-Aug-25 18:13	1
1,2,3,6,7,8-HxCDD	11.4		0.639			06-Aug-25 18:13	1
1,2,3,7,8,9-HxCDD	5.26		0.715			06-Aug-25 18:13	1
1,2,3,4,6,7,8-HpCDD	249		0.704		B	06-Aug-25 18:13	1
OCDD	1800		1.62		B	06-Aug-25 18:13	1
2,3,7,8-TCDF	0.431		0.183		J	06-Aug-25 18:13	1
1,2,3,7,8-PeCDF	1.24		0.575		J	06-Aug-25 18:13	1
2,3,4,7,8-PeCDF	4.74		0.684			06-Aug-25 18:13	1
1,2,3,4,7,8-HxCDF	6.04		0.658			06-Aug-25 18:13	1
1,2,3,6,7,8-HxCDF	3.23		0.620			06-Aug-25 18:13	1
2,3,4,6,7,8-HxCDF	2.39		0.660		J	06-Aug-25 18:13	1
1,2,3,7,8,9-HxCDF	0.601		0.714		J	06-Aug-25 18:13	1
1,2,3,4,6,7,8-HpCDF	35.0		0.648			06-Aug-25 18:13	1
1,2,3,4,7,8,9-HpCDF	2.13		0.816		J	06-Aug-25 18:13	1
OCDF	33.9		3.83			06-Aug-25 18:13	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	9.38						
Totals							
Total TCDD	0.372			1.08	J		
Total PeCDD	6.56			7.63			
Total HxCDD	57.4						
Total HpCDD	431				B		
Total TCDF	9.17			10.2			
Total PeCDF	49.3			50.7			
Total HxCDF	102						
Total HpCDF	88.3						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	97.4	40 - 135		06-Aug-25 18:13	1
13C-1,2,3,7,8-PeCDD	IS	106	40 - 135		06-Aug-25 18:13	1
13C-1,2,3,4,7,8-HxCDD	IS	114	40 - 135		06-Aug-25 18:13	1
13C-1,2,3,6,7,8-HxCDD	IS	113	40 - 135		06-Aug-25 18:13	1
13C-1,2,3,7,8,9-HxCDD	IS	111	40 - 135		06-Aug-25 18:13	1
13C-1,2,3,4,6,7,8-HpCDD	IS	112	40 - 135		06-Aug-25 18:13	1
13C-OCDD	IS	126	40 - 135		06-Aug-25 18:13	1
13C-2,3,7,8-TCDF	IS	86.3	40 - 135		06-Aug-25 18:13	1
13C-1,2,3,7,8-PeCDF	IS	114	40 - 135		06-Aug-25 18:13	1
13C-2,3,4,7,8-PeCDF	IS	115	40 - 135		06-Aug-25 18:13	1
13C-1,2,3,4,7,8-HxCDF	IS	112	40 - 135		06-Aug-25 18:13	1
13C-1,2,3,6,7,8-HxCDF	IS	110	40 - 135		06-Aug-25 18:13	1
13C-2,3,4,6,7,8-HxCDF	IS	104	40 - 135		06-Aug-25 18:13	1
13C-1,2,3,7,8,9-HxCDF	IS	111	40 - 135		06-Aug-25 18:13	1
13C-1,2,3,4,6,7,8-HpCDF	IS	105	40 - 135		06-Aug-25 18:13	1
13C-1,2,3,4,7,8,9-HpCDF	IS	106	40 - 135		06-Aug-25 18:13	1
13C-OCDF	IS	116	40 - 135		06-Aug-25 18:13	1
37Cl-2,3,7,8-TCDD	CRS	98.9	40 - 135		06-Aug-25 18:13	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

Sample ID: ROW-P3-012-2.5-3.0

EPA Method 8290A

Client Data

Name: Apex Laboratories
Project: A5G1121 / Port of Ridgefield
Matrix: Soil
Date Collected: 09-Jul-25 10:25

Laboratory Data

Lab Sample: 2507127-06
QC Batch: B25G252
Sample Size: 12.1 g
% Solids: 83.9
Date Received: 15-Jul-25 09:37
Date Extracted: 28-Jul-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND		0.187	0.290		06-Aug-25 19:00	1
1,2,3,7,8-PeCDD	1.76		0.770		J	06-Aug-25 19:00	1
1,2,3,4,7,8-HxCDD	3.18		0.622			06-Aug-25 19:00	1
1,2,3,6,7,8-HxCDD	15.1		0.629			06-Aug-25 19:00	1
1,2,3,7,8,9-HxCDD	6.75		0.704			06-Aug-25 19:00	1
1,2,3,4,6,7,8-HpCDD	311		0.694		B	06-Aug-25 19:00	1
OCDD	2140		1.59		B	06-Aug-25 19:00	1
2,3,7,8-TCDF	0.482		0.180		J	06-Aug-25 19:00	1
1,2,3,7,8-PeCDF	0.149		0.566		J	06-Aug-25 19:00	1
2,3,4,7,8-PeCDF	7.10		0.674			06-Aug-25 19:00	1
1,2,3,4,7,8-HxCDF	8.01		0.647			06-Aug-25 19:00	1
1,2,3,6,7,8-HxCDF	4.83		0.610			06-Aug-25 19:00	1
2,3,4,6,7,8-HxCDF	3.99		0.649			06-Aug-25 19:00	1
1,2,3,7,8,9-HxCDF	1.88		0.703		J	06-Aug-25 19:00	1
1,2,3,4,6,7,8-HpCDF	43.6		0.638			06-Aug-25 19:00	1
1,2,3,4,7,8,9-HpCDF	2.63		0.804			06-Aug-25 19:00	1
OCDF	39.4		3.77			06-Aug-25 19:00	1
Toxic Equivalent							
TEQMinWHO2005Dioxin	12.5						
Totals							
Total TCDD	0.980			2.46			
Total PeCDD	9.54			10.7			
Total HxCDD	76.9						
Total HpCDD	542				B		
Total TCDF	13.2			13.4			
Total PeCDF	65.4			66.6			
Total HxCDF	132			135			
Total HpCDF	109						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	96.2	40 - 135		06-Aug-25 19:00	1
13C-1,2,3,7,8-PeCDD	IS	105	40 - 135		06-Aug-25 19:00	1
13C-1,2,3,4,7,8-HxCDD	IS	114	40 - 135		06-Aug-25 19:00	1
13C-1,2,3,6,7,8-HxCDD	IS	110	40 - 135		06-Aug-25 19:00	1
13C-1,2,3,7,8,9-HxCDD	IS	107	40 - 135		06-Aug-25 19:00	1
13C-1,2,3,4,6,7,8-HpCDD	IS	109	40 - 135		06-Aug-25 19:00	1
13C-OCDD	IS	125	40 - 135		06-Aug-25 19:00	1
13C-2,3,7,8-TCDF	IS	82.7	40 - 135		06-Aug-25 19:00	1
13C-1,2,3,7,8-PeCDF	IS	114	40 - 135		06-Aug-25 19:00	1
13C-2,3,4,7,8-PeCDF	IS	114	40 - 135		06-Aug-25 19:00	1
13C-1,2,3,4,7,8-HxCDF	IS	113	40 - 135		06-Aug-25 19:00	1
13C-1,2,3,6,7,8-HxCDF	IS	108	40 - 135		06-Aug-25 19:00	1
13C-2,3,4,6,7,8-HxCDF	IS	104	40 - 135		06-Aug-25 19:00	1
13C-1,2,3,7,8,9-HxCDF	IS	106	40 - 135		06-Aug-25 19:00	1
13C-1,2,3,4,6,7,8-HpCDF	IS	101	40 - 135		06-Aug-25 19:00	1
13C-1,2,3,4,7,8,9-HpCDF	IS	105	40 - 135		06-Aug-25 19:00	1
13C-OCDF	IS	109	40 - 135		06-Aug-25 19:00	1
37Cl-2,3,7,8-TCDD	CRS	95.5	40 - 135		06-Aug-25 19:00	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method Detection Limit

The results are reported in dry weight.
The sample size is reported in wet weight.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Enthalpy Analytical - EDH Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
Nevada Division of Environmental Protection	CA00413
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters can be found at Enthalpy.com/Resources/Accreditations.

#8827 7818 6441

SUBCONTRACT ORDER ESS

Apex Laboratories

A5G1121

AKK 7/10/25

2507127 2.4°C

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Philip Nerenberg

RECEIVING LABORATORY:

Enthalpy Analytical- CA
1104 Windfield Way
El Dorado Hills, CA 95762
Phone :(916) 673-1520
Fax: -

Sample Name: ROW-P3-007-2.0-2.5 **Soil** **Sampled: 07/09/25 09:20** (A5G1121-01)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	07/22/25 17:00	08/08/25 09:20	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: ROW-P3-007-2.5-3.0 **Soil** **Sampled: 07/09/25 09:25** (A5G1121-02)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	07/22/25 17:00	08/08/25 09:25	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: ROW-P3-010-2.5-3.0 **Soil** **Sampled: 07/09/25 09:55** (A5G1121-03)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	07/22/25 17:00	08/08/25 09:55	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: ROW-P3-010-3.0-3.5 **Soil** **Sampled: 07/09/25 10:00** (A5G1121-04)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	07/22/25 17:00	08/08/25 10:00	
Containers Supplied:			
(A)8 oz Glass Jar			

Standard TAT

Released By	Date	Received By	Date	
ZA	7/14/25	Fed Ex (Shipper)		
Fed Ex (Shipper)		Xavier Acosta	07/15/25	05:37
Released By	Date	Received By	Date	

SUBCONTRACT ORDER EST

Apex Laboratories

A5G1121

Sample Name: ROW-P3-012-2.0-2.5 **Soil** **Sampled: 07/09/25 10:20** (A5G1121-05)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	07/22/25 17:00	08/08/25 10:20	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: ROW-P3-012-2.5-3.0 **Soil** **Sampled: 07/09/25 10:25** (A5G1121-06)

Analysis	Due	Expires	Comments
8290 Dioxins/Furans by HRGC/HRMS (SUB)	07/22/25 17:00	08/08/25 10:25	
Containers Supplied:			
(A)8 oz Glass Jar			

Standard TAT

JA	7/14/25	Fed Ex (Shipper)		
Released By	Date	Received By	Date	
Fed Ex (Shipper)		Karen J. Ant	07/15/25	09:37
Released By	Date	Received By	Date	

CoC/Label Reconciliation Report WO# 2507127

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2507127-01	A ROW-P3-007-2.0-2.5	A5G1121-01	09-Jul-25 09:20	Clear Glass Jar, 8 oz	Solid	
2507127-02	A ROW-P3-007-2.5-3.0	A5G1121-02	09-Jul-25 09:25	Clear Glass Jar, 8 oz	Solid	
2507127-03	A ROW-P3-010-2.5-3.0	A5G1121-03	09-Jul-25 09:55	Clear Glass Jar, 8 oz	Solid	
2507127-04	A ROW-P3-010-3.0-3.5	A5G1121-04	09-Jul-25 10:00	Clear Glass Jar, 8 oz	Solid	
2507127-05	A ROW-P3-012-2.0-2.5	A5G1121-05	09-Jul-25 10:20	Clear Glass Jar, 8 oz	Solid	
2507127-06	A ROW-P3-012-2.5-3.0	A5G1121-06	09-Jul-25 10:25	Clear Glass Jar, 8 oz	Solid	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

CONDITION	Yes	No	NA
Sample Container Intact?	✓		
Sample Container(s) Custody Seals Intact?			✓
Custody Seals On Cooler Intact?			✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)?	✓		

Comments:
(C2) = Cooler 2
(A) clear jar wrapped in foil

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 (None) Other

Verifed by/Date: ~~DAE~~ 07/15/25
MLS 07/15/25

Attachment B

Data Validation Memorandum

MAUL
FOSTER
ALONGI

Data Validation Memorandum

Project No. M9009.01.063 | August 28, 2025 | Port of Ridgefield

Maul Foster & Alongi, Inc. (MFA), conducted an independent Stage 2A review of the quality of analytical results for soil, and associated quality control samples collected in May and July 2025 at the off-property portion of the former Pacific Wood Treating Co. site in Ridgefield, Washington.

Enthalpy Analytical LLC (Enthalpy) performed the analyses. Samples were submitted to Apex Laboratories, LLC, and dioxins and furans analysis was subcontracted to Enthalpy. MFA reviewed Enthalpy report numbers 2505059, 2505154, 2506086, and 2507127. The analysis performed and the samples analyzed are listed in the following tables.

Analysis	Reference
Dioxins and furans	EPA 8290A

Note
EPA = U.S. Environmental Protection Agency.

Samples Analyzed	
Report 2505059	**Report 2505154**
ROW-P3-001-1.0-2.0	ROW-P3-008-1.0-2.0
ROW-P3-002-0-0.5	**Report 2506086**
ROW-P3-003-1.0-2.0	ROW-P3-004-1.5-2.0
ROW-P3-004-1.0-2.0	ROW-P3-007-1.5-2.0
ROW-P3-005-1.0-2.0	ROW-P3-010-1.5-2.0
ROW-P3-006-1.0-2.0	ROW-P3-012-1.5-2.0
ROW-P3-007-1.0-2.0	**Report 2507127**
ROW-P3-009-1.0-2.0	ROW-P3-007-2.0-2.5
ROW-P3-010-1.0-2.0	ROW-P3-007-2.5-3.0
ROW-P3-010-1.0-2.0-DUP	ROW-P3-010-2.5-3.0
ROW-P3-011-1.0-2.0	ROW-P3-010-3.0-3.5
ROW-P3-012-1.0-2.0	ROW-P3-012-2.0-2.5
ROW-P3-013-1.0-2.0	ROW-P3-012-2.5-3.0
20250501-RB	--

Data Validation Procedures

Analytical results were evaluated according to applicable sections of U.S. Environmental Protection Agency (EPA) guidelines for data review (EPA 2020) and appropriate laboratory- and method-specific guidelines (Enthalpy 2023, EPA 1986, EPA 2014).

Based on the data quality assurance/quality control review described herein, the data, with the appropriate final data qualifiers assigned, are considered acceptable for their intended use. Final data qualifiers represent qualifiers originating from the laboratory and accepted by the reviewer, and data qualifiers assigned by the reviewer during validation.

Final data qualifiers:

- J = result is estimated.

- U = result is non-detect at the sample-specific estimated detection limit (EDL) or reporting limit.
- UJ = result is non-detect with an estimated reporting limit.

General Qualifications

Chlorinated Diphenyl Ether Interference

According to report 2505059, several EPA Method 8290A 1,2,3,4,7,8-HxCDF results were impacted by interference from chlorinated diphenyl ethers. The reviewer qualified the associated sample results with J, as shown in the following table.

Report	Sample	Analyte	Original Result (pg/g)	Qualified Result (pg/g)
2505059	ROW-P3-004-1.0-2.0	1,2,3,4,7,8-HxCDF	27.1	27.1 J
	ROW-P3-005-1.0-2.0		5.12	5.12 J
	ROW-P3-007-1.0-2.0		28.9	28.9 J
	ROW-P3-012-1.0-2.0		14.3	14.3 J

Notes
J = result is estimated.
pg/g = picograms per gram.

Second Column Confirmation

Enthalpy performed EPA Method 8290A analysis using a column with sufficient resolution to quantify 2,3,7,8-TCDF detections above the MRL; thus, second column confirmation analysis was not required.

Estimated Maximum Potential Concentration Results

In accordance with EPA Region 10 guidance for data validation of polychlorinated dibenzodioxins and polychlorinated dibenzofurans (PCDDs/PCDFs) (EPA 2014) and EPA national functional guidelines for high-resolution Superfund methods data review (EPA 2020), the reviewer qualified EPA Method 8290A results because of laboratory estimated maximum potential concentration (EMPC) detections. The reviewer accepted some qualifications from the laboratory without additional qualifications.

Where Enthalpy reported congener or total homolog results as non-detect and an EMPC, the reviewer accepted the laboratory qualification. Results are reported as non-detect (U) at the EMPC value and are not shown in the table below.

Where Enthalpy flagged detected total homolog results as EMPCs, and all associated congeners were either EMPCs or non-detect, the reviewer qualified the total homolog result at the reported concentration with U, as non-detect. If the result had an additional J flag, the J flag was retained and final qualification is UJ.

Where Enthalpy flagged total homolog results as EMPCs and one or more associated congeners were detected without an EMPC flag, results were qualified by the reviewer with J at the EMPC value.

Final data qualifiers for EPA Method 8290A EMPC results are as follows:

Report	Sample	Analyte	Original Result (pg/g)	Qualified Result (pg/g)
2505059	ROW-P3-001-1.0-2.0	Total TCDD	4.88 K	4.88 U
		Total PeCDD	9.68 K	9.68 J
	ROW-P3-002-0-0.5	Total TCDD	2.49 K	2.49 U
		Total PeCDD	8.38 K	8.38 J
		Total TCDF	6.14 K	6.14 J
		Total PeCDF	14.9 K	14.9 J
		Total HxCDF	36.9 K	36.9 J
	ROW-P3-003-1.0-2.0	Total PeCDD	1.33 JK	1.33 J
		Total TCDF	4.31 K	4.31 U
		Total PeCDF	19.1 K	19.1 J
	ROW-P3-004-1.0-2.0	Total TCDD	3.62 K	3.62 U
		Total PeCDD	16.3 K	16.3 J
		Total TCDF	45.3 K	45.3 J
	ROW-P3-005-1.0-2.0	Total TCDD	5.15 K	5.15 U
		Total PeCDD	15.9 K	15.9 J
		Total TCDF	149 K	149 J
		Total PeCDF	459 K	459 J
		Total HxCDF	264 K	264 J
		Total HpCDF	60.8 K	60.8 J
	ROW-P3-006-1.0-2.0	Total PeCDD	0.797 JK	0.797 J
		Total HxCDD	11.8 K	11.8 J
		Total TCDF	0.547 JK	0.547 UJ
		Total PeCDF	3.44 K	3.44 U
		Total HxCDF	26.9 K	26.9 J
	ROW-P3-007-1.0-2.0	Total TCDD	11.2 K	11.2 U
		Total PeCDD	47.0 K	47.0 J
		Total PeCDF	521 K	521 J
		Total HxCDF	673 K	673 J
	ROW-P3-009-1.0-2.0	Total TCDD	1.15 K	1.15 U
		Total PeCDD	3.99 K	3.99 U
		Total TCDF	7.07 K	7.07 J
		Total PeCDF	34.6 K	34.6 J
		Total HxCDF	90.2 K	90.2 J
	ROW-P3-010-1.0-2.0	Total TCDD	7.53 K	7.53 J
		Total PeCDD	47.7 K	47.7 J
		Total HxCDD	666 K	666 J
		Total TCDF	51.4 K	51.4 J
	ROW-P3-010-1.0-2.0-DUP	Total TCDD	5.88 K	5.88 J
		Total TCDF	43.0 K	43.0 U
		Total PeCDF	404 K	404 J
	ROW-P3-011-1.0-2.0	Total TCDD	0.468 JK	0.468 UJ
		Total PeCDD	4.32 K	4.32 J
		Total TCDF	6.68 K	6.68 J
		Total HxCDF	117 K	117 J

Report	Sample	Analyte	Original Result (pg/g)	Qualified Result (pg/g)
2505059	ROW-P3-012-1.0-2.0	Total TCDD	4.02 K	4.02 U
		Total PeCDD	20.2 K	20.2 J
		Total TCDF	104 K	104 J
		Total PeCDF	462 K	462 J
		Total HxCDF	390 K	390 J
		Total HpCDF	173 K	173 J
	ROW-P3-013-1.0-2.0	Total PeCDD	1.85 JK	1.85 J
		Total TCDF	3.55 K	3.55 U
		Total PeCDF	23.5 K	23.5 J
		Total HxCDF	47.6 K	47.6 J
2505154	ROW-P3-008-1.0-2.0	Total HxCDD	71.6 K	71.6 J
		Total TCDF	2.78 K	2.78 U
		Total PeCDF	30.5 K	30.5 J
		Total HxCDF	109 K	109 J
		Total HpCDF	229 K	229 J
2506086	ROW-P3-004-1.5-2.0	Total PeCDD	3.74 JK	3.74 UJ
		Total HxCDD	38.1 K	38.1 J
		Total TCDF	7.58 K	7.58 J
		Total PeCDF	47.1 K	47.1 J
		Total HxCDF	81.5 K	81.5 J
	ROW-P3-007-1.5-2.0	Total TCDD	10.4 K	10.4 UJ
		Total PeCDD	56.2 K	56.2 J
		Total TCDF	108 K	108 J
		Total PeCDF	615 K	615 J
	ROW-P3-010-2.0-2.5	Total TCDD	2.92 K	2.92 UJ
		Total PeCDD	16.9 K	16.9 J
		Total HxCDD	185 K	185 J
		Total TCDF	15.8 K	15.8 J
		Total PeCDF	129 K	129 J
		Total HxCDF	403 K	403 J
		Total HpCDF	437 K	437 J
	ROW-P3-012-1.5-2.0	Total TCDD	8.66 K	8.66 UJ
		Total PeCDD	37.7 K	37.7 J
		Total TCDF	137 K	137 J
		Total PeCDF	710 K	710 J
2507127	ROW-P3-007-2.0-2.5	Total PeCDD	3.86 JK	3.86 J
		Total HxCDD	18.4 K	18.4 J
		Total TCDF	2.95 K	2.95 U
		Total HxCDF	25.3 K	25.3 J
		Total HpCDF	43.6 K	43.6 J
	ROW-P3-007-2.5-3.0	Total HxCDD	9.80 K	9.80 J
		Total TCDF	0.878 K	0.878 U
		Total PeCDF	5.28 K	5.28 U
		Total HxCDF	12.2 K	12.2 J

Report	Sample	Analyte	Original Result (pg/g)	Qualified Result (pg/g)
2507127	ROW-P3-010-2.5-3.0	Total PeCDD	3.09 JK	3.09 J
		Total TCDF	4.45 K	4.45 J
		Total PeCDF	18.3 K	18.3 J
		Total HxCDF	43.2 K	43.2 J
	ROW-P3-010-3.0-3.5	Total PeCDD	2.43 JK	2.43 J
		Total TCDF	1.96 K	1.96 U
		Total PeCDF	13.5 K	13.5 J
		Total HxCDF	46.0 K	46.0 J
	ROW-P3-012-2.0-2.5	Total TCDD	1.08 JK	1.08 UJ
		Total PeCDD	7.63 K	7.63 J
		Total TCDF	10.2 K	10.2 J
		Total PeCDF	50.7 K	50.7 J
	ROW-P3-012-2.5-3.0	Total TCDD	2.46 K	2.46 U
		Total PeCDD	10.7 K	10.7 J
		Total TCDF	13.4 K	13.4 J
		Total PeCDF	66.6 K	66.6 J
		Total HxCDF	135 K	135 J

Notes
J = result is estimated.
JK = result is estimated and an estimated maximum potential concentration.
K = result is an estimated maximum potential concentration.
pg/g = picograms per gram.
UJ = result is non-detect with an estimated reporting limit.
U = result is non-detect.

Sample Conditions

Sample Custody

Sample custody was appropriately documented on the chain-of-custody forms accompanying the reports.

The reviewer confirmed that the gap in custody on the subcontractor chain-of-custody forms is due to shipment via a third-party service.

Holding Times

According to report 2506086, EPA Method 8290A extraction was performed for samples ROW-P3-004-1.5-2.0, ROW-P3-007-1.5-2.0, ROW-P3-010-2.0-2.5, and ROW-P3-012-1.5-2.0 11 days after the 30-day method-recommended holding time.

EPA Method 8290A notes that dioxins and furans are very stable in a variety of matrices and that when stored at less than or equal to 6 degrees Celsius, the holding times may be as long as a year for certain matrices. Because storage stability for dioxins and furans was not evaluated in soil from the project site, the holding time was not extended. The reviewer qualified associated detected sample results with J, and non-detect results with UJ. Results already flagged by Enthalpy with J due to detection below the MRL were not additionally qualified but are presented for a complete record.

Results also qualified based on EMPCs and internal standard recovery are shown with final qualification.

Report	Sample	Analysis	Original Results	Qualification
2506086	ROW-P3-004-1.5-2.0 ROW-P3-007-1.5-2.0 ROW-P3-010-2.0-2.5 ROW-P3-012-1.5-2.0	EPA 8290A	Detected	J[a][b]
				J-[c]
			Non-detect	UJ

Notes
J = result is estimated.
UJ = result is estimated, but the result may be biased low
[a]Some results were already flagged with J due to detection below the method reporting limit; these results did not require additional qualification.
[b]Results also qualified based on estimated maximum potential concentration. Final qualification is shown.
[c]Results also qualified based on analog standard recovery. Final qualification is shown.

The remaining extractions and analyses were performed within the method-recommended holding times.

Preservation and Sample Storage

The reviewer confirmed the EPA Method 8290A samples were collected in clear jars wrapped in foil to protect from light, in accordance with the method.

The samples were preserved and stored appropriately.

Reporting Limits

The laboratory evaluated results to EDLs. Samples that required dilutions because of high analyte concentrations, matrix interferences, and/or dilutions necessary for preparation and/or analysis were reported with raised EDLs and method reporting limits (MRLs).

The laboratory qualified results between the EDL and the MRL with J, as estimated.

Blank Results

Method Blanks

Laboratory method blanks are used to evaluate whether laboratory contamination was introduced during sample preparation and analysis. Laboratory method blank analyses were performed at the required frequencies, in accordance with laboratory- and method-specific requirements.

According to reports 2505059, 2506086, and 2507127, EPA Method 8290A batches B25G252 and B25E166 laboratory method blanks had several detections between EDLs and MRLs. Method blank detections are listed in the table below.

Report	Batch	Analyte	Method Blank Result (pg/g)
2505059	B25E166	OCDD	0.693 J
2506086	B25F125	1,2,3,4,7,8-HxCDF	0.148 J
		Total HxCDF	0.414 JK
2507127	B25G252	1,2,3,4,6,7,8-HpCDD	0.332 J
		OCDD	3.64 J
		Total HpCDD	0.332 J

Notes
J = result is estimated.
JK = result is estimated and an estimated maximum potential concentration.
pg/g = picograms per gram.

All associated sample results were non-detect or greater than five times the method blank concentrations; thus, qualification was not required.

All remaining laboratory method blank results were non-detect to EDLs.

Equipment Rinsate Blanks

Equipment rinsate blanks are used to evaluate the adequacy of the field equipment decontamination process when decontaminated sampling equipment is used to collect samples.

Environmental samples are associated with the equipment rinsate blank based on sample dates, as shown in the following table. The reviewer was unable to evaluate the field equipment decontamination process for the remaining sample dates.

Report	Equipment Rinsate Blank	Associated Date
2505059	20250501-RB	May 1, 2025

The equipment rinsate blank sample was non-detect to EDLs for all target analytes.

Laboratory Control Sample and Laboratory Control Sample Duplicate Results

Laboratory control sample (LCS) and laboratory control sample duplicate results are used to evaluate laboratory precision and accuracy. Enthalpy reported “ongoing precision and recovery” sample results in accordance with the method, which are equivalent to an LCS. All LCS were prepared and analyzed at the required frequency, in accordance with laboratory- and method-specific requirements.

All LCS results were within acceptance limits for percent recovery.

Laboratory Duplicate Results

Laboratory duplicate results are used to evaluate laboratory precision and sample homogeneity. No laboratory duplicate results were reported, in accordance with the method.

Matrix Spike and Matrix Spike Duplicate Results

Matrix spike and matrix spike duplicate results are used to evaluate laboratory precision, accuracy, and the effect of the sample matrix on sample preparation and target analyte recovery. No matrix spike results were reported, in accordance with the method.

Labeled Analog Results

EPA Method 8290A samples were spiked with carbon-13 labeled standards to quantify the relative response of analytes in each sample, and with a chlorine-37 labeled cleanup standard to measure the efficiency of the cleanup process.

According to report 2506086, several EPA Method 8290A labeled analog standard results for samples ROW-P3-004-1.5-2.0 and ROW-P3-010-2.0-2.5 were below the lower percent recovery acceptance limit of 40 percent, ranging from 23.5 percent to 39.9 percent. The same sample results were also associated with holding time exceedances. The reviewer determined the

qualification as estimated with a potential low bias was appropriate and qualified the associated sample results with J-, as shown in the following table:

Report	Sample	Analyte	Original Result (pg/g)	Qualified Result (pg/g)
2506086	ROW-P3-004-1.5-2.0	1,2,3,4,6,7,8-HpCDD	169	169 J-
		OCDD	1,250	1,250 J-
		1,2,3,4,6,7,8-HpCDF	26.4	26.4 J-
		1,2,3,4,7,8,9-HpCDF	2.39 J	2.39 J-
		OCDF	24.1	24.1 J-
	ROW-P3-010-2.0-2.5	1,2,3,4,6,7,8-HpCDD	948	948 J-
		OCDD	8,680	8,680 J-
		1,2,3,4,6,7,8-HpCDF	148	148 J-
		OCDF	111	111 J-

Notes
J = result is estimated.
J- = result is estimated, but the result may be biased low.
pg/g = picograms per gram.

All remaining labeled standard recoveries were within acceptance limits.

Field Duplicate Results

Field duplicate results are used to evaluate field precision and sample homogeneity. The following field duplicate and parent sample pair was submitted for analysis:

Report	Parent Sample	Field Duplicate Sample
2505059	ROW-P3-010-1.0-2.0	ROW-P3-010-1.0-2.0-DUP

MFA uses acceptance criteria of 100 percent relative percent difference (RPD) for results that are less than five times the MRL or 50 percent RPD for results that are greater than five times the MRL. RPD was not evaluated when both results in the sample pair were non-detect. When one result in the sample pair was reported as a non-detect EMPC, RPD was evaluated using the EMPC value of the non-detect EMPC result. RPD was evaluated using the reported laboratory results prior to any EMPC qualifications applied by the reviewer in the General Qualifications section above.

Field duplicate results that exceeded the acceptance criteria were qualified by the reviewer, as shown in the following table.

Report	Sample	Analyte	RPD (%)	Original Result (pg/g)	Qualified Result (pg/g)
2505059	ROW-P3-010-1.0-2.0	2,3,4,7,8-PeCDF	78.1	15.0	15.0 J
	ROW-P3-010-1.0-2.0-DUP			34.2	34.2 J

Notes
J = result is estimated.
pg/g = picograms per gram.
RPD = relative percent difference

All remaining field duplicate results met the RPD acceptance criteria.

Data Package

The data package was reviewed for transcription errors, omissions, and anomalies. None were found.

References

Enthalpy. 2023. *Quality Manual*. Rev. 33. Enthalpy Analytical LLC: El Dorado Hills, CA. February 20.

EPA. 1986. *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.* EPA publication SW-846. 3rd ed. U.S. Environmental Protection Agency. Final updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), V (2015), VI phase I (2017), VI phase II (2018), VI phase III (2019), VII phase I (2019), and VII phase II (2020).

EPA. 2014. *R10 Data Validation and Review Guidelines for Polychlorinated Dibenzo-p-dioxin and Polychlorinated Dibenzofuran Data (PCDD/PCDF) Using Method 1613B and SW846 Method 8290A.* EPA-910-R-14-003. U.S. Environmental Protection Agency, Office of Environmental Assessment. May.

EPA. 2020. *National Functional Guidelines for High Resolution Superfund Methods Data Review*. EPA 542-R-20-007. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. November.

Attachment B

Phase 2 Remediation and Restoration Plans

MAUL FOSTER ALONGI

OFF-PROPERTY PORTION REMEDIAL ACTION PLAN
PHASE 2

PREPARED FOR:

PORT OF RIDGEFIELD

LOCATED IN SEC. 24 T. 4 N., R. 1 W., W.M., CLARK COUNTY, RIDGEFIELD, WASHINGTON

Know what's below. Call before you dig. 811

Plans reviewed for compliance with City Standards and Policies

Application Number ENG-25-0102

Recommended for Approval:

N/A
Fire/Rescue Review Date

Approved for Construction
by Bryan Kast, City Engineer
City Engineering Review 11/19/2025 10:18:21 AM Date

N/A
City Planning Review Date

PROJECT CONTACTS

CONTRACTING AGENCY PORT OF RIDGEFIELD 111 WEST DIVISION ST RIDGEFIELD, WASHINGTON, 98642 P: (360) 887-3873 ETHAN PERRY, DIRECTOR OF OPERATIONS	**CIVIL ENGINEER** MAUL FOSTER & ALONGI, INC. 330 E MILL PLAIN BLVD, SUITE 405 VANCOUVER, WASHINGTON 98660 P: (360) 694-2691 JOSH ELLIOTT, PE JELLIOTT@MAULFOSTER.COM
SURVEYOR MINISTER & GLAESER SURVEYING, INC 2200 E EVERGREEN BLVD VANCOUVER, WASHINGTON 98661 P: (360 694-3313 RYAN HOLLAND	**WASHINGTON DOE** TOXICS CLEANUP PROGRAM VANCOUVER FIELD OFFICE 2108 GRAND BLVD VANCOUVER, WASHINGTON 98661 P: (360) 690-4795 CAM PENNER-ASH, LG

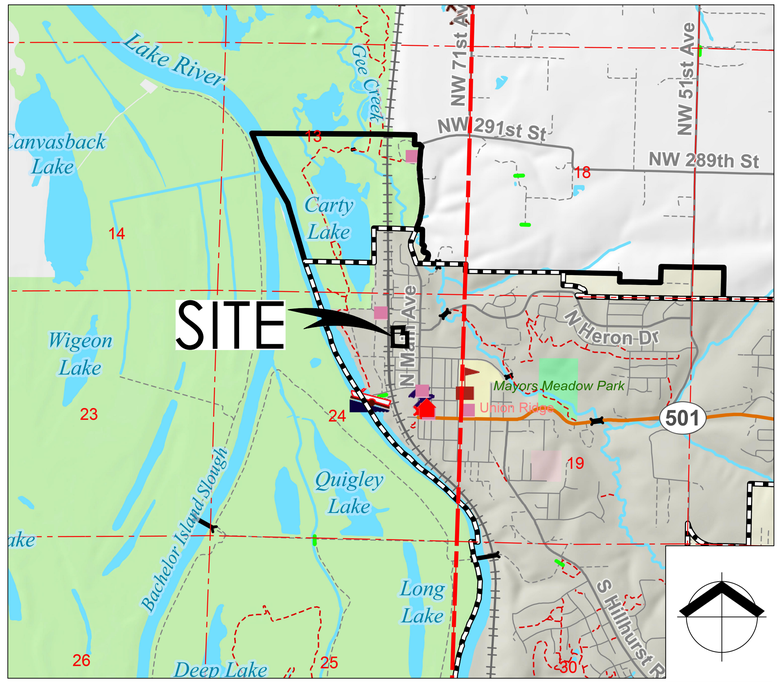
PROJECT SUMMARY

PROJECT WORK:
PROJECT INCLUDES EXCAVATION AND REMOVAL OF DIOXIN CONTAMINATED SOIL FROM PRIVATE PROPERTIES AND ASSOCIATED RIGHT-OF-WAYS. DIOXIN CONTAMINATION IS A RESULT OF OPERATIONAL ACTIVITIES AT THE FORMER PACIFIC WOOD TREATING FACILITY LOCATED AT 111 WEST DIVISION STREET IN RIDGEFIELD, WASHINGTON.

SITE ADDRESS:
THE CLEANUP SITE INCLUDES 4 TAX LOTS AND ASSOCIATED RIGHTS-OF-WAYS AND ISOLATED STRETCHES OF RIGHT-OF-WAY EAST OF NORTH MAIN AVENUE, SOUTH OF MAPLE STREET, WEST OF NORTH 5TH AVENUE, AND NORTH OF PIONEER STREET IN RIDGEFIELD, WASHINGTON.

GENERAL NOTES

1. SURVEY PERFORMED BY MINISTER & GLAESER SURVEYING, INC IN MAY 20, 2025.
2. HORIZONTAL DATUM: WASHINGTON STATE PLANE COORDINATE SYSTEM SOUTH ZONE, NAD 83(2011). ELEVATION DATUM: NAVD 88 (GEOID 18)
3. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION. A MINIMUM OF TWO FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL CALL 811 (UTILITY NOTIFICATION CENTER) FOR LOCATION MARK-UP OF EXISTING UTILITIES.
4. ALL CONSTRUCTION, MATERIALS, AND WORKMANSHIP SHALL CONFORM TO THE LATEST STANDARDS AND PRACTICES OF THE CITY OF RIDGEFIELD AND THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" PREPARED BY WSDOT/APWA.
5. IN CASE OF A CONFLICT BETWEEN THE REGULATORY STANDARDS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.
6. ANY CHANGES TO THE DESIGN AND/OR CONSTRUCTION SHALL BE APPROVED BY THE PORT OR THE ENGINEER.
7. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION NOT SPECIFICALLY SHOWN ON THE PLANS. PLANS FOR STRUCTURES SUCH AS BRIDGES, BUILDINGS, TANKS, VAULTS, ROCKERIES, AND RETAINING WALLS MAY REQUIRE A SEPARATE REVIEW AND APPROVAL BY THE BUILDING DEPARTMENT PRIOR TO CONSTRUCTION.
8. A COPY OF THESE APPROVED PLANS SHALL BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY CONSTRUCTION EASEMENTS AND PERMITS NOT PROVIDED BY THE OWNER.
10. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION SURVEYING AND STAKING.
11. PUBLIC AND PRIVATE DRAINAGE WAYS SHALL BE PROTECTED FROM POLLUTION. NO MATERIAL IS TO BE DISCHARGED TO OR DEPOSITED IN STORMWATER SYSTEMS IF IT MIGHT RESULT IN VIOLATION OF STATE OR FEDERAL WATER QUALITY STANDARDS.
12. ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL HAVE AN APPROVED PERMIT PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN THE RIGHT-OF-WAY.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. TWO-WAY TRAFFIC MUST BE MAINTAINED AT ALL TIMES ON THE ADJACENT PUBLIC STREETS.



VICINITY MAP

NOT TO SCALE

SHEET INDEX

C0.0	COVER SHEET
C0.1	MASTER LEGEND
C0.2	OVERALL PROJECT PLAN
ESC1.0	EROSION AND SEDIMENT CONTROL SITE MAP
ESC1.1	EROSION AND SEDIMENT CONTROL DETAILS
D1.0	REMEDIATION STANDARD DETAILS
D1.1	RESTORATION STANDARD DETAILS
D1.2	EXCAVATION DETAILS
C44.1	ROW 044 & 045 REMEDIATION AND RESTORATION PLAN
C48.1A	ROW 048 EXISTING CONDITIONS AND REMEDIATION PLAN
C48.1B	ROW 048 RESTORATION PLAN
C54.1	ROW 054 & 055 REMEDIATION AND RESTORATION PLAN
C57.1	PROPERTY 057 REMEDIATION & RESTORATION PLAN
C58.1	ROW 058 & 060 REMEDIATION AND RESTORATION PLAN
C59.1	PROPERTY 059 REMEDIATION & RESTORATION PLAN
C61.1	PROPERTY 061REMEDIATION & RESTORATION PLAN
C63.1A	ROW 063 EXISTING CONDITIONS AND REMEDIATION PLAN
C63.1B	ROW 063 RESTORATION PLAN
C64.1	ROW 064 REMEDIATION AND RESTORATION PLAN
C65.1	ROW 065 REMEDIATION AND RESTORATION PLAN
C66.1	PROPERTY 066 REMEDIATION & RESTORATION PLAN
C68.1	ROW 068 REMEDIATION & RESTORATION PLAN
C71.1	ROW 071 REMEDIATION & RESTORATION PLAN
C73.1	ROW 073 REMEDIATION & RESTORATION PLAN
C75.1	ROW 075 & 094 REMEDIATION & RESTORATION PLAN
C76.1	ROW 076 & 077 REMEDIATION & RESTORATION PLAN
C95.1	ROW 095 REMEDIATION & RESTORATION PLAN
C96.1	ROW 096 & 097 REMEDIATION & RESTORATION PLAN
L57.1	PROPERTY 057 PLANTING PLAN
L59.1	PROPERTY 059 PLANTING PLAN
L61.1	PROPERTY 061 PLANTING PLAN
L66.1	PROPERTY 066 PLANTING PLAN

CITY OF RIDGEFIELD CONFORMANCE STATEMENT:
I HEREBY CERTIFY THAT THESE PLANS, AND RELATED DESIGN, WERE PREPARED IN STRICT CONFORMANCE WITH THE CITY OF RIDGEFIELD ENGINEERING STANDARDS FOR PUBLIC WORKS CONSTRUCTION, AS MODIFIED BY APPROVED MODIFICATION, VARIANCE, OR CONDITION OF APPROVAL.

CITY OF RIDGEFIELD STANDARD NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF RIDGEFIELD ENGINEERING STANDARDS, VOLUME 2 – CONSTRUCTION SPECIFICATIONS AND DETAILS, THE LATEST EDITION OF THE APWA/WSDOT STANDARD SPECIFICATION FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, AND THE LAND USE CONDITIONS OF APPROVAL. IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND THE PROFESSIONAL CIVIL ENGINEER OF RECORD TO CORRECT ANY ERROR, OMISSION, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS.
2. APPROVAL OF PLANS FOR AN INDIVIDUAL GRADING PERMIT BY THE CITY DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION (E.G. DOMESTIC WATER CONVEYANCE, STORM DRAINAGE, GAS, ELECTRICAL, ETC.) UNLESS SPECIFICALLY NOTED OTHERWISE WITHIN THE APPROVAL.
3. BEFORE COMMENCEMENT OF ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRECONSTRUCTION MEETING MUST BE HELD BETWEEN THE CITY, ~~CLARK REGIONAL WASTEWATER DISTRICT, THE APPLICANT~~, THE APPLICANTS CONSULTING ENGINEER ~~AND CONSTRUCTION REPRESENTATIVES. ADDITIONALLY, ALL PRIVATE UTILITIES WITHIN THE PROJECT LIMITS OR PERFORMING WORK FOR THE PROJECT SHALL ALSO BE INCLUDED, INCLUDING BUT NOT LIMITED TO: CLARK PUBLIC UTILITIES DISTRICT, NW NATURAL, AND ALL COMMUNICATION COMPANIES (AS APPLICABLE)~~.
4. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
5. IN ACCORDANCE WITH RIDGEFIELD MUNICIPAL CODE SECTION 9.14.010, HOURS OF PERMITTED CONSTRUCTION ARE LIMITED TO 7 A.M. TO 10 P.M. MONDAY THROUGH FRIDAY AND 9 A.M. TO 6 P.M. SATURDAY, SUNDAY AND CITY OBSERVED HOLIDAYS. EACH VIOLATION SHALL BE A CIVIL NOISE INFRACTION AND SHALL RESULT IN A $500 CIVIL FINE. REQUESTS FOR EXTENDED OR MODIFIED HOURS OF CONSTRUCTION MUST BE SUBMITTED TO THE PUBLIC WORKS DIRECTOR FOR REVIEW AND APPROVAL AT LEAST TWO BUSINESS DAYS IN ADVANCE.
6. IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS AND/OR RIGHT OF ENTRIES PRIOR TO CONSTRUCTION WORK.
7. ~~VERTICAL DATUM SHALL BE CLARK COUNTY DATUM NGVD 1929(47) UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.~~
8. ALL UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
9. ALL MINIMUM COMPACTION OF MATERIALS FOR ROADWAYS SHALL BE AS FOLLOWS:
   a. SUBGRADE WITHIN THE ROADWAY PRISM SHALL BE BACKFILLED AND COMPACTED AS DETERMINED BY AASHTO T-180ALL ROADWAY AGGREGATE BASE ROCK WITHIN THE ROADWAY PRISM SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
   b. ASPHALT COMPACTION SHALL BE AT LEAST 92% BASED ON A RICE THEORETICAL MAXIMUM DENSITY, AS DETERMINED IN CONFORMANCE WITH AASHTO T 209, AS MODIFIED BY WSDOT.
10. THE LEVELING COURSE AND WEARING COURSE OF ASPHALT CONCRETE (AC) FOR STREETS SHALL AT A MINIMUM BE WSDOT STANDARD HOT MIX ASPHALT CLASS ½-INCH, PG 58H-22, EXCEPT FOR ARTERIALS WHICH SHALL BE CLASS ½-INCH AND PG 58V-22.
11. OPEN CUTTING OF EXISTING ROADWAYS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH THE STANDARD TRENCH RESTORATION DETAILS AND NOTES.
12. ANY PROPOSED TRAFFIC CONTROL PLANS ARE SUBJECT TO APPROVAL AS DEFINED IN SECTION 1.07 ABOVE. REQUESTS SHALL BE EMAILED TO TRAFFIC@RIDGEFIELDWA.US A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO IMPLEMENTATION FOR WORK WITHIN PIONEER STREET, HILLHURST ROAD, OR ROYLE ROAD. TRAFFIC CONTROL PROPOSED ON OTHER CITY STREETS SHALL BE EMAILED A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO IMPLEMENTATION. THE EMAIL SHALL CONTAIN THE FOLLOWING INFORMATION:
    - PROJECT NAME
    - TRAFFIC CONTROL PLAN
    - IMPACTED STREETS
    - DATE(S) OF PROPOSED TRAFFIC IMPACT
    - TIMES OF PROPOSED TRAFFIC IMPACT
    - PROPOSED IMPACT (I.E. LANE CLOSURE WITH FLAGGING, ROAD CLOSURE WITH DETOUR, SHOULDER WORK, INTERMITTENT FLAGGING).

    PROPOSED TRAFFIC CONTROL AND IMPLEMENTATION IS NOT APPROVED UNTIL A RESPONSE EMAIL WITH APPROVAL FOR EXECUTION OF THE SUBMITTED INFORMATION IS RECEIVED FROM THE CITY. CITY MAY APPROVE WITH CONDITIONS OR REQUIRE CORRECTIONS BE ADDRESSED AND RESUBMITTED FOR REVIEW AND APPROVAL.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. SECTION 1-07.23 "TRAFFIC CONTROL" OF THE WSDOT STANDARD SPECIFICATIONS SHALL APPLY IN ITS ENTIRETY.
14. UPON DISCOVERY OF POTENTIAL, KNOWN OR UNKNOWN ARCHAEOLOGICAL RESOURCES AT THE SUBJECT SITE PRIOR TO OR DURING ON-SITE CONSTRUCTION, THE DEVELOPER, CONTRACTOR, AND/OR ANY OTHER PARTIES INVOLVED IN CONSTRUCTION SHALL IMMEDIATELY CEASE ALL ON-SITE CONSTRUCTION IN ACCORDANCE WITH RCW 27.53.060.
14. ANY PUBLIC OR PRIVATE CURB, GUTTER, SIDEWALK, OR ASPHALT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO CITY OF RIDGEFIELD STANDARDS AND PRACTICES.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ADJACENT UTILITIES WHICH MAY INCLUDE, BUT ARE NOT LIMITED TO, WATER, SANITARY SEWER, STORMWATER, POWER, TELEPHONE, CABLE TV, GAS, IRRIGATION, AND STREET LIGHTING. THE CONTRACTOR SHALL NOTIFY RESIDENTS AND BUSINESSES 48 HOURS IN ADVANCE OF ANY WORK AFFECTING ACCESS OR SERVICE AND SHALL MINIMIZE INTERRUPTIONS TO DRIVEWAYS FOR RESIDENTS AND BUSINESSES ADJACENT TO THE PROJECT.
16. ANY DISTURBANCE OR DAMAGE TO PROPERTY NOT IDENTIFIED FOR DEMOLITION OR PROPERTY ADJACENT TO THE WORK AREA SHALL BE REPAIRED OR RESTORED TO ORIGINAL CONDITION.

PERMIT DOCUMENT

MAUL FOSTER ALONGI
330 EAST MILL PLAIN BLVD, SUITE 405
VANCOUVER, WA 98660
360.694.2691
www.maulfoster.com

PORT OF RIDGEFIELD WASHINGTON

JOSHUA CARLSON ELLIOTT
STATE OF WASHINGTON
50320
REGISTERED
PROFESSIONAL ENGINEER

This digital seal certifies the signatory and document content.

ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. AGUIRRE
CHECKED: J. ELLIOTT
SCALE
DRAWING NOT TO SCALE
SHEET TITLE
COVER SHEET
SHEET
C0.0

OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2
PORT OF RIDGEFIELD
RIDGEFIELD, WASHINGTON

PLOTTED BY: Alfredo Aguirre FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\Off-Property Portion Remedial Action Phase 2\C0.0 COVER.dwg
PLOTTED ON: 2025-09-08 3:20 PM

ABBREVIATIONS

AC	ACRE, ASPHALT CONCRETE PAVEMENT
ACOE	ARMY CORPS OF ENGINEERS
AD	AREA DRAIN
AGG	AGGREGATE
AIR	AIR RELIEF
AMSL	ABOVE MEAN SEA LEVEL
AP	ANGLE POINT
APN	APPARENT PARCEL NUMBER
APPD	APPROVED
APPROX, ±	APPROXIMAT(-E, -LY)
ASPH	ASPHALT
ASSY	ASSEMBLY
BCR	BEGIN CURB RETURN
BF	BUTTERFLY
BGS	BELOW GROUND SURFACE
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCHMARK
BMP	BEST MANAGEMENT PRACTICE
BO	BLOW-OFF
BOC	BACK OF CURB
BOT, BTM	BOTTOM
B.O.W.	BOTTOM OF WALL
BVC	BEGING VERTICAL CURVE
CB	CATCH BASIN
CDF	CONTROLLED DENSITY FILL
CEM	CEMENT
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CIP	CAST IRON PIPE
CIR	CIRCLE
CK	CHECK
CL, ℄	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
COMP	COMPACTION
CONC	CONCRETE
CPE	CORRUGATED POLYETHYLENE
CPL	COUPLING
CT	COURT
CTR	CENTER
CULV	CULVERT
CY	CUBIC YARD
D	DEPTH
DEG	DEGREE(-S)
DI	DUCTILE IRON
DIA	DIAMETER
DIM.	DIMENSION(-S)
DIP, D.I.P.	DUCTILE IRON PIPE
DOT	DEPARTMENT OF TRANSPORTATION
DR	DIMENSION RATIO
DTL	DETAIL
DWG(S)	DRAWING(-S)
E	EAST
EA	EACH
ECR	END CURB RETURN
EG	EXISTING GROUND
EL, ELEV	ELEVATION
ELB, ELL	ELBOW
ELEC	ELECTRIC(-AL)
ENGR	ENGINEER
ENTR	ENTRANCE
EP, EOP	EDGE OF PAVEMENT
EQ	EQUAL(-LY)
ESC	EROSION CONTROL
ESMT	EASEMENT
EST	ESTIMATE(-D)
EVC	END VERTICAL CURVE
EXC	EXCAVATE
EX., EXTG.	EXISTING
EW	EACH WAY
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FLG	FLANGE
FM	FORCE MAIN
FT	FEET, FOOT
GAL	GALLON(-S)
GM	GAS METER
GND	GROUND
GP	GUARD POST
GPM	GALLONS PER MINUTE
GRD	GRADE
GV	GAS VALVE, GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HGT, HT	HEIGHT
HP	HORSEPOWER
HORZ	HORIZONTAL
HYD	HYDRANT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH(-ES)
INTX	INTERSECTION
INV	INVERT
IP	IRON PIPE
L	LENGTH
LAT	LATERAL
LB	POUND(-S)
LF	LINEAR FEET
LONG.	LONGITUDINAL
LT	LEFT
MAX	MAXIMUM
MFA	MAUL FOSTER & ALONGI, INC.
MFR	MANUFACTURER
MH	MANHOLE
MIC	MONUMENT (IN CASE)
MIN	MINIMUM; MINUTE
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MON	MONUMENT (SURFACE)
MW	MONITORING WELL
N	NORTH
N/A	NOT APPLICABLE
NAT G, NG	NATURAL GAS
NE	NORTHEAST
NO.	NUMBER
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
OD	OUTSIDE DIAMETER
OHP	OVERHEAD POWER
OT	OWNERSHIP TIE
P	PIPE
P TRAN	PAD MOUNTED TRANSFORMER
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PEN.	PENETRATION
PERF	PERFORAT(-E, -ED, -ES, -ION)
P.L., PL	PROPERTY LINE, PLACE
POW V	POWER VAULT
PP	POWER POLE
PROP.	PROPOSED
PS	PUMP STATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENT
PV	PLUG VALVE
PVI	POINT OF VERTICAL INTERSECTION
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
R, RAD	RADIUS
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RED	REDUCER
REQD	REQUIRED
REQT	REQUIREMENT
REV	REVISION
R/W, ROW	RIGHT OF WAY
RT	RIGHT
S	SOUTH, SLOPE
SB	SOIL BORING
SCH	SCHEDULE
SD	STORM DRAIN
SDR	STANDARD DIMENSION RATIO
SE	SOUTHEAST
SF	SQUARE FEET
SHT	SHEET
SL	SLOPE
SPEC	SPECIFICATIONS
SQ	SQUARE
SQ IN	SQUARE INCHES
SRF	SURFACE
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STRM	STORM
STRUCT	STRUCTUR(-E, -AL)
SSWR	SANITARY SEWER
SW,S/W	SIDEWALK, SOUTHWEST
TB	THRUST BLOCK
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB
TEL, TELE	TELEPHONE
TEMP	TEMPORARY
TP	TOP OF PAVEMENT, TEL POLE, TURNING POINT
TW	TOP OF WALL
TYP	TYPICAL
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UTIL	UTILITY
VC	VERTICAL CURVE
VERT	VERTICAL
VOL	VOLUME
W	WIDTH; WIDE; WEST
W/	WITH
WATR	WATER
WM	WATER METER
W/O	WITHOUT
WSE	WATER SURFACE ELEVATION
WV	GATE/GENERAL WATER VALVE
YD	YARD
YR	YEAR

GENERAL LEGEND

GAS/POWER/TELEPHONE SYMBOLS

SYMBOL EXIST.	SYMBOL PROP.	DESCRIPTION
		GAS METER
		GAS VALVE
		PAD MOUNTED TRANSFORMER
P		POWER VAULT
		AIR CONDITIONING CONDENSER
		UTILITY POLE
		UTILITY POLE ANCHOR
		TELEPHONE RISER
T		TELEPHONE VAULT
		LIGHT POLE

SURVEY SYMBOLS

SYMBOL THEOR./ EXIST.	SYMBOL FOUND/ PROP.	DESCRIPTION
		ANGLE POINT
		BENCH MARK
		BLOCK CORNER
		MONUMENT - CALCULATED
		MONUMENT - FOUND
		OWNERSHIP TIE
		SECTION DATA:
		SECTION CENTER
		SECTION CORNER
		QUARTER CORNER
		SIXTEENTH CORNER
		CLOSING CORNER
MC WC	MC WC	MEANDER CORNER
		WITNESS CORNER
		SOIL BORING
×	⊗	SPOT ELEVATION

27	EXISTING GRADE MAJOR CONTOUR
27	EXISTING GRADE MINOR CONTOUR
SD_x	EXISTING STORM DRAIN PIPE
W_x	EXISTING WATER PIPE
SS_x	EXISTING SANITARY SEWER PIPE
	EXISTING AC PAVEMENT
	EXISTING CONCRETE SURFACING
	EXISTING GRAVEL SURFACING
	EXISTING BUILDING
	EXISTING FENCE LINE
	EXISTING ROAD CENTERLINE
	EXISTING RIGHT-OF-WAY
PL	EXISTING PROPERTY LINE

WATER SYMBOLS

SYMBOL EXIST.	SYMBOL PROP.	DESCRIPTION
		CAP/PLUG
		COUPLING
		GUARD POST / BOLLARD
		REDUCER
		THRUST BLOCK
		WATER METER
		DOUBLE CHECK VALVE ASSEMBLY
		FIRE HYDRANT
		AIR RELIEF
		WATER SPIGOT
		CHECK VALVE
		GATE VALVE
		SPRINKLER HEAD
		BENDS:
		90 DEGREE BEND
		45 DEGREE BEND
		22.5 DEGREE BEND
		11.25 DEGREE BEND
		VERTICAL BEND
		TEE
		CROSS

SANITARY/STORM SEWER SYMBOLS

SYMBOL EXIST.	SYMBOL PROP.	DESCRIPTION
		SAN. SEWER CLEAN OUT
	Ⓢ	SAN. SEWER MANHOLE
		STORM DRAIN CATCH BASIN
		STORM DRAIN CULVERT
	Ⓓ	STORM DRAIN MANHOLE
		DRY WELL
		AREA DRAIN

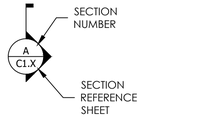
27	PROPOSED GRADE MAJOR CONTOUR (5.0' INTERVAL)
27	PROPOSED GRADE MINOR CONTOUR (1.0' INTERVAL)
	PROPOSED STORM DRAIN PIPE
	PROPOSED WATER PIPE
	PROPOSED SANITARY SEWER PIPE
	PROPOSED AC PAVEMENT
	PROPOSED CONCRETE SURFACING
	PROPOSED GRAVEL SURFACING
	PROPOSED BUILDING
	PROPOSED FENCE LINE
	PROPOSED ROAD CENTERLINE
	PROPOSED RIGHT-OF-WAY
PL	PROPOSED PROPERTY LINE

CHANNELIZATION SYMBOLS

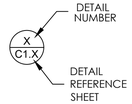
SYMBOL EXIST.	SYMBOL PROP.	DESCRIPTION
		BIKE PATH
		HANDICAP SYMBOL
STOP	STOP	STOP
		RAISED MARKERS:
		LANE MARKERS TYPE I
		LANE MARKERS TYPE II
		SIGN

MISCELLANEOUS SYMBOLS

SYMBOL EXIST.	SYMBOL PROP.	DESCRIPTION
		FLAG POLE
MB		MAILBOX
		MONITORING WELL
		INLET PROTECTION PILLOW
		CONSTRUCTION ENTRANCE
	FG 83.88	PROPOSED SPOT SHOT



TYPICAL SECTION CALLOUT



TYPICAL DETAIL CALLOUT

SF	PROPOSED SEDIMENT FENCE
OR OR	PROPOSED FLOW DIRECTION
	PROPOSED GRADE BREAK
	PROPOSED DITCH FLOW LINE
	PROPOSED COMPOST SOCK
	PROPOSED PAINT STRIPE
	PROPOSED TRUNCATED DOMES
	EXISTING FLOW DIRECTION
P	EXISTING OVERHEAD POWER
E_x	EXISTING UNDERGROUND POWER
T	EXISTING UNDERGROUND TELEPHONE
G	EXISTING UNDERGROUND GAS

PERMIT DOCUMENT

MAUL FOSTER ALONGI
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VANCOUVER, WA 98660
360.694.2691
www.maulfoster.com

PORT OF RIDGEFIELD WASHINGTON

DOUGLAS CARSON WILLIAMS
STATE OF WASHINGTON
50320
REGISTERED
PROFESSIONAL ENGINEER

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11-06-2025

OFF-PROPERTY PORTION
REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
A.	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE

SHEET TITLE

MASTER LEGEND

SHEET

C0.1

PLOTTED ON: 2025-08-06 12:32 PM PLOTTED BY: Alfredo Aguirre FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\C1.1 MASTER LEGEND.dwg

LEGEND

PHASE 2 RESTORATION AREA

PROPERTY BOUNDARY

PROJECT BOUNDARY

NOTES

SEE INDIVIDUAL CLEANUP PLAN FOR REMEDIATION AND RESTORATION AREAS

SITES

PROPERTY ID NUMBER	TAX LOT PARCEL NUMBER	PROPERTY ADDRESS	OWNER NAME
044	68326000	514 N MAIN AVE, RIDGEFIELD, WA 98642	JASPER KOLLN & ANDREA KOLLN
045	68326005	512 N MAIN AVE, RIDGEFIELD, WA 98642	BENEDICT PROPERTIES 2 LLC
048	70380000	229 MAPLE ST, RIDGEFIELD, WA 98642	JOAN WILCOX &JENNIFER BENTELE-EDWARDS
054	68328000	401 MAPLE ST, RIDGEFIELD, WA 98642	ROBERT BLOOM
055	68377000	405 MAPLE ST, RIDGEFIELD, WA 98642	STEVEN JOHNSON & TERESA JOHNSON
057	67996000	411 N 3RD AVE, RIDGEFIELD, WA 98642	BRYAN MEYERS
058	68024000	402 N MAIN AVE, RIDGEFIELD, WA 98642	JOHN BERNATZ & DYANN BERNATZ
059	67999000	505 N 3RD AVE, RIDGEFIELD, WA 98642	VICTORIA MANNING
060	68000000	330 N MAIN AVE, RIDGEFIELD, WA 98642	MARIANNE BROWN
061	68211000	321 N 3RD AVE, RIDGEFIELD, WA 98642	DANA ROBBINS & ELIZABETH BRUSH
063	68015000	421 N 4TH AVE, RIDGEFIELD, WA 98642	RICHARD KRAUS
064	68208000	411 DIVISION ST, RIDGEFIELD, WA 98642	CAMILLE VIGUE & JEFFREY VIGUE
065	68018000	402 N 3RD AVE, RIDGEFIELD, WA 98642	DANNY JONES & KATHLEEN JONES
066	68017000	330 N 3RD AVE, RIDGEFIELD, WA 98642	JUDY HINES & BRANDOLYN HINES
068	68210000	320 N 3RD AVE, RIDGEFIELD, WA 98642	DONALD COVILLE
071	71045025	310 N 3RD AVE, RIDGEFIELD, WA 98642	ARNOLD HERMANN
073	71045023	300 N 3RD AVE, RIDGEFIELD, WA 98642	GLORIA FINN & AARON ZYPH
	71045022	300 N 3RD AVE, RIDGEFIELD, WA 98642	GLORIA FINN & AARON ZYPH
075	71045032	229 MILL ST, RIDGEFIELD, WA 98642	PBRS PROPERTIES LLC
076	71045039	200 N 3RD AVE, RIDGEFIELD, WA 98642	DANIEL SCHELL & VICKEY SCHELL
077	70971000	304 SIMONS ST, RIDGEFIELD, WA 98642	RICHART INVESTMENT GROUP LLC
094	70890000	228 SIMONS ST, RIDGEFIELD, WA 98642	TALL PROPERTIES LLC
095	71000000	N/A	CITY OF RIDGEFIELD
096	70956000	N/A	CYNTHIA CARLSON
097	70952000	122 N 3RD AVE, RIDGEFIELD, WA 98642	THIRD STREET LTD PARTNERS

PERMIT DOCUMENT

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PORT OF RIDGEFIELD WASHINGTON

DONALD CARSON WILLIAMS STATE OF WASHINGTON 50320 REGISTERED PROFESSIONAL ENGINEER

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11-06-2025

OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
A	09/30/2025	GRADING PERMIT

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT

SCALE

0 100' 200'

NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

SHEET TITLE

OVERALL PROJECT PLAN

SHEET

C0.2

PLOTTED ON: 2025-09-08 3:23 PM PLOTTED BY: Alfredo Aguirre FILENAME: G:\PROJECTS\M9003.01.063 port of ridgefield off property\PLANS\off-property portion remedial action phase 2\C0.2 OVERALL PROJECT PLAN.dwg

ESC PLAN LEGEND:

- 60 — EXISTING GRADE MAJOR CONTOUR (10' INTERVAL)
- 62 — EXISTING GRADE MINOR CONTOUR (2' INTERVAL)
- PROJECT BOUNDARY
- INLET PROTECTION

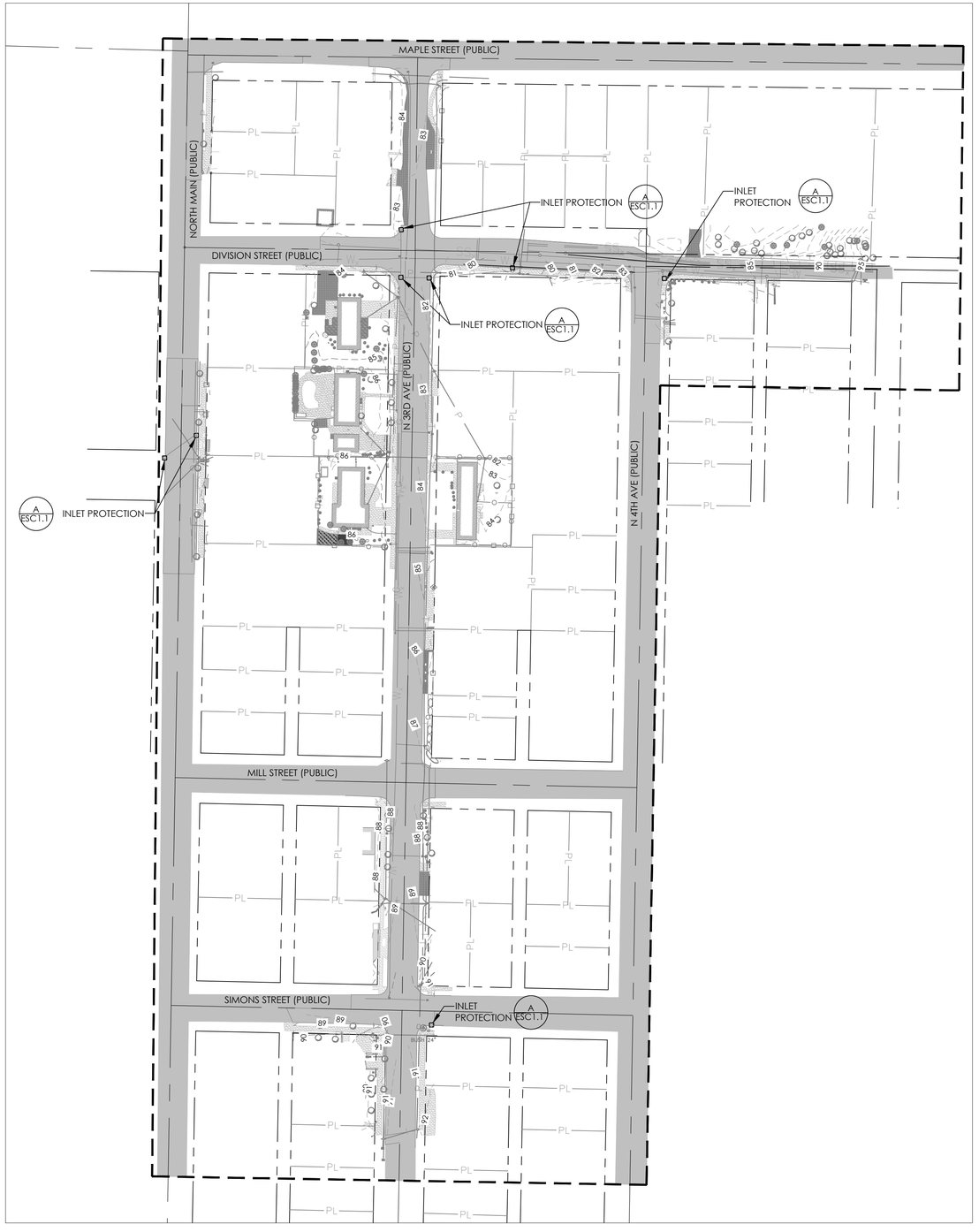
WASHINGTON STATE DEPARTMENT OF ECOLOGY & CITY OF RIDGEFIELD EROSION CONTROL NOTES

STANDARD NOTES FOR EROSION CONTROL MEASURES

1. THE IMPLEMENTATION OF THESE ESC MEASURES AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
2. THE PROJECT BOUNDARY SHOWN IN THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED REMEDIATION LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
3. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
4. THE ESC FACILITIES SHOWN IN THE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
5. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
6. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT.
7. AT NO TIME SHALL CATCH BASIN FILTERS BE ALLOWED TO ACCUMULATE SEDIMENT MORE THAN ONE THIRD FULL.
8. NO WORK SHALL TAKE PLACE DURING A RAIN EVENT. PLASTIC SHEETING SHALL BE USED TO COVER OPEN EXCAVATION AREAS DURING A RAIN EVENT.
9. STABILIZED CONSTRUCTION ENTRANCES OR TRACK OFF PLATES SHALL BE INSTALLED WHERE NECESSARY AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
10. CONTRACTOR SHALL INSTALL REQUIRED BMPS IN ACCORDANCE WITH ECOLOGY'S 2019 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.

CONTAMINATED SOIL TEMPORARY ESC MEASURE NOTES

1. DUST CONTROL: IMPLEMENT AGGRESSIVE DUST CONTROL PRIOR TO CONSTRUCTION. MAINTAIN THROUGHOUT CONSTRUCTION ACTIVITY. CONTRACTOR SHALL SUPPLY ALL EQUIPMENT AND WATER FOR DUST CONTROL AND OTHERWISE. THE PORT SHALL NOT SUPPLY THE WATER, HOSES, SPRAYERS, OR SPRINKLERS FOR DUST CONTROL OR OTHERWISE.
2. CLEAN AREA PROTECTION: PROTECT CLEAN AREAS WITH PLASTIC SHEETING PRIOR TO START OF CONTAMINATED SOIL REMOVAL.
3. BOTTOM OF EXCAVATION: THE BOTTOM OF THE EXCAVATION AREA (AND SIDEWALLS) WILL BE COVERED WITH PLASTIC SHEETING DURING A RAIN EVENT AND DURING NON-WORK DAYS. THE PLASTIC SHEETING SHALL BE PLACED AND SECURED WITH WEIGHTED MEDIA FILTER BOOMS OR OTHER METHOD APPROVED BY THE ENGINEER SO THAT WIND AND RAIN WILL NOT DISLODGE THE PLASTIC SHEETING.



PERMIT DOCUMENT

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VANCOUVER, WA 98660
360.694.2691
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PORT OF RIDGEFIELD WASHINGTON

DOUGLAS CARSON WILLIAMS — STATE OF WASHINGTON — 50320 — REGISTERED PROFESSIONAL ENGINEER

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11-06-2025

OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

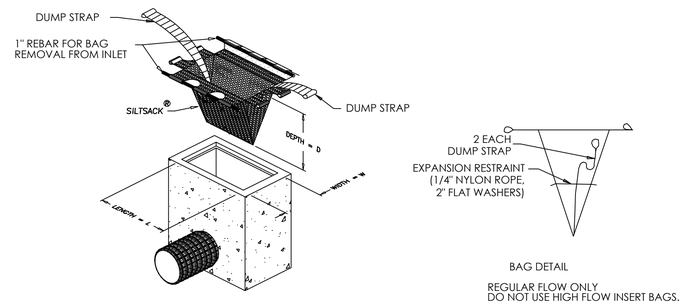
ISSUE	DATE	DESCRIPTION
A	09/30/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. AGUIRRE
CHECKED: J. ELLIOTT
SCALE: 0 80' 160
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

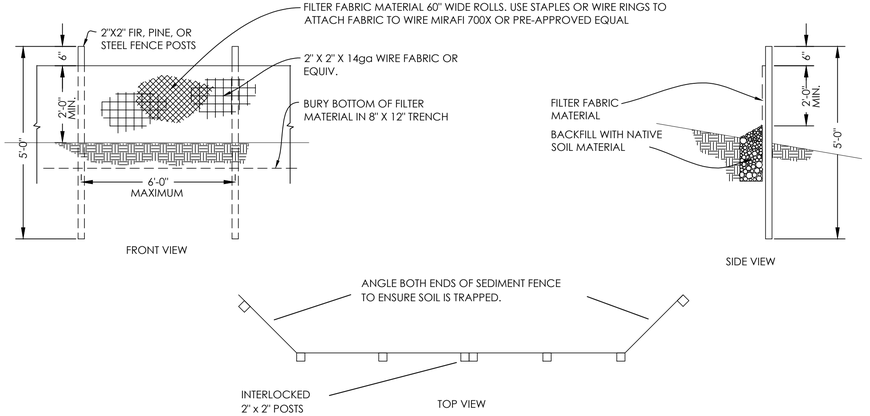
SHEET TITLE: EROSION AND SEDIMENT CONTROL SITE MAP

SHEET: ESC1.0

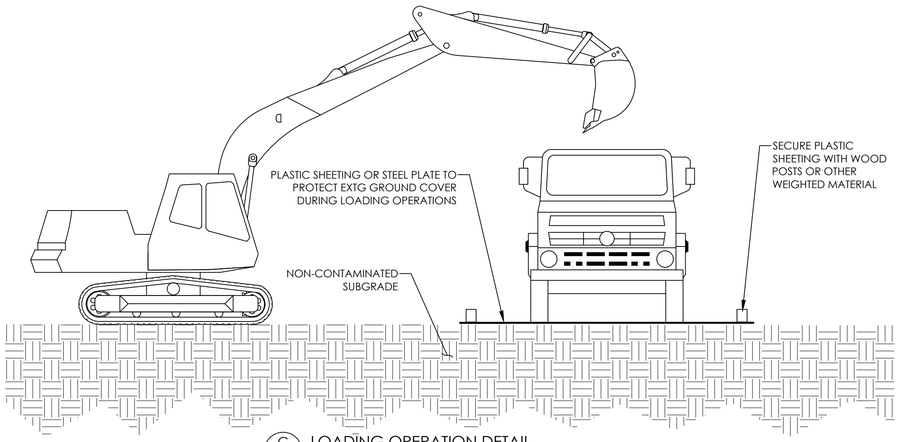
PLOTTED ON: 2025-09-08 3:43 PM PLOTTED BY: Alfredo Aguirre FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\Off-Property Portion Remedial Action Phase 2\ESC1.0 ESC SITE MAP.dwg



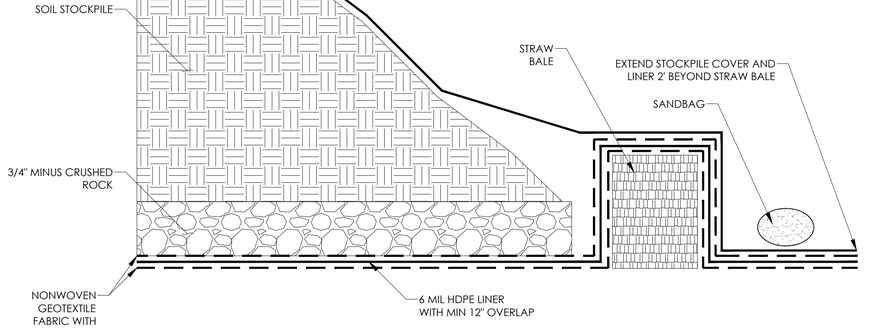
A INLET PROTECTION DETAIL
NTS



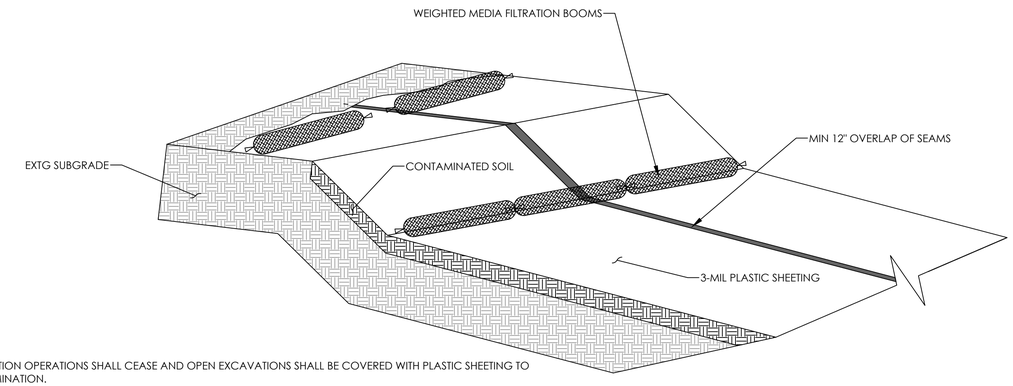
B SILT FENCE DETAIL
NTS



C LOADING OPERATION DETAIL
NTS



E STOCKPILE DETAIL
NTS



NOTES:

1. DURING A RAIN EVENT, EXCAVATION OPERATIONS SHALL CEASE AND OPEN EXCAVATIONS SHALL BE COVERED WITH PLASTIC SHEETING TO PREVENT STORMWATER CONTAMINATION.
2. PLACE WEIGHTED MEDIA BOOMS END TO END ALONG BASE OF EXCAVATION. PLACE WEIGHTED MEDIA FILTRATION BOOMS OR SANDBAGS ALONG TOP OF EXCAVATION TO SECURE PLASTIC SHEETING.
3. REPLACE TORN SHEETS AND REPAIR OPEN SEAMS.

D EXCAVATION COVER DETAIL
NTS

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PORT OF RIDGEFIELD WASHINGTON

DOUGLAS CARSON WILLIAMS
STATE OF WASHINGTON
50320
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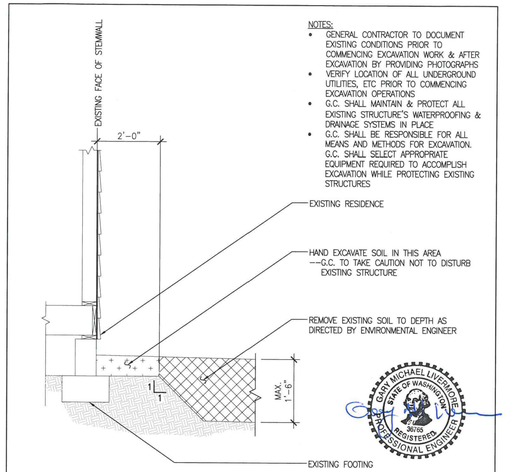
11-06-2025

OFF-PROPERTY PORTION
REMEDIAL ACTION PLAN PHASE 2
PORT OF RIDGEFIELD
RIDGEFIELD, WASHINGTON

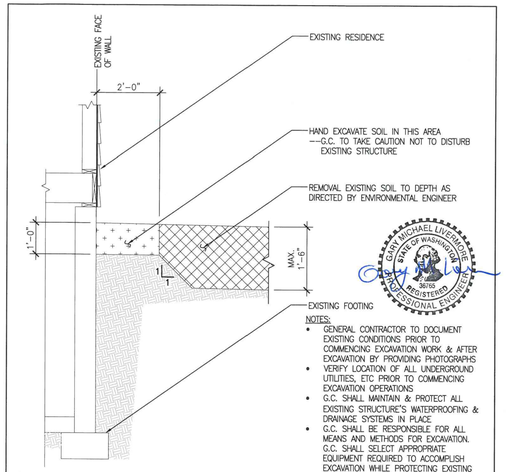
ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE
DRAWING NOT TO SCALE
SHEET TITLE
EROSION AND SEDIMENT CONTROL DETAILS
SHEET
ESC1.1

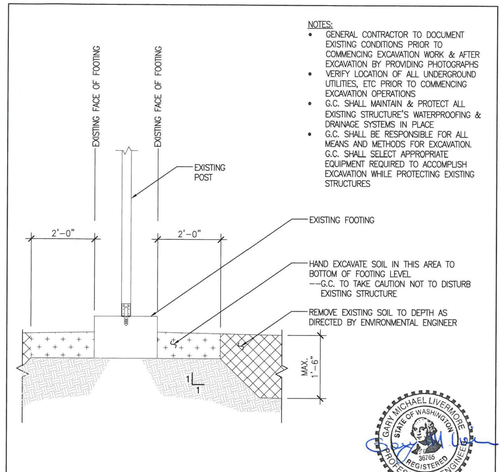
PLOTTED ON: 2025-08-06 2:51 PM PLOTTED BY: Aidan Tronnes FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\ESC1.0 ESC SITE MAP.dwg



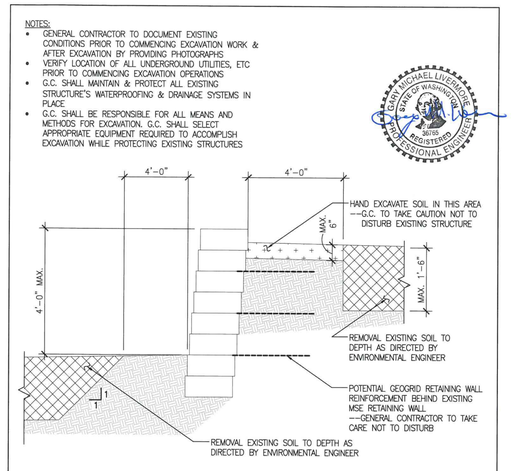
1 SKS-1 **EXCAVATION NEAR RESIDENTIAL FOOTING**
1/2" = 1'-0"



2 SKS-1 **EXCAVATION NEAR BASEMENT WALL**
1/2" = 1'-0"



3 SKS-1 **EXCAVATION NEAR POST**
1/2" = 1'-0"



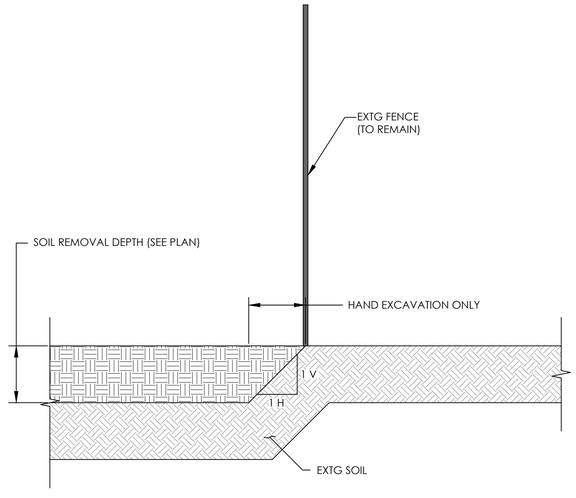
4 SKS-1 **EXCAVATION NEAR SEGMENTAL RETAINING WALL**
1/2" = 1'-0"

DRAWING TITLE: EXCAVATION		DRAWING: SKS 1
PROJECT: RIDGEFIELD YARD CLEANUP MAUL FOSTER ALONGI 400 EAST MILL PLAN BLVD, SUITE 400 RIDGEFIELD, WA 98660		
JOB: 216025.00 DATE: 04/04/16 SCALE: 1/2" = 1'-0"		
LIVERMORE architecture & engineering, inc. industrial • commercial	140 SW Arthur Street, Suite 200 Portland, Oregon 97201 Phone: 503-892-3002 Fax: 503-892-3003	

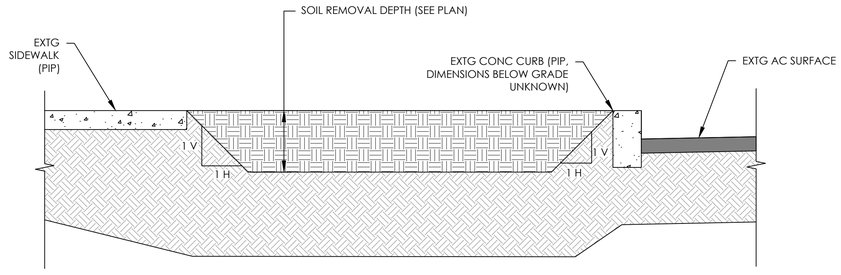
DRAWING TITLE: EXCAVATION		DRAWING: SKS 2
PROJECT: RIDGEFIELD YARD CLEANUP MAUL FOSTER ALONGI 400 EAST MILL PLAN BLVD, SUITE 400 RIDGEFIELD, WA 98660		
JOB: 216025.00 DATE: 04/04/16 SCALE: 1/2" = 1'-0"		
LIVERMORE architecture & engineering, inc. industrial • commercial	140 SW Arthur Street, Suite 200 Portland, Oregon 97201 Phone: 503-892-3002 Fax: 503-892-3003	

DRAWING TITLE: EXCAVATION		DRAWING: SKS 3
PROJECT: RIDGEFIELD YARD CLEANUP MAUL FOSTER ALONGI 400 EAST MILL PLAN BLVD, SUITE 400 RIDGEFIELD, WA 98660		
JOB: 216025.00 DATE: 04/04/16 SCALE: 1/2" = 1'-0"		
LIVERMORE architecture & engineering, inc. industrial • commercial	140 SW Arthur Street, Suite 200 Portland, Oregon 97201 Phone: 503-892-3002 Fax: 503-892-3003	

DRAWING TITLE: EXCAVATION		DRAWING: SKS 4
PROJECT: RIDGEFIELD YARD CLEANUP MAUL FOSTER ALONGI 400 EAST MILL PLAN BLVD, SUITE 400 RIDGEFIELD, WA 98660		
JOB: 216025.00 DATE: 04/04/16 SCALE: 1/2" = 1'-0"		
LIVERMORE architecture & engineering, inc. industrial • commercial	140 SW Arthur Street, Suite 200 Portland, Oregon 97201 Phone: 503-892-3002 Fax: 503-892-3003	



A -- **EXCAVATION ADJACENT TO EXTG FENCE TO REMAIN**
NOT TO SCALE



B -- **EXCAVATION BETWEEN CURB & SIDEWALK DETAIL**
NOT TO SCALE

PERMIT DOCUMENT

MAUL FOSTER ALONGI
330 EAST MILL PLAIN BLVD, SUITE 405
VANCOUVER, WA 98660
360.694.2691
www.maulfoster.com

PORT OF RIDGEFIELD WASHINGTON

DONNA CARSON WILLSON
STATE OF WASHINGTON
50320
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PROFESSIONAL ENGINEER

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OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

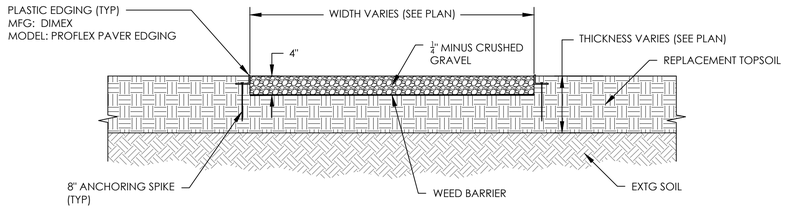
PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE
DRAWING NOT TO SCALE
SHEET TITLE
REMEDIATION STANDARD DETAILS
SHEET
D1.0

PLOTTED ON: 2025-08-06 12:53 PM PLOTTED BY: Alfredo Aguirre FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\D1.1 RESTORATION STANDARD DETAILS.dwg



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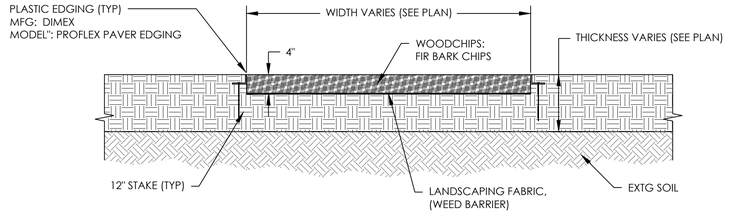
CRUSHED GRAVEL PATH DETAIL

NOT TO SCALE



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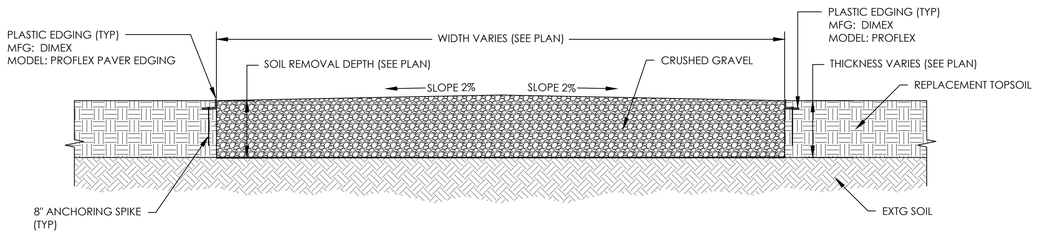
WALK ON BARK SURFACING DETAIL

NOT TO SCALE



E
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GRAVEL DRIVE/PAD DETAIL

NOT TO SCALE

PERMIT DOCUMENT

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PORT OF RIDGEFIELD WASHINGTON

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OFF-PROPERTY PORTION
REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE

DRAWING NOT TO SCALE

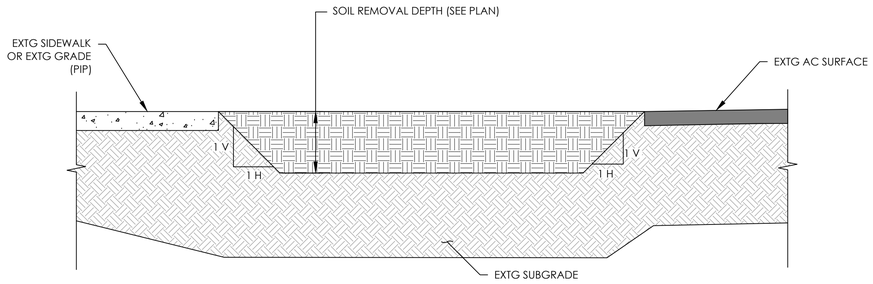
SHEET TITLE

RESTORATION STANDARD DETAILS

SHEET

D1.1

PLOTTED ON: 2025-08-06 12:58 PM PLOTTED BY: Alfredo Aguirre FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\D1.1 RESTORATION STANDARD DETAILS.dwg



C
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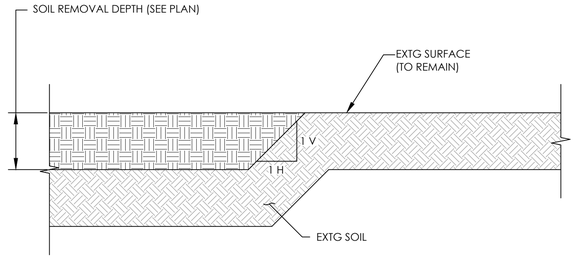
EXCAVATION ADJACENT TO ROADWAY DETAIL

NOT TO SCALE



D
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EXCAVATION ADJACENT TO EXTG SURFACE TO REMAIN

NOT TO SCALE

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OFF-PROPERTY PORTION
REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

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A	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE

SCALE AS NOTED

NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

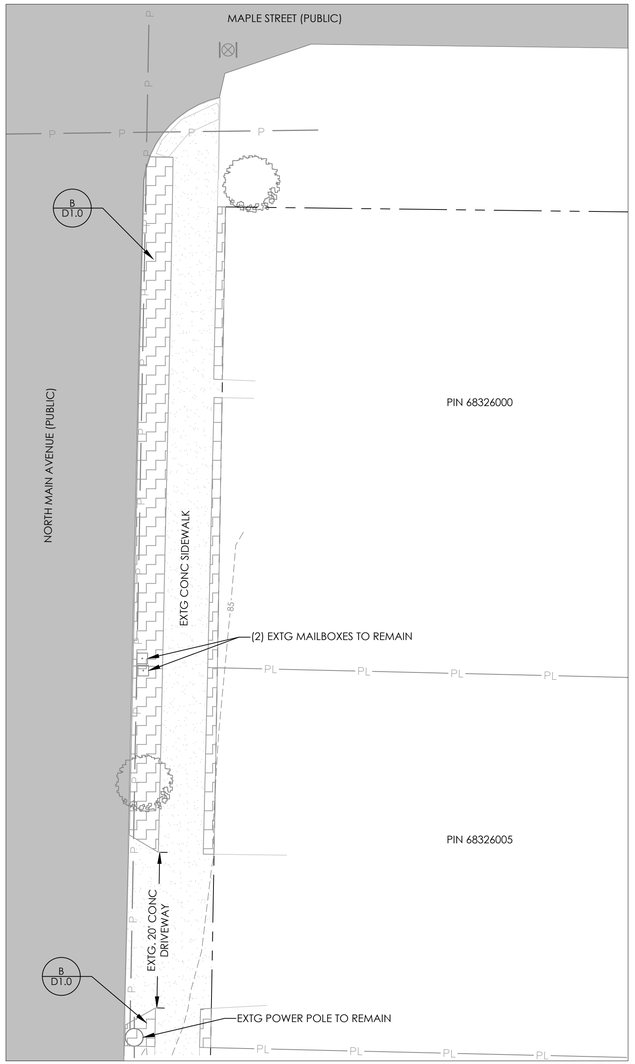
SHEET TITLE

EXCAVATION DETAILS

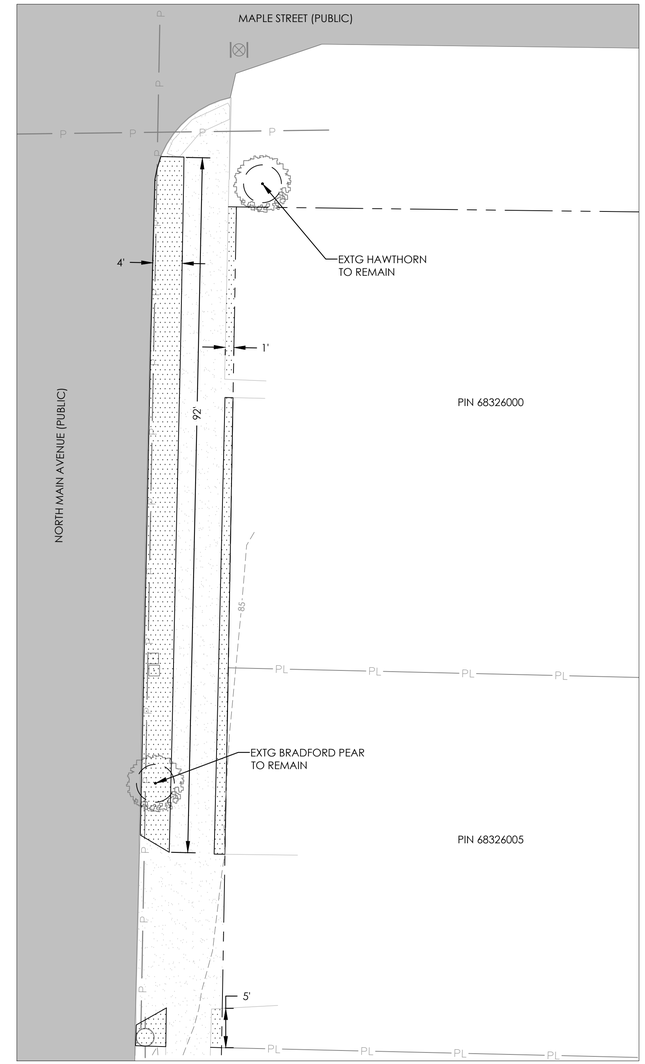
SHEET

D1.2

PLOTTED ON: 2025-09-29 1:14 PM PLOTTED BY: Sean Yoshihiga FILENAME: \\atmfs01.file.core.windows.net\vol\PROJECTS\M9003.01.063 Port of Ridgefield Off Property\PLANS\Off-Property Portion Remedial Action Phase 2\D1.2 DETAILS.dwg



EXISTING CONDITIONS AND REMEDIATION PLAN



RESTORATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND RETAINING WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-4 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET. EXCEPT WHERE DEPICTED OTHERWISE, RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
RESTRICTED ACCESS	VACTOR/HAND TOOLS	474	6

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL - RESTRICTED ACCESS	TOPSOIL	474	6

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.

LEGEND:

- 60 — EXTG MAJOR CONTOUR (5' INTERVAL)
- 61 — EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- PL — LOT LINE
- EXTG FENCE
- X — PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- EXTG ASPHALT SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW TOPSOIL AND HYDROSEED

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OFF-PROPERTY PORTION
REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
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PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT

SCALE
0 10' 20'
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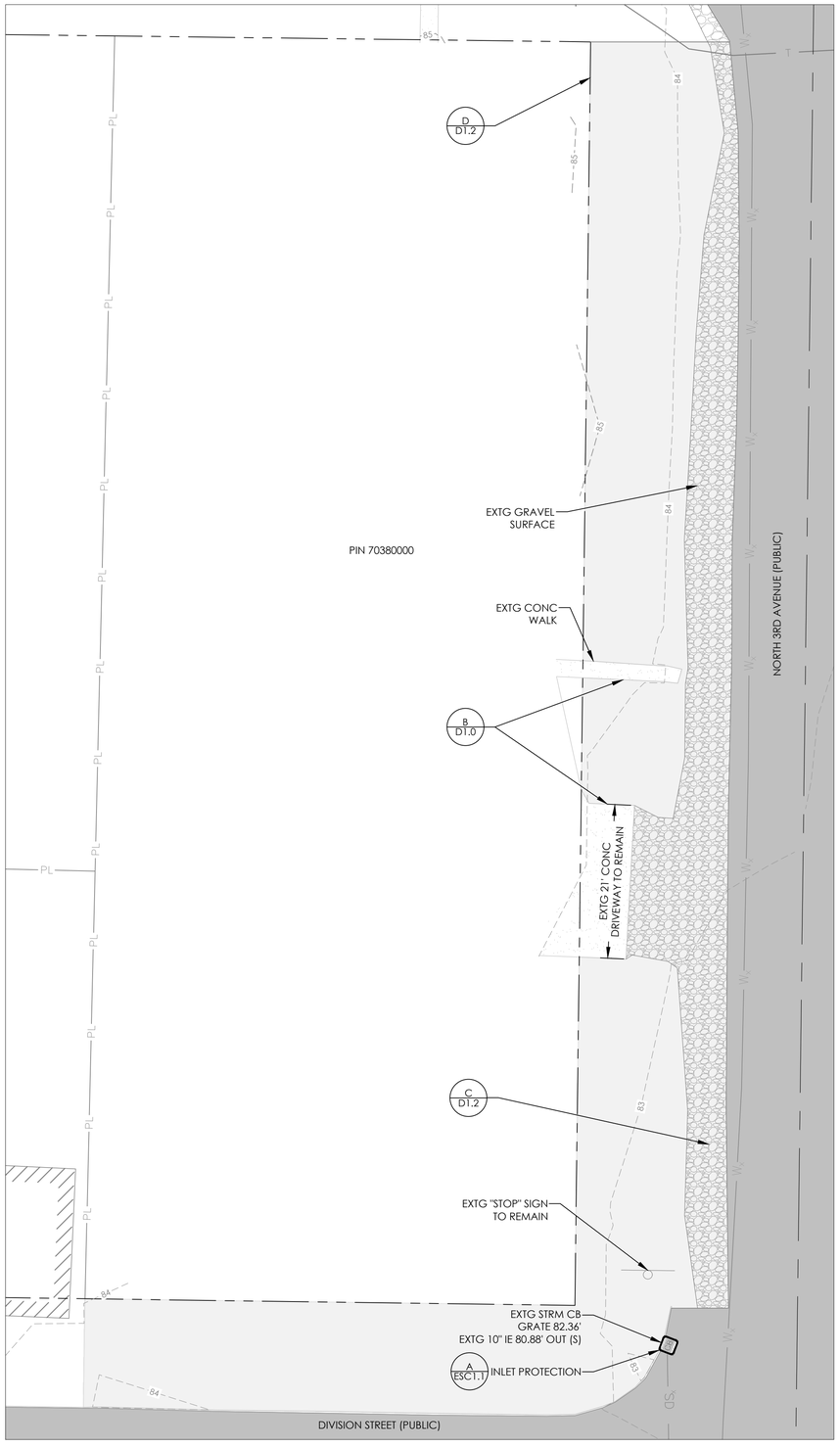
SHEET TITLE
ROW 044 & 045 REMEDIATION AND RESTORATION PLAN

SHEET
C44.1

PLOTTED BY: Sean Yoshitake FILENAME: \\Vmfs01.file.core.windows.net\corp\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\Off-Property Portion Remedial Action Phase 2\C44.1 ROW 044 & 045 REMEDIATION AND RESTORATION PLAN.dwg
PLOTTED ON: 2025-08-29 1:08 PM



EXISTING CONDITIONS AND REMEDIATION PLAN

LEGEND:

- EXTG MAJOR CONTOUR (5' INTERVAL)
- EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- LOT LINE
- EXTG FENCE
- PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- INLET PROTECTION
- EXTG ASPHALT SURFACE
- EXTG GRAVEL SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TRADITIONAL	4,369	12

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND RETAINING WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-4 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET, EXCEPT WHERE DEPICTED OTHERWISE, RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC
4. INSTALL INLET PROTECTION PER DETAIL A, SHEET ESC1.1, OF THE OFF-PROPERTY PORTION REMEDIAL ACTION PLAN FOR PHASE 1.

PERMIT DOCUMENT

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VANCOUVER, WA 98660
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PORT OF RIDGEFIELD WASHINGTON

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OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

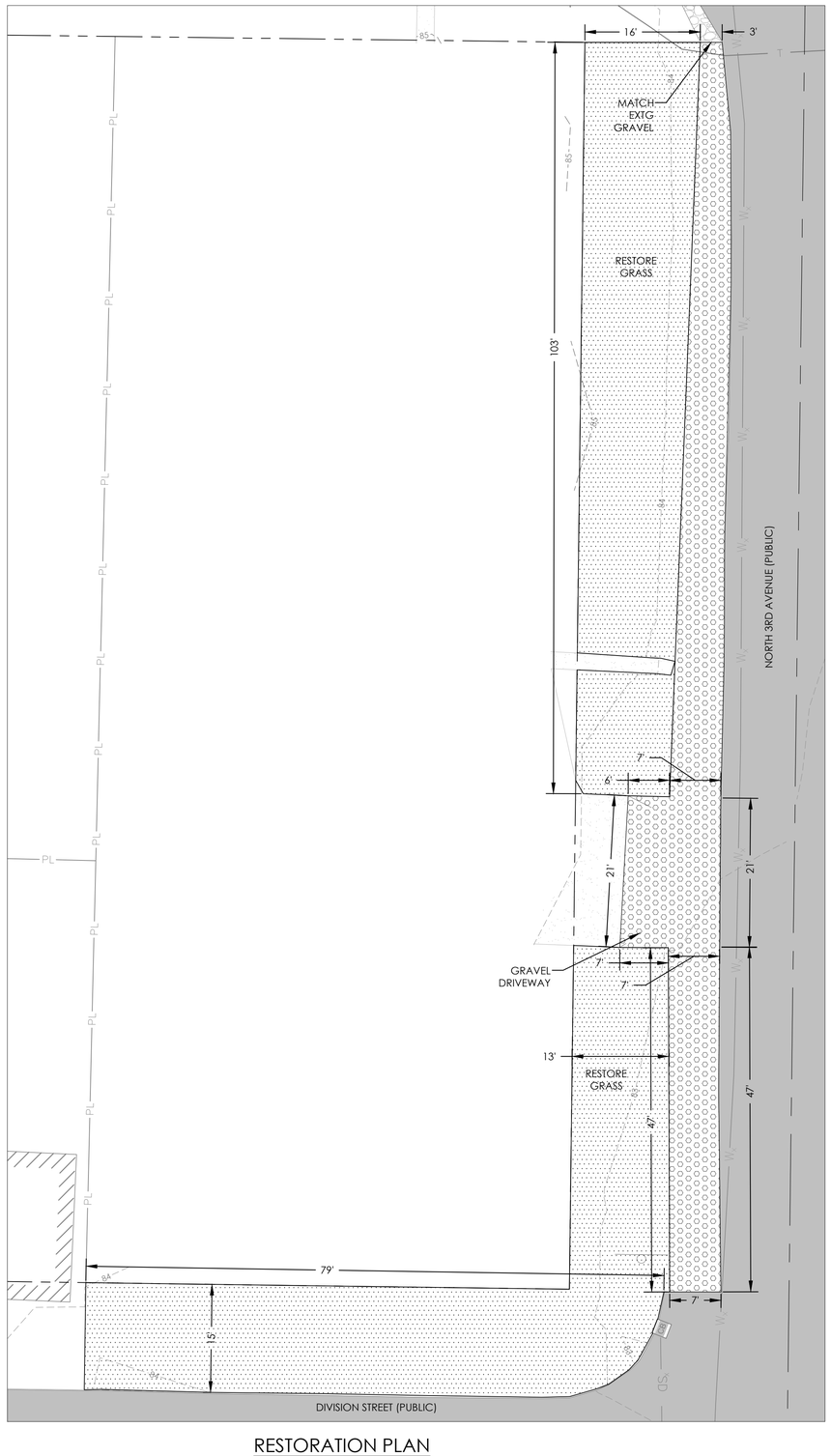
ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

SHEET TITLE
ROW 048 EXISTING CONDITIONS AND REMEDIATION PLAN

SHEET
C48.1A

PLOTTED ON: 2025-09-03 8:44 AM PLOTTED BY: Alfredo Aguirre FILENAME: \\slm601.file.core.windows.net\\corp\PROJECTS\M9003.01.063 Port of Ridgefield Off Property\PLANS\Off-Property Portion Remedial Action Phase 2\C48.1 ROW 048 REMEDIATION AND RESTORATION PLAN.dwg



RESTORATION PLAN

LEGEND:

- 60 — EXTG MAJOR CONTOUR (5' INTERVAL)
- 61 — EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- PL — LOT LINE
- EXTG FENCE
- X — PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- EXTG ASPHALT SURFACE
- EXTG GRAVEL SURFACE
- EXTG CONC
- NEW GRAVEL
- NEW TOPSOIL AND HYDROSEED

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TOPSOIL	3,182	12
GRAVEL DRIVEWAY	GRAVEL SURFACING	1,187	12

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND RETAINING WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-4 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET, EXCEPT WHERE DEPICTED OTHERWISE. RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. PLASTIC EDGING WILL BE PROVIDED AROUND GARDEN BEDS, GRAVEL PATHS/PADS, AND AREAS OF MULCH.
4. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC

PERMIT DOCUMENT

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PORT OF RIDGEFIELD WASHINGTON

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OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

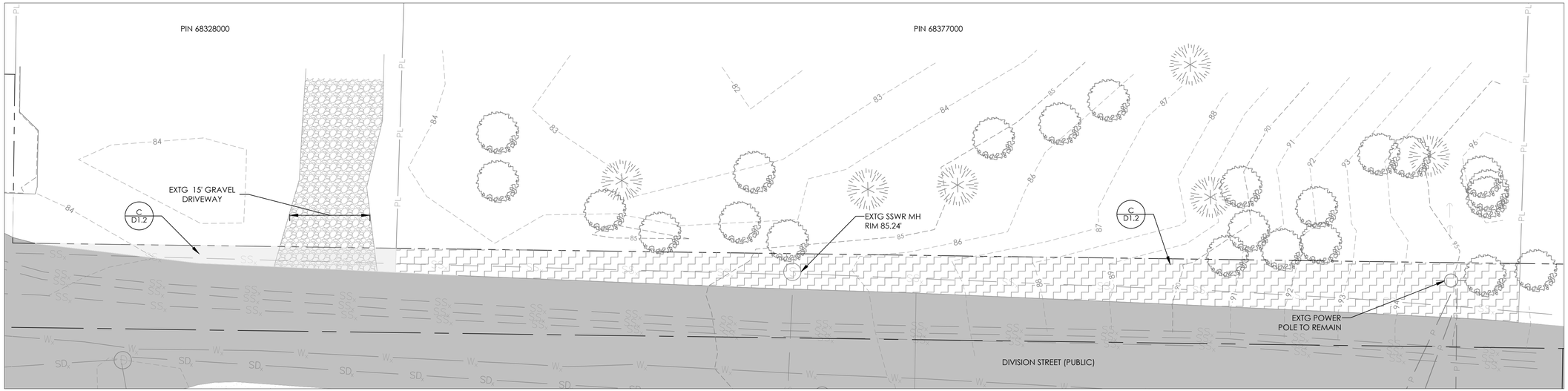
ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE
0 20' 40'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

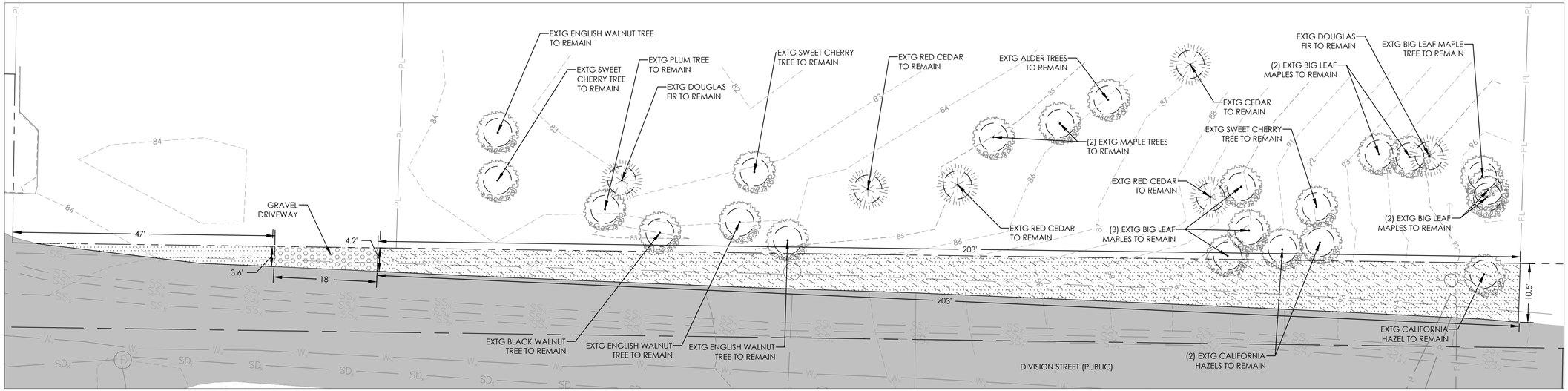
SHEET TITLE
ROW 048 RESTORATION PLAN

SHEET
C48.1B

PLOTTED ON: 2025-09-03 8:44 AM PLOTTED BY: Alfredo Aguirre FILENAME: \\smtfs01.file.core.windows.net\vol1\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\Portion Remedial Action Phase 2\C48.1 ROW 048 REMEDIATION AND RESTORATION PLAN.dwg



EXISTING CONDITIONS AND REMEDIATION PLAN



RESTORATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND RETAINING WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-4 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET, EXCEPT WHERE DEPICTED OTHERWISE, RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. PLASTIC EDGING WILL BE PROVIDED AROUND GARDEN BEDS, GRAVEL PATHS/PADS, AND AREAS OF MULCH.
4. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TRADITIONAL	178	12
RESTRICTED ACCESS	VACTOR/HAND TOOLS	1,424	6

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TOPSOIL	106	12
SOIL REMOVAL - RESTRICTED ACCESS	TOPSOIL	1,424	6
GRAVEL DRIVEWAY	GRAVEL SURFACING	72	12
ON PROPERTY	WOOD CHIP MULCH	1,438	2

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.

LEGEND:

- 60 — EXTG MAJOR CONTOUR (5' INTERVAL)
- 61 — EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- PL — LOT LINE
- EXTG FENCE
- X — PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- EXTG ASPHALT SURFACE
- EXTG GRAVEL SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW GRAVEL
- NEW TOPSOIL AND HYDROSEED
- NEW WOOD CHIP MULCH

PERMIT DOCUMENT

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OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD
RIDGEFIELD, WASHINGTON

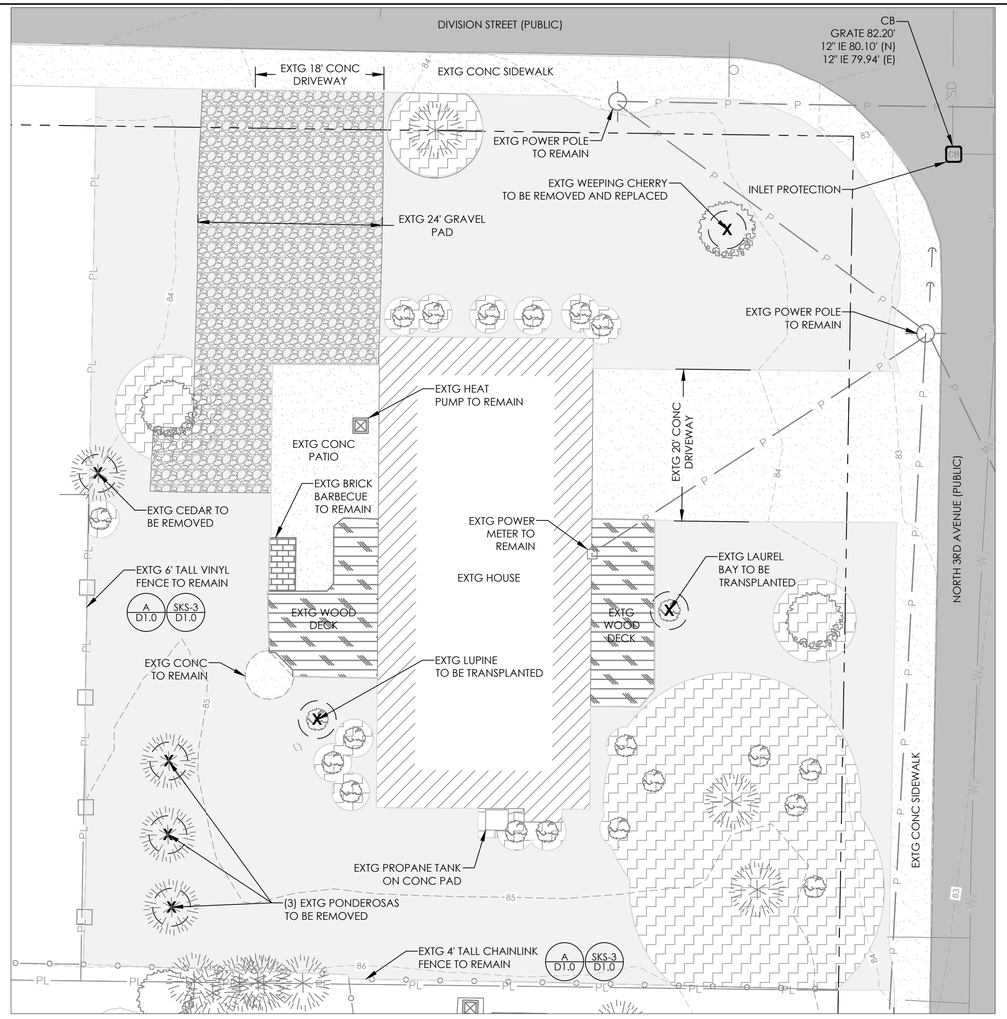
ISSUE	DATE	DESCRIPTION
A.	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

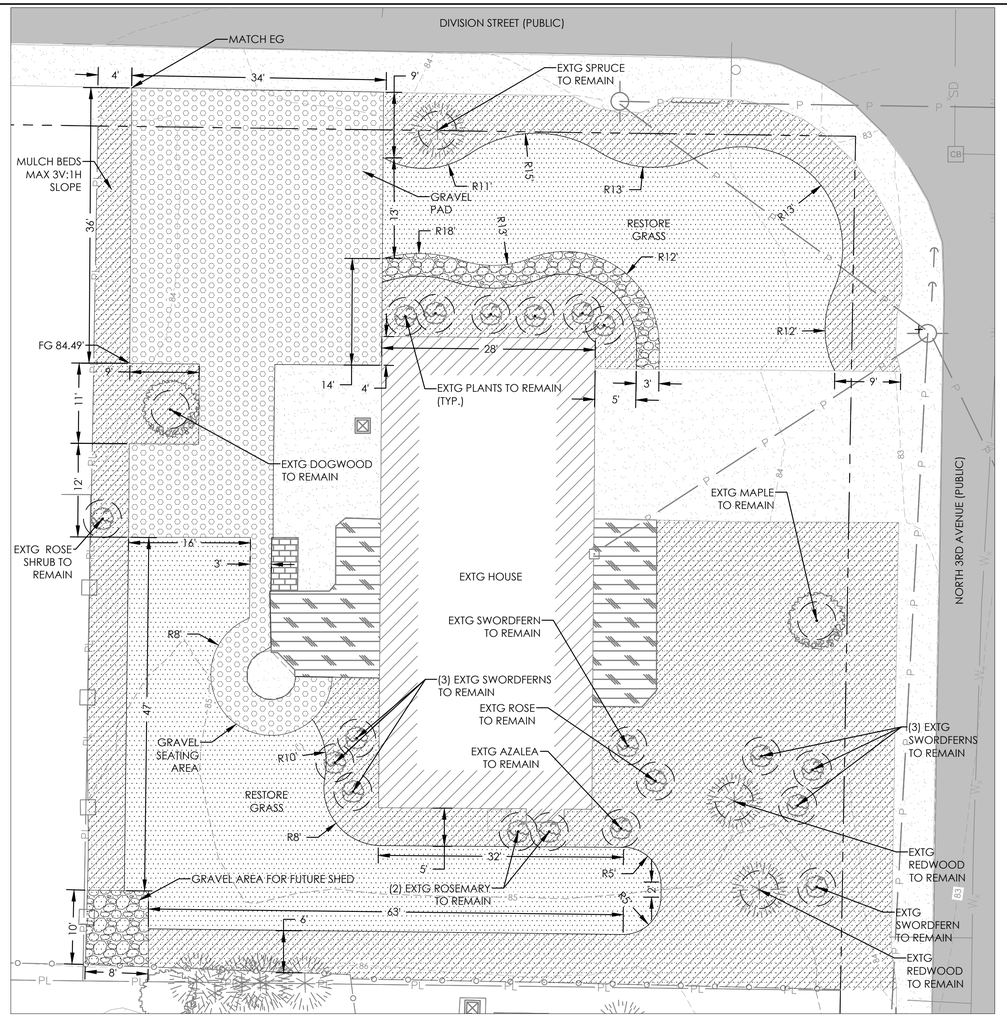
SHEET TITLE
ROW 054 & 055 REMEDIATION AND RESTORATION PLAN

SHEET
C54.1

PLOTTED ON: 2025-09-03 11:53 AM PLOTTED BY: Alfredo Aguirre FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\Off-Property Portion Remedial Action Phase 2\C54.1 ROW 054 & 055 REMEDIATION AND RESTORATION PLAN.dwg



EXISTING CONDITIONS AND REMEDIATION PLAN



RESTORATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND RETAINING WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SK-4 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET. EXCEPT WHERE DEPICTED OTHERWISE, RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. PLASTIC EDGING WILL BE PROVIDED AROUND GARDEN BEDS, GRAVEL PATHS/PADS, AND AREAS OF MULCH.
4. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC
5. THE CONTRACTOR SHALL INSTALL WEED BARRIER UNDER ALL PLANTER BEDS.
6. INSTALL INLET PROTECTION PER DETAIL A, SHEET ESC1.1, OF THE OFF-PROPERTY PORTION REMEDIAL ACTION PLAN FOR PHASE 1.

PROPERTY INFORMATION			
PROPERTY NUMBER	TAX PARCEL NUMBER	ADDRESS	OWNER
057	69234000	411 N 3RD AVE, RIDGEFIELD, WA 98642	BRYAN J. MEYERS

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TRADITIONAL	7,059	12
RESTRICTED ACCESS	VACTOR/HAND TOOLS	1,840	6

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TOPSOIL	5,200	12
SOIL REMOVAL - RESTRICTED ACCESS	TOPSOIL	1,788	6
GRAVEL WALKWAY	TOPSOIL	216	8
GRAVEL WALKWAY	GRAVEL SURFACING	216	4
GRAVEL PAD	GRAVEL SURFACING	1,695	12
ON PROPERTY	MULCHED PLANTER BED	4,292	2

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.

LEGEND:

- EXTG MAJOR CONTOUR (5' INTERVAL)
- EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- LOT LINE
- EXTG FENCE
- PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- INLET PROTECTION
- EXTG ASPHALT SURFACE
- EXTG CONC
- EXTG GRAVEL SURFACE
- EXTG WOOD DECK
- EXTG BRICK
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW MULCHED BEDS W/ PLANTS
- NEW GRAVEL
- NEW TOPSOIL
- NEW GRAVEL PATH

PERMIT DOCUMENT

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PORT OF RIDGEFIELD WASHINGTON

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OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD
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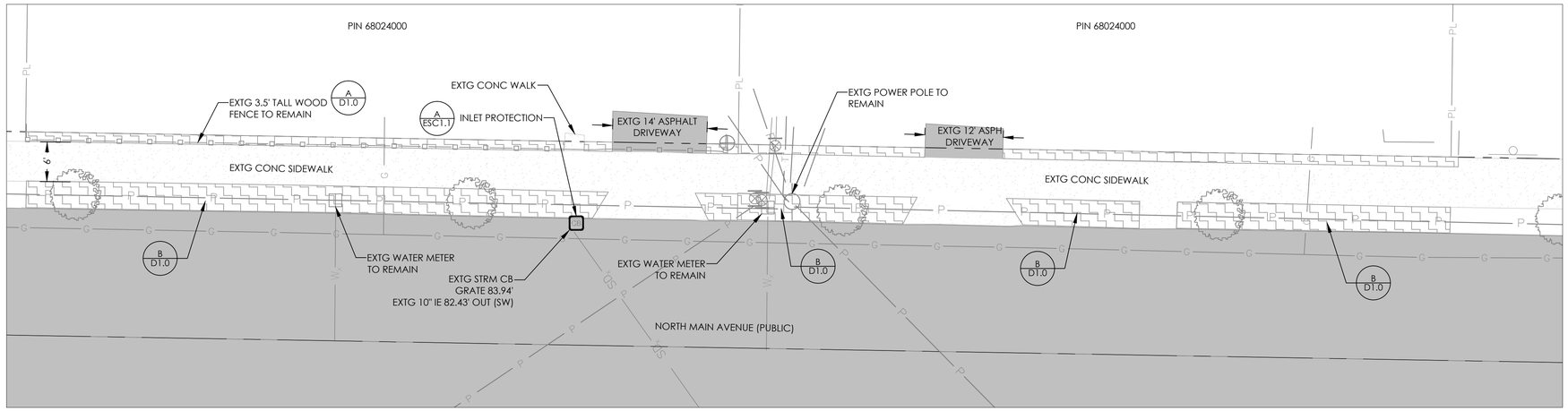
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT

SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

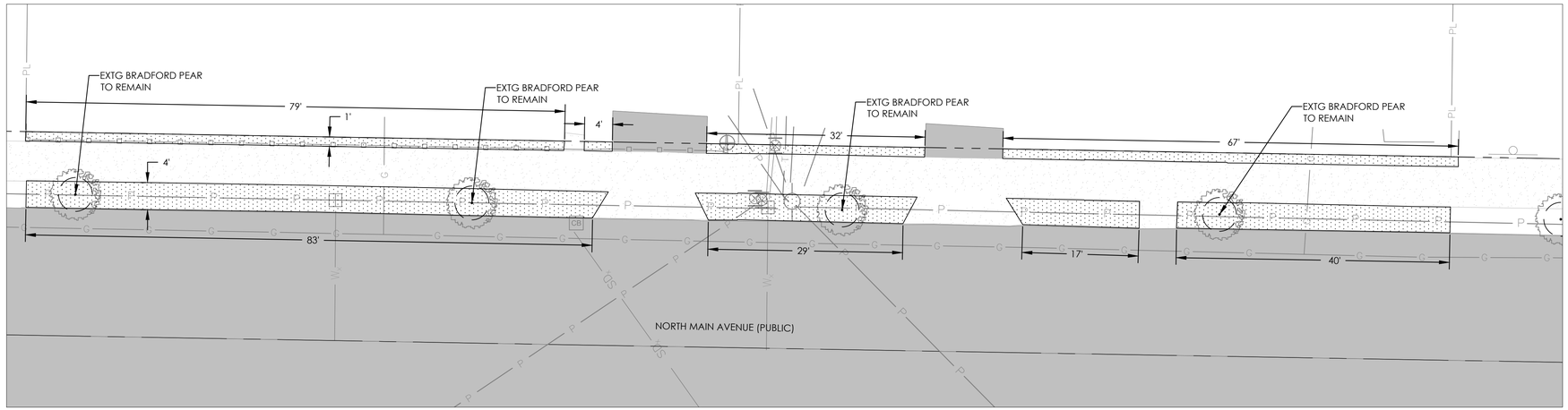
SHEET TITLE
PROPERTY 057 REMEDIATION & RESTORATION PLAN

SHEET
C57.1

PLOTTED ON: 2025-09-01 8:24 AM PLOTTED BY: Aidan Tronnes FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\Off-Property Portion Remedial Action Phase 2\C57.1 PROP 057 REMEDIATION AND RESTORATION PLAN.dwg



EXISTING CONDITIONS AND REMEDIATION PLAN



RESTORATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND RETAINING WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-4 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET. EXCEPT WHERE DEPICTED OTHERWISE, RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC
4. INSTALL INLET PROTECTION PER DETAIL A, SHEET ESC1.1, OF THE OFF-PROPERTY PORTION REMEDIAL ACTION PLAN FOR PHASE 1.

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
RESTRICTED ACCESS	VACTOR/HAND TOOLS	937	6

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL - RESTRICTED ACCESS	TOPSOIL	937	6

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.

LEGEND:

- 60 — EXTG MAJOR CONTOUR (5' INTERVAL)
- 61 — EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- PL — LOT LINE
- EXTG FENCE
- X — PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- INLET PROTECTION
- EXTG ASPHALT SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW TOPSOIL AND HYDROSEEDING

PERMIT DOCUMENT

MAUL FOSTER ALONGI
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PORT OF RIDGEFIELD WASHINGTON

DOUGLAS CARSON WILLIAMS
STATE OF WASHINGTON
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REGISTERED PROFESSIONAL ENGINEER

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11-06-2025

OFF-PROPERTY PORTION
REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

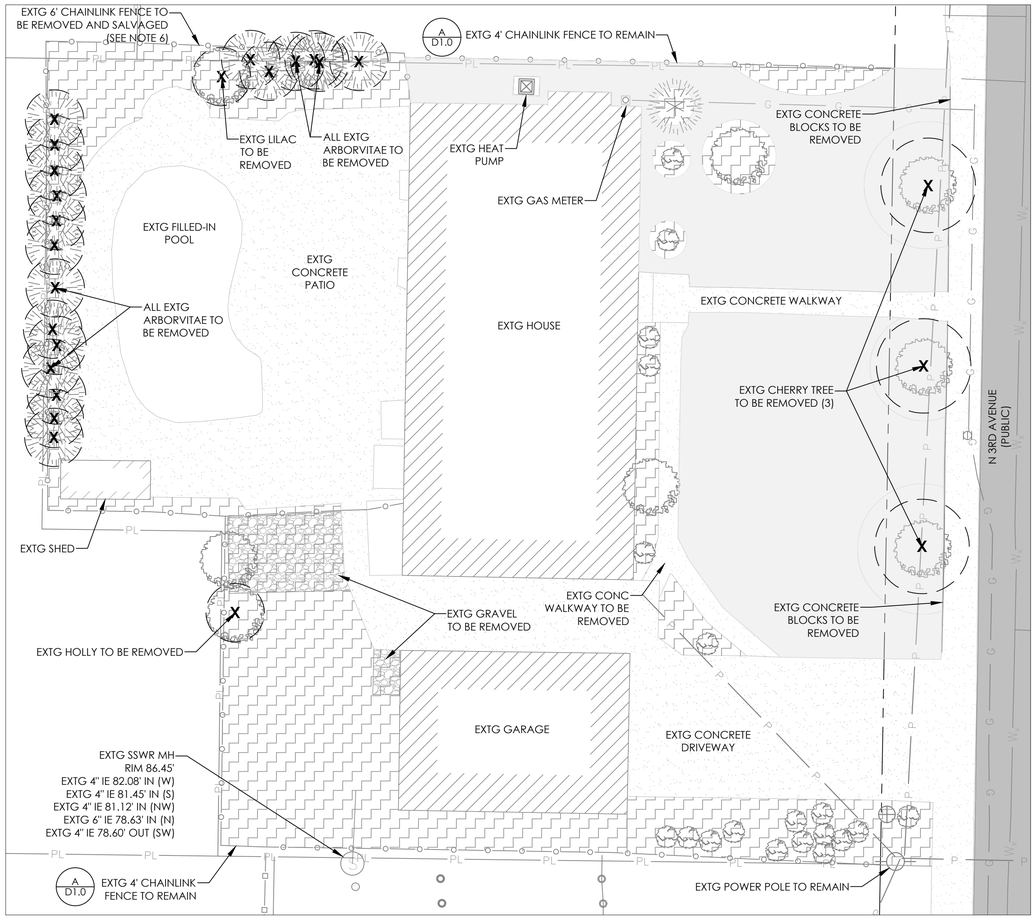
ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

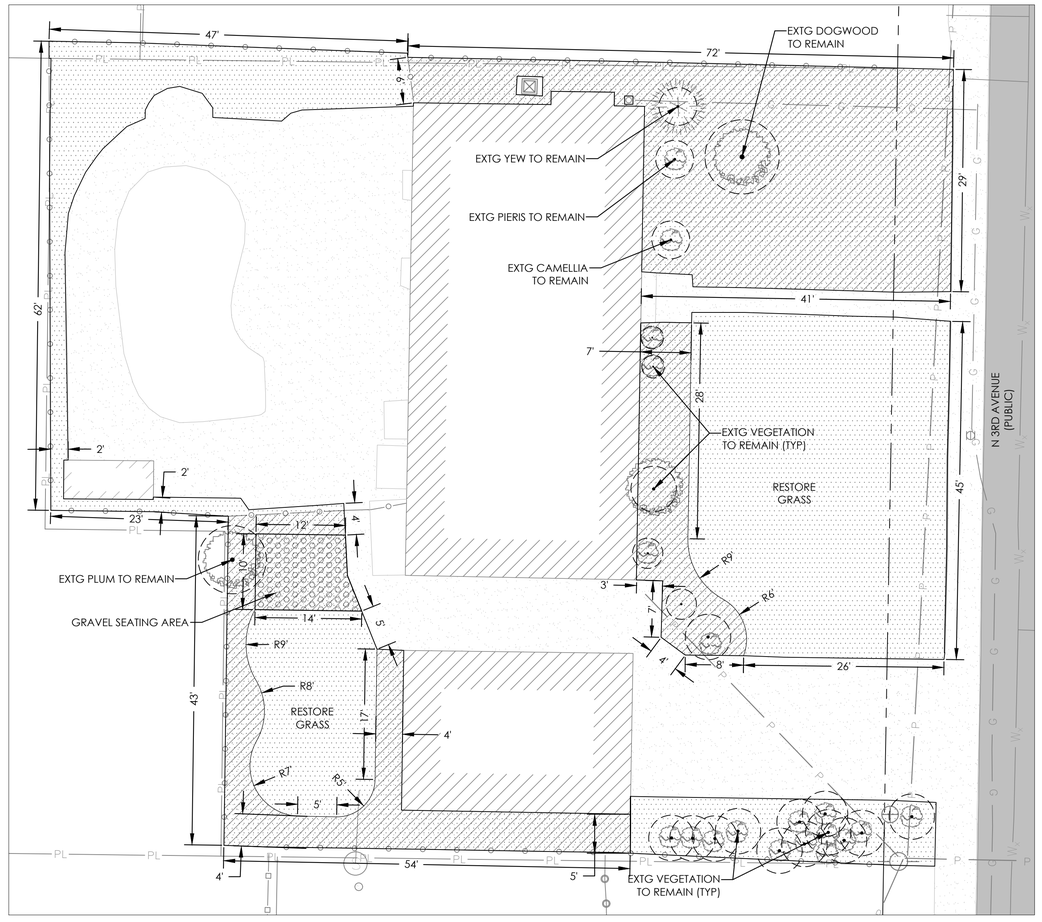
SHEET TITLE
ROW 058 & 060 REMEDIATION AND RESTORATION PLAN

SHEET
C58.1

PLOTTED BY: Alfredo Aguirre FILENAME: C:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\Off-Property Portion Remedial Action Phase 2\C58.1 ROW 058 & 060 REMEDIATION AND RESTORATION PLAN.dwg
PLOTTED ON: 2025-09-03 12:59 PM



EXISTING CONDITIONS AND REMEDIATION PLAN



RESTORATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND RETAINING WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SK-4 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET, EXCEPT WHERE DEPICTED OTHERWISE. RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. PLASTIC EDGING WILL BE PROVIDED AROUND GARDEN BEDS, GRAVEL PATHS/PADS, AND AREAS OF WOODCHIPS.
4. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC
5. THE CONTRACTOR SHALL INSTALL WEED BARRIER UNDER ALL PLANTER BEDS.
6. THE TOTAL LENGTH OF THE 6' CHAINLINK FENCE TO BE REMOVED AND SALVAGED SHALL BE AS NEEDED FOR CONSTRUCTION ACCESS. UPON COMPLETION OF WORK THE CONTRACTOR SHALL REINSTALL THE 6' CHAINLINK FENCE.

PROPERTY INFORMATION			
PROPERTY NUMBER	TAX PARCEL NUMBER	ADDRESS	OWNER
059	67999000	405 N 3RD AVE, RIDGEFIELD, WA 98642	JOSEPH MANNING & VICTORIA E. MANNING

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TRADITIONAL	2,647	12
RESTRICTED ACCESS	VACTOR/HAND TOOLS	2,355	6

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TOPSOIL	2,647	12
SOIL REMOVAL - RESTRICTED ACCESS	TOPSOIL	2,355	6
ON PROPERTY	TOPSOIL	157*	2
ON PROPERTY	MULCHED PLANTER BED	2,325	2

NOTES:
1. RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.
2. * = SQUARE FOOTAGE FOR THE REMOVAL OF CEMENT CONCRETE SIDEWALK. AREA TO BE RESTORED WITH 2" OF TOPSOIL OVER 2" OF MULCHED PLANTER BED.

LEGEND:

- EXTG MAJOR CONTOUR (5' INTERVAL)
- EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- LOT LINE
- EXTG FENCE
- PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- EXTG ASPHALT SURFACE
- EXTG GRAVEL SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW MULCHED BEDS W/ PLANTS
- NEW GRAVEL
- NEW TOPSOIL

PERMIT DOCUMENT

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PORT OF RIDGEFIELD WASHINGTON

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OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

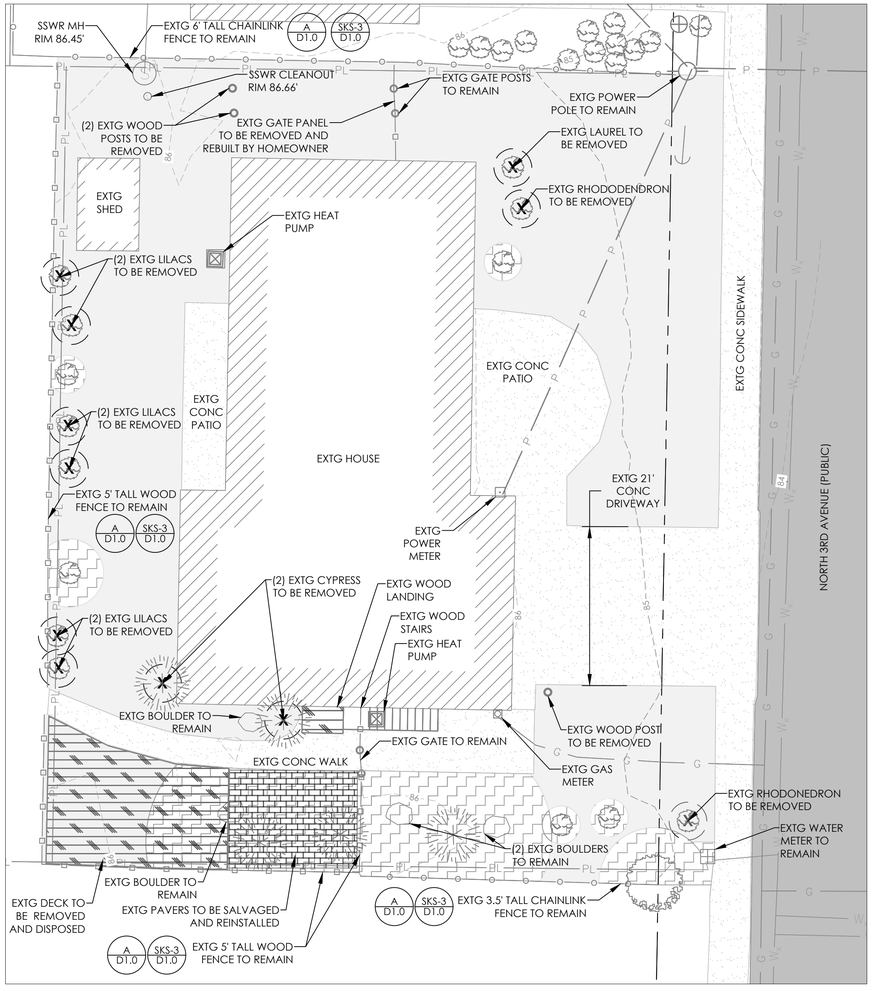
ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

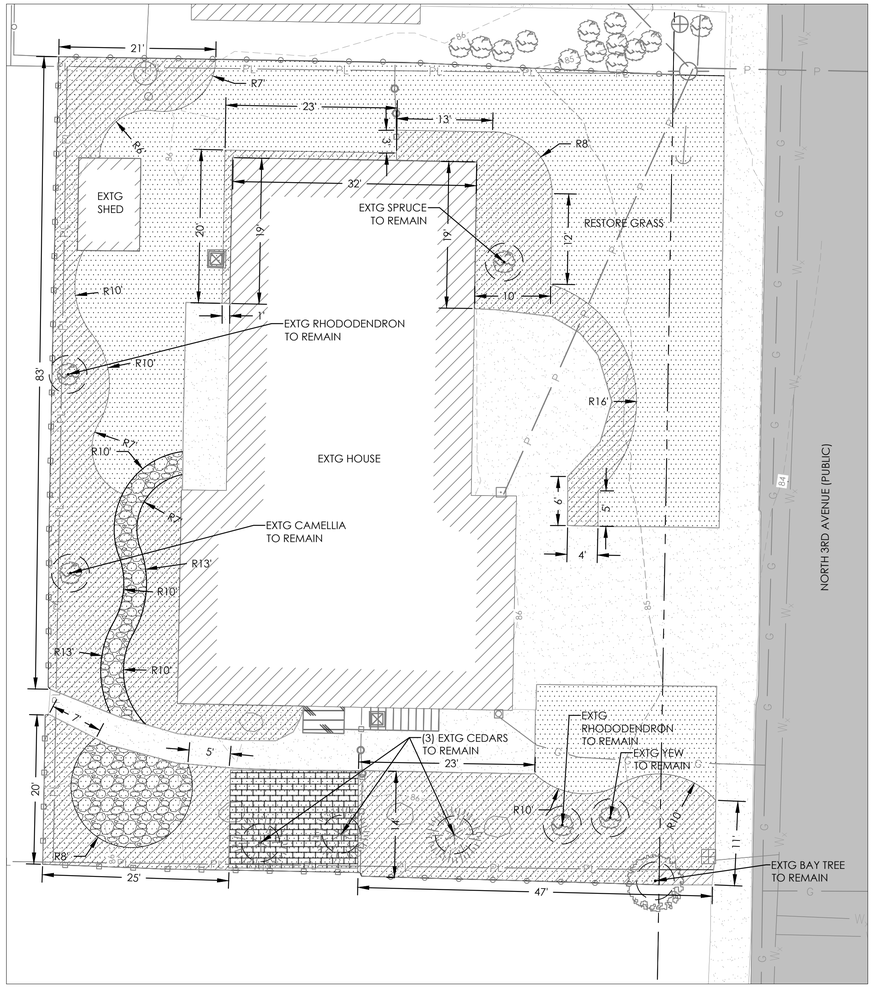
PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOT
SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

SHEET TITLE
PROPERTY 059 REMEDIATION & RESTORATION PLAN

SHEET
C59.1

PLOTTED ON: 2025-08-14 1:20 PM PLOTTED BY: Alfredo Aguirre FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\Off-Property Portion Remedial Action Phase 2\C59.1 PROP 059 REMEDIATION AND RESTORATION PLAN.dwg





EXISTING CONDITIONS AND REMEDIATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND RETAINING WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1, SKS-2 AND SKS-4 ON SHEET D1.0. PHASE 1.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET, EXCEPT WHERE DEPICTED OTHERWISE. RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. PLASTIC EDGING WILL BE PROVIDED AROUND GARDEN BEDS, GRAVEL PATHS/PADS, AND AREAS OF MULCH.
4. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC
5. THE CONTRACTOR SHALL INSTALL WEED BARRIER UNDER ALL PLANTER BEDS.

PROPERTY INFORMATION			
PROPERTY NUMBER	TAX PARCEL NUMBER	ADDRESS	OWNER
061	68211000	321 N 3RD AVE, RIDGEFIELD, WA 98642	DANA L. ROBBINS & ELIZABETH W. BRUSH

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TRADITIONAL	4,233	12
RESTRICTED ACCESS	VACTOR/HAND TOOLS	950	6

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TOPSOIL	3,986	12
SOIL REMOVAL - RESTRICTED ACCESS	TOPSOIL	911	6
GRAVEL WALKWAY	TOPSOIL	247	8
GRAVEL WALKWAY - RESTRICTED ACCESS	TOPSOIL	39	2
GRAVEL WALKWAY	GRAVEL SURFACING	286	4
ON PROPERTY	MULCHED PLANTER BED	2,184	2

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.

RESTORATION PLAN

LEGEND:

- EXTG MAJOR CONTOUR (5' INTERVAL)
- EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- LOT LINE
- EXTG FENCE
- PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- EXTG ASPHALT SURFACE
- EXTG CONC
- EXTG WOOD DECK
- EXTG PAVER PATIO
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW MULCHED BEDS W/ PLANTS
- NEW GRAVEL WALKWAY
- NEW TOPSOIL

PERMIT DOCUMENT

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OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOT
SCALE

0 10' 20'

NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

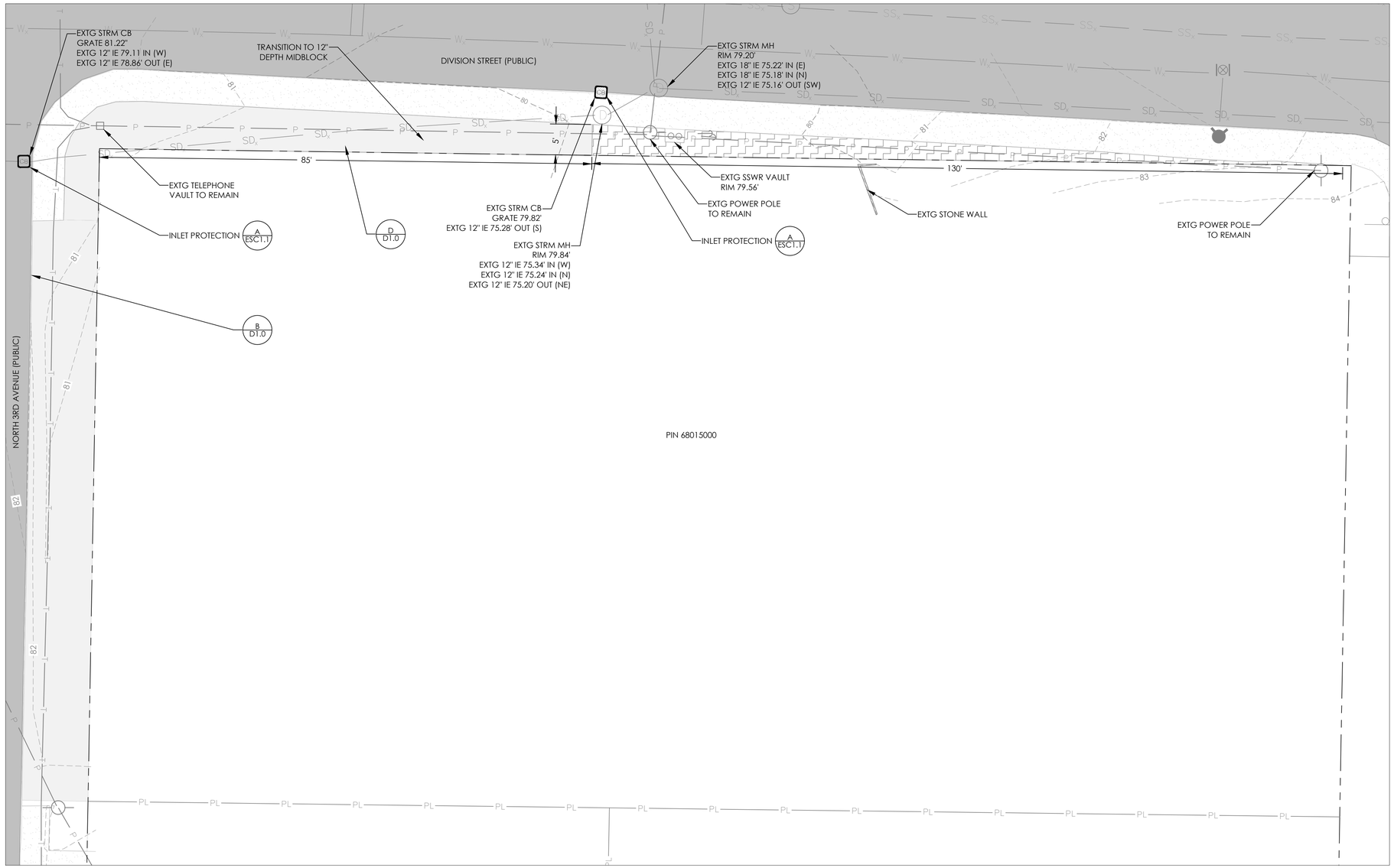
SHEET TITLE

PROPERTY 061 REMEDIATION & RESTORATION PLAN

SHEET

C61.1

PLOTTED ON: 2025-06-30 2:19 PM PLOTTED BY: Aidan Tronnes FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\ Off-Property Portion Remedial Action Phase 2\C61.1 PROP 061 REMEDIATION AND RESTORATION PLAN.dwg



EXISTING CONDITIONS AND REMEDIATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND RETAINING WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-4 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET, EXCEPT WHERE DEPICTED OTHERWISE. RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC
4. INSTALL INLET PROTECTION PER DETAIL A, SHEET ESC1.1 OF THE OFF PROPERTY PORTION REMEDIAL ACTION PLAN FOR PHASE 1.

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TRADITIONAL	1,822	18
RESTRICTED ACCESS	VACTOR/HAND TOOLS	340	6

LEGEND:

- 60 EXTG MAJOR CONTOUR (5' INTERVAL)
- 61 EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- PL LOT LINE
- EXTG FENCE
- X PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- INLET PROTECTION
- EXTG ASPHALT SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS

PERMIT DOCUMENT

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PORT OF RIDGEFIELD WASHINGTON

DOUGLAS CARSON WILLIAMS
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OFF-PROPERTY PORTION
REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

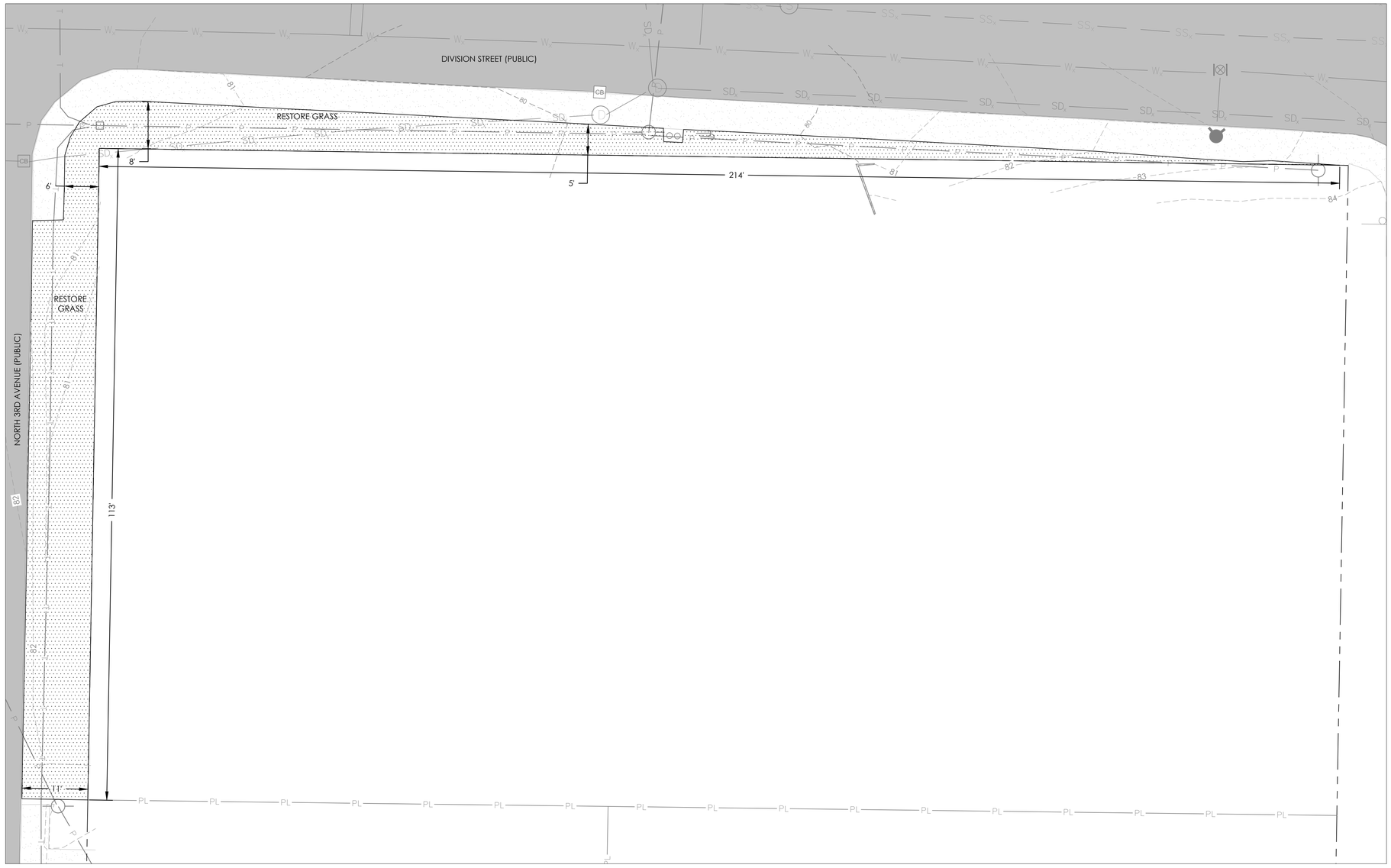
PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT

SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

SHEET TITLE
ROW 063 EXISTING CONDITIONS AND REMEDIATION PLAN

SHEET
C63.1A

PLOTTED ON: 2025-09-03 12:07 PM PLOTTED BY: Alfredo Aguirre FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\Off-Property Portion Remedial Action Phase 2\C63.1 ROW 063 REMEDIATION AND RESTORATION PLAN.dwg



RESTORATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND RETAINING WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-4 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET, EXCEPT WHERE DEPICTED OTHERWISE. RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TOPSOIL	1,822	18
SOIL REMOVAL - RESTRICTED ACCESS	TOPSOIL	340	6

LEGEND:

- 60 — EXTG MAJOR CONTOUR (5' INTERVAL)
- 61 — EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- PL — LOT LINE
- EXTG FENCE
- X — PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- EXTG ASPHALT SURFACE
- EXTG CONC
- NEW TOPSOIL AND HYDROSEEDING

PERMIT DOCUMENT

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PORT OF RIDGEFIELD WASHINGTON

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OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD
RIDGEFIELD, WASHINGTON

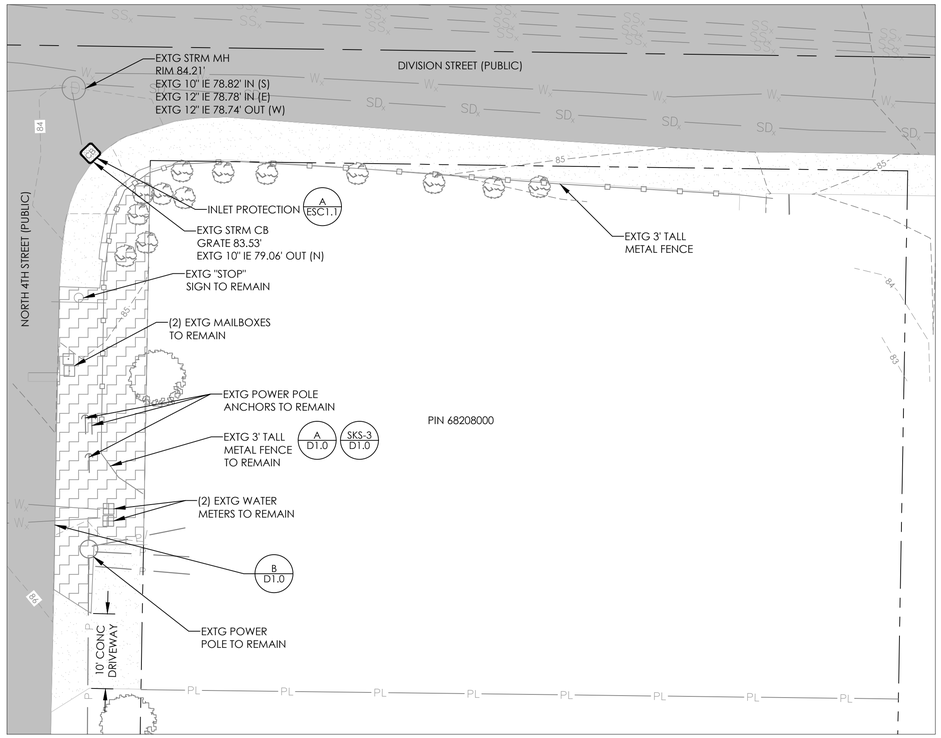
ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

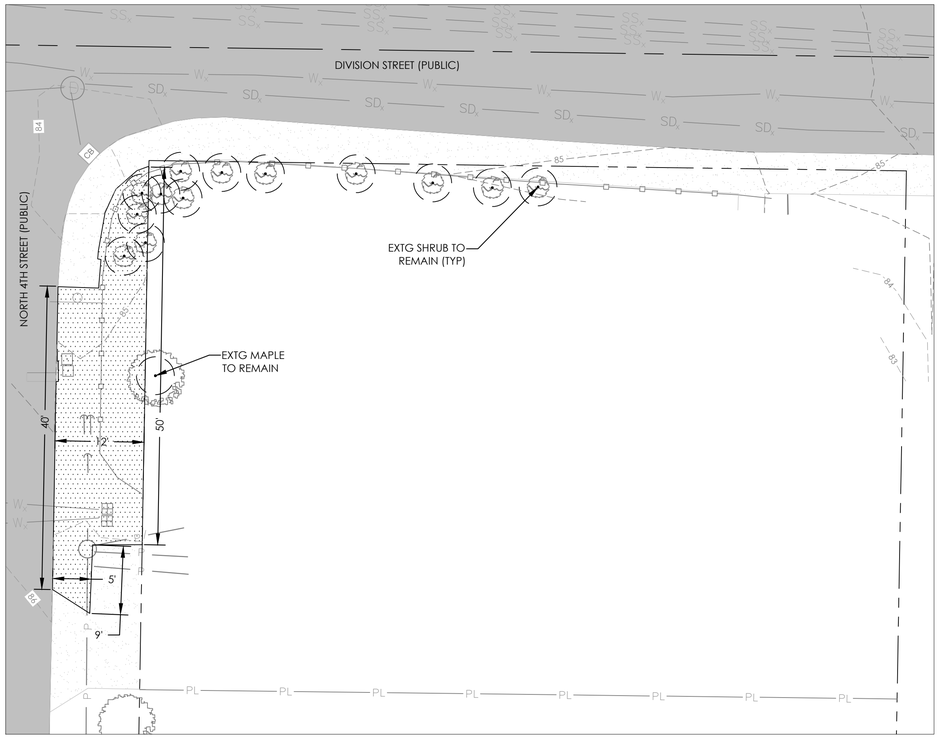
SHEET TITLE
ROW 063
RESTORATION PLAN

SHEET
C63.1B

PLOTTED ON: 2025-09-03 12:02 PM PLOTTED BY: Alfredo Aguirre FILENAME: G:\PROJECTS\M9003.01.061 Port of Ridgefield Off-Property\PLANS\Off-Property Portion Remedial Action Phase 2\C63.1 ROW 063 REMEDIATION AND RESTORATION PLAN.dwg



EXISTING CONDITIONS AND REMEDIATION PLAN



RESTORATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND RETAINING WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-4 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET, EXCEPT WHERE DEPICTED OTHERWISE. RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC.
4. INSTALL INLET PROTECTION PER DETAIL A, SHEET ESC1.1 OF THE OFF PROPERTY PORTION REMEDIAL ACTION PLAN FOR PHASE 1.

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TRADITIONAL	0	12
RESTRICTED ACCESS	VACTOR/HAND TOOLS	520	6

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TOPSOIL	0	12
SOIL REMOVAL - RESTRICTED ACCESS	TOPSOIL	520	6

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.

LEGEND:

- EXTG MAJOR CONTOUR (5' INTERVAL)
- EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- LOT LINE
- EXTG FENCE
- PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- INLET PROTECTION
- EXTG ASPHALT SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW TOPSOIL AND HYDROSEEDING

PERMIT DOCUMENT

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DOUGLAS CARSON WILLIAMS
STATE OF WASHINGTON
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OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

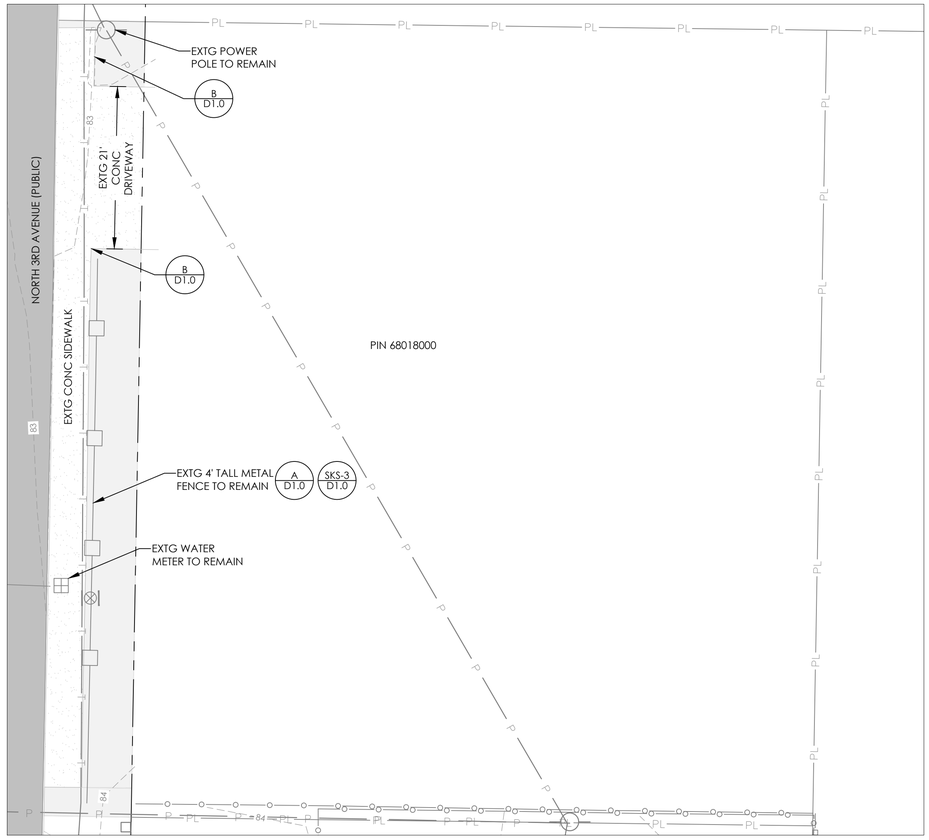
SHEET TITLE

ROW 064 REMEDIATION AND RESTORATION PLAN

SHEET

C64.1

PLOTTED ON: 2025-09-03 12:14 PM PLOTTED BY: Alfredo Aguirre FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\Off-Property Portion Remedial Action Phase 2\C64.1 ROW 064 REMEDIATION AND RESTORATION PLAN.dwg



EXISTING CONDITIONS AND REMEDIATION PLAN

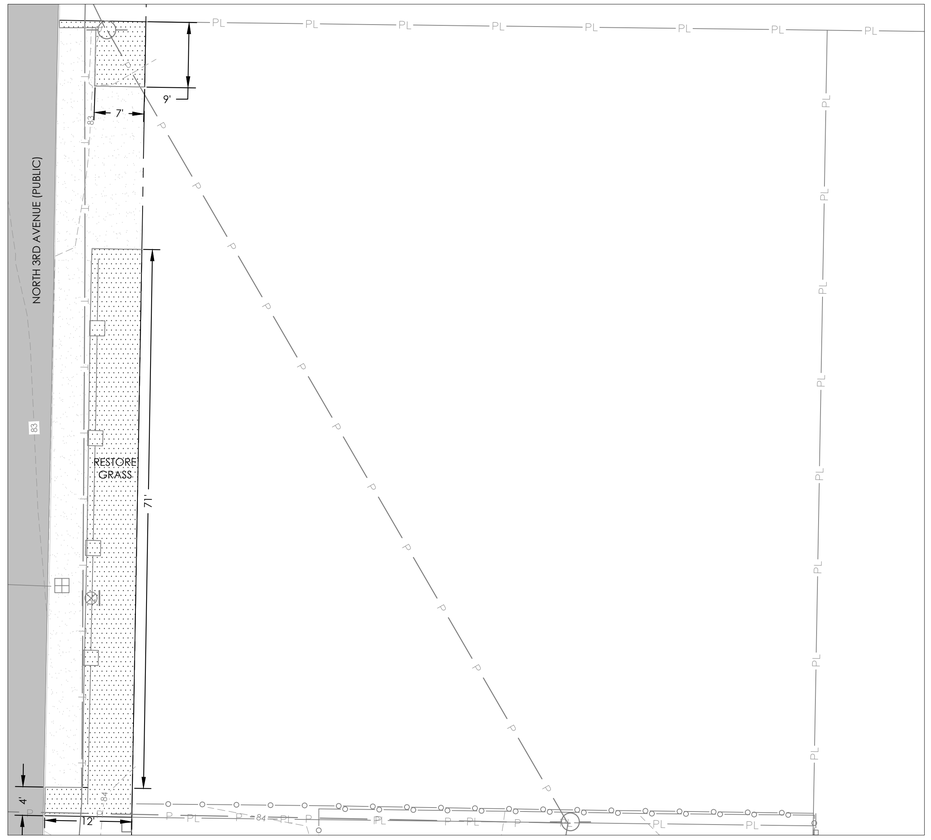
NOTES:

1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND BASEMENT WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-4 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET. EXCEPT WHERE DEPICTED OTHERWISE, RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC.

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TRADITIONAL	575	12

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TOPSOIL	575	12

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.



RESTORATION PLAN

LEGEND:

- EXTG MAJOR CONTOUR (5' INTERVAL)
- EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- LOT LINE
- EXTG FENCE
- PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- EXTG ASPHALT SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW TOPSOIL AND HYDROSEEDING

PERMIT DOCUMENT

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OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD
RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE

0 10' 20'

NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

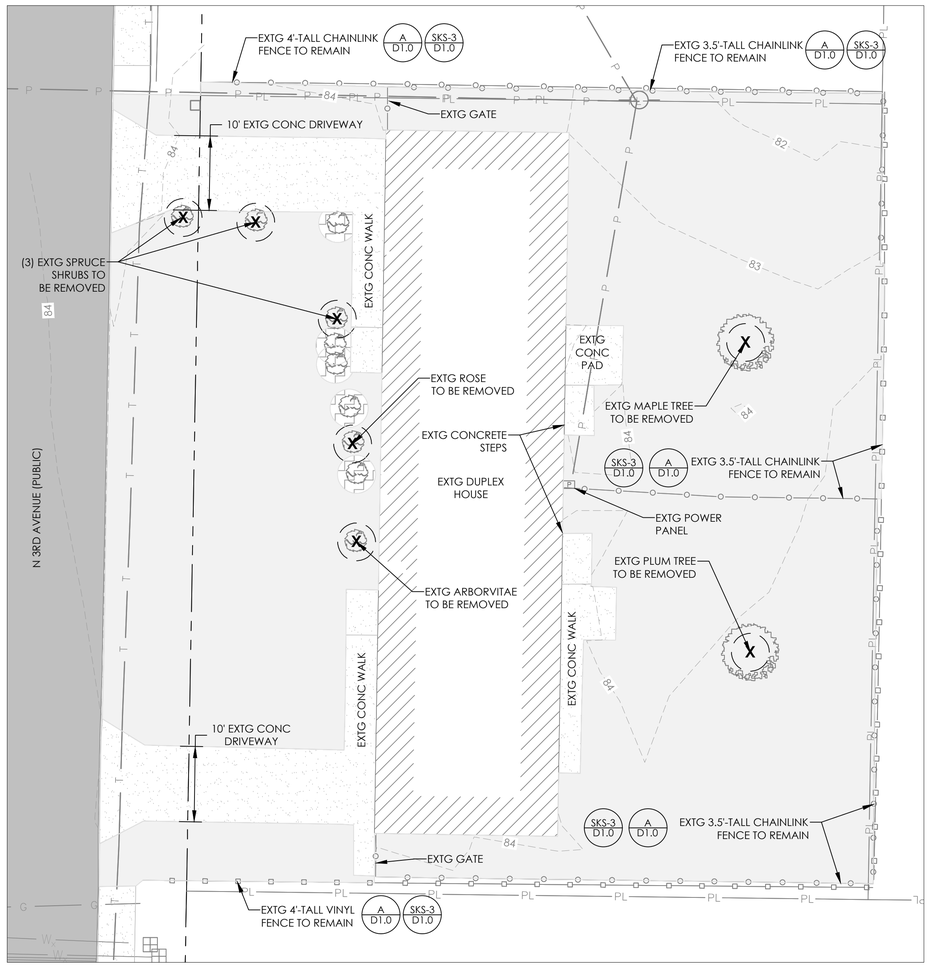
SHEET TITLE

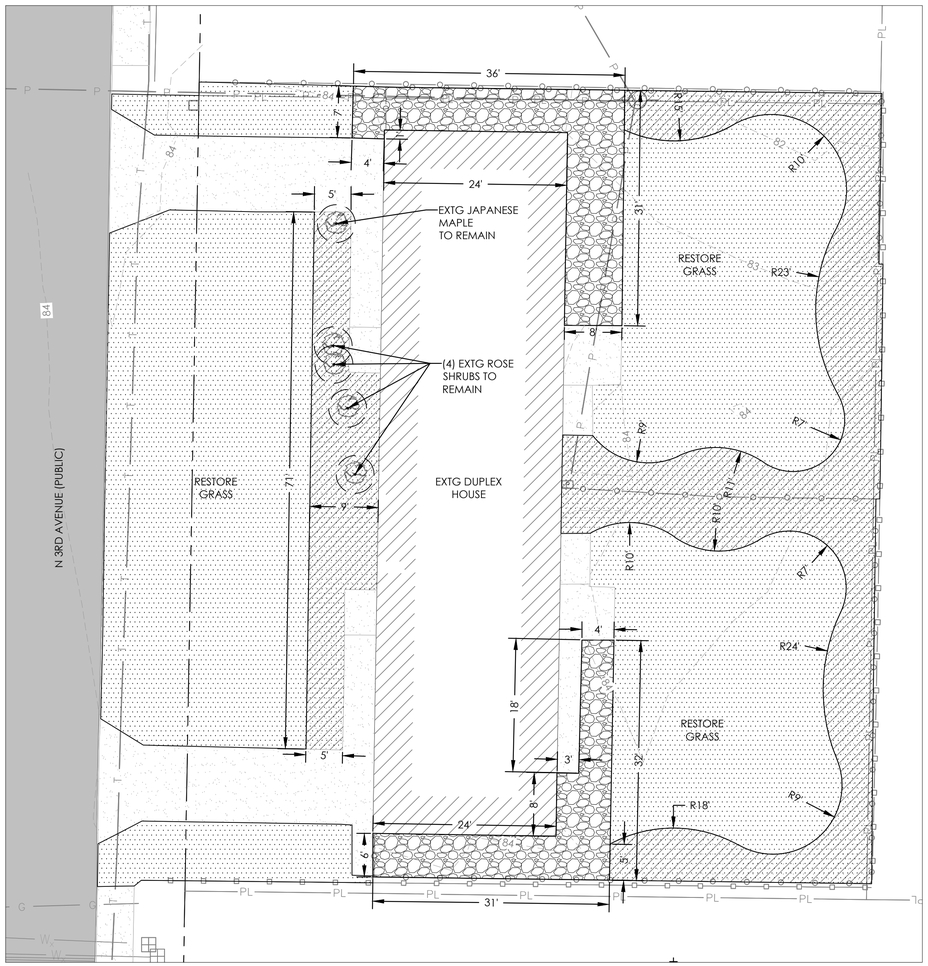
ROW 065 REMEDIATION AND RESTORATION PLAN

SHEET

C65.1

PLOTTED ON: 2025-09-03 12:27 PM PLOTTED BY: Alfredo Aguirre FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\Off-Property Portion Remedial Action Phase 2\C65.1 ROW 065 REMEDIATION AND RESTORATION PLAN.dwg





EXISTING CONDITIONS AND REMEDIATION PLAN

RESTORATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND BASEMENT WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-2 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET, EXCEPT WHERE DEPICTED OTHERWISE. RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. PLASTIC EDGING WILL BE PROVIDED AROUND GARDEN BEDS, GRAVEL PATHS/PADS, AND AREAS OF MULCH.
4. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC
5. THE CONTRACTOR SHALL INSTALL WEED BARRIER UNDER ALL PLANTER BEDS.

PROPERTY INFORMATION			
PROPERTY NUMBER	TAX PARCEL NUMBER	ADDRESS	OWNER
066	68017000	330 N 3RD AVE, RIDGEFIELD, WA 98642	JUDY A. HINES & BRANDOLYN NICOLE HINES

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TRADITIONAL	7,154	12
RESTRICTED ACCESS	VACTOR/HAND TOOLS	85	6

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TOPSOIL	6,440	12
SOIL REMOVAL - RESTRICTED ACCESS	TOPSOIL	85	6
GRAVEL WALKWAY	TOPSOIL	714	8
GRAVEL WALKWAY	GRAVEL SURFACING	714	4
ON PROPERTY	MULCHED PLANTER BED	1,763	2

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.

LEGEND:

- EXTG MAJOR CONTOUR (5' INTERVAL)
- EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- LOT LINE
- EXTG FENCE
- PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- EXTG ASPHALT SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW MULCHED BEDS W/ PLANTS
- NEW GRAVEL PATH
- NEW TOPSOIL

PERMIT DOCUMENT

MAUL FOSTER ALONGI
330 EAST MILL PLAIN BLVD, SUITE 405
VANCOUVER, WA 98660
360.694.2691
www.maulfoster.com

PORT OF RIDGEFIELD WASHINGTON

DONALD CARSON WILLIAMS — STATE OF WASHINGTON — 50320 — REGISTERED PROFESSIONAL ENGINEER

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11-06-2025

OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD
RIDGEFIELD, WASHINGTON

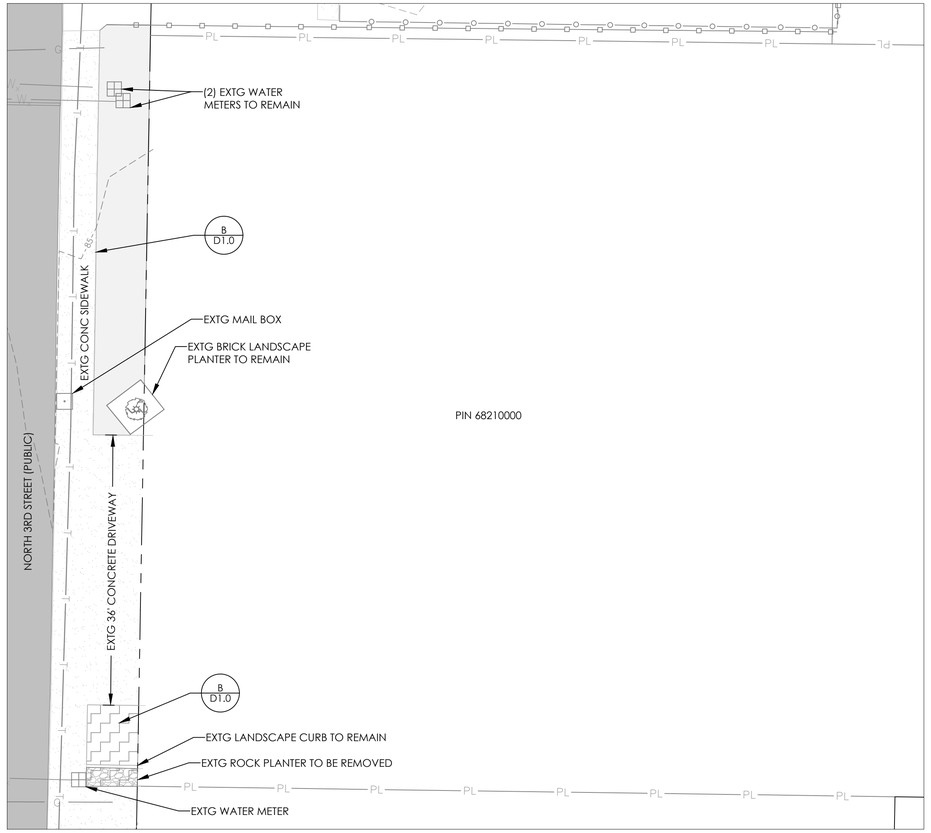
ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

SHEET TITLE
PROPERTY 066 REMEDIATION & RESTORATION PLAN

SHEET
C66.1

PLOTTED ON: 2025-06-19 11:15 AM PLOTTED BY: Aidan Tronnes FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\Off-Property Portion (Remedial Action Phase 2)\C66.1 PROP 066 REMEDIATION AND RESTORATION PLAN.dwg



EXISTING CONDITIONS AND REMEDIATION PLAN

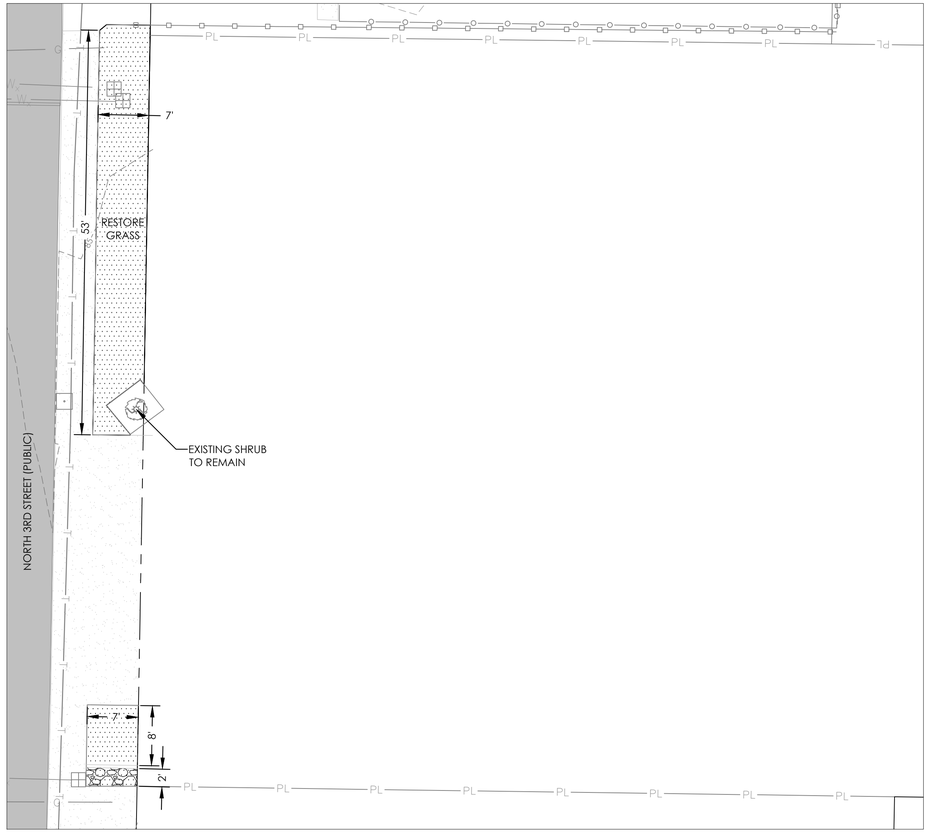
NOTES:

1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND BASEMENT WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-2 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET. EXCEPT WHERE DEPICTED OTHERWISE, RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. PLASTIC EDGING WILL BE PROVIDED AROUND GARDEN BEDS, GRAVEL PATHS/PADS, AND AREAS OF MULCH.
4. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC
5. THE CONTRACTOR SHALL INSTALL WEED BARRIER UNDER ALL PLANTER BEDS.

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TRADITIONAL	340	12
RESTRICTED ACCESS	VACTOR/HAND TOOLS	70	6

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TOPSOIL	340	12
SOIL REMOVAL - RESTRICTED ACCESS	TOPSOIL	54	6
GRAVEL WALKWAY - RESTRICTED ACCESS	TOPSOIL	16	2
GRAVEL WALKWAY	GRAVEL SURFACING	16	4

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.



RESTORATION PLAN

LEGEND:

- EXTG MAJOR CONTOUR (5' INTERVAL)
- EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- LOT LINE
- EXTG FENCE
- PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- EXTG ASPHALT SURFACE
- EXTG GRAVEL SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW TOPSOIL AND HYDROSEEDING
- NEW GRAVEL PATH

PERMIT DOCUMENT

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330 EAST MILL PLAIN BLVD, SUITE 405
VANCOUVER, WA 98660
360.694.2691
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PORT OF RIDGEFIELD WASHINGTON

DOUGLAS CARSON WILLIAMS — STATE OF WASHINGTON — 50320 — REGISTERED PROFESSIONAL ENGINEER

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OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
A.	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT

SCALE

0 10' 20'

NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

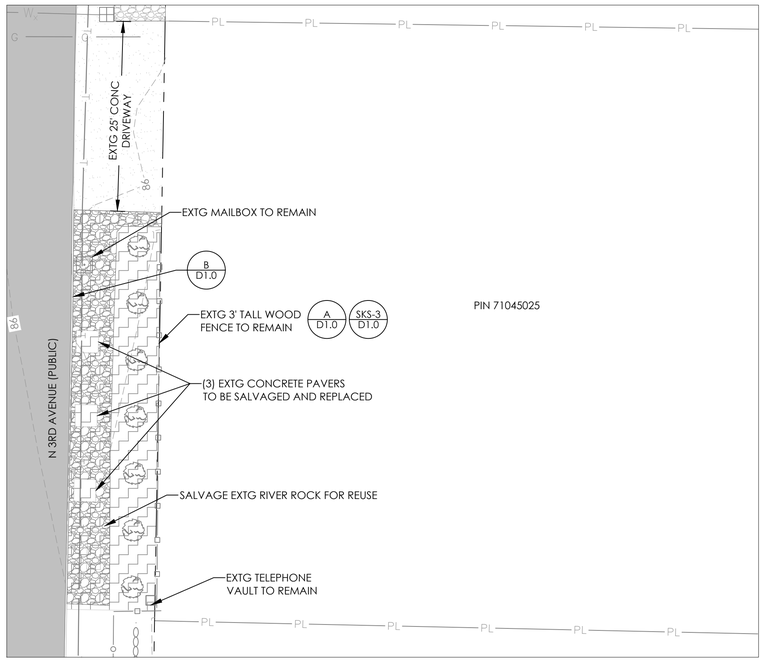
SHEET TITLE

C68.1 ROW 068 REMEDIATION & RESTORATION PLAN

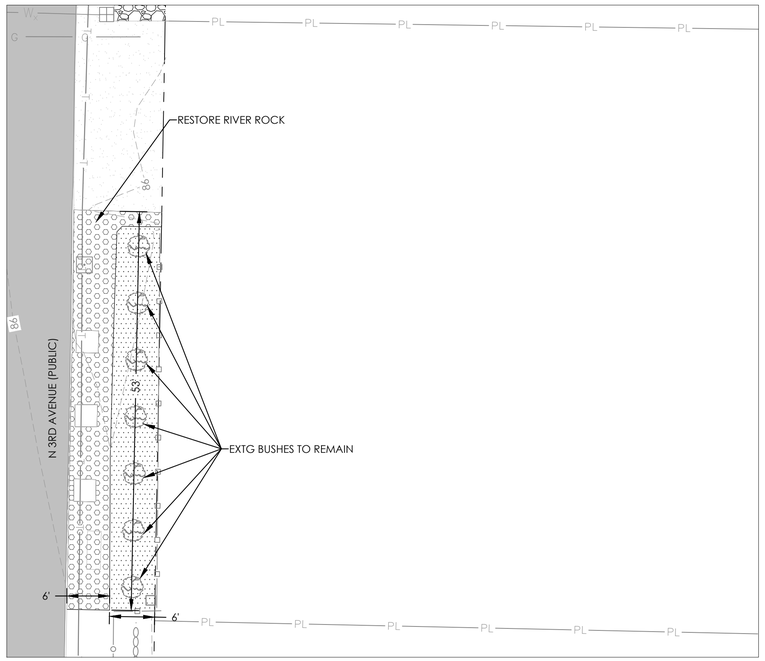
SHEET

C68.1

PLOTTED DIN: 2025-09-03 12:39 PM PLOTTED BY: Alfredo Aguirre FILENAME: G:\PROJECTS\M9003.01 Port of Ridgefield Off-Property\PLANS\Off-Property Portion Remedial Action Phase 2\C68.1 ROW 068 REMEDIATION AND RESTORATION PLAN.dwg



EXISTING CONDITIONS AND REMEDIATION PLAN



RESTORATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND BASEMENT WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-2 ON SHEET D1.0 OF THE OFF PROPERTY PORTION REMEDIAL ACTION PLAN FOR PHASE 1.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET, EXCEPT WHERE DEPICTED OTHERWISE. RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. PLASTIC EDGING WILL BE PROVIDED AROUND GARDEN BEDS, GRAVEL PATHS/PADS, AND AREAS OF MULCH.
4. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC
5. THE CONTRACTOR SHALL INSTALL WEED BARRIER UNDER ALL PLANTER BEDS.

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
RESTRICTED ACCESS	VACTOR/HAND TOOLS	608	6

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TOPSOIL	334	6
GRAVEL AREA	GRAVEL SURFACING	274	6

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.

LEGEND:

- 60 — EXTG MAJOR CONTOUR (5' INTERVAL)
- 61 — EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- PL — LOT LINE
- EXTG FENCE
- X — PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- EXTG ASPHALT SURFACE
- EXTG GRAVEL SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW GRAVEL
- NEW TOPSOIL AND HYDROSEEDING

PERMIT DOCUMENT

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PORT OF RIDGEFIELD WASHINGTON

DOUGLAS CARSON THOMPSON
STATE OF WASHINGTON
50320
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OFF-PROPERTY PORTION REMEDIAL ACTION PLAN

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
A	11/05/2025	GRADING PERMIT REVISION

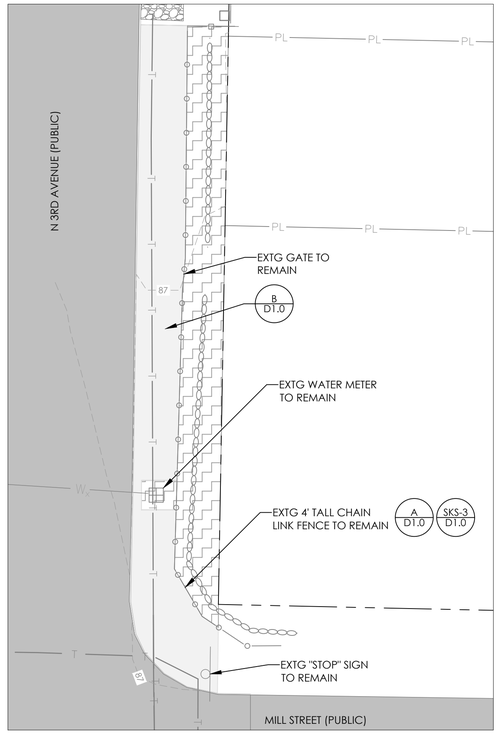
PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT

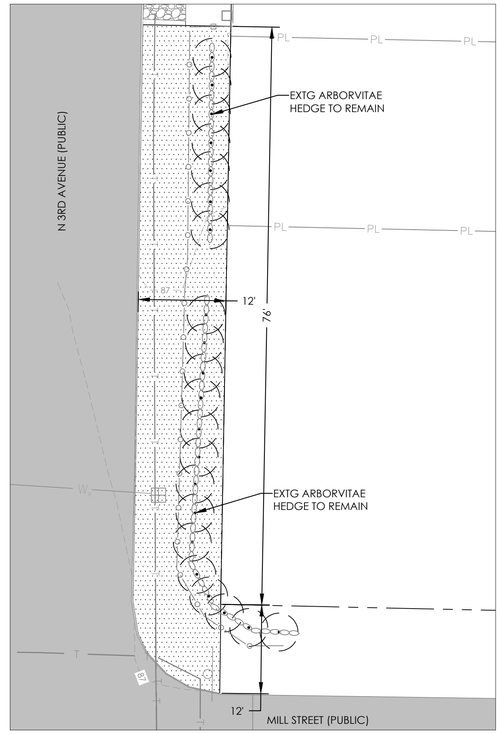
SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

SHEET TITLE
ROW 071 REMEDIATION & RESTORATION PLAN

SHEET
C71.1

PLOTTED ON: 2025-11-05 4:52 PM PLOTTED BY: Alfredo Aguirre FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off Property\PLANS\Combined Set\C71.1 ROW 071 REMEDIATION AND RESTORATION PLAN.dwg





EXISTING CONDITIONS AND REMEDIATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND BASEMENT WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-2 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET, EXCEPT WHERE DEPICTED OTHERWISE, RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TRADITIONAL	550	12
RESTRICTED ACCESS	VACTOR/HAND TOOLS	438	6

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TOPSOIL	550	12
SOIL REMOVAL - RESTRICTED ACCESS	TOPSOIL	438	6

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.

RESTORATION PLAN

LEGEND:

- 60 — EXTG MAJOR CONTOUR (5' INTERVAL)
- 61 — EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- PL — LOT LINE
- EXTG FENCE
- X — PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- EXTG ASPHALT SURFACE
- EXTG GRAVEL SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW TOPSOIL AND HYDROSEEDING

PERMIT DOCUMENT

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PORT OF RIDGEFIELD WASHINGTON

DOUGLAS CARSON WILLIAMS — STATE OF WASHINGTON — 50320 — REGISTERED PROFESSIONAL ENGINEER

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11-06-2025

OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD
RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
A	11/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE

0 10' 20'

NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

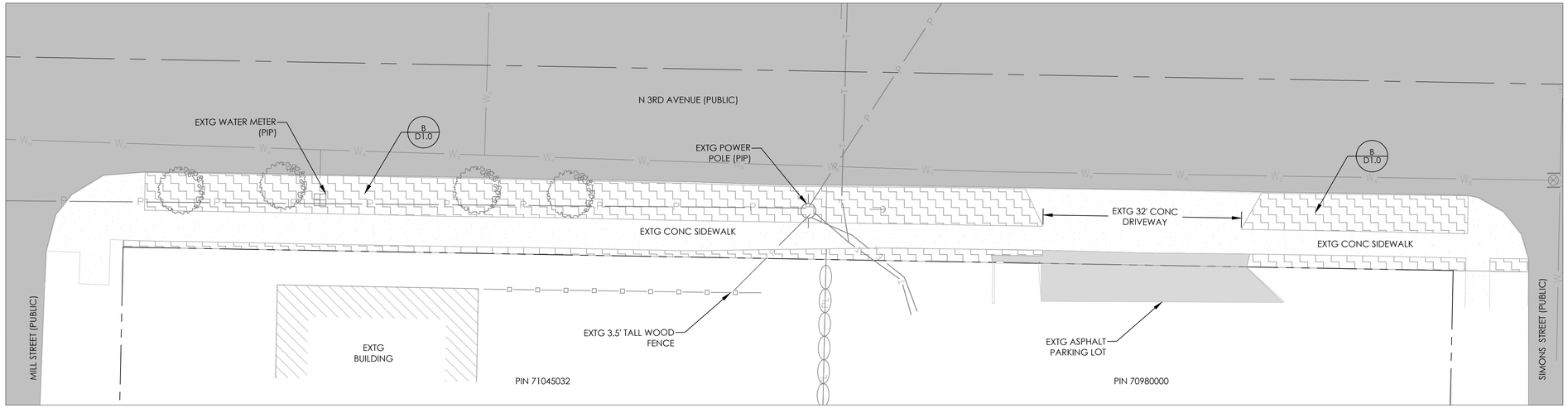
SHEET TITLE

ROW 073 REMEDIATION & RESTORATION PLAN

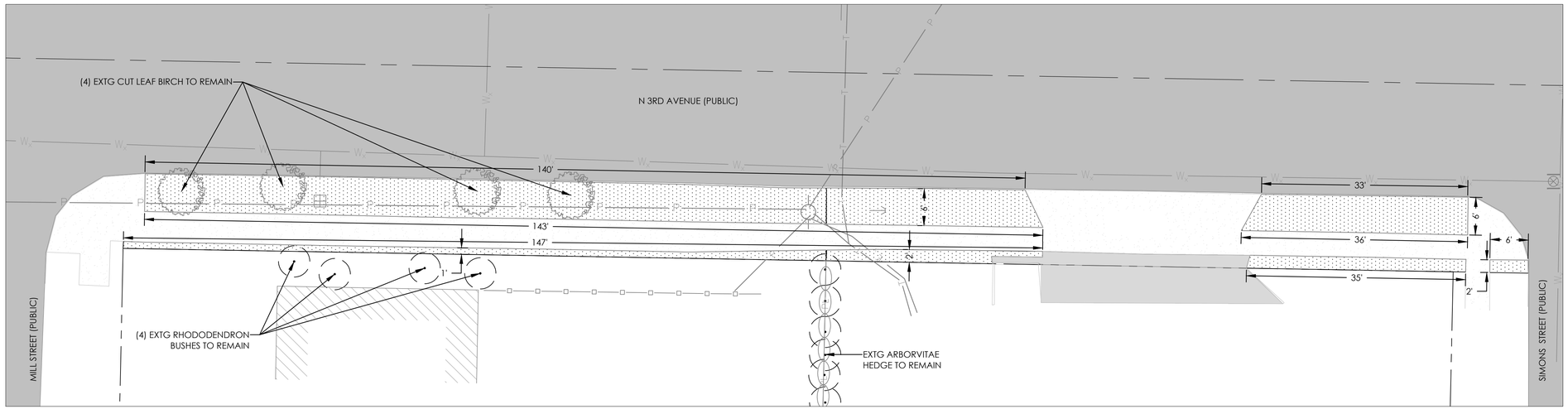
SHEET

C73.1

PLOTTED ON: 2025-08-29 1:13 PM PLOTTED BY: Sean Trohlinger FILENAME: \\sm1s001.file.core.windows.net\cad\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\Off-Property Portion Remedial Action Phase 2\C73.1 ROW 073 REMEDIATION AND RESTORATION PLAN.dwg



EXISTING CONDITIONS AND REMEDIATION PLAN



RESTORATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND BASEMENT WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-2 ON SHEET D1.0 OF THE OFF PROPERTY PORTION REMEDIAL ACTION PLAN FOR PHASE 1.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET, EXCEPT WHERE DEPICTED OTHERWISE. RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
RESTRICTED ACCESS	VACTOR/HAND TOOLS	1,315	6

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL - RESTRICTED ACCESS	TOPSOIL	1,315	6

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.

LEGEND:

- 60 — EXTG MAJOR CONTOUR (5' INTERVAL)
- 61 — EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- PL — LOT LINE
- EXTG FENCE
- X — PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- EXTG ASPHALT SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW TOPSOIL AND HYDROSEEDING

PERMIT DOCUMENT

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VANCOUVER, WA 98660
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PORT OF RIDGEFIELD WASHINGTON

DOUGLAS CARSON ELLIOTT
STATE OF WASHINGTON
50320
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PROFESSIONAL ENGINEER

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OFF-PROPERTY PORTION REMEDIAL ACTION PLAN

PORT OF RIDGEFIELD
RIDGEFIELD, WASHINGTON

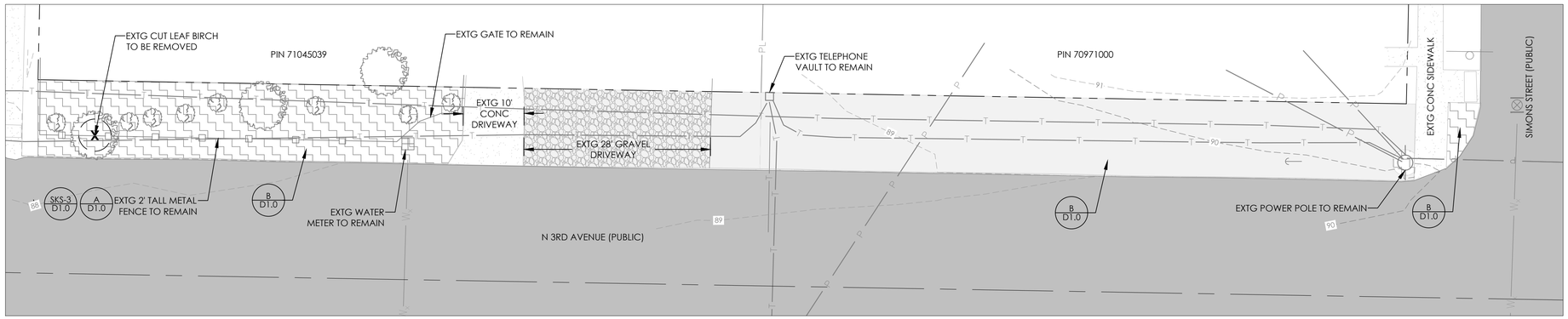
ISSUE	DATE	DESCRIPTION
A	11/18/2025	GRADING PERMIT REVISION

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

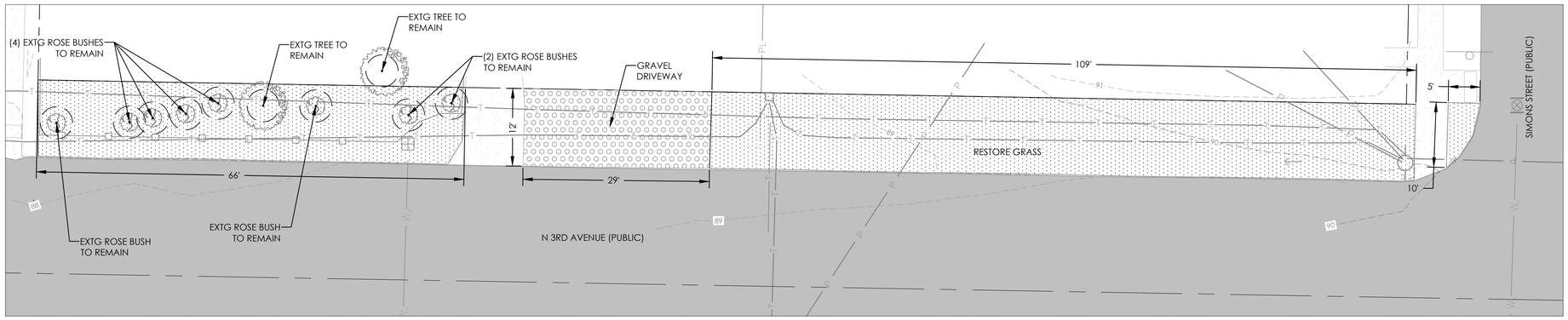
SHEET TITLE
ROW 075 & 094 REMEDIATION & RESTORATION PLAN

SHEET
C75.1

PLOTTED ON: 2025-11-18 10:57 AM PLOTTED BY: Alfredo Aguirre FILENAME: G:\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\VFLA\MS\Combined Set\C75.1 ROW 075 & 094 REMEDIATION AND RESTORATION PLAN.dwg



EXISTING CONDITIONS AND REMEDIATION PLAN



RESTORATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND RETAINING WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-4 ON SHEET D1.0 D1.0 OF THE OFF PROPERTY PORTION REMEDIAL ACTION PLAN FOR PHASE 1.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET. EXCEPT WHERE DEPICTED OTHERWISE, RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. PLASTIC EDGING WILL BE PROVIDED AROUND GARDEN BEDS, GRAVEL PATHS/PADS, AND AREAS OF MULCH.
4. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC
5. THE CONTRACTOR SHALL INSTALL WEED BARRIER UNDER ALL PLANTER BEDS.

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TRADITIONAL	1,631	12
RESTRICTED ACCESS	VACTOR/HAND TOOLS	824	6

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL	TOPSOIL	1,285	12
SOIL REMOVAL - RESTRICTED ACCESS	TOPSOIL	824	6
GRAVEL DRIVEWAY	GRAVEL SURFACING	346	12

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.

LEGEND:

- 60 — EXTG MAJOR CONTOUR (5' INTERVAL)
- 61 — EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- PL — LOT LINE
- EXTG FENCE
- X — PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- EXTG ASPHALT SURFACE
- EXTG GRAVEL SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW GRAVEL
- NEW TOPSOIL AND HYDROSEEDING

PERMIT DOCUMENT

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PORT OF RIDGEFIELD WASHINGTON

DOUGLAS CARSON TELLOCK — STATE OF WASHINGTON — 50320 — REGISTERED PROFESSIONAL ENGINEER

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11-06-2025

OFF-PROPERTY PORTION REMEDIAL ACTION PLAN

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
A	11/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOT
SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

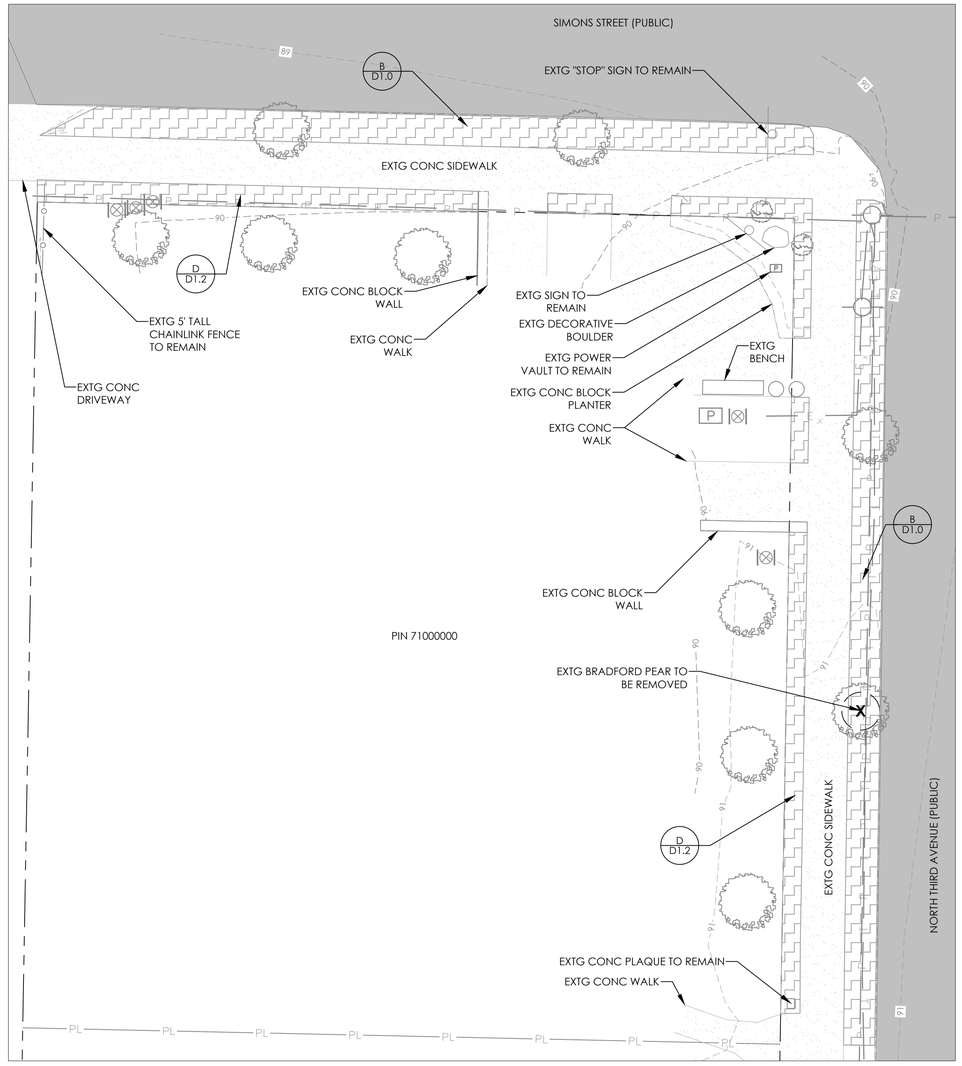
SHEET TITLE

ROW 076 & 077 REMEDIATION AND RESTORATION PLAN

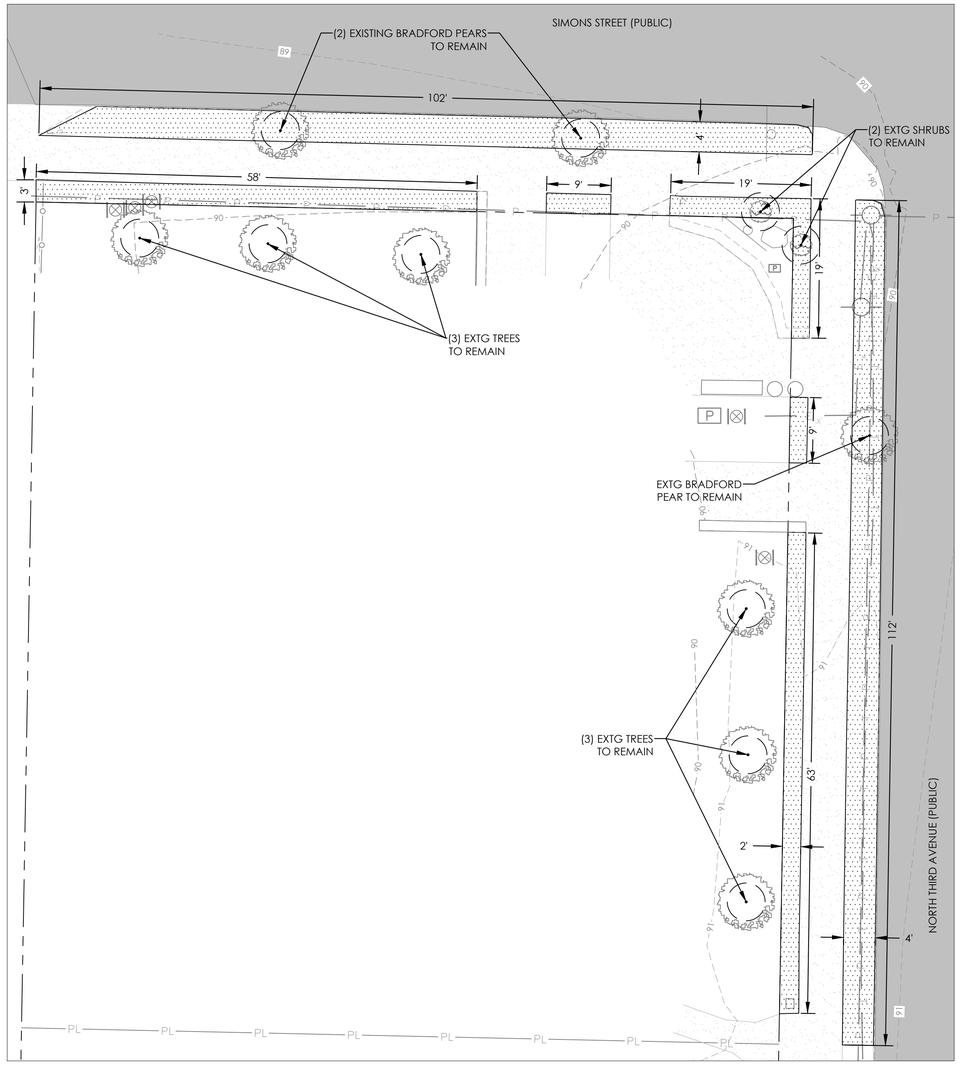
SHEET

C76.1

PLOTTED BY: Sean Yoshalage FILENAME: \\smfs01.file.core.windows.net\vol3\PROJECTS\m9003.01.063 port of ridgefield dft property\PLANS\combined set\C76.1 ROW 076 & 077 REMEDIATION AND RESTORATION PLAN.dwg
PLOTTED ON: 2025-10-20 12:57 PM



EXISTING CONDITIONS AND REMEDIATION PLAN



RESTORATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND RETAINING WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-4 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET. EXCEPT WHERE DEPICTED OTHERWISE, RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
RESTRICTED ACCESS	VACTOR/HAND TOOLS	1,292	6

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL - RESTRICTED ACCESS	TOPSOIL	1,292	6

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.

LEGEND:

- 60 — EXTG MAJOR CONTOUR (5' INTERVAL)
- 61 — EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- PL — LOT LINE
- EXTG FENCE
- X — PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- EXTG ASPHALT SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW TOPSOIL AND HYDROSEEDING

PERMIT DOCUMENT

MAUL FOSTER ALONGI
330 EAST MILL PLAIN BLVD, SUITE 405
VANCOUVER, WA 98660
360.694.2691
www.maulfoster.com

PORT OF RIDGEFIELD WASHINGTON

DOUGLAS CARSON WILLIAMS — STATE OF WASHINGTON — 50320 — REGISTERED PROFESSIONAL ENGINEER

This digital seal certifies the signatory and document content.

11-06-2025

OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD
RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT
SCALE

0 10' 20'

NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

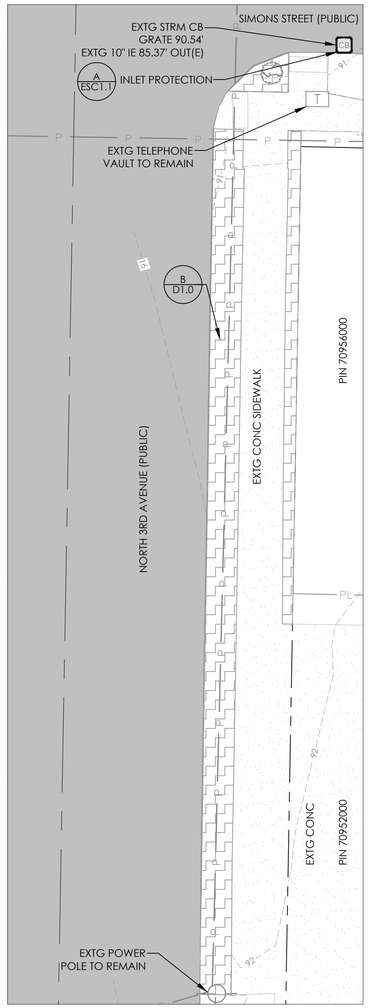
SHEET TITLE

ROW 095 REMEDIATION AND RESTORATION PLAN

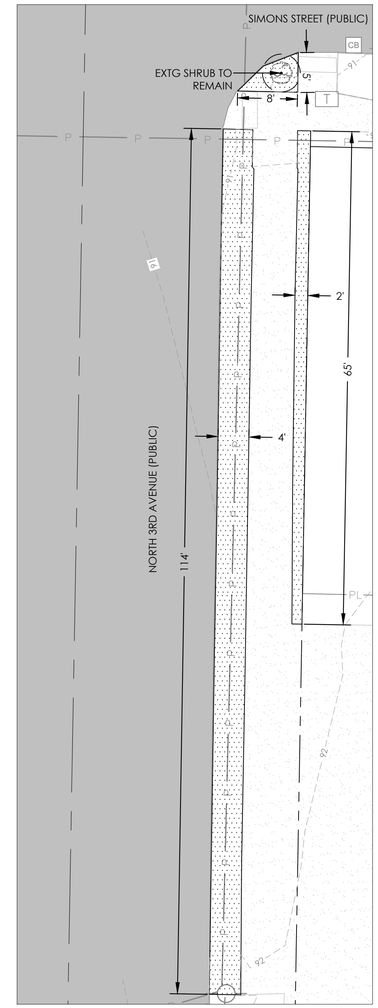
SHEET

C95.1

PLOTTED ON: 2025-09-29 1:15 PM PLOTTED BY: Jason Yoshihiga FILENAME: \\sttnt001.file.core.windows.net\cad\PROJECTS\M9003.01.061 Port of Ridgefield Off-Property\PLANS\Off-Property Portion Remedial Action Phase 2\C95.1 ROW 095 REMEDIATION AND RESTORATION PLAN.dwg



EXISTING CONDITIONS AND REMEDIATION PLAN



RESTORATION PLAN

NOTES:
1. EXCAVATION ADJACENT TO ALL EXTG BUILDING FOUNDATIONS, PAVEMENTS, SLABS, AND RETAINING WALLS TO BE COMPLETED IN ACCORDANCE WITH DETAILS SKS-1 AND SKS-4 ON SHEET D1.0.
2. REPLACEMENT TOPSOIL DEPTH TO MATCH REMEDIATION DEPTH AS SHOWN IN TABLE THIS SHEET. EXCEPT WHERE DEPICTED OTHERWISE, RESTORATION GRADE IS TO MATCH EXTG GRADE.
3. TOPOGRAPHIC SURVEY, INCLUDING UTILITY LOCATIONS, LOT LINES AND RIGHT-OF-WAYS PROVIDED BY MINISTER & GLAESAR SURVEYING, INC.
4. INSTALL INLET PROTECTION PER DETAIL A, SHEET ESC1.1 OF THE OFF PROPERTY PORTION REMEDIAL ACTION PLAN FOR PHASE 1.

REMEDIAL EXCAVATION QUANTITIES			
REMEDIAL AREA	EXCAVATION METHOD	AREA (SQ. FT.)	DEPTH (INCHES)
RESTRICTED ACCESS	VACTOR/HAND TOOLS	592	6

RESTORATION QUANTITIES			
REMEDIAL AREA	RESTORATION	AREA (SQ. FT.)	DEPTH (INCHES)
SOIL REMOVAL - RESTRICTED ACCESS	TOPSOIL	592	6

NOTE: RESTORATION AREAS EQUAL TO REMEDIAL AREAS UNLESS OTHERWISE SPECIFIED.

LEGEND:

- 60 — EXTG MAJOR CONTOUR (5' INTERVAL)
- 61 — EXTG MINOR CONTOUR (1' INTERVAL)
- RIGHT OF WAY LINE
- PL — LOT LINE
- EXTG FENCE
- X — PLANT TO BE REMOVED BY CONTRACTOR
- PLANT TO REMAIN
- INLET PROTECTION
- EXTG ASPHALT SURFACE
- EXTG CONC
- SOIL REMOVAL AREA
- SOIL REMOVAL AREA - RESTRICTED ACCESS
- NEW TOPSOIL AND HYDROSEEDING

PERMIT DOCUMENT

MAUL FOSTER ALONGI
330 EAST MILL PLAIN BLVD, SUITE 405
VANCOUVER, WA 98660
360.694.2691
www.maulfoster.com

PORT OF RIDGEFIELD WASHINGTON

DOUGLAS CARSON WILLIAMS — STATE OF WASHINGTON — 50320 — REGISTERED PROFESSIONAL ENGINEER

This digital seal certifies the signatory and document content.

11-06-2025

OFF-PROPERTY PORTION REMEDIAL ACTION PLAN PHASE 2

PORT OF RIDGEFIELD

RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
A	09/05/2025	GRADING PERMIT SUBMITTAL

PROJECT: M9003.01.063
DESIGNED: A. AGUIRRE
DRAWN: A. TRONNES
CHECKED: J. ELLIOTT

SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

SHEET TITLE

ROW 096 & 097 REMEDIATION AND RESTORATION PLAN

SHEET

C96.1

PLOTTED BY: Sean Yoshidage FILENAME: \\Urmia01.file.core.windows.net\vol3\PROJECTS\M9003.01.063 Port of Ridgefield Off-Property\PLANS\Off-Property Portion Remedial Action Phase 2\Ch4.1 ROW 096 & 097 REMEDIATION AND RESTORATION PLAN.dwg
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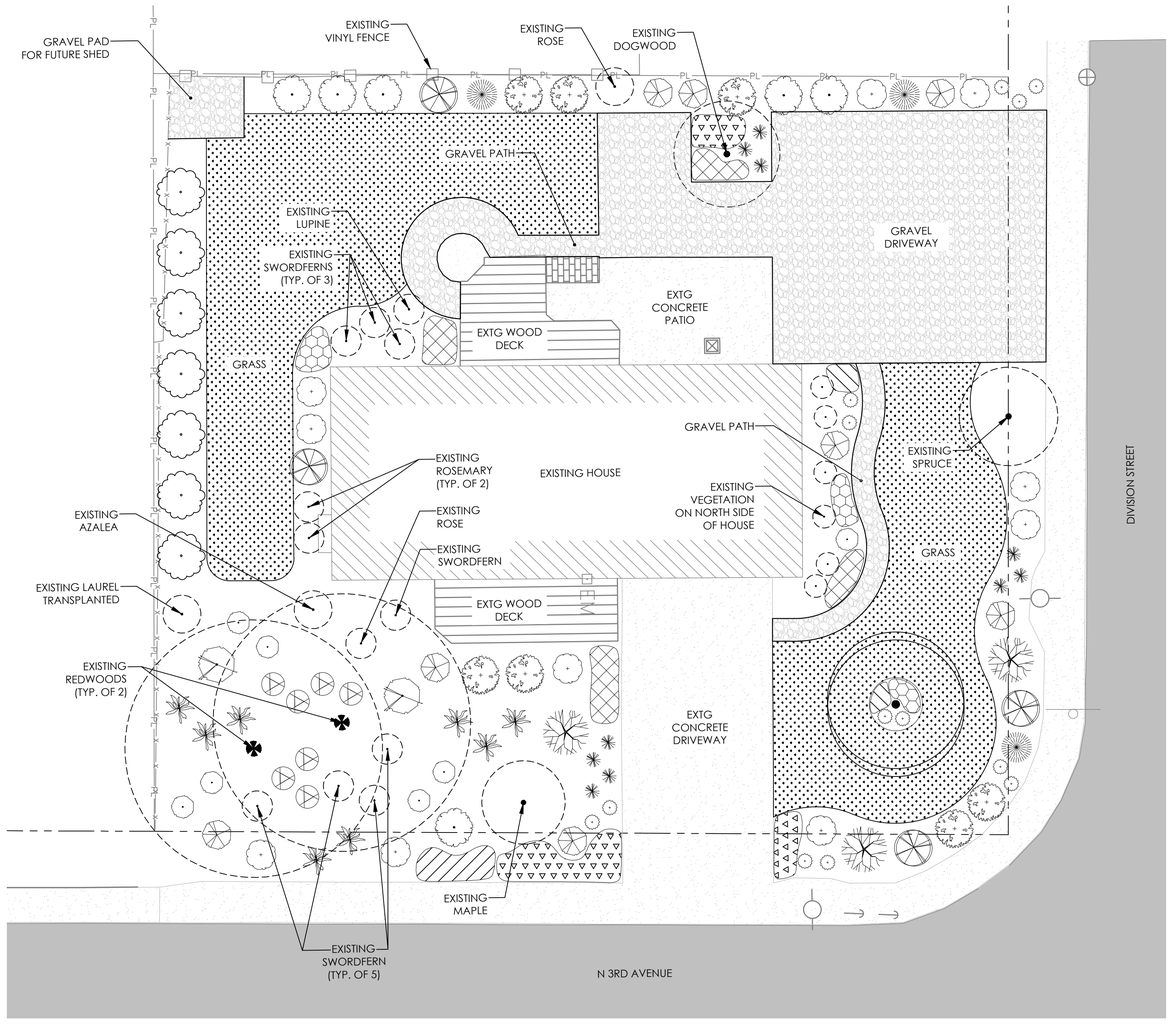

PLANTING PLAN

PLANT MATERIAL LEGEND

SYM	QTY	COMMON NAME
		EXISTING VEGETATION TO REMAIN
	1	DOUBLE WEEPING CHERRY
	7	PORTUGESE LAUREL
	3	HOWARD MCMINN MANZANITA
	7	DARK STAR CEONOTHUS
	6	RED FLOWERING CURRANT
	4	SUNDANCE MEXICAN ORANGE
	2	SPIDER'S WEB JAPANESE ARALIA
	3	TUSCAN BLUE ROSEMARY
	10	PURPLE ROCK ROSE
	8	GOLDFLAME SPIREA
	9	SWORDFERN
	7	CREEPING OREGON GRAPE
	7	GOATS BEARD
	13	AUTUMN FIRE SEDUM
	10	BLUE OAT GRASS
	12	HICOTE ENGLISH LAVENDER
	8	LITHODORA
	7	CANDYTUFT
	12	MASSACHUSETTS KINNIKINNICK
	2,556 SF	GRASS: SEEDED

CONSTRUCTION DOCUMENT

CASCARA
LAND DESIGN
6635 N BALTIMORE AVE, STE 245
PORTLAND, OR 97203
PHONE: 541.517.3200

MAUL FOSTER ALONGI
330 EAST MILL PLAIN BLVD, SUITE 405
VANCOUVER, WA 98660
PHONE: 360.694.2691
www.maulfoster.com

PORT OF RIDGEFIELD WASHINGTON

STATE OF WASHINGTON
CURTIS ALAN RILEY
CERTIFICATE NO. 23373

OFF-PROPERTY PORTION
REMEDIAL ACTION
PORT OF RIDGEFIELD
RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
A	8/2025	HOMEOWNER PLAN SET
B	9/2025	FINAL ENGINEERING PLAN SET

PROJECT: M9003.01.063
DESIGNED: C. RILEY
DRAWN: C. RILEY
CHECKED: C. RILEY
SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

SHEET TITLE
PROPERTY 057
PLANTING PLAN

SHEET
L57.1

PLOTTED BY: Curtis Riley FILENAME: C:\Users\CurtisRiley\OneDrive - Cascara Land Design\Cascara Land Design\00_Projects\0108 Maul Foster Along\0108.21 Ridgfield Yard Cleanup\CAD\PHASE 2 - FINAL PLANTING PLANS\PLANTING PLAN_411 N 3RD AVE.dwg
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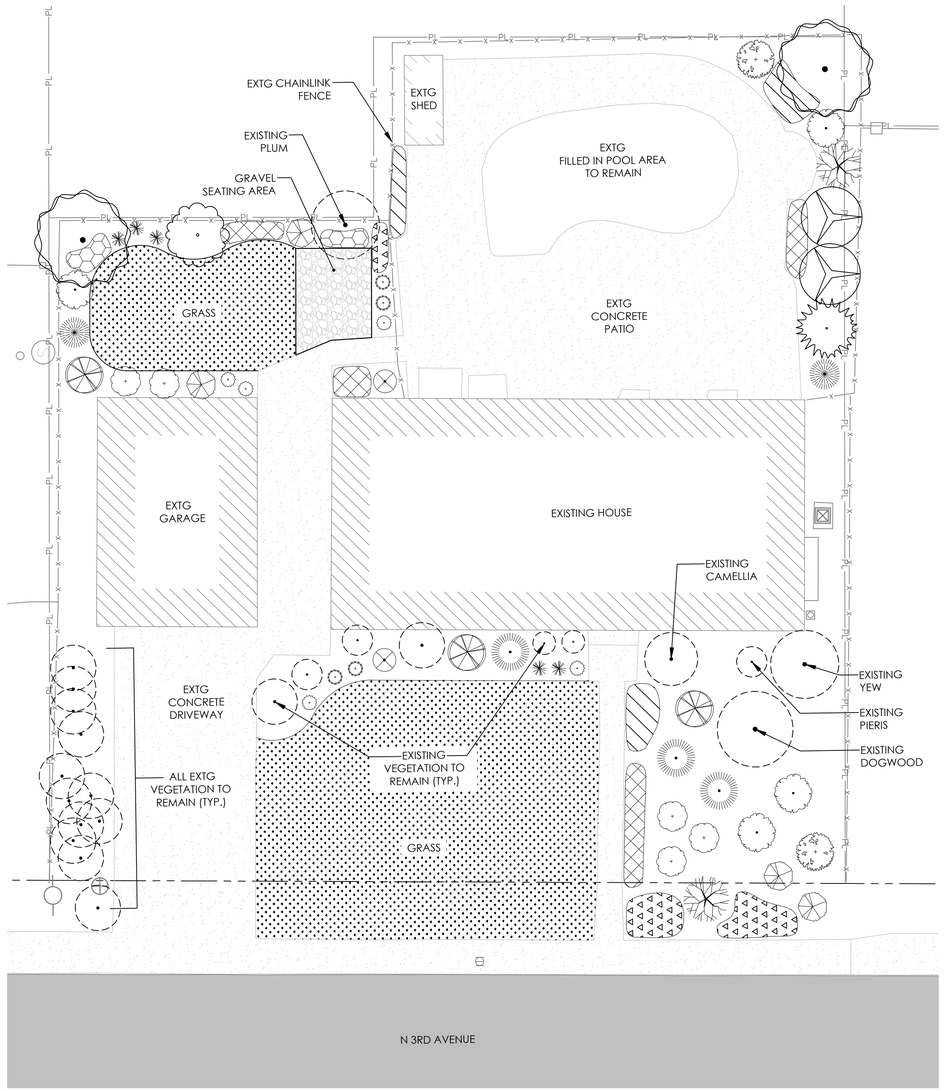


PLANT MATERIAL LEGEND

SYM	QTY	COMMON NAME
		EXISTING VEGETATION TO REMAIN
	2	WESTERN REDBUD
	1	BLUE ICE CYPRESS
	2	DWARF STRAWBERRY TREE
	1	ROYAL PURPLE SMOKE TREE
	2	HOWARD MCMINN MANZANITA
	2	DARK STAR CEONOTHUS
	4	RED FLOWERING CURRANT
	3	SUNDANCE MEXICAN ORANGE
	3	ZEBRA GRASS
	2	TUSCAN BLUE ROSEMARY
	5	PURPLE ROCK ROSE
	4	GOLDFLAME SPIREA
	2	ORANGE ROCKET BARBERRY
	5	AUTUMN FIRE SEDUM
	5	BLUE OAT GRASS
	4	JAPANESE FOREST GRASS
	16	HICOTE ENGLISH LAVENDER
	5	LITHODORA
	11	CANDYTUFT
	11	MASSACHUSETTS KINNIKINNICK
	1,885 SF	GRASS: SEEDED

PLANTING PLAN

CONSTRUCTION DOCUMENT

CASCARA
LAND DESIGN
6635 N BALTIMORE AVE, STE 245
PORTLAND, OR 97203
PHONE: 541.517.3200

MAUL FOSTER ALONGI
330 EAST MILL PLAIN BLVD, SUITE 405
VANCOUVER, WA 98660
PHONE: 360.694.2691
www.maulfoster.com

PORT OF RIDGEFIELD WASHINGTON

STATE OF WASHINGTON
CURTIS A. RILEY
LICENSED LANDSCAPE ARCHITECT
CERTIFICATE NO. 1373

OFF-PROPERTY PORTION
REMEDIAL ACTION
PORT OF RIDGEFIELD
RIDGEFIELD, WASHINGTON

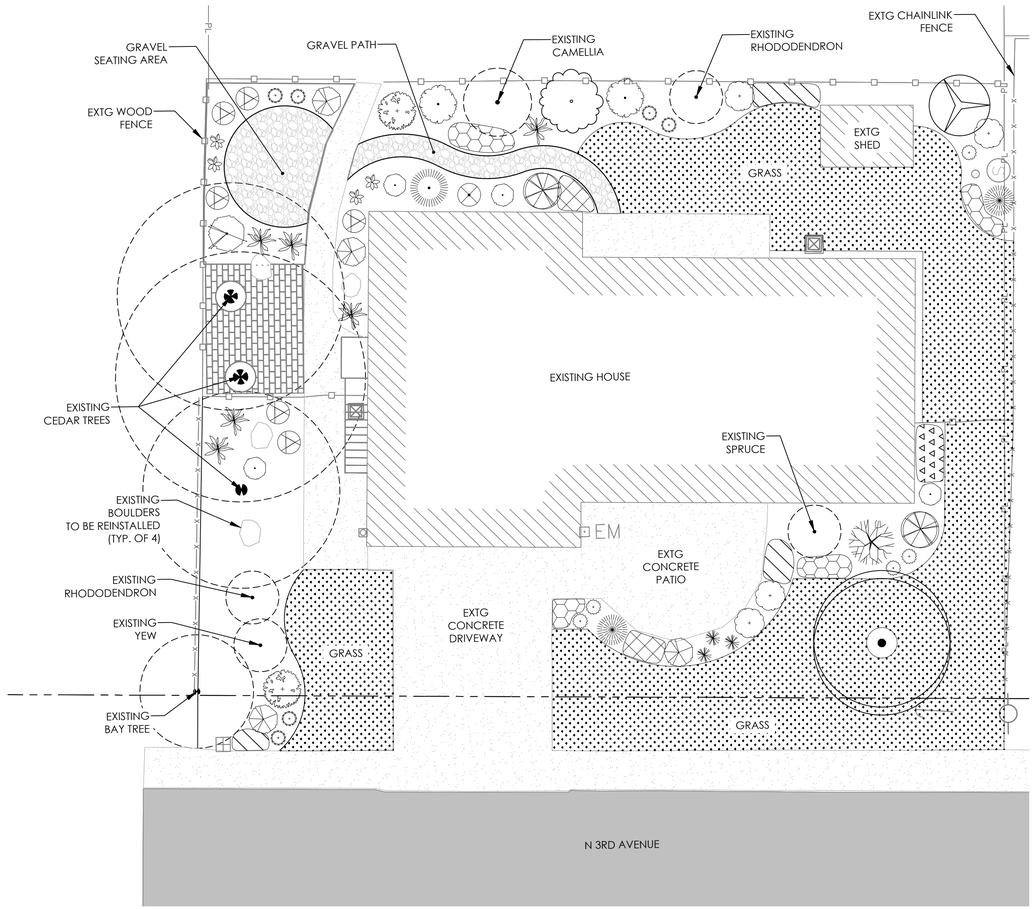
ISSUE	DATE	DESCRIPTION
C	11/2025	FINAL ENGINEERING PLAN SET
B	9/2025	FINAL ENGINEERING PLAN SET
A	8/2025	HOMEOWNER PLAN SET

PROJECT: M9003.01.063
DESIGNED: C. RILEY
DRAWN: C. RILEY
CHECKED: C. RILEY
SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

SHEET TITLE
PROPERTY 059
PLANTING PLAN

SHEET
L59.1

PLOTTED ON: 2025-11-05 12:04 PM PLOTTED BY: Curtis Riley FILENAME: C:\Users\CurtisRiley\OneDrive - Cascara Land Design\Cascara Land Design\00_Projects\10 Maul Foster Along\10108.21 Ridgefield Yard Cleanup\CAD\PHASE 2 - FINAL PLANTING PLANS\PLANTING PLANS.dwg



PLANTING PLAN

PLANT MATERIAL LEGEND

EXISTING VEGETATION TO REMAIN

SYM	QTY	COMMON NAME
	1	DOUBLE WEEPING CHERRY
	2	DWARF STRAWBERRY TREE
	1	ROYAL PURPLE SMOKE TREE
	3	HOWARD MCMINN MANZANITA
	1	DARK STAR CEONOTHUS
	2	RED FLOWERING CURRANT
	2	SUNDANCE MEXICAN ORANGE
	1	SPIDER'S WEB JAPANESE ARALIA
	1	ZEBRA GRASS
	2	TUSCAN BLUE ROSEMARY
	4	PURPLE ROCK ROSE
	4	GOLDFLAME SPIREA
	7	SWORDFERN
	6	CREEPING OREGON GRAPE
	1	ORANGE ROCKET BARBERRY
	4	GOATS BEARD
	5	AUTUMN FIRE SEDUM
	3	BLUE OAT GRASS
	6	JAPANESE FOREST GRASS
	4	EL NINO HOSTA
	6	HICOTE ENGLISH LAVENDER
	14	LITHODORA
	7	CANDYTUFT
	3	MASSACHUSETTS KINNIKINNICK
	2,480 SF	GRASS: SOD

NOTES:

1. ALL LAWN AREAS SHALL INCLUDE AN UNDERGROUND AUTOMATIC IRRIGATION SYSTEM THAT IS DESIGNED AND INSTALLED BY THE CONTRACTOR.

CONSTRUCTION DOCUMENT

CASCARA
LAND DESIGN
6635 N BALTIMORE AVE. STE 245
PORTLAND, OR 97203
PHONE: 541.517.3280

MAUL FOSTER ALONGI
330 EAST MILL PLAIN BLVD, SUITE 405
VANCOUVER, WA 98660
PHONE: 360.694.2691
www.maulfoster.com

PORT OF RIDGEFIELD WASHINGTON

STATE OF WASHINGTON
CURTIS ALAN RILEY
CERTIFICATE NUMBER 23373

OFF-PROPERTY PORTION
REMEDIAL ACTION
PORT OF RIDGEFIELD
RIDGEFIELD, WASHINGTON

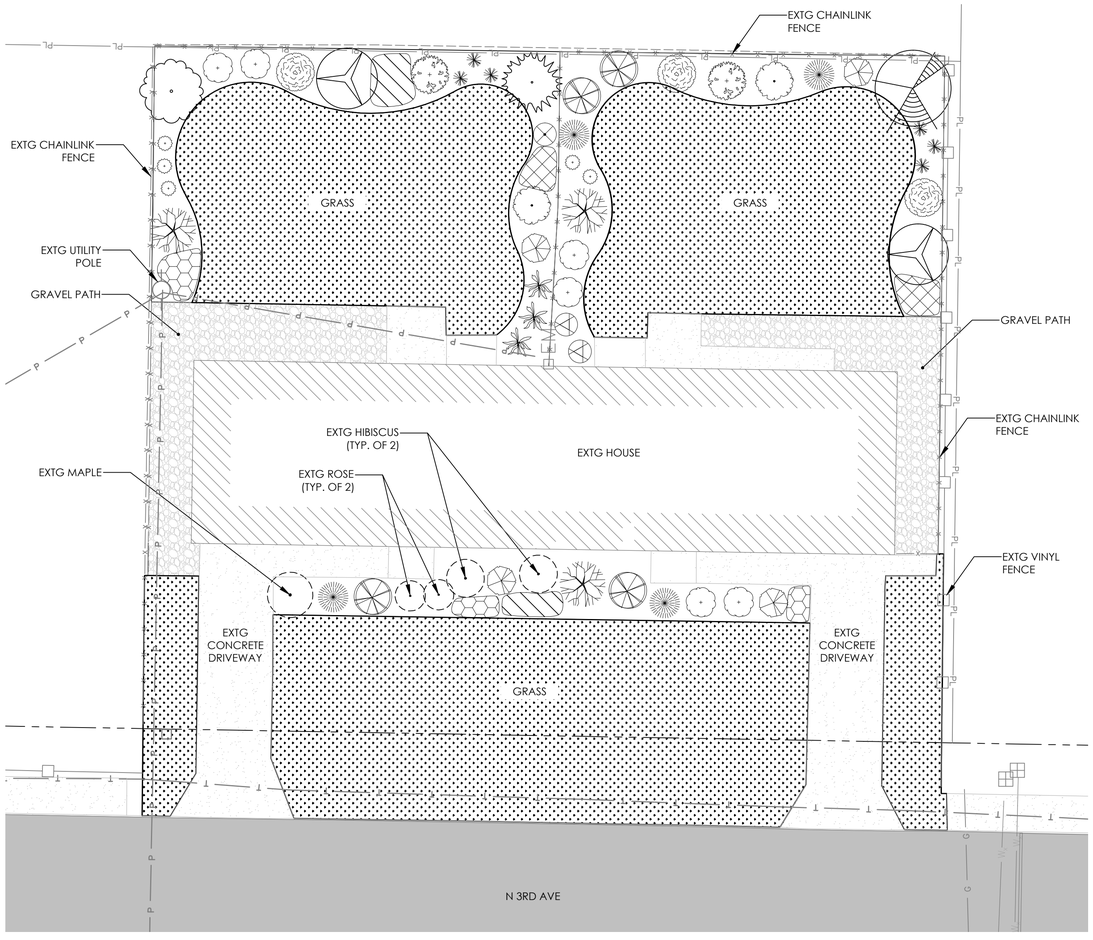
ISSUE	DATE	DESCRIPTION
B	9/2025	FINAL ENGINEERING PLAN SET
A	6/2025	HOMEOWNER PLAN SET

PROJECT: M9003.01.063
DESIGNED: C. RILEY
DRAWN: C. RILEY
CHECKED: C. RILEY
SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

SHEET TITLE
PROPERTY 061
PLANTING PLAN

SHEET
L61.1

PLOTTED ON: 2025-09-26 5:12 PM PLOTTED BY: Curtis Riley FILENAME: C:\Users\CurtisRiley\OneDrive - Cascara Land Design\Cascara Land Design\00_Projects\01008 Maul Foster Along\01008.21 Ridgefield Yard Cleanup\CAD\PHASE 2 - FINAL PLANTING PLANS\PLANTING PLAN_321 N 3RD AVE.dwg



PLANTING PLAN

PLANT MATERIAL LEGEND

SYM	QTY	COMMON NAME
		EXISTING VEGETATION TO REMAIN
	2	DWARF STRAWBERRY TREE
	1	WESTERN REDBUD
	1	ROYAL PURPLE SMOKE TREE
	1	BLUE ICE CYPRESS
	3	HOWARD MCMINN MANZANITA
	2	DARK STAR CEONOTHUS
	3	PINK PRINCESS ESCALLONIA
	2	RED FLOWERING CURRANT
	4	SUNDANCE MEXICAN ORANGE
	4	TUSCAN BLUE ROSEMARY
	6	PURPLE ROCK ROSE
	3	GOLDFLAME SPIREA
	3	SWORDFERN
	2	CREEPING OREGON GRAPE
	1	ORANGE ROCKET BARBERRY
	5	AUTUMN FIRE SEDUM
	6	BLUE OAT GRASS
	8	HICOTE ENGLISH LAVENDER
	8	LITHODORA
	6	CANDYTUFT
	4,753 SF	GRASS: SEEDED

CONSTRUCTION DOCUMENT

CASCARA
LAND DESIGN
6635 N BALTIMORE AVE, STE 245
PORTLAND, OR 97203
PHONE: 541.517.3200

MAUL FOSTER ALONGI
330 EAST MILL PLAIN BLVD, SUITE 405
VANCOUVER, WA 98660
PHONE: 360.694.2691
www.maulfoster.com

PORT OF RIDGEFIELD WASHINGTON

STATE OF WASHINGTON
CURTIS ALAN RILEY
CERTIFICATE NUMBER 23373

OFF-PROPERTY PORTION
REMEDIAL ACTION
PORT OF RIDGEFIELD
RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
B	9/2025	FINAL ENGINEERING PLAN SET
A	4/2025	HOMEOWNER PLAN SET

PROJECT: M9003.01.063
DESIGNED: C. RILEY
DRAWN: C. RILEY
CHECKED: C. RILEY
SCALE
0 10' 20'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

SHEET TITLE
PROPERTY 066
PLANTING PLAN

SHEET
L66.1

PLOTTED ON: 2025-09-26 5:15 PM PLOTTED BY: Curtis Riley FILENAME: C:\Users\CurtisRiley\OneDrive - Cascara Land Design\Cascara Land Design\00_Projects\01.08 Maul Foster Along\01.08.21 Ridgefield Yard Cleanup\CAD\PHASE 2 - FINAL PLANTING PLANS\PLANTING PLAN_3RD AVE.dwg

SEEDING NOTES

1. CONTRACTOR SHALL HYDROSEED OR HAND SEED ALL AREAS TO BE SEEDED AS NOTED ON THE PLANTING PLAN.
2. HYDROSEED SLURRY SHALL BE HYDRO-BLANKET BFM BY PROFILE PRODUCTS OR APPROVED EQUAL. ENDOTHRIVE BY MYCOAPPLY OR APPROVED EQUAL SHALL BE MIXED WITH THE SLURRY PER MANUFACTURERS' RECOMMENDATIONS.
3. CONTRACTOR SHALL SUBMIT PROPOSED SEED MIX, HYDROSEED SLURRY, AND MYCORRIHIZAL PRODUCTS TO ENGINEER PRIOR TO INSTALLATION.
4. PRIOR TO SEEDING ALL TOPSOIL MUST BE FREE OF SUBSOIL, CLAY LUMPS, BRUSH, WEEDS, LITTER, ROOTS, STUMPS, STONES OVER 1" DIAMETER IN ANY DIRECTION AND OTHER MATTER HARMFUL TO PLANT GROWTH. THE AREAS TO BE SEEDED SHALL BE GRADED TO A SMOOTH, FREE DRAINING EVEN SURFACE WITH A LOOSE, MODERATELY COARSE TEXTURE. ROLL, SCARIFY AND LEVEL AS NECESSARY TO OBTAIN TRUE, EVEN SURFACES AND FILL DEPRESSIONS AS REQUIRED TO DRAIN.
5. SEEDING SHALL OCCUR IMMEDIATELY AFTER PREPARATION OF SOIL. SUBCONTRACTOR SHALL SEED DURING PERIODS GENERALLY ACCEPTED BY THE SUPPLIER OF THE SPECIFIC SEED BLEND. NO SEEDING SHALL OCCUR BETWEEN OCTOBER 31 AND MARCH 15 UNLESS APPROVED BY ENGINEER.
6. HYDROSEED DIRECTLY TO SOIL WITH APPROPRIATE SEED MIXTURE AND SLURRY. SLURRY SHALL BE COMPOSED OF APPROVED SEED BLEND, COLORANT, SEED MIX, MYCOAPPLY ENDOTHRIVE, MULCH AND TACKIFIER. SLURRY SHALL BE APPLIED AT A RATE OF 3,500 LBS PER ACRE.
7. RE-SEED ALL AREAS THAT SHOW POOR GERMINATION AFTER 15 DAYS AS DETERMINED BY ENGINEER.

GENERAL LANDSCAPE NOTES

1. PRIOR TO CONSTRUCTION, THE FOLLOWING SHALL BE SUBMITTED TO THE ENGINEER:
   A. NURSERY NAME, ADDRESS, PHONE NUMBER AND CONTACT PERSON ALONG WITH PROOF OF AVAILABILITY OF PROPOSED PLANT MATERIAL.
   B. PROPOSED GRASS SEED MIX AND SOD CUTSHEET AND SUPPLIER CONTACT INFORMATION.
   C. PLANTING SCHEDULE INDICATING ANTICIPATED INSTALLATION DATES.
   D. PROPOSED WATER SOURCE AND WATERING SCHEDULE.
2. ALL PLANT MATERIALS SHALL BE NURSERY GROWN WITH HEALTHY ROOT SYSTEMS AND FULL BRANCHING, DISEASE AND INSECT FREE AND WITHOUT DEFECTS SUCH AS SUN SCALD, ABRASIONS, INJURIES AND DISFIGUREMENT.
3. CONTRACTOR TO VERIFY WITH OWNER AND UTILITY COMPANIES THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION, TO DETERMINE IN THE FIELD THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL CALL UTILITY PROTECTION SERVICE 72 HOURS PRIOR TO CONSTRUCTION.
4. EXAMINE FINISH SURFACE, GRADES, TOPSOIL QUALITY AND DEPTH. DO NOT START ANY WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. VERIFY LIMITS OF WORK BEFORE STARTING.
5. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL LANDSCAPE BEDS AND ALL LAWN AREAS.
6. QUANTITIES SHOWN ARE INTENDED TO ASSIST CONTRACTOR IN EVALUATING THEIR OWN TAKE OFFS AND ARE NOT GUARANTEED AS ACCURATE REPRESENTATIONS OF REQUIRED MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS BID QUANTITIES AS REQUIRED BY THE PLANS AND SPECIFICATIONS.
7. ALL NEW PLANTINGS SHALL BE MULCHED TO A MINIMUM DEPTH OF 3 INCHES MEDIUM DARK HEMLOCK MULCH.
11. A FINAL WALK THRU WITH THE ENGINEER SHALL BE SCHEDULED AFTER ALL PLANTINGS HAVE BEEN INSTALLED TO ENSURE THE IMPLEMENTATION HAS BEEN EXECUTED PER THE PLAN.
12. THE CONTRACTOR SHALL IRRIGATE ALL TREES, SHRUBS, GROUNDCOVERS, AND ALL OTHER PLANT MATERIAL FOR A PERIOD OF 30 DAYS IMMEDIATELY AFTER THE COMPLETION OF ALL PLANT MATERIAL INSTALLATION.
13. THE CONTRACTOR SHALL WARRANT ALL LIVING PLANTING MATERIALS FOR A PERIOD OF ONE YEAR AFTER DATE OF SUBSTANTIAL COMPLETION, AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH.
14. REMOVE AND REPLACE DEAD PLANTING MATERIALS IMMEDIATELY.
15. REPLACE PLANTING MATERIALS THAT ARE MORE THAN 25 PERCENT DEAD OR IN AN UNHEALTHY CONDITION PRIOR TO END OF WARRANTY PERIOD.

PLANT MATERIAL SCHEDULE

TREES

QTY	COMMON NAME	BOTANICAL NAME	SIZE	SPACING
2	DOUBLE WEEPING CHERRY	PRUNUS SUBHIRTELLA 'PENDULA PLENA ROSEA'	2" CAL	PER PLAN
3	WESTERN REDBUD	CERCIS OCCIDENTALIS	2" CAL	PER PLAN
6	DWARF STRAWBERRY TREE	ARBUTUS UNEDO 'COMPACTA'	2" CAL	PER PLAN
3	ROYAL PURPLE SMOKE TREE	COTINUS COGGYRIA 'ROYAL PURPLE'	2" CAL	PER PLAN
2	BLUE ICE CYPRESS	CUPRESSUS ARIZONICA VAR. GLABRA 'BLUE ICE'	6' HT	PER PLAN

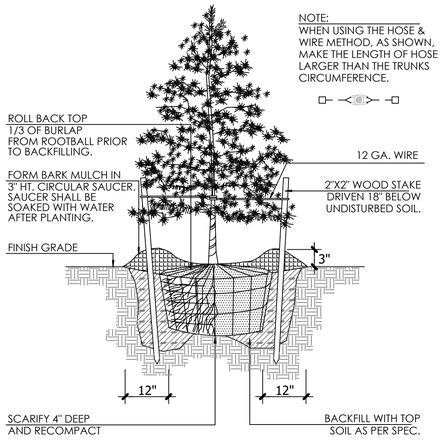
SHRUBS

QTY	COMMON NAME	BOTANICAL NAME	SIZE	SPACING
7	PORTUGESE LAUREL	PRUNUS LUSITANICA	5 GAL	8'-0", O.C.
11	HOWARD MCMINN MANZANITA	ARCTOSTAPHYLOS 'HOWARD MCMINN'	3 GAL	PER PLAN
2	SPIDER'S WEB JAPANESE ARALIA	FATSIA JAPONICA 'SPIDER'S WEB'	3 GAL	PER PLAN
12	DARK STAR CEONOTHUS	CEONOTHUS 'DARK STAR'	3 GAL	6'-0", O.C.
3	PINK PRINCESS ESCALLONIA	ESCALLONIA X EXONIENSIS 'FRADESII'	3 GAL	PER PLAN
14	RED FLOWERING CURRANT	RIBES SANGUINEUM	3 GAL	7'-0", O.C.
13	SUNDANCE MEXICAN ORANGE	CHOISYA TERNATA 'SUNDANCE'	3 GAL	5'-0", O.C.
11	TUSCAN BLUE ROSEMARY	ROSMARINUS OFFICINALIS 'TUSCAN BLUE'	2 GAL	PER PLAN
25	PURPLE ROCK ROSE	CISTUS X PURPUREUS	2 GAL	4'-0", O.C.
19	GOLDFLAME SPIREA	SPIRAEA X BUMALDA 'GOLDFLAME'	2 GAL	5'-0", O.C.
4	ORANGE ROCKET BARBERRY	BERBERIS THUNBERGII 'ORANGE ROCKET'	2 GAL	PER PLAN
11	GOATS BEARD	ARUNCUS DIOICUS	2 GAL	5'-0", O.C., TRI.
19	SWORDFERN	POLYSTICHUM MUNITUM	2 GAL	5'-0", O.C., TRI.
15	CREEPING OREGON GRAPE	MAHONIA REPENS	2 GAL	4'-0", O.C., TRI.
4	ZEBRA GRASS	MISCANTHUS SINENSIS	2 GAL	PER PLAN

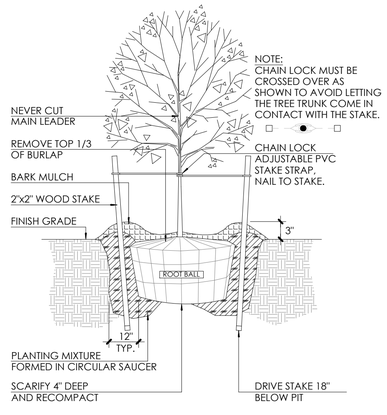
GROUNCOVERS, GRASSES, & PERENNIALS

QTY	COMMON NAME	BOTANICAL NAME	SIZE	SPACING
28	AUTUMN FIRE SEDUM	SEDUM SPECTABILE 'AUTUMN FIRE'	1 GAL	3'-0", O.C., TRI.
24	BLUE OAT GRASS	HELICTOTRICHON SEMPERVIRENS	1 GAL	3'-0", O.C., TRI.
10	JAPANESE FOREST GRASS	HAKONECHLOA MACRA	1 GAL	3'-0", O.C., TRI.
42	HICOTE ENGLISH LAVENDER	LAVANDULA ANGUSTIFOLIA 'HIDCOTE'	1 GAL	2'-6", O.C., TRI.
31	CANDYTUFT	IBERIS SEMPERVIRENS	1 GAL	3'-0", O.C., TRI.
4	EL NINO HOSTA	HOSTA TARDIFLORA 'EL NINO'	1 GAL	2'-0", O.C., TRI.
35	LITHODORA	LITHODORA DIFFUSA	1 GAL	2'-6", O.C., TRI.
26	MASSACHESETTS KINNIKINNICK	ARCTOSTAPHYLOS UVA-URSI 'MASSACHUSETTS'	1 GAL	3'-0", O.C., TRI.

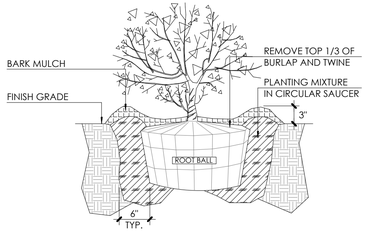
NOTE:
1. THE TOTAL SOD AREA IS 2,480 SF. THE SOD SHALL BE A TALL FESCUE BLEND.
2. THE TOTAL AREA TO BE SEEDED IS 9,194 SF. THE SEED MIX SHALL BE A TALL FESCUE BLEND THAT MATCHES THE FESCUE BLEND OF THE SOD.



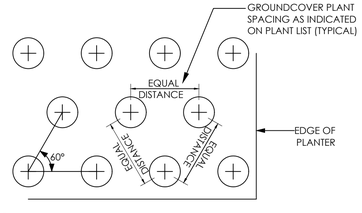
1 EVERGREEN TREE PLANTING & STAKING



2 DECIDUOUS TREE PLANTING & STAKING



3 EVERGREEN / DECIDUOUS SHRUB PLANTING



4 GROUNDCOVER SPACING
NTS PLAN

CONSTRUCTION DOCUMENT

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PORT OF RIDGEFIELD WASHINGTON

STATE OF WASHINGTON
CURTIS A. RILEY
LANDSCAPE ARCHITECT
SIGNED ALAMEDA
CERTIFICATE NO. 1373

OFF-PROPERTY PORTION
REMEDIAL ACTION
PORT OF RIDGEFIELD
RIDGEFIELD, WASHINGTON

ISSUE	DATE	DESCRIPTION
B	11/2025	FINAL ENGINEERING PLAN SET
A	10/2025	FINAL ENGINEERING PLAN SET

PROJECT: M9003.01.063
DESIGNED: C. RILEY
DRAWN: C. RILEY
CHECKED: C. RILEY
SCALE
DRAWING NOT TO SCALE

SHEET TITLE
PLANT SCHEDULE, NOTES & DETAILS

SHEET
L2.0