



**RIDGEFIELD CITY COUNCIL
MEETING AGENDA**

**Thursday, November 7, 2024
RACC - Columbia Assembly Room
510 Pioneer Street, Ridgefield, WA 98642**

I. STUDY SESSION - 5:00 P.M.

- 1. 2025-2045 Comprehensive Plan Update: Land Use and Transportation - Claire Lust, Community Development Director, Chuck Green, Public Works Director**

II. GENERAL SESSION CALL TO ORDER - 6:30 PM

- 1. Flag Salute**
- 2. Roll Call**
- 3. Late changes to the agenda**

III. PARKS BOARD APPOINTMENT

- 1. Appointment Confirmation of Parks Board Member, Position No. 2**

IV. PUBLIC COMMENT

Anyone requesting to speak to the Council regarding all items not subject to a specific Public Hearing may come forward at this time. Please state your name and limit comments to three minutes. Written comments may be submitted to the Clerk prior to the meeting.

V. CONSENT AGENDA

- 1. Approval of Claims And/Or Payroll**
- 2. Approval of Minutes from the October 24, 2024 Meeting**
- 3. Motion to Approve the Submission of a DWSRF Loan to Fund Construction of the Elevated Water Reservoir**

VI. PUBLIC HEARING

- 1. Public Hearing on 2025 Property Tax Levy and Revenue Sources
- Kirk Johnson, Finance Director**

VII. BUSINESS

- 1. First Reading of Ordinance No. 1435 - 2025 Property Tax Levy and Revenues - Kirk Johnson, Finance Director**
- 2. First Reading of Ordinance No. 1436 - 2025 Water Utility Rate Code Amendment - Kirk Johnson, Finance Director**
- 3. First Reading of Ordinance No. 1437 - 2025 Storm Water Utility Rate Code Amendment - Kirk Johnson, Finance Director**
- 4. Motion - Contract Amendment #2 with HHPR for Additional Design Services During Construction for the Pioneer Widening and 50th Place Roundabout Project - Chuck Green, Public Works Director**
- 5. Motion - Award of Construction Contract for Park Laundry Clean-Up Project - Chuck Green, Public Works Director**
- 6. Motion - Approval of Agreed Order with Department of Ecology - Steve Stuart, City Manager**
- 7. Motion - Approval of Agreed Order Cooperation Agreement with Port of Ridgefield - Steve Stuart, City Manager**

VIII. PUBLIC COMMENT

Anyone requesting to speak to the Council regarding all items not subject to a specific Public Hearing may come forward at this time. Please state your name and limit comments to three minutes. Written comments may be submitted to the Clerk prior to the meeting.

IX. COUNCIL/PRESIDING OFFICER/STAFF REPORTS

- 1. Council**
- 2. Mayor**
- 3. City Manager**

X. ADJOURN

**CITY OF RIDGEFIELD
REQUEST FOR COUNCIL ACTION**

MEETING DATE: November 7, 2024

AGENDA ITEM NAME: 2025-2045 Comprehensive Plan Update: Land Use and Transportation

GOVERNING LEGISLATION

RCW 36.70A Growth Management

PREVIOUS COUNCIL ACTION TAKEN:

No prior action. Council first reviewed and discussed draft land use alternatives and related transportation implications during a study session on June 27, 2024.

SUMMARY/BACKGROUND:

Background

Ridgefield is currently in the process of updating its 20-year Comprehensive Plan under the Growth Management Act (GMA). As part of the 2025-2045 Comprehensive Plan Update, the City is required to study alternative land use scenarios that would accommodate the housing and employment growth allocated to Ridgefield and its Urban Growth Area (UGA) over the 20-year planning horizon. This includes planning to accommodate housing affordable to different income levels. Council is then tasked with adopting a preferred land use alternative which will shape the draft comprehensive plan policies across land use, transportation, housing, economic development, climate, and other elements. This study session will focus on land use and transportation.

On June 27, Council reviewed two draft land use alternatives during a study session. Alternative 1 relied mainly on density increases throughout the City limits and UGA to accommodate growth. Alternative 2 relied mainly on intensified mixed-use hubs to accommodate growth. While some Councilors expressed a general preference toward the mixed-use hub model presented in Alternative 2, Council still had questions and directed staff to formulate a third alternative for consideration. Alternative 3 incorporates elements of Alternatives 1 and 2.

The three alternatives each include UGA expansions as part of the strategy to accommodate growth, particularly affordable housing capacity needs. In early 2024, Clark County accepted site-specific UGA expansion requests from property owners. Alternatives 1 and 2 include all such owner-initiated requests adjacent to the existing UGA. Alternative 3 includes two of the site-specific UGA expansion areas particularly suited to Ridgefield's needs in areas already characterized by urban growth.

Outreach

Staff engaged with the community on land use scenario planning during a workshop on September 10 and a companion online mapping activity open through October 4. We asked participants where growth should occur over the next twenty years, where growth should not occur over the next twenty years, and where it would make sense for affordable housing to be located. The results of this outreach

will be summarized as part of the study session.

Goals

Land use and transportation are highly interdependent, and staff have identified an opportunity to seek direction on Transportation Capital Facility Plan policies and land use alternatives concurrently. To that end, the first portion of this study session will explore the relationship between land use and transportation. Council will be asked to **provide feedback on draft transportation policies and the draft 2045 transportation network**.

Then, Council will discuss the three land use alternatives and community input. Council will be asked to **form consensus around a preferred land use alternative**. No action will be taken during this meeting. Staff will refine the preferred alternative based on this study session then bring it back to Council for a public hearing and vote on adoption during two upcoming regular meetings (dates TBD).

BUDGET/FINANCIAL IMPACTS:

N/A

RECOMMENDED ACTION OR MOTION:

N/A

STAFF CONTACT: Claire Lust, Community Development Director, Chuck Green, Public Works Director

ATTACHMENTS:

1. DRAFT Transportation CFP Goals and Policies
2. FINAL_Nov7CouncilPresentation-3J

DRAFT: Ridgefield Transportation CFP Goals and Objectives

Policy 1: Implement a Multi-modal Transportation System which ensures Safety and Security for all users and modes

Objectives

- 1-1. Develop and incorporate transportation safety goals in transportation plans, programs and project priorities.
- 1-2. Emphasize measures to promote the safety goals of Target Zero, to reduce or eliminate serious and fatal crashes throughout the City's transportation system by 2035 and in work zones by 2030.
- 1-3. Future improvements to intersections of collectors and arterials should first consider roundabouts and effective transportation management strategies in their plans to promote safety and mobility.
- 1-4. Provide safe and reliable priority routes for snow removal, evacuations, or other major disasters or incidents. Continue to coordinate with Clark Regional Emergency Services Agency (CRESA) and other emergency and first responders during these events.

Policy 2: Enhance Economic Vitality and Quality of Life through a strong coordination between land use and transportation planning

Objectives

- 2-1. Provide a strong and continuous coordination between transportation planning and land use/, stormwater management, and utilities that increase opportunities to attract family wage jobs and improve economic competitiveness.
- 2-2. Balance land use and economic development with multimodal considerations and managed access to the collector and arterial system.
- 2-3. Incorporate pedestrian, vehicular and emergency vehicle cross-circulation standards for commercial land uses into the City's Engineering Standards and Development Code.
- 2-4. Ensure priority freight corridors, including Pioneer Street and Union Ridge Parkway, are well managed and continue to provide quality levels-of-service connecting to I-5.
- 2-5. Adopt parking standards and plans which maintain neighborhood integrity, promote efficient utilization of limited land, and support desired economic development and growth, especially in the downtown area and waterfront.

Policy 3: Enhance Mobility through an Equitable, Accessible and Sustainable Transportation System

Objectives

- 3-1. Allocate resources using a Council-supported prioritization system, considering benefits to safety, mobility, economic development and quality of life.
- 3-2. Respond to climate change with measures to reduce the vehicular travel demand, such as multi-modal communities, low- and zero-emissions alternatives, EV deployment of charging stations around the City, complete streets design, and an interconnected trail system.*
- 3-3. Develop and implement multi-modal level of service standards for the collector and arterial system.*
- 3-4. Develop and implement a vision and standards for Complete Streets and micromobility – golf carts, electronically-assisted modes – to increase mobility for those with mobility limitations and those who choose not to drive.
- 3-5. Prioritize equity in local and regional transportation decision-making to mitigate and eliminate barriers related to access, safety, affordability, and health outcomes experienced by people of color, low-income populations, older adults, people with disabilities, and other historically marginalized communities.
- 3-6. Coordinate with C-TRAN and other transit and paratransit providers in transportation planning, land use planning and project development.
- 3-7. Implement the Multimodal System Plan (2016) and updates to Parks and Trails System in transportation planning and incorporate citywide trails into the transportation impact fee system.
- 3-8. Provide for ongoing coordination with the Ridgefield School District to address traffic and transportation issues in the vicinity of schools and continue to assess funding opportunities such as Safe Routes to School and Bicycle and Pedestrian funding.
- 3-9. Continue to seek outside funding and financing to leverage and optimize the use of City funds, including grants and partnerships with partners including the Cowlitz Indian Tribe, Port of Ridgefield, Clark County and the Regional Transportation Council,

Policy 4: Ensure the community continues to be engaged in transportation planning and project improvements

Objectives

- 4-1. Provide opportunities for community engagement to identify issues and inform safety solutions across the community.
- 4-2. Seek additional ways to reach out to underserved members of the community who may not normally attend public meetings and open houses.

- 4-3. Continue to add and keep current project pages on Ridgefield Roundtable.
- 4-4. Continue to coordinate with City partners, including the Cowlitz Indian Tribe, Washington State Department of Transportation, Clark Cowlitz Fire Rescue, Clark County, C-TRAN and other transportation providers in the area.

*Required by recent legislation related to Growth Management planning requirements.



City of Ridgefield
Comprehensive Plan Update
Transportation & Land Use

November 7, 2024 City Council Workshop



Overall Agenda

- Transportation ~ 30 mins
- Land Use ~ 55 mins
 - Alternatives
- Next Steps ~ 5 mins



Transportation



Transportation & Land Use Relationship



- Household income levels correlated to vehicle vs. non-motorized use
- Mixed use centers (with compatible land uses) reduce vehicular trip demand
- New Growth Management requirements:
 - Multi-modal level of service (not just for vehicles)
 - Reduction of vehicle miles traveled
 - Climate change considerations.
- Income levels also correlate to parking needs

Draft Transportation Policies



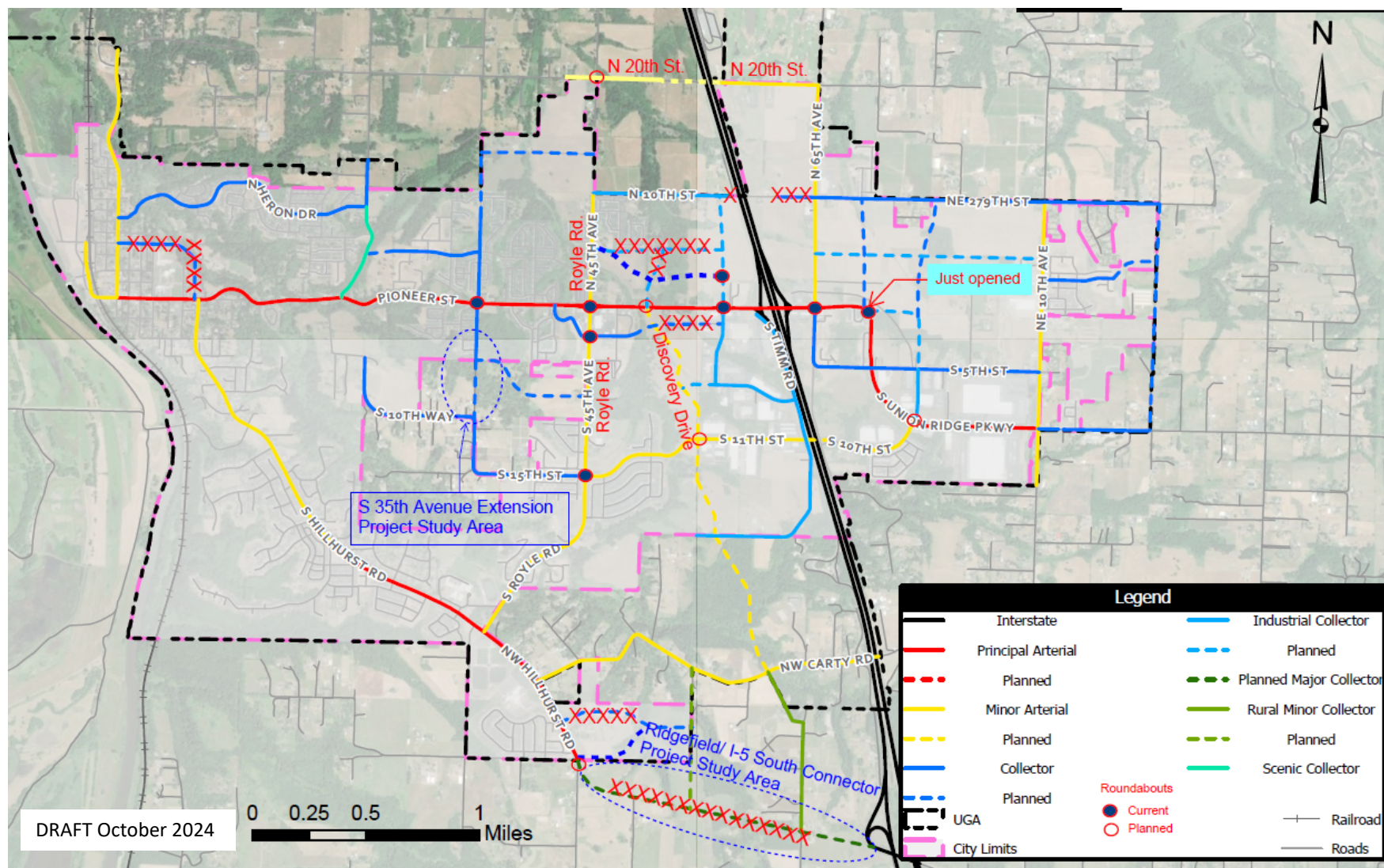
Refer to handout with draft policies and objectives

1. Implement a Multi-modal Transportation System which ensures Safety and Security for all users and modes
2. Enhance Economic Vitality and Quality of Life through a strong coordination between land use and transportation planning
3. Enhance Mobility through an Equitable, Accessible and Sustainable Transportation System
4. Ensure the community continues to be engaged in transportation planning and project improvements

Draft 2045 Transportation Network



Revisions to current plan; will add transit and multi-use trails to system map



Land Use



Land Use Agenda



- Population, housing, and employment allocations
- Capacity analysis
- Review three land use alternatives
- Council consensus on a preferred alternative



Land Use Allocations



	Capacity	Allocation	Surplus (Deficit)
Population	27,230	10,656	16,574
Housing (units)	5,820	5,815	5
Employment (jobs)	7,998	8,175	(177)

Land Use Allocations - Housing



	Adjusted Capacity (units)	Allocation (units)	Surplus or (Deficit units)
0 – 80% AMI	1,484	4,136	(2,652)
80 – 120% AMI	4,336	1,679	2,657
Total	5,820	5,815	5

Land Use Allocations



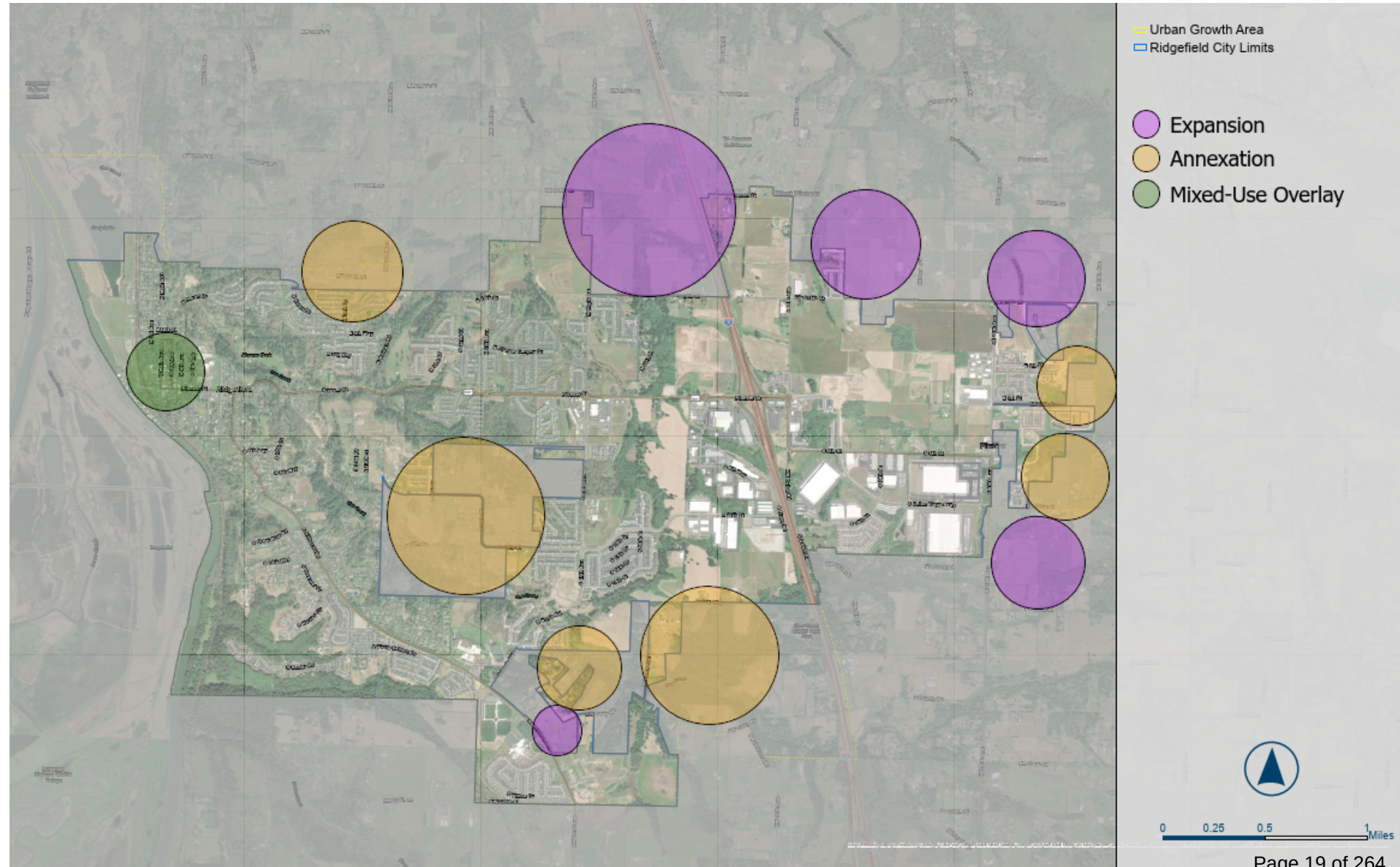
- Housing (<80% AMI) and jobs capacity deficit
- Must propose land use alternatives to offset deficit
- Done so through the following suite of options:
 - Rezoning
 - Increased density
 - Mixed-Use overlays
 - Annexation
 - UGA Expansion
- Proposed alternatives use varied combination of select options

Alternative 1



Overall Themes:

- Annexation
- Expansion
 - All site specific requests
- Downtown Mixed-Use Density Increase
- RMD-16 Density Increase

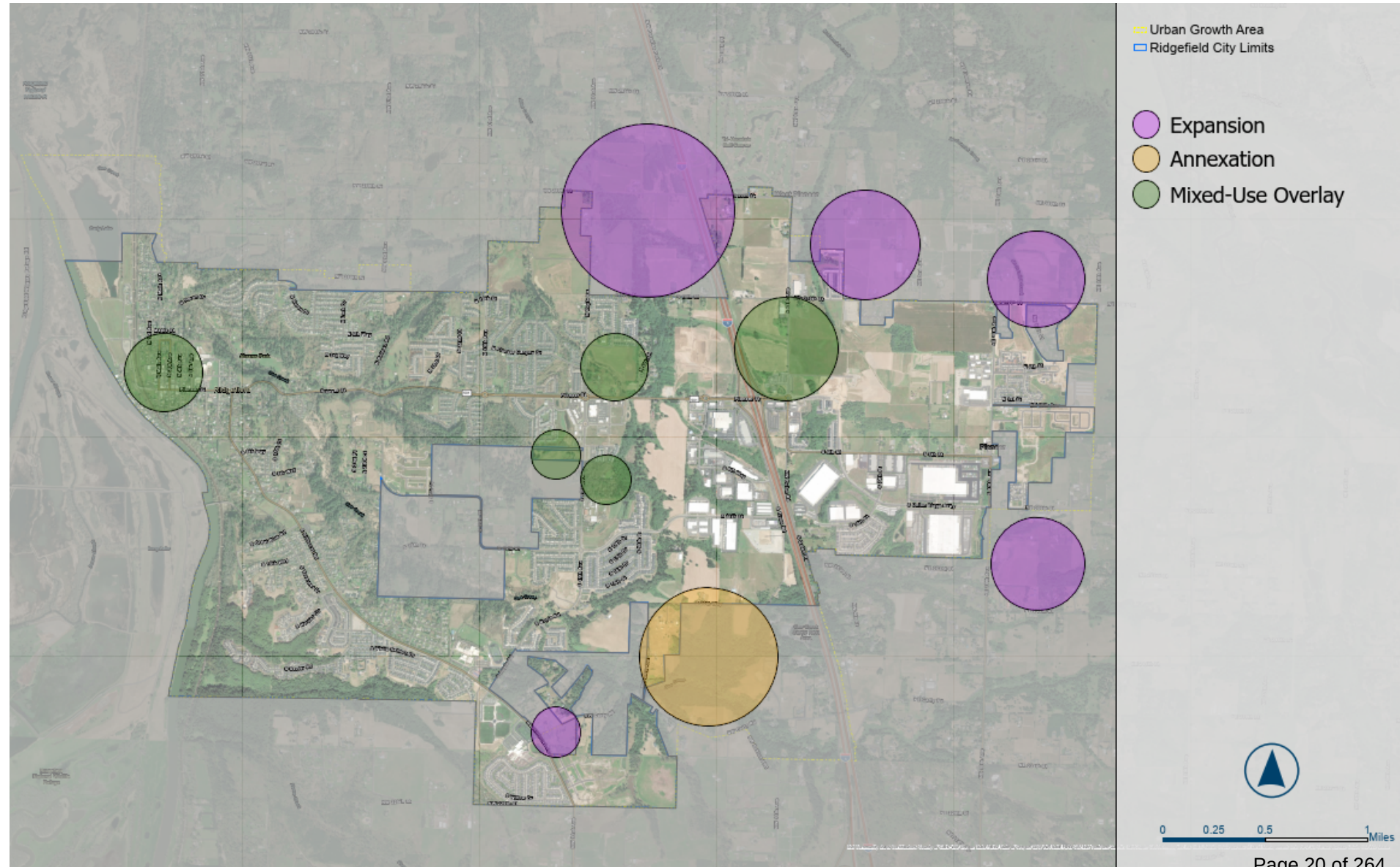


Alternative 2



Overall Themes:

- Mixed-Use Hubs
- Expansion
 - All site specific requests
- Annexation

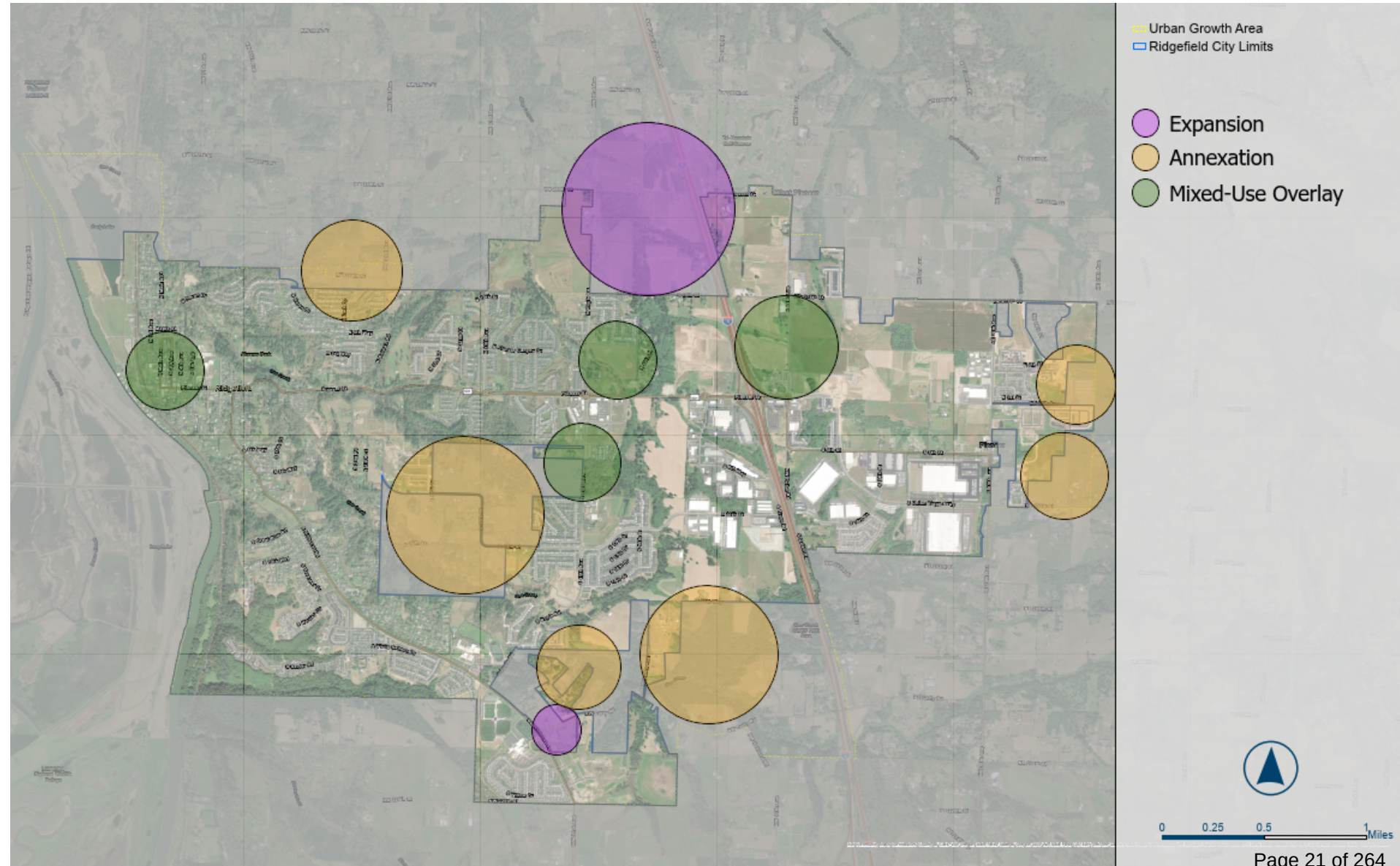


Alternative 3



Overall Themes:

- Mixed-Use Hubs
- Annexation
- Expansion
 - Two site specific requests



What Have We Heard?



Community Engagement

Community Conversations and Online Survey #1

Purpose: Develop community vision themes

Activities:

- 19 community conversations; tabling at State of the City event
- 330 survey responses

Questions:

- “What makes Ridgefield special today? What should we strive to conserve or enhance?”
- “What about Ridgefield would you like to see change in the future? What can improve?”

Community Workshop and Online Survey #2

Purpose: review community vision themes and identify areas for growth and affordable housing development

Activities: Approximately 200 participants/responses

Questions:

- Are the vision themes on track?
- Is anything missing?
- What can we do to accomplish this theme?
- In what areas of Ridgefield should more growth occur?
- In what areas of Ridgefield should less growth occur?
- Where should the city accommodate new affordable housing?

What Have We Heard?



Community Vision Themes

Small Town Charm

78% support the *Small Town Charm* theme and description. Recommended implementation actions include:

- Develop mixed-use, higher-density housing to create walkable neighborhoods that benefit local businesses.
- Expand community events and neighborhood celebrations, access to the arts, and regional cultural musical events.
- Improve east-west connections through a multimodal route, implement free transit stations for populated areas, and connected bike routes and walking paths.
- Adhere to the GMA and growth plan for sustainable growth.

Growth and Infrastructure

69% support the *Growth and Infrastructure* theme and description. Recommended implementation actions include:

- Improve transit, walking, and biking trails to connect the east side, downtown, and uptown Ridgefield.
- Mitigate pedestrian safety and traffic issues, particularly on Pioneer and near the High School.
- Increase housing density near downtown and prioritize access to key services (e.g., schools, childcare, elder care).
- Expand green spaces, adding native vegetation, shade trees, and wildlife corridors, and protect natural habitats from overdevelopment. Integrate trails with scenic wildlife views and preserve open spaces.
- Closely monitor infrastructure and update infrastructure to keep pace with population increases.

What Have We Heard?



Community Vision Themes

Community Health and Well Being

74% support the *Community Health and Well Being* theme and description. Recommended implementation actions include:

- Invest in community centers, senior centers, and indoor recreational facilities to serve all ages, with a focus on teens and seniors.
- Create access to healthcare, including clinics, senior care, urgent care centers, and mental health support programs.
- Support safety improvements, including better sidewalks, bike lanes, and trail systems in high-traffic areas.
- Enhance trail connectivity and expand parks to include diverse amenities like bike tracks, skate parks, splash pads, tennis courts, and ball fields.

Equity and Inclusion

82% support the *Equity and Inclusion* theme and description. Recommended implementation actions include:

- Support a variety of events, such as festivals, cultural celebrations, and gatherings that support local businesses.
- Provide transparency in decision-making processes and improve representation of under-represented groups in city governance.
- Enhance connections to other communities, like Vancouver.

What Have We Heard?



Community Vision Themes

Environmental Conservation and Natural Beauty

82% support the *Environmental Conservation and Natural Beauty* theme and description. Recommended implementation actions include:

- Strengthen natural habitats, wildlife corridors, and green spaces, with an emphasis on sustainable practices like dark-sky lighting and using native plants in landscaping.
- Implement balanced growth that preserves the city's character and improves stormwater management and pollution control to protect local streams.
- Preserve the waterfront and area near the Ridgefield National Wildlife Refuge.
- Implement climate actions including carbon assessments, renewable energy initiatives, community education initiatives, and eco-friendly policies such as xeriscaping, drought-resistant landscaping, and tree canopy preservation.

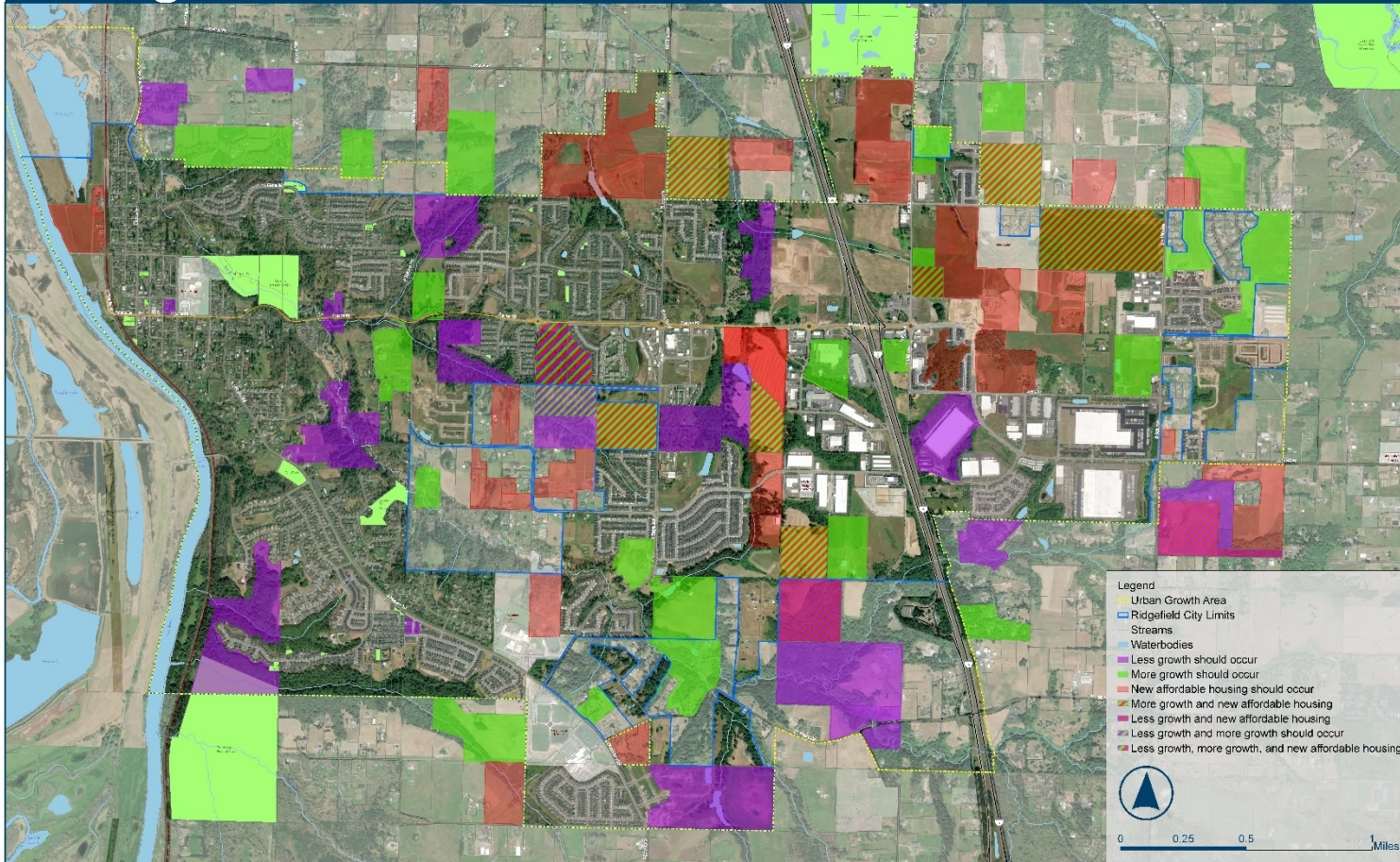
What Have We Heard?



Mapping Activity

Community members placed color-coded dots to identify where they would like to see increased growth (green) or limited growth (purple) in Ridgefield. Red stickers were used to indicate locations where the city could accommodate new affordable housing. Each red sticker represented 250 housing units

Ridgefield Future Growth



Limit Growth:

- Around natural resources (Gee Creek)
- Central 'doughnut'
- Downtown

Increase Growth:

- East Ridgefield
- Periphery of Ridgefield

Affordable Housing:

- East Ridgefield
- Clark College
- Near transit options



- Council consensus on a preferred alternative to:
 - Inform policies of Land Use, Housing, and Transportation elements
 - Inform TSP and CFP
 - Be reported to the County for EIS process

Next Steps: Council Workshops and Community Engagement

November
2024

- Study session to **identify preferred** land use **alternative**
- Preferred alternative will inform policy updates

December
2024/January
2025

- Capital Facilities Plan Updates
- City staff to present

January 2025

- Study session to discuss **Land Use, Housing, and Economic Development**, policies

February
2025

- Study session to discuss **Climate** policies

Spring 2025

- Community Open House #2 to hear feedback on draft policies



Summer
2025

- Study session to review **Other Elements** and **implementation**

ENVISION
RIDGEFIELD
2045

Thank you!

**CITY OF RIDGEFIELD
REQUEST FOR COUNCIL ACTION**

MEETING DATE: November 7, 2024

AGENDA ITEM NAME: Approval of Claims And/Or Payroll

GOVERNING LEGISLATION

Revised Code of Washington Title 35A

PREVIOUS COUNCIL ACTION TAKEN:

The City Council approves claims and/or payroll of the City on a regular basis

SUMMARY/BACKGROUND:

Vendor claims

BUDGET/FINANCIAL IMPACTS:

See vendor details attached

RECOMMENDED ACTION OR MOTION:

Approve the claims and/or payroll by making the following motion:

"I move to approve the consent agenda as presented"

STAFF CONTACT: Kirk Johnson, Finance Director

ATTACHMENTS:

1. November 7, 2024 Claims Report

City of Ridgefield

Claims Payment Report

For Approval on:

November 7th, 2024

Sum of Amount					
Vendor Name	Vendor Number	Invoice Number	Resp. Department	Description	Total
BACKWOOD BARK	3944	15196	Genl Govt/Facilities Public Works	10.2024 Yard Debris Removal	8.41
				10.2024 Yard Debris Removal	698.14
				10.2024 Dog Park Dirt	48.92
BACKWOOD BARK Total					755.47
CAPITOL ASSET & PAVEMENT SERVICES INC.	3539	965	Public Works	2024 Pavement Management Services	4,862.00
CAPITOL ASSET & PAVEMENT SERVICES INC. Total					4,862.00
Cascade Hydroseed	UB*01067	(blank)	Genl Govt/Facilities	Refund Check 016986-000 Hydrant Meter Parr Lumber on S Timm Rd	468.77
Cascade Hydroseed Total					468.77
CINTAS CORPORATION NO 2	3497	5236646304	Public Safety	10.2024 First Aid Supplies - PD	69.47
		5236646307	Genl Govt/Facilities	10.2024 First Aid Supplies - PW Ops	46.18
			Public Works	10.2024 First Aid Supplies - PW Ops	848.82
		5236646306	Genl Govt/Facilities	10.2024 First Aid Supplies - RACC	20.33
			Public Works	10.2024 First Aid Supplies - RACC	42.16
	5236646305	Genl Govt/Facilities	10.2024 First Aid Supplies - CH	57.44	
CINTAS CORPORATION NO 2 Total					1,084.40
CLARK COUNTY	102	CI069085	Public Works	09.2024 Whatley Decant Billing	1,333.08
		CI069036	Judicial	09.2024 Pretrial Supervision & Investigations	3,505.21
		CI068341	Public Works	09.2024 Traffic Signals & ITS Services	355.72
CLARK COUNTY Total					5,194.01
CLARK COUNTY FIRE DISTRICT #5	104	50005	Genl Govt/Facilities	Q4.2024 Safety Consortium	54.39
			Public Works	Q4.2024 Safety Consortium	870.61
CLARK COUNTY FIRE DISTRICT #5 Total					925.00
COLUMBIA CASCADE COMPANY	1151	44985-69	Public Works	Davis Park Playground Swing Seats	597.85
COLUMBIA CASCADE COMPANY Total					597.85
COLUMBIAN PUBLISHING	116	49211	Public Works	Water System Plan Update	106.20
		49242	Community Development	Ord. 1432 & 1434 Dev. Agreement Clark College & 2nd Amend	97.20
		49345	Finance	2025 Taxes: Revenue Sources	72.00
COLUMBIAN PUBLISHING Total					275.40
CONSOR NORTH AMERICA INC.	3949	W233613WA.00-7	Public Works	10.2024 Eastside Elevated Water Reservoir	76,260.61
		C240750WA.00-5	Public Works	09.2024 Pioneer Widening Construction Mgmt	127,861.26
CONSOR NORTH AMERICA INC. Total					204,121.87
COREY CROWNHART	3997	3997-20241107	Public Works	Harper's Playground Design Workshop Mileage - Crownhart	18.76
COREY CROWNHART Total					18.76
CSD ATTORNEYS AT LAW P.S.	3294	125546	Genl Govt/Facilities	09.2024 Pacific Wood Treater's Site	320.00
CSD ATTORNEYS AT LAW P.S. Total					320.00
CT PUBLISHING LLC	3753	284272	Community Development	Ord. 1434 - Development Agreement with Clark College	68.00
		284273	Community Development	Ord 1432 - 2nd Amend to Development Agreement w/Ridgefield East	73.10
		283709	Public Works	Water System Plan Update	164.90
CT PUBLISHING LLC Total					306.00
DANI BOWERMAN	4077	4077-20241107	Public Safety	Washington State Patrol Mileage Reimb. - Bowerman	22.91
DANI BOWERMAN Total					22.91
DEPARTMENT OF ECOLOGY	144	25-WAR313959-3	Public Works	Park Laundry Cleanup Permit	11,313.00
DEPARTMENT OF ECOLOGY Total					11,313.00

City of Ridgefield

Claims Payment Report

For Approval on:

November 7th, 2024

DEPARTMENT OF LICENSING - EPAY	154	RG0001715-2024	Genl Govt/Facilities	CPL Fees	18.00
		RG0001718-2024	Genl Govt/Facilities	CPL Fees	18.00
		RG0001720-2024	Genl Govt/Facilities	CPL Fees	18.00
		RG0001719-2024	Genl Govt/Facilities	CPL Fees	18.00
		RG0001721-2024	Genl Govt/Facilities	CPL Fees	18.00
		RG0001717-2024	Genl Govt/Facilities	CPL Fees	18.00
		RG0001716-2024	Genl Govt/Facilities	CPL Fees	18.00
		DEPARTMENT OF LICENSING - EPAY Total			
DEPARTMENT OF REVENUE	1244	I22QYQ648S	Genl Govt/Facilities	UCP 3577 P45 LLC ETAL	149.20
				UCP 3641 DUNE HOMES, LLC	379.50
				UCP UB*00867 Kenneth Bundy & Allison Renteria	5.55
				UCP UB*00778	1.12
DEPARTMENT OF REVENUE Total					535.37
DON GRISWOLD	2761	2761-20241107	Genl Govt/Facilities	12.2024 Santa Hometown Celebration Theater Rental	350.00
DON GRISWOLD Total					350.00
ELITE CONTRACTING CO INC.	3850	3516	Public Works	City of Ridgefield Park & Ride Light Repair	529.91
ELITE CONTRACTING CO INC. Total					529.91
EMILY CRESS	4076	503657302	Genl Govt/Facilities	Business License Refund 503657302	50.00
EMILY CRESS Total					50.00
ENCORE ONE LLC	3890	598978	Genl Govt/Facilities	10.2024 Janitorial Services	313.97
			Public Safety	10.2024 Janitorial Services	687.71
			Public Works	10.2024 Janitorial Services	508.37
			Public Works	10.2024 Janitorial Services	140.19
ENCORE ONE LLC Total					1,650.24
FERGUSON ENTERPRISES INC # 8423	181	1235839	Public Works	PWWTR Boot Probe	132.92
				PWWTR Adapter Triple Plug	18.70
FERGUSON ENTERPRISES INC # 8423 Total					151.62
GENERAL PACIFIC	2942	1501383	Genl Govt/Facilities	PD Drone Training	(21.60)
			Public Safety	PD Drone Training	2,608.80
GENERAL PACIFIC Total					2,587.20
GISI MARKETING GROUP	2811	285858	Public Works	Business Cards - Lead Engineer	246.14
		286016	Council	Business Cards - Rian Davis	246.14
		285615	Council	Business Cards - Matt Cole	246.14
GISI MARKETING GROUP Total					738.42
GRANT WILLIAMS	3419	3419-20241105	Public Works	Northwest Pavement Mgmt Assoc Conference Meals per Diem - Williams	139.00
GRANT WILLIAMS Total					139.00
GRAY AND OSBORNE INC	207	23231.13-8	Genl Govt/Facilities	10.2024 Sanderling Park Phase 4 ENG-23-0111	148.06
		23231.00-14	Genl Govt/Facilities	09.2024 On-Call Development Review	86.78
GRAY AND OSBORNE INC Total					234.84
GREATER VANCOUVER CHAMBER OF COMMERCE	2938	248659	Genl Govt/Facilities	2025 Membership Renewal	1,106.00
GREATER VANCOUVER CHAMBER OF COMMERCE Total					1,106.00
GROUNDWATER SOLUTIONS INC.	2971	00727.001-67R	Public Works	09.2024 Hydrological Study	20,056.46
GROUNDWATER SOLUTIONS INC. Total					20,056.46
HALME EXCAVATING INC.	2746	24200	Public Works	2 Fire Hydrants Relocation	11,674.41
HALME EXCAVATING INC. Total					11,674.41
HARPER HOUF PETERSON RIGHELLIS INC.	1678	59621R	Public Works	08.2024 IQ Credit Union Mitigation - Pioneer Widening	1,462.50
HARPER HOUF PETERSON RIGHELLIS INC. Total					1,462.50

City of Ridgefield

Claims Payment Report

For Approval on:

November 7th, 2024

HD SUPPLY WATERWORKS	864	INV00523849	Public Works	Hydrant Meter Repairs - Gate Valve	347.86
HD SUPPLY WATERWORKS Total					347.86
HERRON ASSOCIATES LLC	4055	HA-INV00084	Genl Govt/Facilities	RORC Fieldhouse and Field 4 & 5 Lights - Electrical Plan Reviews	400.00
HERRON ASSOCIATES LLC Total					400.00
HOME DEPOT VISA - EPAY	1805	2363643	Genl Govt/Facilities	PW Shop Supplies - Window Film & Knife	2.55
			Public Works	PW Shop Supplies - Window Film & Knife	40.88
		315941	Public Works	Allen Creek Park Wall Repair Supplies	524.09
		5520060	Public Works	Allen Creek Park Supplies - Retaining Wall Cap	14.52
		3042527	Genl Govt/Facilities	Zip Ties & Tool Box - Embry	33.63
			Public Works	Zip Ties & Tool Box - Embry	100.86
HOME DEPOT VISA - EPAY Total					716.53
HONEY BUCKETS	223	554479640	Genl Govt/Facilities	10.15.2024-11.11.2024 PW Shop Port-a-Potty	61.69
			Public Works	10.15.2024-11.11.2024 PW Shop Port-a-Potty	987.31
HONEY BUCKETS Total					1,049.00
INTERMEDIA.NET INC.	3804	2410093112	Information Technology	09.2024 Voice Service Charges	95.56
INTERMEDIA.NET INC. Total					95.56
J.L. STOREDAHL AND SONS	558	427317	Public Works	PWSTW Crushed Rocks - Stormwater Facility Repair	452.70
J.L. STOREDAHL AND SONS Total					452.70
J2 BLUE PRINT SUPPLY	243	AR159197	Public Works	10.2024 Plotter Contract	57.34
		AR157390	Genl Govt/Facilities	Mural Celebration Signage	93.48
		AR157243	Genl Govt/Facilities	2024 MCF Signage	523.93
J2 BLUE PRINT SUPPLY Total					674.75
Jackson Dean Construction	UB*01066	(blank)	Genl Govt/Facilities	Refund Check 016590-000 Hydrant Meter 5801 N Pioneer Canyon Dr	185.74
Jackson Dean Construction Total					185.74
JASON VAN DYKE	3911	3911-20241105	Genl Govt/Facilities	2024 NWPMA Conference Meals per Diem Reimb. - Van Dyke	6.95
			Public Works	2024 NWPMA Conference Meals per Diem Reimb. - Van Dyke	132.05
JASON VAN DYKE Total					139.00
JOHN MULLAN	4058	2408-12477	Public Works	Abrams Park Playground Equipment Replacement	1,218.40
JOHN MULLAN Total					1,218.40
KILLA BITES	3727	12935	Genl Govt/Facilities	December First Saturday Tree Lighting Treats	1,766.38
KILLA BITES Total					1,766.38
KRISTIN ASHENFELTER	4043	4043-20241105	Public Works	2024 NWPMA Conference Meals per Diem Reimb. - Ashenfelter	139.00
KRISTIN ASHENFELTER Total					139.00
KYLE JOHNSON	3851	3851-20241107	Public Works	Water Treatment 1 Application - K. Johnson	87.00
KYLE JOHNSON Total					87.00
LAND EXPRESSIONS LLC	3703	6745-241007	Public Works	Splash Pad Troubleshooting Design Support	3,000.00
LAND EXPRESSIONS LLC Total					3,000.00
LES SCHWAB GROUP HOLDINGS LLC	4006	43700026587	Public Works	2012 Ford F150 57237D - New Tires	1,499.54
		43700027776	Genl Govt/Facilities	2011 Ford F350 48613D - Brake Repair	369.76
			Public Works	2011 Ford F350 48613D - Brake Repair	862.76
LES SCHWAB GROUP HOLDINGS LLC Total					2,732.06
MARTA L. OCHOA-RUTHERFORD	3396	701	Judicial	10.10.2024 Interpreting Services	130.00
		702	Judicial	10.17.2024 Interpreting Services	130.00
MARTA L. OCHOA-RUTHERFORD Total					260.00
MCM OF WASHINGTON INC	3672	BLD-24-0089	Genl Govt/Facilities	BLD-24-0089 Permit Fees Refund	25,860.66
MCM OF WASHINGTON INC Total					25,860.66
MINUTEMAN PRESS (NORTH)	3278	12467	Council	Name Badge - Rian Davis	25.96

City of Ridgefield

Claims Payment Report

For Approval on:

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MINUTEMAN PRESS (NORTH) Total					25.96
MUNICIPAL EMERGENCY SERVICES INC	2235	IN2141730	Public Safety	Ballistic Vest & External Carrier - Lucero	1,352.95
		IN2140819	Public Safety	Ballistic Vest & External Carrier - Steward	1,410.01
MUNICIPAL EMERGENCY SERVICES INC Total					2,762.96
MUSCO LIGHTING	2988	430622	Genl Govt/Facilities	RORC Phase 2 Lighting Materials	(4,069.82)
			Public Works	RORC Phase 2 Lighting Materials	491,544.66
		431228	Genl Govt/Facilities	203711 RORC Phase 2 Lighting Installation	(2,014.51)
			Public Works	203711 RORC Phase 2 Lighting Installation	243,308.65
MUSCO LIGHTING Total					728,768.98
NANCY PIONK	3902	24-19	Genl Govt/Facilities	Conflict Resolution & Coaching Services	1,248.75
NANCY PIONK Total					1,248.75
NAPA AUTO PARTS	498	445993	Genl Govt/Facilities	PW Shop Plier	1.06
				PW Shop Rags	1.39
			Public Works	PW Shop Plier	17.07
				PW Shop Rags	22.35
		446581	Genl Govt/Facilities	PW Shop Super Clean Degreaser	1.39
			Public Works	PW Shop Super Clean Degreaser	22.33
NAPA AUTO PARTS Total					65.59
NORTH COAST ELECTRIC COMPANY	4057	S013605877.009	Public Works	Acorn Light Pole Fixtures	4,118.26
NORTH COAST ELECTRIC COMPANY Total					4,118.26
NORTHEAST ELECTRIC LLC	2461	3531	Genl Govt/Facilities	Hillhurst School Zone Pedestrian & Bike Safety	78,888.16
		3574	Genl Govt/Facilities	Hillhurst School Zone Pedestrian & Bike Safety	71,750.00
NORTHEAST ELECTRIC LLC Total					150,638.16
NORTHSIDE FORD TRUCK SALES INC	3281	289901	Public Works	PWWTR 2015 Ford F350 57232D - Vehicle Maintenance	84.13
NORTHSIDE FORD TRUCK SALES INC Total					84.13
NW CONSTRUCTION GENERAL CONTRACTING INC.	2900	2900-18	Genl Govt/Facilities	Royle Rd S 19th & 15th Release Retainage	137,395.09
NW CONSTRUCTION GENERAL CONTRACTING INC. Total					137,395.09
PACIFIC OFFICE AUTOMATION	2710	765459	Genl Govt/Facilities	Q3.2024 Copier Usage	321.04
			Public Safety	Q3.2024 Copier Usage	219.99
			Public Works	Q3.2024 Copier Usage	242.32
PACIFIC OFFICE AUTOMATION Total					783.35
PAHLISCH HOMES INC.	4045	4045-20241107	Genl Govt/Facilities	Kennedy Well Field - Sanderling Park Pond License Rental	84,500.00
PAHLISCH HOMES INC. Total					84,500.00
SIMPLIFILE - EPAY	2962	E6213011	Public Works	Recording Fees - Warranty Deed - Living Trust for 50th Ave Rdbt	330.37
		E6212745	Public Works	Recording Fees - Storm Drainage Improvement Covenant	685.87
		E6210628	Community Development	Recording Fees - Ridgefield East Dev. LLC - Second Amendment	319.37
		E6212759	Public Works	Recording Fees - Temporary Construction Easement - Schmitz	333.37
		E6212738	Public Works	Recording Fees - Warranty Deeds-Schmitz 50th Ave Rdbt & Pioneer	333.37
		E6212794	Public Works	Recording Fees - Temp Construction Easement 1	330.37
		E6210428	Community Development	Recording Fees - Development Agreement - Clark College	326.37
SIMPLIFILE - EPAY Total					2,659.09
SKAMANIA COUNTY SHERIFF'S OFFICE	1554	1554-202409	Public Safety	09.2024 Jail Beds	60.00
SKAMANIA COUNTY SHERIFF'S OFFICE Total					60.00
STATE OF WA DEPARTMENT OF REVENUE - EPAY	156	0-043-392-858	Genl Govt/Facilities	09.2024 B&O and Excise Tax	1,064.78
			Public Works	09.2024 B&O and Excise Tax	43,048.79
STATE OF WA DEPARTMENT OF REVENUE - EPAY Total					44,113.57
STEVE STUART	2075	2075-20241107-1	Executive	City Councilor Meeting Meal Reimb. - Stuart	6.55

City of Ridgefield

Claims Payment Report

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STEVE STUART	2075	2075-20241107	Executive	Discovery Ridge Development Meeting Meal Reimb. - Stuart	4.28
STEVE STUART Total					10.83
THE MASTERS TOUCH LLC	1786	P92825	Public Works	10.2024 UB 2nd Delinquent Notices - Postage	185.61
		92731	Public Works	10.2024 UB Delinquent Notices	248.80
		P92731	Public Works	10.2024 UB Delinquent Notices - Postage	357.78
		92707	Public Works	09.2024 UB Final Bills	136.64
		92825	Public Works	10.2024 UB 2nd Delinquent Notices	122.47
		P92707	Public Works	09.2024 UB Final Bills - Postage	29.67
THE MASTERS TOUCH LLC Total					1,080.97
THE PARR COMPANY	964	26717293	Public Works	Street Sign Concrete Mix	5.21
THE PARR COMPANY Total					5.21
TRAFFIC SAFETY SUPPLY	432	INV074845	Public Works	Street Signs	1,069.60
		INV075300	Public Works	15 Min Parking Street Signs	70.00
		INV074907	Public Works	No Parking Street Signs	175.00
TRAFFIC SAFETY SUPPLY Total					1,314.60
TRI MOUNTAIN INVESTORS LLC	3866	2024-139	Genl Govt/Facilities	11.2024 101 Mill St Ste 210 Lease	6,250.00
				11.2024 101 Mill St Ste 210 Lease Est Monthly NNN	984.00
				11.2024 101 Mill St Ste 210 NW Natural	8.32
				11.2024 101 Mill St Ste 210 Wastewater	20.99
				11.2024 101 Mill St Basement Lease	952.60
		2024-138	Public Safety	11.2024 101 Mill St Basement Est Monthly NNN	269.00
				11.2024 101 Mill St Ste 210 Electricity	25.52
				11.2024 101 Mill St Ste 110 Lease Est. Monthly NNN	2,300.00
				11.2024 101 Mill St Ste 110 Lease	31,058.32
				11.2024 101 Mill St Ste 110 Wastewater	60.89
TRI MOUNTAIN INVESTORS LLC Total					41,929.64
UNIFIRST CORPORATION	3904	2240153160	Public Safety	10.15.2024 Floor Mats - PD	39.52
		2240153156	Genl Govt/Facilities	10.15.2024 Floor Mats - RACC	3.41
			Public Works	10.15.2024 Floor Mats - RACC	7.08
		2240153158	Genl Govt/Facilities	10.15.2024 Floor Mats - CH	16.46
UNIFIRST CORPORATION Total					66.47
W.W.GRAINGER INC.	206	9280736878	Public Works	PWWTR Reducing Bushing	9.85
W.W.GRAINGER INC. Total					9.85
WA STATE DEPARTMENT OF TRANSPORTATION	688	RE44JD17360L006	Public Works	07.2024 SR501 Pioneer St Corridor Plan Review	4.71
		RE44JD17340L009	Public Works	09.2024 Overpass Safety Screen Plan Review	200.46
		RE44JD17360L007	Public Works	08.2024 SR501 Pioneer St Corridor Plan Review	14.57
WA STATE DEPARTMENT OF TRANSPORTATION Total					219.74
WALLIS ENGINEERING PLLC	464	17715	Public Works	09.2024 Gee Creek Loop Improvements	18,369.01
WALLIS ENGINEERING PLLC Total					18,369.01
WASHINGTON STATE TREASURER	642	0642-Q3.2024	Genl Govt/Facilities	Q3.2024 Building Code Fees	1,120.50
WASHINGTON STATE TREASURER Total					1,120.50
WATERSHED ALLIANCE OF SOUTHWEST WASHINGT	3284	RID-3RDQTR2024	Genl Govt/Facilities	Q3.2024 Horns Corner Park Design	8,084.34
WATERSHED ALLIANCE OF SOUTHWEST WASHINGTON Total					8,084.34
WELLWORKS FOR YOU	3414	33483	Human Resources	10.2024 Wellness Program	793.51
WELLWORKS FOR YOU Total					793.51
WESTERN EQUIPMENT	2363	INV042448	Genl Govt/Facilities	PWFAC Flail Mower Head Attachment - Belting	18.27
			Public Works	PWFAC Flail Mower Head Attachment - Belting	130.61

City of Ridgefield

Claims Payment Report

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WESTERN EQUIPMENT Total					148.88
WILLDAN ENERGY SOLUTIONS	4075	1	Genl Govt/Facilities	City of Ridgefield Energy Efficiency Grade Audit & Energy Serv	104,300.00
WILLDAN ENERGY SOLUTIONS Total					104,300.00
WOODLAND SAW AND CYCLE INC.	2223	3778	Genl Govt/Facilities	Hedge Trimmer Sharpened Blade & New Blade	46.75
			Public Works	Hedge Trimmer Sharpened Blade & New Blade	334.13
		3773	Genl Govt/Facilities	Hedge Trimmer & String Trimmer Maintenance	30.15
			Public Works	Hedge Trimmer & String Trimmer Maintenance	215.50
		3769	Public Works	Weedeater Repair & Maintenance	153.68
WOODLAND SAW AND CYCLE INC. Total					780.21
ZW USA INC.	3063	733606	Genl Govt/Facilities	Dog Waste Bags - Streets	(19.14)
				Dog Waste Bags - Parks	(57.41)
		Public Works	Dog Waste Bags - Streets	239.11	
			Dog Waste Bags - Parks	717.32	
ZW USA INC. Total					879.88
Grand Total					1,647,119.58

**CITY OF RIDGEFIELD
REQUEST FOR COUNCIL ACTION**

MEETING DATE: November 7, 2024

AGENDA ITEM NAME: Approval of Minutes from the October 24, 2024 Meeting

GOVERNING LEGISLATION

N/A

PREVIOUS COUNCIL ACTION TAKEN:

N/A

SUMMARY/BACKGROUND:

Staff has prepared the minutes for Council consideration of adoption for the Council meeting(s).

BUDGET/FINANCIAL IMPACTS:

N/A

RECOMMENDED ACTION OR MOTION:

Approve the minutes by making the following motion: 1. "I move to approve the consent agenda"

STAFF CONTACT:

ATTACHMENTS:

1. 10-24-2024



**CITY OF RIDGEFIELD, WASHINGTON
CITY COUNCIL MEETING MINUTES
OCTOBER 24, 2024**

Regular Meeting - 6:30 PM

I. GENERAL SESSION CALL TO ORDER - 6:30 PM

- 1. Flag Salute**
- 2. Roll Call**

Present:

Mayor Ron Onslow
Mayor Pro Tem Matt Cole
Council Member Lee Wells
Council Member Judy Chipman
Council Member Clyde Burkle
Council Member Katie Favela
Council Member Rian Davis

- 3. Late changes to the agenda**

II. PROCLAMATION

- 1. Lights Out For Birds**

III. PUBLIC COMMENT

Anyone requesting to speak to the Council regarding all items not subject to a specific Public Hearing may come forward at this time. Please state your name and limit comments to three minutes. Written comments may be submitted to the Clerk prior to the meeting.

Comments received during public testimony can be heard on the City's website under [City Council Meeting Audio Files | Ridgefield, WA \(ridgefieldwa.us\)](https://www.ridgefieldwa.us/City-Council/Meeting-Audio-Files).

IV. CONSENT AGENDA

MOTION TO APPROVE AS PRESENTED.

RESULT:	(UNANIMOUS)
MOVER:	Council Member Clyde Burkle

SECONDER:	Council Member Judy Chipman
AYES:	Mayor Onslow, Mayor Pro Tem Cole, Council Member Wells, Council Member Chipman, Council Member Burkle, Council Member Favela, Council Member Davis

1. **Approval of Claims And/Or Payroll**
2. **Approval of Minutes from the October 10, 2024 Meeting**

V. PRESENTATION

1. **Third Quarter Budget to Actual Presentation - Kirk Johnson, Finance Director**

The Finance Director presented the third quarter budget to actual results for the first half of 2024.

2. **2025 Proposed Operating and Capital Budget - Kirk Johnson, Finance Director**

The Finance Director presented the proposed budget impacts for 2025 and requested final direction on development of the 2025 budget.

VI. BUSINESS

1. **Second Reading of Ordinance No. 1433 - Golden Acres Petition to Annex - Claire Lust, Community Development Director**

The Petition to Annex includes one parcel owned by Anthony Golden and adjacent Carty Road right-of-way. The subject parcel is within the Ridgefield Urban Growth Area (UGA) and is contiguous with the Ridgefield city limits to the east (Marrett Hills properties), west (Cosgrove property), and south (Sanderling Park). Therefore, the parcel #216700000 is eligible for annexation. The direct petition method of annexation (RCW 35A.14.120-150) requires that owners of 60% or more of the land value of the proposed annexation area must sign the Petition to Annex. Road values are not included in this calculation. Anthony Golden signed the Petition to Annex. Mr. Golden owns 100 percent of the land value of the property proposed for annexation, exceeding the 60% threshold of the Petition to Annex.

MOTION: MOVED TO ADOPT ORDINANCE NO. 1433 AS PRESENTED.

RESULT:	(UNANIMOUS)
MOVER:	Council Member Katie Favela
SECONDER:	Council Member Clyde Burkle
AYES:	Mayor Onslow, Mayor Pro Tem Cole, Council Member Wells, Council Member Chipman, Council Member Burkle, Council Member Favela, Council Member Davis

2. **Motion - Approval of Waterfront Park Master Plan - Corey Crownhart, Park Manager**

The City and Port of Ridgefield have long-range plans for creating a community waterfront park. The Waterfront Park Master Plan is a partnership between the Port of Ridgefield and the City of Ridgefield. Staff contracted with Walker Macy, a landscape, architecture, planning, and urban design firm, to organize and draft a Master Plan for review and potential adoption by the City Council and Port of Commissioners. Walker Macy has conducted numerous community engagement activities and field surveys over the past few months. This included three open-house events, stakeholder meetings, and field visits with port and city staff. Initial concepts were provided to the public, and with feedback from all parties involved, including the public, a proposed master plan has been drafted for the City Council's consideration. The Council reviewed and discussed the proposed amenities as part of the staff report.

MOTION: MOVED TO APPROVE THE WATERFRONT PARK MASTER PLAN WITH PRESENTED AMENITIES TO BE INCLUDED.

RESULT:	(UNANIMOUS)
MOVER:	Council Member Clyde Burkle
SECONDER:	Council Member Judy Chipman
AYES:	Mayor Onslow, Mayor Pro Tem Cole, Council Member Wells, Council Member Chipman, Council Member Burkle, Council Member Favela, Council Member Davis

3. Motion - Award of contract for Project P22004 I-5 Overpass Protective Safety Screen Project - Chuck Green, Public Works Director

In 2017, the City began planning for enhancing the experience and safety of the Pioneer Street overpass over I-5 including seeking potential federal grants for the project. This concept evolved into building a protective safety fence and screen attached to the overpass, similar to the fence built with the Port of Ridgefield's Pioneer Street overpass over the BNSF railroad into the waterfront. The enhancement component became installing a series of colorful steel sandhill cranes in different stages of flight on screening along the I-5 overpass as well as the Port's railroad overpass that will serve to visually connect downtown Ridgefield with the growing Ridgefield junction area along the interstate. The project will serve as a unique landmark for those traveling past Ridgefield by car on I-5, or by train under the rail overpass. In 2021, the Cowlitz Tribal Foundation donated \$50,000 to help fund the addition of artwork to the screens on the Pioneer Street Rail Overpass and the I-5 overpass. The project also received a Department of Commerce grant for \$328,300 for the I-5 safety screen. In 2019, the Washington State Department of Transportation (WSDOT) provided \$20,000 to launch the overpass safety screen design, with the City contributing additional funds to pay for design work. The City issued an invitation to bid on September 19, 2024. An optional pre-bid meeting was held on October 2, 2024. The bidding process closed and bids were opened October 17, 2024. The invitation to bid included Supplemental Responsible Bidder Criteria and with forms required by regulation and by law, including the Subcontractor List.

Eleven submittals were received at the time of bid opening: Nine bids, one no-bid, and one non-responsive bid. During the bid review, it was determined that JR Construction and Legacy Contracting were both determined to be non-responsive and their bids disallowed for failure to identify the subcontractor performing structural steel work and for failure to identify if they were to self-perform. Tapani's bid package was reviewed and determined to be compliant. Additionally, Tapani's response to the Supplemental Bidder Responsibility Criteria was received on time, but the responses from JR Construction and Legacy Contracting were received after the 48 business hour window of the request. A review of Tapani's Supplemental Responsible Bidder Criteria response indicates they have experience directly applicable to this project with three projects, two of which had complex traffic control coordination with WSDOT and one from the Port of Ridgefield overpass and protective screen/fence project. The protective screen/fence was installed with that project which was opened in 2021. All three projects that were submitted received excellent reviews from the project sponsors for their work. Tapani has been determined to be qualified to do the work on this project.

MOTION: MOVED TO AWARD THE CONSTRUCTION CONTRACT FOR THE I-5 OVERPASS PROTECTIVE SAFETY SCREEN PROJECT TO TAPANI, INC. BATTLE GROUND, WASHINGTON, IN THE AMOUNT OF \$378,821.20 PLUS AN ADDITIONAL \$50,000 FOR CONTINGENCIES.

RESULT:	(UNANIMOUS)
MOVER:	Council Member Lee Wells

SECONDER:	Council Member Clyde Burkle
AYES:	Mayor Onslow, Mayor Pro Tem Cole, Council Member Wells, Council Member Chipman, Council Member Burkle, Council Member Favela, Council Member Davis

4. Second Reading of Ordinance No. 1430 - Changes to Posted and Unposted Speed Limits for Portions of Pioneer Street, S. 15th Street, S 35th Place, S. 10th Way, S 25th Place, S. 4th Way, S. Wells Drive, S 11th Street, Union Ridge Parkway and S Hillhurst Road - Chuck Green, Public Works Director

At the October 10, 2024 meeting, Council postponed action on this item to the October 24, 2024 meeting. This is the second reading and request for action of proposed permanent speed limit changes on various roadways within the City. These were presented to Council during presentations as part of the Horizontal Curves Safety Project on September 12, and the public hearing and first reading of Ordinance 1430 at the September 26 Council meeting.

To summarize, these proposals are the outcome of a comprehensive safety study of city collectors and arterial, with particular emphasis on horizontal curves, as well as safety for all users. The engineering study conducted by the City Engineer considered prevailing speed, land use context and roadway conditions, including:

- Roadway environment, including roadside development, number and frequency of driveways and access points, and land use);
- Functional classification (principal or minor arterial, collector, etc.);
- Presence of on-street parking;
- Pedestrian and bicycle facilities and activity;
- Roadway characteristics such as lane widths, shoulder condition, grade, alignment, median type, and sight distance;
- Geographic context such as an urban district, rural town center, non-urbanized rural area, suburban area, and scenic corridors;
- Reported crash experience for at least a 12-month period (including from both the 2022 and 2024 Ridgefield City Safety Plans); and
- A review of past speed studies to identify any trends in operating speeds.

The results of the engineering study include proposed speed limit changes for the following locations:

- Pioneer Street, east of 9th Avenue/Hillhurst to 65th Avenue, reduce from 40 mph to 35 mph;
- S. 15th Street/S 35th Place/S. 10th Way/S 25th Place, west of S Royle Road, establish a 25 mph speed limit for the entire scenic collector (Gee Creek Plateau)
- S. 4th Way, S 21st Place to S 25th Place, establish a 20 mph speed limit
- S. Wells Drive, Royle Rd. to future Discovery Drive (approximately 5500 block), reduce from 35 mph to 30 mph;
- Union Ridge Parkway, S 5th Street to Pioneer Street, establish a 35 mph speed limit;
- Union Ridge Parkway, north of Pioneer Street along Clark College building to a future extension to N 10th Street, establish a 25 mph speed limit for the current and future corridor
- S Hillhurst Road, Great Blue to south of Carty Road, reduce from 35 mph to 30 mph.

Following the staff report, the City Council discussed proposed changes to speed limits and presented the

following motion.

MOTION: MOVED TO APPROVE ORDINANCE NO. 1430 TO INCLUDE THE FOLLOWING CHANGES AND ADDITIONS TO SPEED LIMITS OF THE FOLLOWING CITY STREETS:

- **Gee Creek Plateau Corridor** from Royle Road west to S. 25th Place: **25 MPH**
- **S 4th Way**: **20 MPH**
- **Union Ridge Parkway**, from S 5th Street to Pioneer Street: **35 MPH**
- **Union Ridge Parkway**, from Pioneer Street to S. 10th Street: **25 MPH**
- **S Hillhurst Road**, from S. Great Blue Road to NW 229th Street: **35 MPH** *(no change from current speed)*
- **S Wells Drive**, from Royle Road to the future Discovery Drive: **35 MPH** *(no change from current speed)*
- **Pioneer Street**, east of 9th/Hillhurst Road to 65th Avenue: **35 MPH**

RESULT:	(UNANIMOUS)
MOVER:	Mayor Pro Tem Matt Cole
SECONDER:	Council Member Clyde Burkle
AYES:	Mayor Onslow, Mayor Pro Tem Cole, Council Member Wells, Council Member Chipman, Council Member Burkle, Council Member Favela, Council Member Davis

VII. PUBLIC HEARING/BUSINESS

1. Public Hearing and Action on Resolution 656 - Adoption of Water System Plan Update and Water Use Efficiency Goals - Chuck Green, Public Works Director

State regulations require municipal water suppliers to maintain a Department of Health-approved Water System Plan (WSP), with the City’s last approval in 2013. The updated 2024 WSP, prepared in collaboration with partners including Clark Public Utilities, Clark Cowlitz Fire Rescue, and the Cowlitz Indian Tribe, addresses a 20-year planning strategy for water system capacity, efficiency, and capital facilities needs. Water Use Efficiency (WUE) goals for the next 6 years have also been updated and reviewed by the community. A public hearing is required for Council to take action on the WSP and WUE goals, both mandated by the Washington State DOH.

Mayor Onslow Opened the Hearing: 9:10PM

No testimony was received.

Mayor Onslow Closed the Hearing: 9:11PM

MOTION: MOVED TO APPROVE RESOLUTION NO. 656 TO ADOPT THE WATER SYSTEM PLAN 2024 UPDATE AND WATER USE EFFICIENCY GOALS AS PRESENTED.

RESULT:	(UNANIMOUS)
MOVER:	Council Member Katie Favela
SECONDER:	Council Member Judy Chipman
AYES:	Mayor Onslow, Mayor Pro Tem Cole, Council Member Wells, Council Member Chipman, Council Member Burkle, Council Member Favela, Council Member Davis

VIII. PUBLIC COMMENT

Anyone requesting to speak to the Council regarding all items not subject to a specific Public Hearing may come forward at this time. Please state your name and limit comments to three minutes. Written comments may be submitted to the Clerk prior to the meeting.

Comments received during public testimony can be heard on the City's website under [City Council Meeting Audio Files | Ridgefield, WA \(ridgefieldwa.us\)](#).

IX. COUNCIL/PRESIDING OFFICER/STAFF REPORTS

1. Council

Council Member Wells: Attended the AIG open house, City Manager briefing, and a ribbon-cutting ceremony.

Council Member Burkle: Attended the AIG open house, ribbon-cutting ceremony, volunteered for the Green Bag Project, participated in the budget advisory meeting, and attended the City Manager briefing.

Council Member Favela: Reminded the Council that the last high school football game is on Friday, October 25.

Council Member Chipman: Provided an update on Neighbors Helping Neighbors, attended the ribbon-cutting ceremony, and participated in the City Manager briefing.

Council Member Davis: Attended the ribbon-cutting ceremony and the WSU Identity Clark County event.

Mayor Pro Tem Cole: Attended the ribbon-cutting ceremony and gave an update on the school board vacancy appointment.

2. Mayor

Mayor Onslow: Attended the City Manager briefing, ribbon-cutting ceremony, YMCA meeting, meetings with the County Council, AIG open house, and ICC meeting.

3. City Manager

Public Works Director Chuck Green: Provided an update on the Pioneer Street closure.

Deputy City Manager Lee Knottnerus: Provided an update on the First Saturday event.

X. ADJOURN

9:32PM

Julie Ferriss, City Clerk

Ron Onslow, Mayor

**CITY OF RIDGEFIELD
REQUEST FOR COUNCIL ACTION**

MEETING DATE: November 7, 2024

AGENDA ITEM NAME: Motion to Approve the Submission of a DWSRF Loan to Fund Construction of the Elevated Water Reservoir

GOVERNING LEGISLATION

RCW 35A.40 Fiscal Provisions Applicable to Code Cities, Financial Policy #01: Financial Management; Financial Policy #07: Budget; and Financial Policy #10: Debt Management.

PREVIOUS COUNCIL ACTION TAKEN:

On October 12, 2023, the City Council approved an application for a \$510,000 Drinking Water State Revolving Fund (DWSRF) Pre-Construction loan to pay for planning for the new Eastside Elevated Reservoir. On February 22, 2024, Council approved the Motion to Award a Design Consultant Contract for the Eastside Elevated Water Reservoir Project. On the same date, Council was presented with the Water System Plan Update that prioritizes the Eastside Elevated Reservoir project. On September 26, 2024, the Council approved a Request for Council Action to apply for a Bureau of Reclamation Drought Resiliency grant application for \$3 million.

SUMMARY/BACKGROUND:

The City's Water System Plan Update (2024) found that Ridgefield will be in a water storage deficit as early as 2026 with its current infrastructure. Accordingly, the plan recommends the Eastside Elevated Reservoir, a new 2.5 million gallon elevated tank reservoir with an estimated cost of \$24 million, as a high priority project. The Eastside Elevated Reservoir will increase the City's water storage capacity by 225%, would ensure adequate water storage for the City for the next 20 years, and would have a 100-year lifespan.

On October 12, 2023, the City Council approved an application for a Drinking Water State Revolving Fund (DWSRF) 0% interest rate 10-year loan for \$510,000 to help pay for the design of the Eastside Elevated Reservoir.

The City Council approved the Motion to Award of Design Consultant Contract for the Eastside Elevated Reservoir in February 2024 to Consor. The plans for the reservoir should be completed by spring 2025, allowing for construction to start in the summer or fall of 2025. It is estimated that the project will take 24 months to complete once construction begins.

On September 26, 2024, the Council approved a grant application for part of the construction costs through the Department of the Interior's Bureau of Reclamation Drought Resiliency Program. The maximum award amount is \$3 million, which requires a local match of at least \$3 million. This local match may be paid out of any non-Federal source, including Drinking Water State Revolving Fund loans.

The current proposed DWSRF loan would be for the construction portion of the Eastside Elevated

Reservoir. DWSRF Construction loans are competitive 20-year loans for up to \$15 million.

BUDGET/FINANCIAL IMPACTS:

DWSRF Construction loans have a maximum loan size of \$15 million. A nonrefundable 1% loan service fee is assessed at contract execution and can be part of the loan amount, making the total loan amount \$15,150,000. The standard loan is a 20-year loan with a 2.25% interest rate.

RECOMMENDED ACTION OR MOTION:

If the Council chooses to approve the submission of the loan application, a motion could be:

"I move to approve the consent agenda as presented."

STAFF CONTACT: Kirk Johnson, Finance Director

ATTACHMENTS:

None

**CITY OF RIDGEFIELD
REQUEST FOR COUNCIL ACTION**

MEETING DATE: November 7, 2024

AGENDA ITEM NAME: Public Hearing on 2025 Property Tax Levy and Revenue Sources

GOVERNING LEGISLATION

RCW 35A.33 Budgets in Code Cities, RCW 84.55.120 Public Hearing - Taxing Districts Revenue Sources - Adoption of Tax Increase by Ordinance or Resolution, Financial Policy #07: Budget

PREVIOUS COUNCIL ACTION TAKEN:

Council conducts a public hearing annually to review proposed revenue sources as part of the budget adoption process. The Council has held multiple public meetings on the 2025 Proposed Budget.

SUMMARY/BACKGROUND:

The 2025 revenue budget totals \$63.9 million, including \$24.2 million in internal transfers for capital projects including \$13.8 million of the remaining bond funds, \$3.3 million for governmental debt service, and \$0.9 million in internal transfers to support street operations and maintenance. \$3.4 million in new grant funding, and \$3.5 million in new debt issuance. In comparison, the 2024 amended revenue budget was \$122.6 million, with \$49.4 million associated with internal transfers from existing funds. The overall net increase/decrease in the proposed revenue budget when compared to the 2024 amended budget is approximately \$58.7 million, a 47.9% decrease.

BUDGET/FINANCIAL IMPACTS:

Please refer to the attached reports and presentation.

RECOMMENDED ACTION OR MOTION:

Staff requests council conduct a public hearing on 202 revenue sources and conduct the first reading of Ordinance No. 1435, 1436, and 1437.

STAFF CONTACT: Kirk Johnson, Finance Director

ATTACHMENTS:

1. 2025 Revenue Hearing



2025 Proposed Budget Revenue Forecast

November 7, 2024



2025 Proposed Budget Agenda

2025 Revenue Projections

- Operating Funds
- Capital Service Funds
- Special Revenue Funds
- Capital Project Funds



2025 Proposed Revenue Budget Summary

		2024 Amended Budget	2025 Proposed Budget	Percentage Change
Operating Funds				
001	General Fund	\$ 12,271,686	\$ 13,603,165	10.85%
101	Street Fund	1,599,960	1,416,190	-11.49%
402	Building and Permitting	1,822,000	2,512,000	37.87%
406	Water Operating	3,422,500	3,933,000	14.92%
408	Stormwater Operating	1,782,700	2,276,500	27.70%
Total Operating Funds		20,898,846	23,740,855	13.60%
Capital Service Funds				
105	Real Estate Excise Tax	1,725,000	2,040,000	18.26%
114	Park Impact Fee	251,250	215,250	-14.33%
115	Traffic Impact Fee	568,250	465,250	-18.13%
416	Water Utility SDC	1,750,000	1,750,000	0.00%
Total Capital Service Funds		4,294,500	4,470,500	4.10%
Special Revenue Funds				
111	Drug Fund	1,510	1,510	0.00%
130	Tax Increment Area	-	30,000	100.00%
140	Affordable Housing	25,000	25,000	0.00%
150	Transportation Benefit District	850,100	1,168,000	37.40%
Total Special Revenue Funds		876,610	1,224,510	39.69%
Debt Service				
200	Debt Service	34,454,680	3,324,765	-90.35%
Total Debt Service		34,454,680	3,324,765	-90.35%
Capital Projects & ERF				
300	General Capital Projects	47,974,350	20,924,600	-56.38%
410	Water Utility Capital Projects	10,248,000	7,531,000	-26.51%
412	Storm Water Utility Capital Projects	3,589,000	2,404,000	-33.02%
501	Equipment Replacement (ERF)	275,050	284,100	3.29%
Total Capital Projects & ERF		62,086,400	31,143,700	-49.84%
Total Revenue All Sources		\$ 122,611,036	\$ 63,904,330	-47.88%



2025 Revenue Forecast

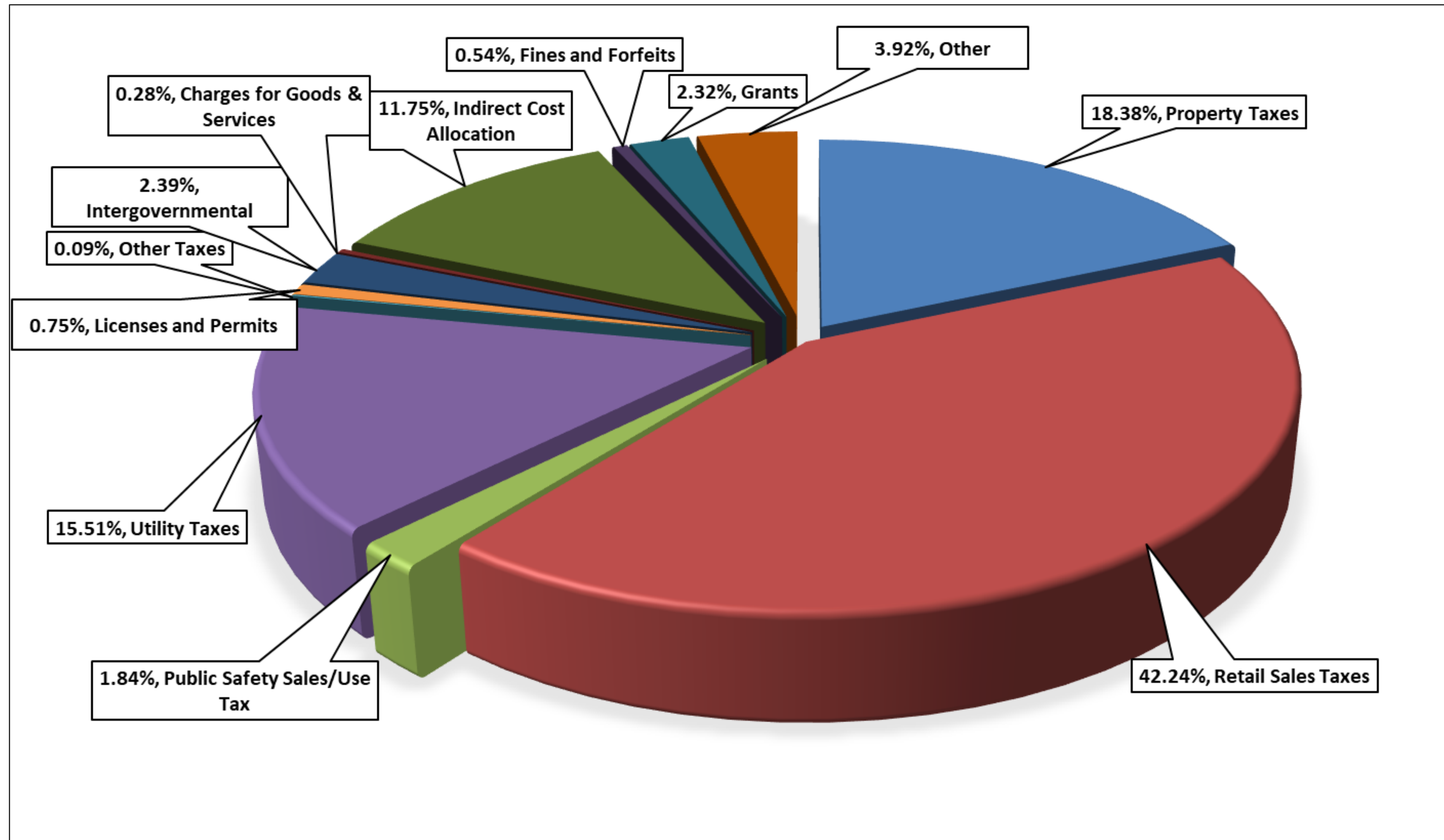
General Fund

Description	2024 Amended Budget	2025 Proposed Budget	Percentage Change
001 General Fund			
Revenue			
Property Tax	2,340,000	2,500,000	6.84%
Retail Sales & Other Tax	4,517,000	5,758,000	27.47%
Public Safety Sales/Use Tax	230,000	250,000	8.70%
Utility Taxes	2,052,500	2,110,000	2.80%
License & Permits	97,180	102,240	5.21%
Fines & Forfeits	72,000	73,000	1.39%
Charge for Goods & Services	1,526,006	1,635,880	7.20%
Intergovernmental/Grant	839,500	640,945	-23.65%
Other Revenue/Donations	597,500	533,100	-10.78%
Transfers In	-	-	0.00%
General Fund Revenue	12,271,686	13,603,165	10.85%



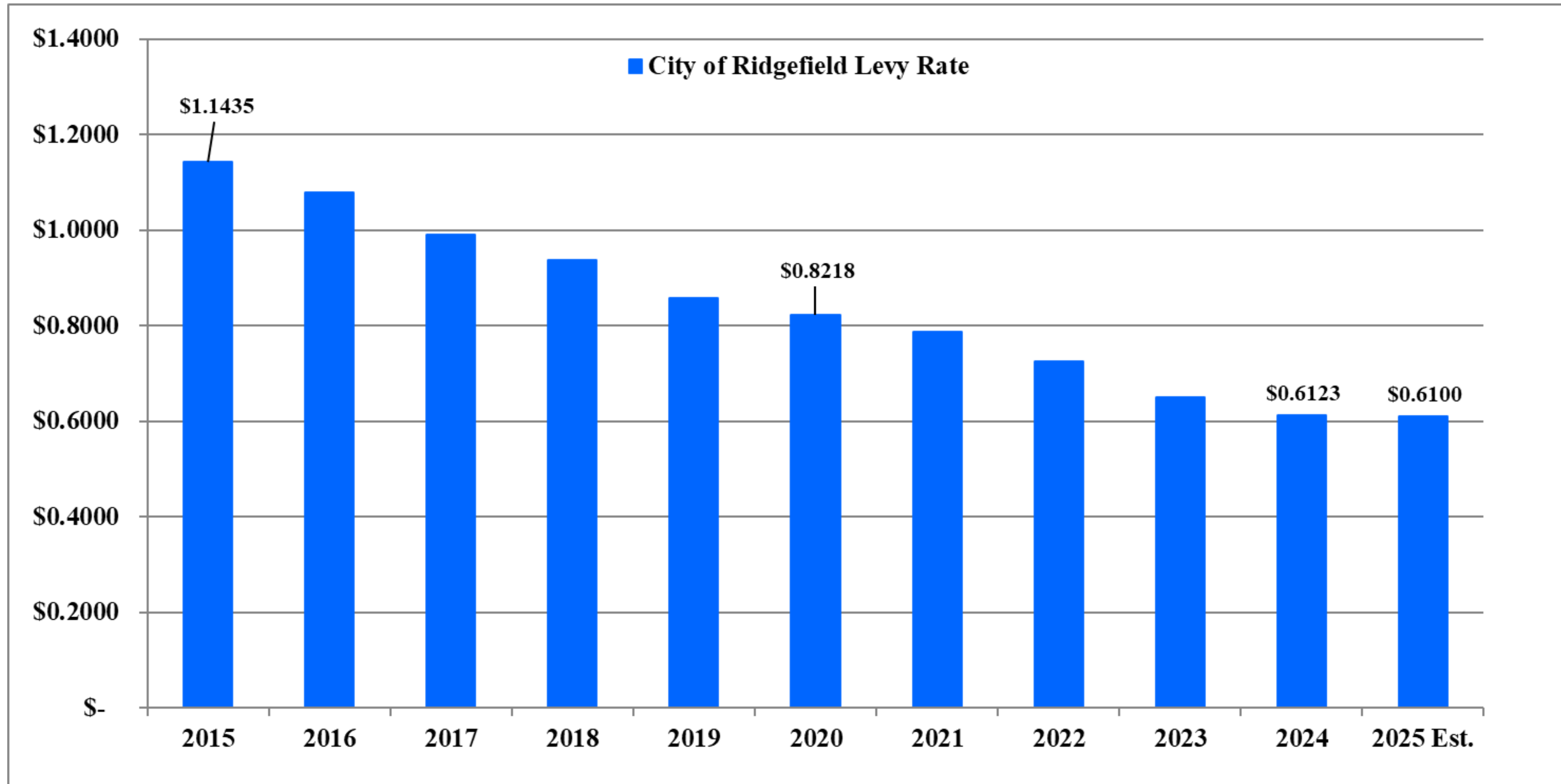
2025 Revenue Forecast

General Fund Revenue Sources



2025 Revenue Forecast

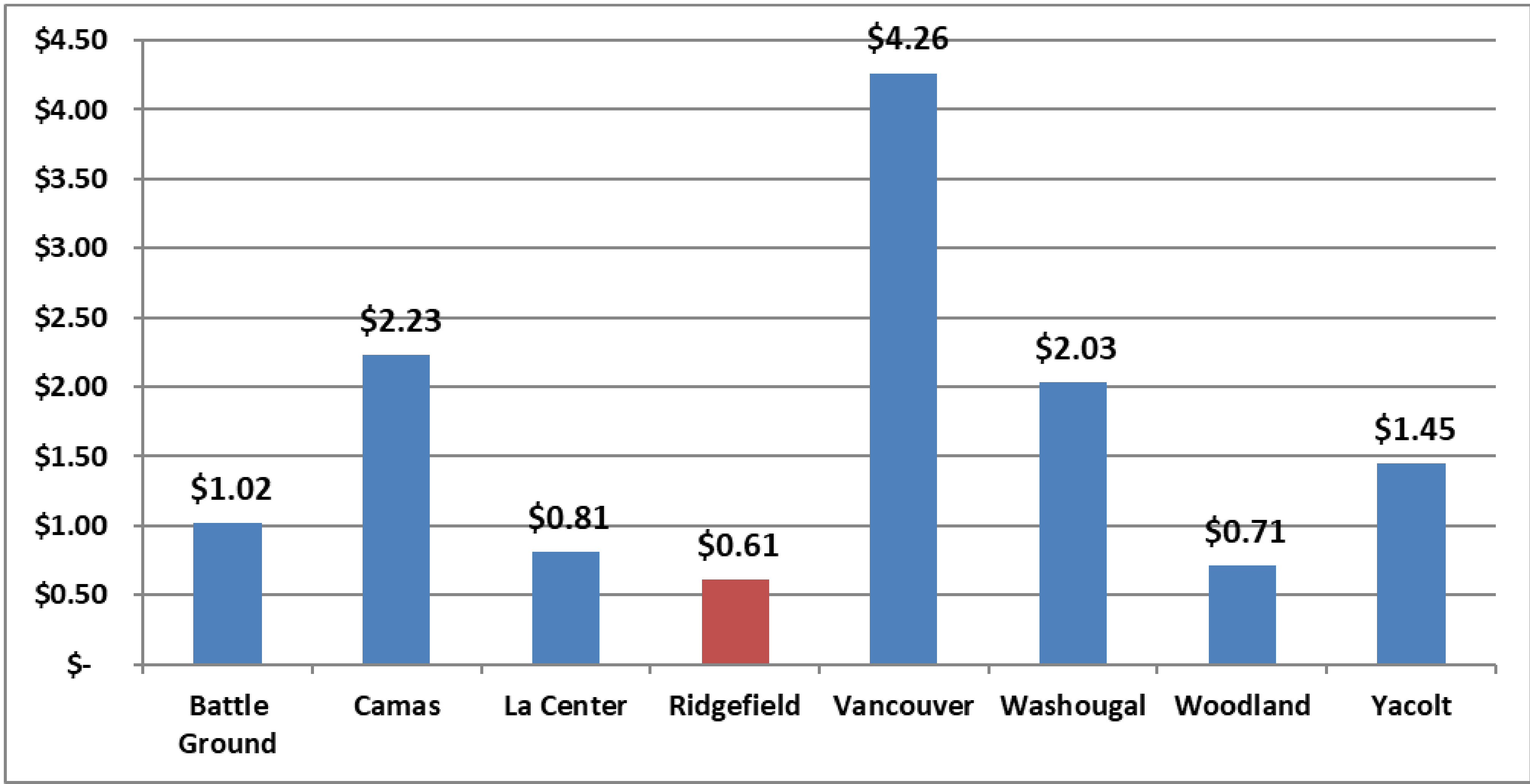
Property Tax Levy



1% statutory increase in the levy amount is \$23,320, New construction is \$176.9 million or \$108,338 increase in the levy amount.

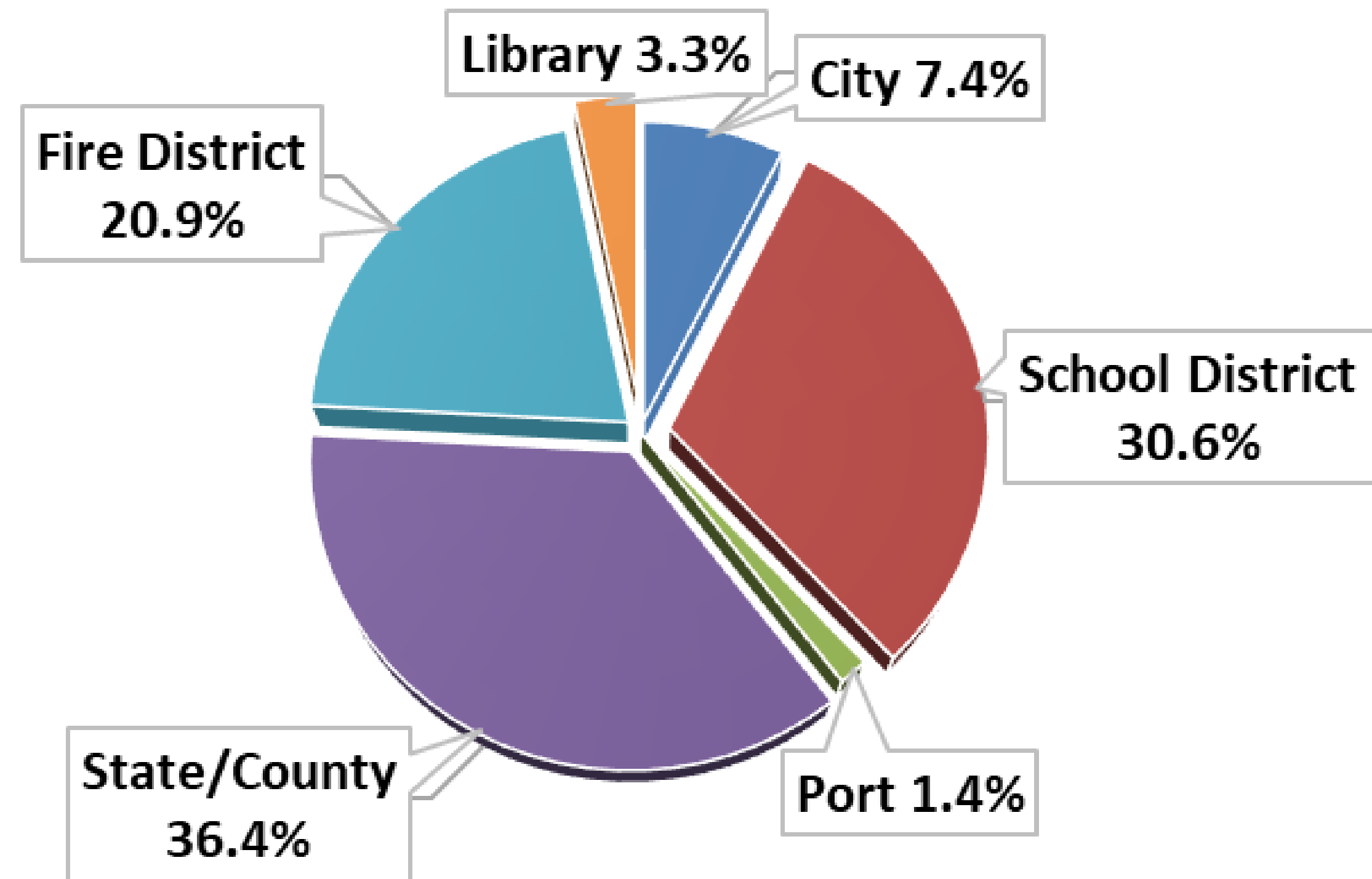


2024 Property Tax Levy Comparisons by Entity

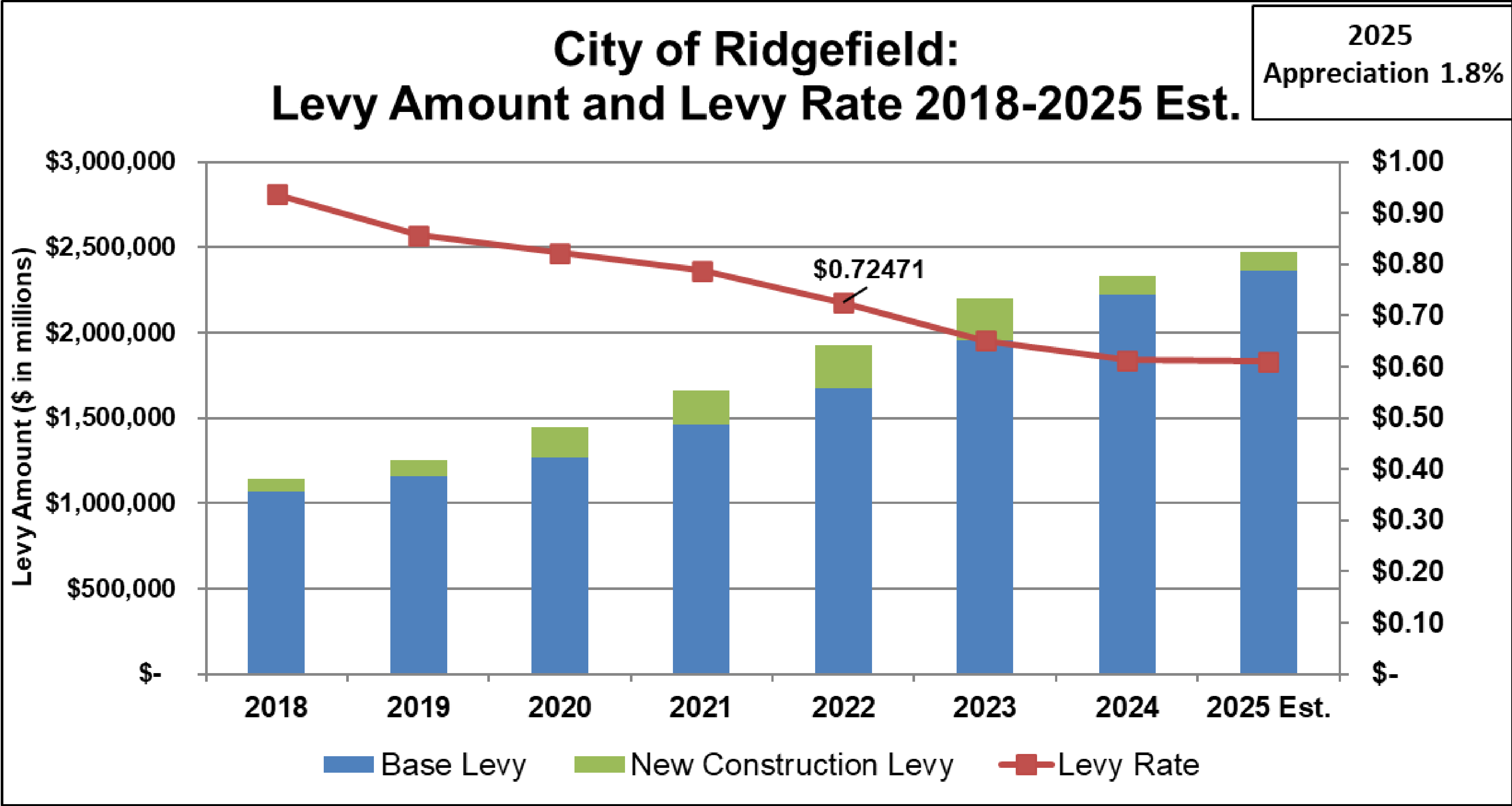


2024 Property Tax Levy Comparisons

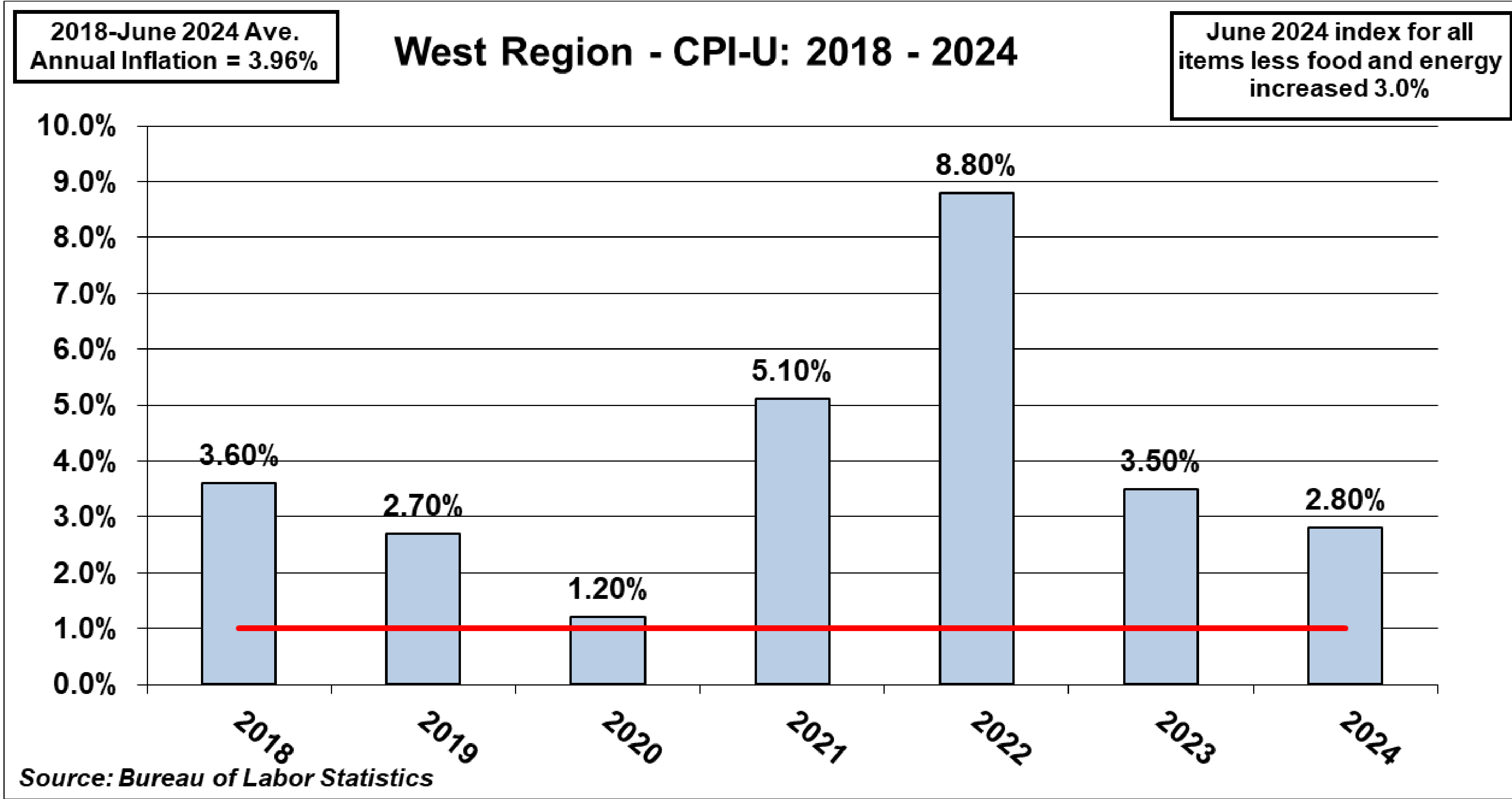
2024 Property Tax by Taxing Authority



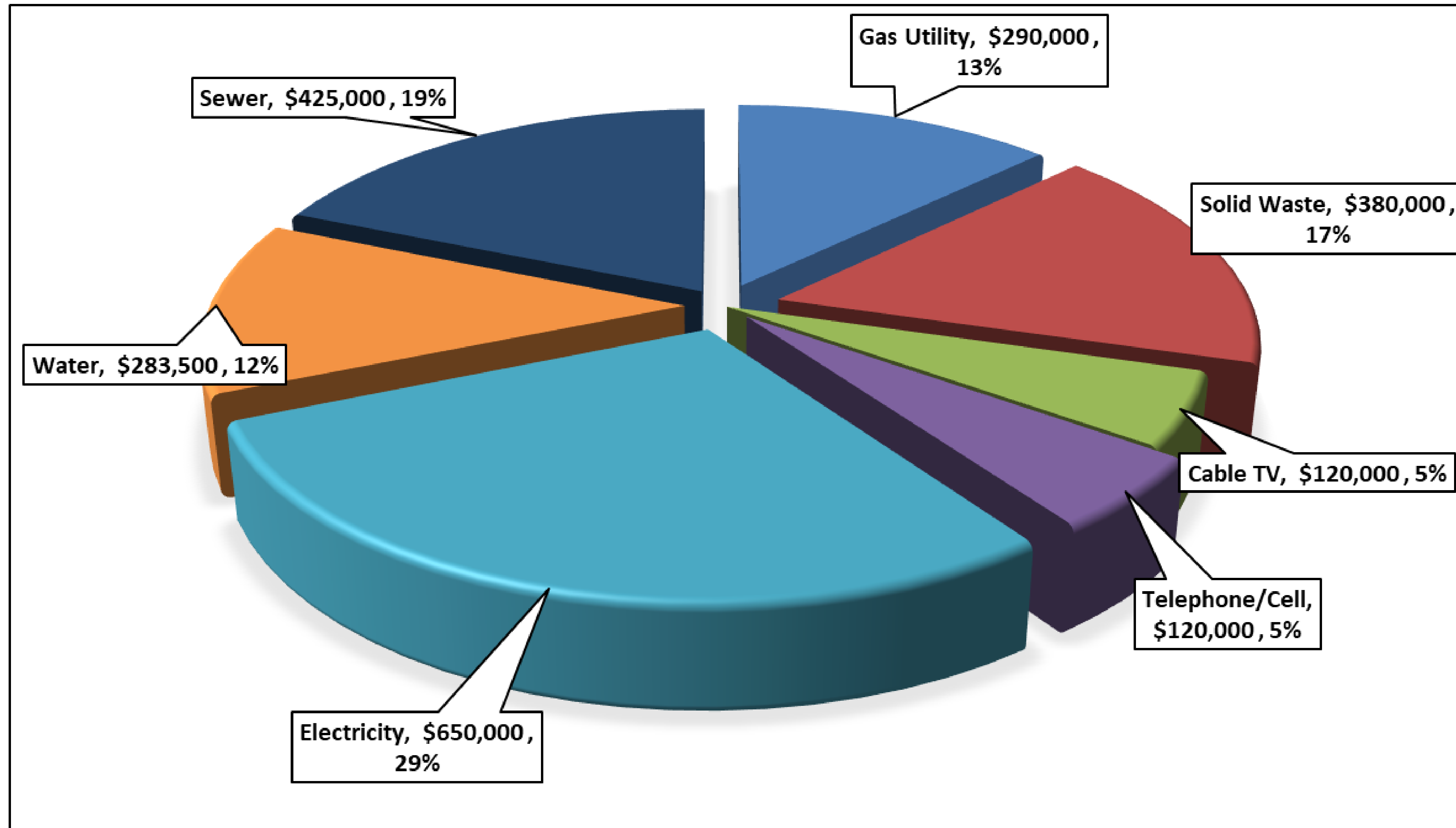
2025 Property Tax Assessed Values



2024 Property Tax Levy Comparison to Inflation



2025 Utility Tax by Source



2025 Revenue Forecast

Street Fund and Building and Permitting Fund

Description	2024 Amended Budget	2025 Proposed Budget	Percentage Change
101 Street Fund			
Revenue			
Utility Tax/Franchise Fee	149,000	158,500	6.38%
Permits	20,000	20,000	0.00%
Grants	56,000	-	-100.00%
Intergovernmental	296,500	307,165	3.60%
Other Revenue	25,525	25,525	0.00%
Transfers In	1,052,935	905,000	-14.05%
Street Fund Revenue	1,599,960	1,416,190	-11.49%
402 Building/Permitting			
Revenue			
Permits	872,000	1,302,000	49.31%
Planning and Development	935,000	1,195,000	27.81%
Other Revenue	15,000	15,000	0.00%
Building/Permitting Revenue	1,822,000	2,512,000	37.87%



2025 Revenue Forecast

Water Utility and Storm Water Utility Funds

Description	2024 Amended Budget	2025 Proposed Budget	Percentage Change
406 Water Utility Fund			
Revenue			
Charges for Goods and Services	3,369,000	3,827,000	13.59%
Grants	-	30,000	100.00%
Other Revenue	53,500	76,000	42.06%
Transfers In	-	-	0.00%
Water Utility Fund Revenue	3,422,500	3,933,000	14.92%
408 Stormwater Utility Fund			
Revenue			
Charges for Goods and Services	1,642,200	2,265,000	37.92%
Grants	130,000	-	-100.00%
Other Revenue	10,500	11,500	9.52%
Transfers In	-	-	0.00%
Stormwater Utility Fund Revenue	1,782,700	2,276,500	27.70%



2025 Revenue Forecast

Utility Rate Comparisons

Agency	Water	Utility Tax	Monthly Avg.	Notes
Ridgefield 2024	27.95	8.00%	30.18	
Ridgefield 2025	28.81	8.00%	31.11	a
Battle Ground	30.31	12.00%	33.95	
Camas	34.34	2.00%	35.03	
Clark County Unincorporated	23.80	0.00%	23.80	b, c, d
La Center	23.80	6.00%	25.23	b
Vancouver	35.89	28.90%	35.89	e
Washougal	42.03	10.00%	42.03	f

a) Water and storm water rate increase. Per rate model (3%)

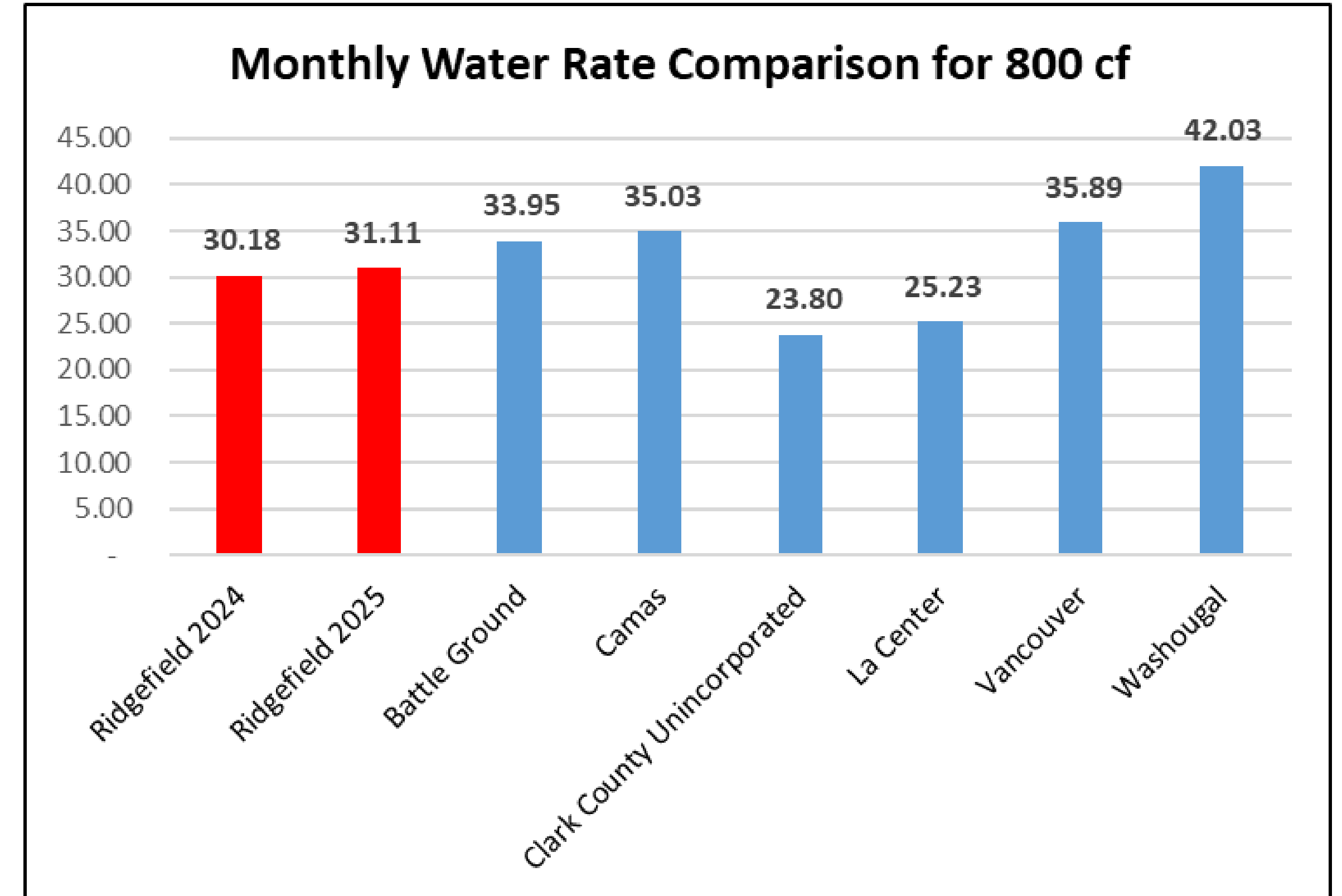
b) Water offered through Clark Public Utilities

c) Sewer offered through Clark Regional Wastewater District

d) Storm Water rate inside urban growth area of unincorporated Clark County

e) The City of Vancouver includes taxes in the rates and does not break them out externally

f) The City of Washougal includes taxes in the rates and does not break them out externally



2025 Revenue Forecast

Utility Rate Comparisons

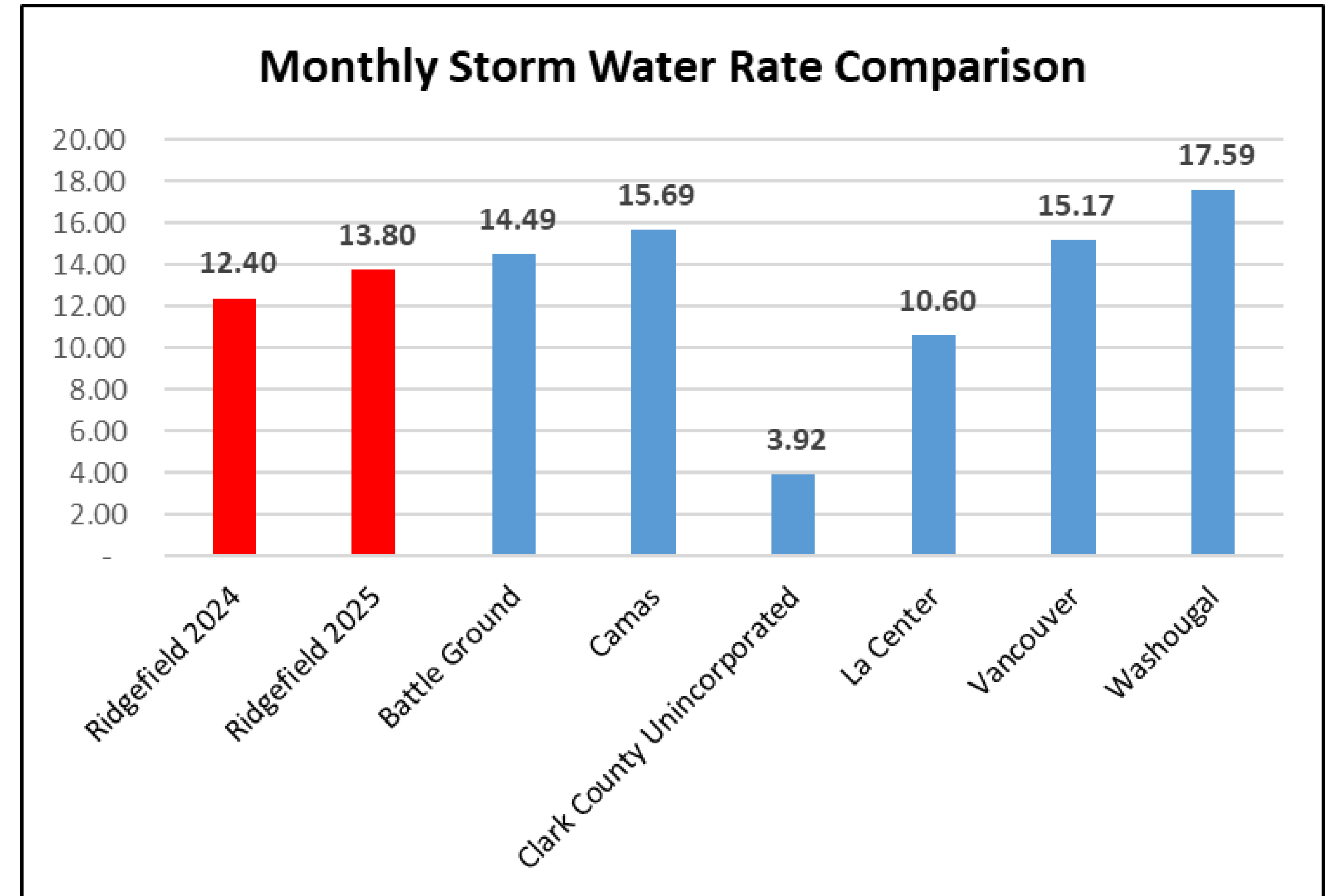
Agency	Storm	Utility Tax	Monthly Avg	Notes
Ridgefield 2024	12.40	0.00%	12.40	
Ridgefield 2025	13.80	0.00%	13.80	a
Battle Ground	12.94	12.00%	14.49	
Camas	15.38	2.00%	15.69	
Clark County Unincorporated	3.92	0.00%	3.92	b
La Center	10.60	0.00%	10.60	
Vancouver	15.17	28.90%	15.17	c
Washougal	17.59	6.00%	17.59	d

a) Storm water rate increase \$2.80 per month

b) Storm Water rate inside urban growth area of unincorporated Clark County

c) he City of Vancouver includes taxes in the rates and does not break them out externally

d) The City of Washougal includes taxes in the rates and does not break them out externally



2025 Revenue Forecast

City of Ridgefield Sewer Rates

MONTHLY SEWER SERVICE	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Base Rate (Central Service Area)	\$ 36.00	\$ 37.00	\$ 38.00	\$ 38.00	\$ 38.00	\$ 39.00	\$ 40.00	\$ 41.00	\$ 42.00	\$ 43.50	\$ 45.00	\$ 46.50
System Integration Charge	19.00	18.80	18.50	17.70	17.00	16.60	15.60	13.80	11.60	10.00	9.40	8.60
Total Sewer Service Charge	55.00	55.80	56.50	55.70	55.00	55.60	55.60	54.80	53.60	53.50	54.40	55.10
City Operating Fee (10%)	5.50	5.58	5.65	5.57	5.50	5.56	5.56	5.48	5.36	5.35	5.44	5.51
TOTAL BILL PER ERU/MONTH	\$ 60.50	\$ 61.38	\$ 62.15	\$ 61.27	\$ 60.50	\$ 61.16	\$ 61.16	\$ 60.28	\$ 58.96	\$ 58.85	\$ 59.84	\$ 60.61

SYSTEM DEVELOPMENT CHARGES	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SDC per ERU	\$7,550.00	\$7,550.00	\$7,550.00	\$7,550.00	\$7,550.00	\$7,950.00	\$8,350.00	\$8,750.00	\$8,750.00	\$9,450.00	\$10,112.00	\$10,819.00

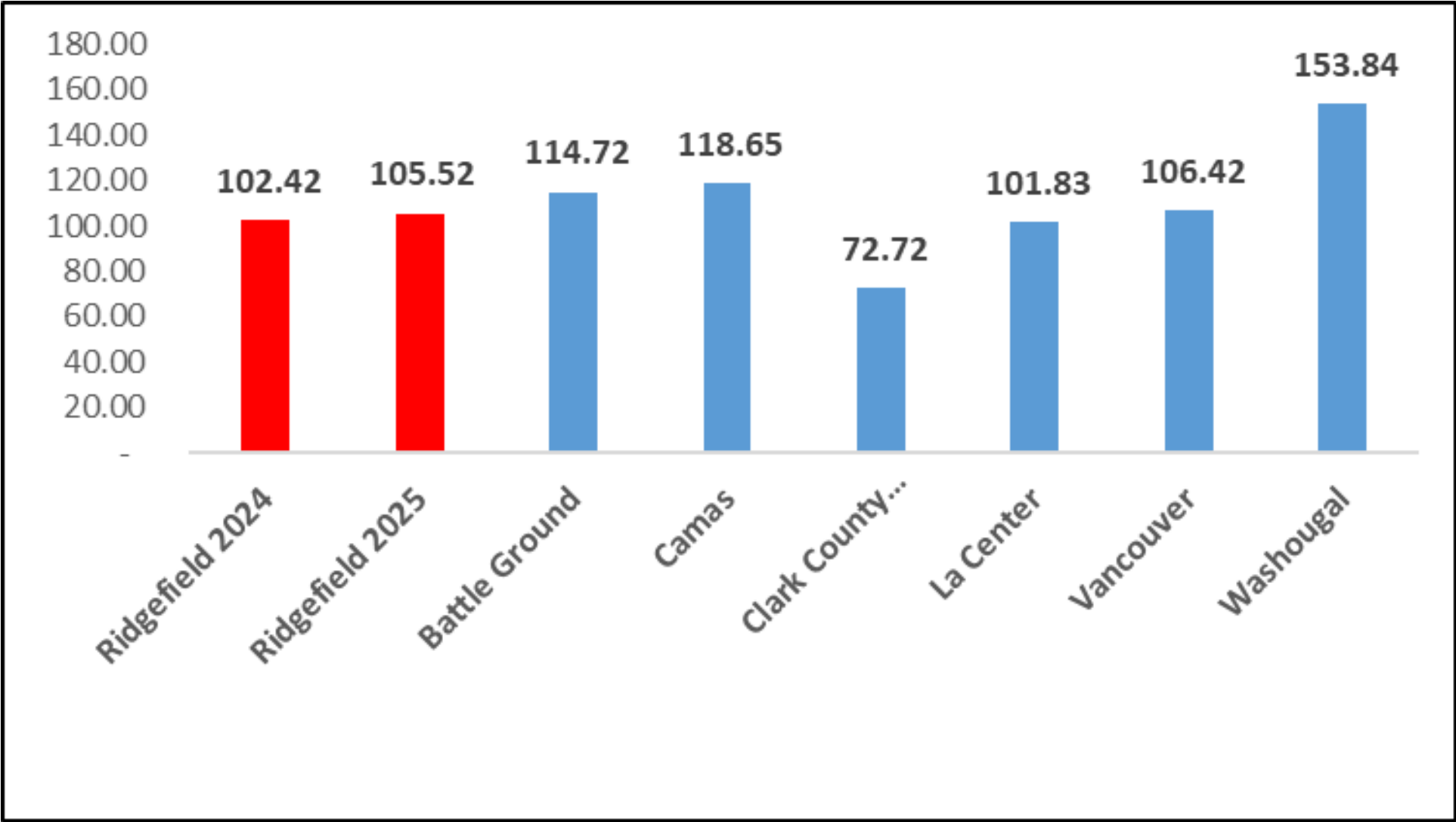


2025 Revenue Forecast

Clark County Utility Rate Comparison

Agency	Water	Utility Tax	Sewer	Operating Fee/ Utility Tax	Storm	Utility Tax	Rate w/Utility Tax	Rate w/o Utility Tax	Notes
Ridgefield 2024	27.95	8.00%	54.40	10.00%	12.40	0.00%	102.42	94.75	
Ridgefield 2025	28.81	8.00%	55.10	10.00%	13.80	0.00%	105.52	97.71	
Battle Ground	30.31	12.00%	59.18	12.00%	12.94	12.00%	114.72	102.43	
Camas	34.34	2.00%	66.60	2.00%	15.38	2.00%	118.65	116.32	
Clark County Unincorporated	23.80	0.00%	45.00	0.00%	3.92	0.00%	72.72	72.72	a, b
La Center	23.80	6.00%	66.00	0.00%	10.60	0.00%	101.83	100.40	a
Vancouver	35.89	28.90%	55.36	28.90%	15.17	28.90%	106.42	75.66	c
Washougal	42.03	10.00%	94.22	9.07%	17.59	6.00%	153.84	140.28	d

- a) Water offered through Clark Public Utilities.
b) Sewer offered through Clark Regional Wastewater District
c) The City of Vancouver includes taxes in the total rates and does not break them out externally
d) The City of Washougal includes taxes in the total rates and does not break them out externally



2025 Revenue Forecast

Capital and Special Revenue Funds

		<i>2024 Amended Budget</i>	<i>2025 Proposed Budget</i>	<i>Percentage Change</i>
<i>Capital Service Funds</i>				
105	Real Estate Excise Tax	1,725,000	2,040,000	18.26%
114	Park Impact Fee	251,250	215,250	-14.33%
115	Traffic Impact Fee	568,250	465,250	-18.13%
416	Water Utility SDC	1,750,000	1,750,000	0.00%
<i>Total Capital Service Funds</i>		<i>4,294,500</i>	<i>4,470,500</i>	<i>4.10%</i>
<i>Special Revenue Funds</i>				
111	Drug Fund	1,510	1,510	0.00%
130	Tax Increment Area	-	30,000	100.00%
140	Affordable Housing	25,000	25,000	0.00%
150	Transportation Benefit District	850,100	1,168,000	37.40%
<i>Total Special Revenue Funds</i>		<i>876,610</i>	<i>1,224,510</i>	<i>39.69%</i>



2025

Revenue Forecast

General Capital and ERF Funds

		2024 Amended Budget	2025 Proposed Budget	Percentage Change
Debt Service				
200	Debt Service	34,454,680	3,324,765	-90.35%
	Total Debt Service	34,454,680	3,324,765	-90.35%
Capital Projects & ERF				
300	General Capital Projects	47,974,350	20,924,600	-56.38%
410	Water Utility Capital Projects	10,248,000	7,531,000	-26.51%
412	Storm Water Utility Capital Projects	3,589,000	2,404,000	-33.02%
501	Equipment Replacement (ERF)	275,050	284,100	3.29%
	Total Capital Projects & ERF	62,086,400	31,143,700	-49.84%

Capital Project Funding Includes

New Grant Funding	\$3,037,370
Partner/Developer Share	\$850,000
Debt Issuance	\$3,459,000
Internal Transfers	\$16,932,230



2025 Proposed Budget Next Steps

- November
 - “2025 Proposed Budget” released to the public 11/1/2024
 - Review 2025 property tax levy 11/7 and 11/21 6:30 PM
 - Review 2025 utility rates 11/7 and 11/21 6:30 PM
 - Conduct public hearing on “2025 Proposed Budget” 11/21 6:30 PM
- December
 - Conduct public hearing on “2025 Proposed Budget” 12/5 6:30 PM
 - Adopt “2025 Proposed Budget” 12/5 6:30 PM
 - Transmit 2025 budget to MRSC and State Auditor





THANK YOU

**CITY OF RIDGEFIELD
REQUEST FOR COUNCIL ACTION**

MEETING DATE: November 7, 2024

AGENDA ITEM NAME: First Reading of Ordinance No. 1435 - 2025 Property Tax Levy and Revenues

GOVERNING LEGISLATION

RCW 84.55.120 Public Hearing - Tax District's Revenue Sources - Adoption of Tax Increases by Ordinance or Resolution, RCW 84.52 Levy of Taxes, RCW 35A.33 Budgets in Code Cities, Financial Policy #07: Budget

PREVIOUS COUNCIL ACTION TAKEN:

Council adopts a property tax levy annually.

SUMMARY/BACKGROUND:

The 2025 budget includes the statutory maximum 1% increase in the current property tax levy exclusive of additional revenue resulting from new construction, improvements to property, any increase in the value of state assessed property, and annexations that have occurred, and including any refunds made.

The Implicit Price Deflator (IPD) Rate exceeds 1% for setting 2025 property taxes: The IPD inflation rate as of September 25, 2024, is 2.57%. This means all taxing districts with populations of 10,000 or greater can take the full 1% levy increase in 2025 without adopting a Resolution or Ordinance of "substantial need."

The 2024 regular levy amount was \$2,332,022. The statutory 1% increase would raise the property tax levy by \$23,320. In addition to the 1% increase, the Clark County Assessor's office has preliminary estimates showing the City's assessed value for new construction will add approximately \$176.9 million to the City's assessed value, adding approximately \$108,338 in property tax revenue. The Department of Revenue is still in the process of valuing state assessed utilities. These numbers should be available shortly. The value on the 2024 tax roll for state utilities was \$20.05 million.

To date, the estimated 2025 taxable assessed value for Ridgefield is \$4,053,624,940. The Assessor must certify the assessed values by November 14, 2024. The City must hold a revenue hearing and certify a property tax levy to the County by November 30, 2024. The City's current forecast for the 2025 property tax levy is \$2,500,000, an increase of \$160,000 from the amended 2024 budget. The estimate is for the City of Ridgefield levy amount to be 0.61 cents per \$1,000 assessed value, matching the 2024 levy amount.

The 2025 General Fund operating expense budget has increased 15.8% over the 2024 operating expense budget. Inflation indexes for the City are 2.8% in June 2024 compared to one year prior. Adoption of the 1% property tax levy increase does not match current inflation, but the increase is needed to maintain a balanced budget.

The three options available for property tax are:

1. Adopt a 1% increase estimated to be \$23,320.
2. Bank the 1% increase and have it available for use at a later date.
3. Do not adopt a 1% increase or bank the capacity for the 1% increase.

BUDGET/FINANCIAL IMPACTS:

The 2025 property tax receipts will increase by \$160,000 when compared with the amended 2024 budget. The total property tax levy is estimated to be \$2,500,000.

RECOMMENDED ACTION OR MOTION:

No action requested this is the first reading of Ordinance No. 1435.

STAFF CONTACT: Kirk Johnson, Finance Director

ATTACHMENTS:

None

ORDINANCE NO. 1435

An Ordinance of the City of Ridgefield Establishing the Estimated Ad Valorem Taxes Necessary to Finance the Anticipated Requirements of the City of Ridgefield, Washington for the Fiscal Year Ending December 31, 2025, by Increasing Property Tax Revenue from the previous Year

WHEREAS, public hearings have been held by the Ridgefield City Council to review and discuss the estimated revenue needed for calendar year 2025 as required by statute; and

WHEREAS, the Revised Code of Washington 84.55.120 as amended by Referendum 47 requires an Ordinance or Resolution to be approved by the City Council if the anticipated property tax levy will increase by any amount; and,

WHEREAS, the amount levied for fiscal year 2024 was \$2,332,022 and the increase in the regular property tax levy amount for 2025 is \$23,320, which is a percentage increase of 1 % from the previous year; and,

WHEREAS, this increase is exclusive of additional revenue resulting from new construction, improvements to property, any increase in the value of state assessed property, and annexations that have occurred, and including any refunds made; and,

WHEREAS, a certified budget request or estimate is filed with the County Legislative Authority, separate from this ordinance. As required by RCW 84.52.020, that filing certifies the total amount to be levied by the regular property tax levy. The form for this purpose is titled "Levy Certification" and is available through the Assessor's Office. Certification is made in a manner prescribed by the County Legislative Authority.

Section 1. Public Interest. The Ridgefield City Council finds it to be in the public interest to increase the property tax levy by the maximum allowed by the Revised Code of Washington.

Section 2. Fixing Ad Valorem Taxes. That an increase in the regular property tax levy is authorized for the levy to be collected for the 2025 tax year in the amount of the maximum 1% allowed by law from the previous year, estimated to be \$23,320. This increase is exclusive of additional revenue resulting from new construction, improvements to property, any increase in the value of state assessed property and annexations that have occurred.

Section 3. Transmittal to County. A certified copy of this ordinance shall be transmitted to Clark County in accordance with law.

Section 4. Severability. If any provision of this ordinance or its application to any person or circumstance is held invalid, the remainder of the ordinance or the application of the provision to other persons or circumstances is not affected.

Section 5. Regulatory Conflicts. All other Ordinances and parts of other Ordinances inconsistent or conflicting with any part of this Ordinance are hereby repealed to the extent of the inconsistency or conflict.

Section 6. Corrections. The City Clerk and the codifiers of this ordinance are authorized to make necessary clerical corrections to this ordinance including, but not limited to, the correction of scrivener's/clerical errors, references, ordinance numbering, section/subsection numbers and any references thereto.

Section 7: Effective date. This ordinance shall take effect and be in full force five (5) days after the publication in which is hereby approved.

PASSED BY THE CITY COUNCIL OF THE CITY OF RIDGEFIELD, WASHINGTON, THIS 21st DAY OF NOVEMBER 2024 AT AN OPEN PUBLIC MEETING.

City of Ridgefield:

Ron Onslow
Mayor

ATTEST:

Julie Ferriss
City Clerk

APPROVED AS TO FORM:

Janean Parker
City Attorney

First Reading: November 7, 2024
Second Reading: November 21, 2024
Publication Date: November 27, 2024
Effective Date: December 2, 2024

**CITY OF RIDGEFIELD
REQUEST FOR COUNCIL ACTION**

MEETING DATE: November 7, 2024

AGENDA ITEM NAME: First Reading of Ordinance No. 1436 - 2025 Water Utility Rate Code Amendment

GOVERNING LEGISLATION

RCW 35.92 Municipal Utilities, RMC 13.35 Water Rates, RCW 35A.33 Budgets in Code Cities, Financial Policy #07: Budget

PREVIOUS COUNCIL ACTION TAKEN:

The council has adopted ordinances over the years setting bi-monthly water rates that support operating and capital revenues to preserve the public health, safety and proper maintenance of the water system. The Council adopted Ordinance No. 1403 on May 25, 2023, to revise the water rate structure for residential and irrigation usage. The most recent action associated with bi-monthly water rates was adopted by the Council through Ordinance No. 1412 on November 16, 2023.

SUMMARY/BACKGROUND:

In 2023, city staff contracted with FCS, a consultant that specializes in comprehensive rate studies, to determine the revenue requirements for the next 10 years in the water fund. The study is conducted every 5–6 years per budget policy and reviews the estimated expenses for operations, capital, and reserve requirements to fund the water utility. The rate analysis analyzes expenses and revenues for the next 10 years for the Water Utility. Factors included assumptions for inflationary cost escalators, labor agreements, capital facility plans and growth assumptions. During the annual budget process, the Finance Department updates the model to ensure any significant changes are captured. The study concluded that the water rates should be increased annually by an inflationary factor of 3% to insure the water fund can meet ongoing obligations to maintain the water system. The 2025 review of the rate model determined the inflationary increase supports the revenue requirements for the Water Utility Fund.

The Water Utility Fund will have significant capital investment over the next several years to acquire new water rights, construct an elevated water reservoir and drill a new well field in the southwest section of town. The inflationary increase in conjunction with the water SDC funds will help support the capital expense. The City is actively seeking grants and low-cost debt to assist with the expense of these projects.

For a household using an average of 1,600 cf of water, the rate increase would be approximately \$2.18 per bi-monthly billing cycle including utility tax. Due to the recommended rate increase and projected usage in 2025, rate revenue is expected to increase 14.2% over the amended 2024 budget. Expenses for the water utility fund are expected to increase 29.7% in 2025 over the amended 2024 budget. The water fund has several high priority capital infrastructure projects moving into construction over the next few years. City reserve policies also require 5% of rate revenues (\$182,600) being set aside into a reserve fund for repair and replacement of existing water system infrastructure. The proposed 2025

budget will use \$400 in reserve balances to purchase one-time items.

The Budget Advisory Committee is recommending we implement the 3% increase in the rate. The West Region Average Consumer Price Index for Urban Consumers (CPI-U) for the twelve months July 1, 2023, through June 30, 2024, was 2.8%. A 3% increase, together with the projected account growth due to new development, is proposed to maintain a financially healthy utility and complete needed capital maintenance projects.

Refer to attached Exhibit "A" for rate changes.

BUDGET/FINANCIAL IMPACTS:

Refer to the following table for impacts:

Budget Year	Rate Revenue	Miscellaneous Revenue	Total Revenue	2025 Comparison to 2024
2025	\$3,652,000	\$281,000	\$3,933,000	\$510,500
2024	\$3,199,000	\$223,500	\$3,422,500	

RECOMMENDED ACTION OR MOTION:

No action requested this is the first reading of Ordinance No. 1436.

STAFF CONTACT: Kirk Johnson, Finance Director

ATTACHMENTS:

1. Chapter_13.35___WATER_RATES Redlined
2. Chapter_13.35___WATER_RATES Clean Copy

ORDINANCE NO. 1436

An Ordinance of the City of Ridgefield, Washington amending Ridgefield Municipal Code Chapter 13.35 and Ordinance Number 1412 adjusting the bi-monthly water rates

WHEREAS, Ridgefield Municipal Code Chapter 13.35 provides for bi-monthly water rates which have been adjusted periodically; and,

WHEREAS, the City Council of the City of Ridgefield deems it is in the best interest of the City that water rates increase to offset current inflation rates, which equates to a three percent (3%) increase for the basic bi-monthly charge, and that all other rates should increase in their pro rata share; and,

WHEREAS, the City completed a study of the water system rates and structure and the City Council adopted the findings; and,

WHEREAS, this ordinance is necessary to incorporate the increase in the rate; and,

WHEREAS, this ordinance is needed for the immediate preservation of public health and safety, support of city government and to properly maintain the water system;

NOW THEREFORE, THE CITY COUNCIL OF THE CITY OF RIDGEFIELD, WASHINGTON HEREBY ORDAINS AS FOLLOWS:

Section 1. Public Interest. The Ridgefield City Council finds it is in the public interest to amend Ordinance No. 1412, and Chapter 13.35 (Water Rates) of the Ridgefield Municipal Code.

Section 2. Amendment to Chapter 13.35 (Water Rates). Ridgefield Municipal Code Chapter 13.35 is hereby amended per the attached exhibit "A".

Section 3. Severability. If any section, sentence, clause or phrase of this ordinance shall be held to be invalid or unconstitutional by a court of competent jurisdiction, such invalidity or unconstitutionality shall not affect the validity or constitutionality of any other section, sentence, clause or phrase of this ordinance.

Section 4. Regulatory Conflicts. All other Ordinances and parts of other Ordinances inconsistent or conflicting with any part of this Ordinance are hereby repealed to the extent of the inconsistency or conflict.

Section 5. Corrections. The City Clerk and the codifiers of this ordinance are authorized to make necessary clerical corrections to this ordinance including, but not limited to, the correction of scrivener's/clerical errors, references, ordinance numbering, section/subsection numbers and any references thereto.

Section 6. Effective date. THIS ORDINANCE SHALL BE IN FULL FORCE AND EFFECT ON JANUARY 1, 2025. PASSED BY THE CITY COUNCIL OF THE CITY OF RIDGEFIELD, WASHINGTON ON THIS 21ST DAY OF NOVEMBER 2024.

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City of Ridgefield:

Ron Onslow
Mayor

ATTEST:

Julie Ferriss
City Clerk

APPROVED AS TO FORM:

Janean Parker
City Attorney

First Reading: November 7, 2024
Second Reading: November 21, 2024
Publication Date: November 27, 2024
Effective Date: January 1, 2025

~~—CODE~~Exhibit “A”

Title 13 - PUBLIC UTILITIES
Chapter 13.35 WATER RATES

Chapter 13.35 WATER RATES

13.35.010 Water rates for metered customers.

- A. Residential customers within the city limits shall be charged a base rate and a volumetric charge for water used in a two-month billing cycle as follows:

Meter Type or Size	Two-Month Base Rate	Volume Charge	
		Volume Used (cf)	\$/cf
Residential	\$46.61 <u>48.01</u>	0—1,000	\$0.0058 <u>0.0060</u>
		1,001—2,000	\$0.0222 <u>0.0229</u>
		2,001—3,500	\$0.0274 <u>0.0283</u>
		3,501—5,000	\$0.0311 <u>0.0321</u>
		Over 5,000	\$0.0405 <u>0.0418</u>

- B. Commercial, industrial, government, and mixed use customers shall be charged a base rate and a volumetric charge for water used in a two-month billing cycle as follows:

Meter Type or Size	Two-Month Base Rate	Volume Charge	
		Volume Used (cf)	\$/cf
1-inch and under	\$46.61 <u>48.01</u>	No Minimum	\$0.0315 <u>0.0325</u>
1.5-inch	\$93.21 <u>96.01</u>		
2-inch	\$149.14 <u>153.62</u>		
3-inch	\$279.61 <u>288.00</u>		
4-inch	\$466.04 <u>480.03</u>		
6-inch	\$932.04 <u>960.01</u>		
8-inch	\$1,491.27 <u>1,536.01</u>		
10-inch	\$5,359.25 <u>5,520.03</u>		
12-inch	\$10,019.45 <u>10,320.04</u>		

- C. Irrigation meters shall be charged a base rate and a volumetric charge for water used in a two-month billing cycle as follows:

Meter Type or Size	Two-Month Base Rate	Volume Charge	
		Volume Used (cf)	\$/cf
1-inch and under	\$46.61 <u>48.01</u>	No Minimum	\$0.0331 <u>0.0341</u>
1.5-inch	\$93.21 <u>96.01</u>		
2-inch	\$149.14 <u>153.62</u>		
3-inch	\$279.61 <u>288.00</u>		
4-inch	\$466.04 <u>480.03</u>		
6-inch	\$932.04 <u>960.01</u>		
8-inch	\$1,491.27 <u>1,536.01</u>		
10-inch	\$5,359.25 <u>5,520.03</u>		

12-inch	\$ 10,019.45 <u>10,320.04</u>		
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- D. Industrial customers using more than two hundred thousand cf per two-month billing cycle may request consideration by the city for a special contract under RMC 13.20.060. The rate shall be calculated on a case by case basis to be based on the actual cost of service. Negotiated rates, if approved, shall be approved via agreement between the industrial customer and the city.

(Ord. No. 1148, §§ 1—3, 1-23-2014; Ord. No. 1169, § 2(Exh. 1), 11-20-2014; Ord. No. 1248, § 2(Exh. A), 11-16-2017; Ord. No. 1278, § 2(Exh. A), 11-15-2018; Ord. No. 1298, 2(Exh. A), 11-21-2019; Ord. No. 1381, § 2(Exh. A), 11-17-2022; Ord. No. 1403, § 3(Exh. A), 5-25-2023; Ord. No. 1412, § 2(Exh. A), 11-16-2023)

13.35.020 Optional water rates for residential customers.

- A. The following monthly volumetric water charges shall be applicable to a two-month billing cycle for water customers that request the optional conservation rate.

Meter Type or Size	Volume Used (cf)	
	\$/cf	
1 inch and under	No Minimum	\$ 0.0527 <u>0.0543</u>

- B. Customers under the optional water rate will not be charged a base rate.
- C. Customers must notify the utility clerk between December 1 and December 31 should they wish to exercise the ability to change between standard water rates for metered customers as provided for in RMC 13.35.010 and optional water rates for residential customers as provided for in RMC 13.35.020 for the following year.

(Ord. No. 1148, §§ 1—3, 1-23-2014; Ord. No. 1169, § 2(Exh. 1), 11-20-2014; Ord. No. 1248, § 2(Exh. A), 11-16-2017; Ord. No. 1278, § 2(Exh. A), 11-15-2018; Ord. No. 1298, 2(Exh. A), 11-21-2019; Ord. No. 1381, § 2(Exh. A), 11-17-2022; Ord. No. 1412, § 2(Exh. A), 11-16-2023)

13.35.030 Water rates for customers beyond corporate limits.

All consumers of water service, for services provided beyond the corporate limits, shall pay the two-month billing cycle rate for their classification plus a surcharge of fifty percent inclusive of base rate and volume charge.

(Ord. No. 1148, §§ 1—3, 1-23-2014; Ord. No. 1169, § 2(Exh. 1), 11-20-2014; Ord. No. 1381, § 2(Exh. A), 11-17-2022; Ord. No. 1412, § 2(Exh. A), 11-16-2023)

13.35.040 Multiple residential users on a single meter.

- A. Multiple dwelling units, including accessory dwelling units on a single water meter shall be charged the standard residential water rate for each dwelling unit plus the volume charge as outlined in RMC 13.35.010. The allowable volume used in each tier for multiple residential users on a single meter shall be those tiers shown in RMC 13.35.010 multiplied by the number of units.

- B. For billing purposes multiple users on a single meter must be handled through one account only.

(Ord. No. 1148, §§ 1—3, 1-23-2014; Ord. No. 1169, § 2(Exh. 1), 11-20-2014; Ord. No. 1381, § 2(Exh. A), 11-17-2022; Ord. No. 1412, § 2(Exh. A), 11-16-2023)

13.35.050 Low-income citizen water rate discount.

- A. A discount of twenty-five percent of water charges shall be applied to those customers who are approved as low-income customers as defined in this title. To be approved as a low-income customer, the customer must meet the following requirements:
1. Have a household adjusted gross income of less than two hundred percent of the federal poverty guidelines.
 2. If a customer was approved as a low-income senior citizen by the city prior to January 31, 2014, the customer shall continue to be eligible for the credit for so long as the household adjusted gross income continues to meet the requirements of RCW 84.36.381(5).
- B. Any person desiring to be approved as a low-income customer shall submit an application on a form approved by the city and present the following documentation to staff:
1. A valid driver's license or other documentation verifying residence.
 2. The applicant's most recently filed federal income tax form if taxes forms are filed
- OR
- A letter of non-filing from the Internal Revenue Service AND the applicant's current social security statement or alternative income statement.
- C. The city shall approve all customers who meet these criteria as low-income customers. The city's approval shall be effective for one year from the date of approval. Any customer desiring to continue status as a low-income customer must reapply. Failure to reapply will cause the status to lapse.
- D. The discount shall only be allowed from and after the date that the customer is approved for this rate. The city shall not be liable for the failure of any qualified person to make application for this discount and there shall be no entitlement to such discount in the absence of an application, therefore.

(Ord. No. 1374, § 2(Exh. A), 9-8-2022; Ord. No. 1381, § 2(Exh. A), 11-17-2022; Ord. No. 1412, § 2(Exh. A), 11-16-2023)

Editor's note(s)—Ord. No. 1374, § 2(Exh. A), adopted Sep. 8, 2022, amended § 13.35.050 in its entirety to read as herein set out. Former § 13.35.050 pertained to low income citizen water rate credit and derived from Ord. No. 1148, §§ 1—3, adopted Jan. 23, 2014; and Ord. No. 1169, § 2(Exh. 1), adopted Nov. 20, 2014.

Exhibit “A”
Title 13 - PUBLIC UTILITIES
Chapter 13.35 WATER RATES

Chapter 13.35 WATER RATES

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Meter Type or Size	Two-Month Base Rate	Volume Charge	
		Volume Used (cf)	\$/cf
Residential	\$48.01	0—1,000	\$0.0060
		1,001—2,000	\$0.0229
		2,001—3,500	\$0.0283
		3,501—5,000	\$0.0321
		Over 5,000	\$0.0418

- B. Commercial, industrial, government, and mixed use customers shall be charged a base rate and a volumetric charge for water used in a two-month billing cycle as follows:

Meter Type or Size	Two-Month Base Rate	Volume Charge	
		Volume Used (cf)	\$/cf
1-inch and under	\$48.01	No Minimum	\$0.0325
1.5-inch	\$96.01		
2-inch	\$153.62		
3-inch	\$288.00		
4-inch	\$480.03		
6-inch	\$960.01		
8-inch	\$1,536.01		
10-inch	\$5,520.03		
12-inch	\$10,320.04		

- C. Irrigation meters shall be charged a base rate and a volumetric charge for water used in a two-month billing cycle as follows:

Meter Type or Size	Two-Month Base Rate	Volume Charge	
		Volume Used (cf)	\$/cf
1-inch and under	\$48.01	No Minimum	\$0.0341
1.5-inch	\$96.01		
2-inch	\$153.62		
3-inch	\$288.00		
4-inch	\$480.03		
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- D. Industrial customers using more than two hundred thousand cf per two-month billing cycle may request consideration by the city for a special contract under RMC 13.20.060. The rate shall be calculated on a case by case basis to be based on the actual cost of service. Negotiated rates, if approved, shall be approved via agreement between the industrial customer and the city.

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- C. Customers must notify the utility clerk between December 1 and December 31 should they wish to exercise the ability to change between standard water rates for metered customers as provided for in RMC 13.35.010 and optional water rates for residential customers as provided for in RMC 13.35.020 for the following year.

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 2. If a customer was approved as a low-income senior citizen by the city prior to January 31, 2014, the customer shall continue to be eligible for the credit for so long as the household adjusted gross income continues to meet the requirements of RCW 84.36.381(5).
- B. Any person desiring to be approved as a low-income customer shall submit an application on a form approved by the city and present the following documentation to staff:
1. A valid driver's license or other documentation verifying residence.
 2. The applicant's most recently filed federal income tax form if taxes forms are filed
- OR
- A letter of non-filing from the Internal Revenue Service AND the applicant's current social security statement or alternative income statement.
- C. The city shall approve all customers who meet these criteria as low-income customers. The city's approval shall be effective for one year from the date of approval. Any customer desiring to continue status as a low-income customer must reapply. Failure to reapply will cause the status to lapse.
- D. The discount shall only be allowed from and after the date that the customer is approved for this rate. The city shall not be liable for the failure of any qualified person to make application for this discount and there shall be no entitlement to such discount in the absence of an application, therefore.

(Ord. No. 1374, § 2(Exh. A), 9-8-2022; Ord. No. 1381, § 2(Exh. A), 11-17-2022; Ord. No. 1412, § 2(Exh. A), 11-16-2023)

Editor's note(s)—Ord. No. 1374, § 2(Exh. A), adopted Sep. 8, 2022, amended § 13.35.050 in its entirety to read as herein set out. Former § 13.35.050 pertained to low income citizen water rate credit and derived from Ord. No. 1148, §§ 1—3, adopted Jan. 23, 2014; and Ord. No. 1169, § 2(Exh. 1), adopted Nov. 20, 2014.

**CITY OF RIDGEFIELD
REQUEST FOR COUNCIL ACTION**

MEETING DATE: November 7, 2024

AGENDA ITEM NAME: First Reading of Ordinance No. 1437 - 2025 Storm Water Utility Rate Code Amendment

GOVERNING LEGISLATION

RCW 35.92 Municipal Utilities, RCW 35.67 Sewerage Systems - Refuse Collection and Disposal, RCW 35A.33 Budgets in Code Cities, RMC 13.75 Stormwater Utility, Financial Policy #07: Budget

PREVIOUS COUNCIL ACTION TAKEN:

Ordinance No. 883, forming a Storm Water Utility, was adopted by City Council at the August 25, 2005 regular council meeting and Ordinance No. 884 was adopted by City Council establishing the initial rate structure of the utility. Multiple Ordinances have been adopted to set the bi-monthly rate, with the most recent adoption of Ordinance No. 1413 by the City Council on November 16, 2023, to update the bi-monthly rate to \$24.80 per equivalent dwelling unit.

The City Council heard a presentation on the 2023 comprehensive storm water utility rate study for service rates and system development charges on July 27, 2023. The council adopted the proposed rate structure without implementation of the system development charges.

SUMMARY/BACKGROUND:

The public storm water collection and treatment systems located within the City of Ridgefield must be maintained and repaired by the City's Public Works Department. The Stormwater Utility was created in 2005 with the plan that the fees charged would be used to perform the required long-term management, maintenance and repair to the stormwater systems, providing good stewardship of the environment, while correspondingly reducing the financial burden on the City's General Fund. Ordinance No. 1437 provides an amendment to the rate structure and a step toward generating the necessary revenue to assist in funding the Stormwater Utility.

The City is required to provide additional stormwater treatment, inspection and compliance measures due to the population growth and NPDES Phase II Municipal Stormwater permit requirements as of July 1, 2024. As a result, staff have proactively increased maintenance to the stormwater treatment system to be able to meet the requirements of the new permit. Expenses have significantly increased over the past few years and the city uses a rate model to forecast revenue requirements to meet the operating and capital expense needs of the utility. The City conducted a comprehensive rate study in 2023 to determine the revenue requirements for the next 10 years for operations and capital. The study also reviewed the possibility of adding a storm water system development charge for new development. The council approved the rate structure without the implementation of the system development charges. The rate model includes an increase of \$2.80 per bi-monthly bill to a total of \$27.60 every two months effective January 1, 2025.

Staff continue to identify potential grant opportunities and/or low-cost loans to help fund the capital

projects. The City obtained a \$2.4 million Public Works Board loan to finance the construction of 4 high priority storm water projects in the downtown core in 2024. Construction is scheduled to begin in 2025. Debt service will be paid from the operating revenues over the term of the loan.

The 2025 operating budget is expected to increase 17.5% over the 2024 operating budget. The 2025 budget when compared to the 2020 budget has increased 234% due to the additional storm water management requirements. The main reasons for the 2025 expense increase are an additional stormwater maintenance position, and equipment, professional services and software required to meet the compliance needs for stormwater drainage management. The stormwater capital budget will match the 2024 capital budget and will be financed with a low-cost Public Works Board loan.

Rate revenue is expected to increase \$493,800 (27.7%) due to growth in accounts and the recommended rate increase. Additionally, 5% of rate revenues, \$112,500, will be transferred into the capital repair and replacement reserve for future capital R&R projects. The increase, together with the projected account growth due to new development, is proposed to maintain a financially healthy utility and complete needed capital maintenance projects.

Ordinance No. 1437 proposes a \$2.80 bi-monthly billing increase, per Equivalent Dwelling Unit (EDU). The 2025 rate would be increased to \$27.60 per EDU.

BUDGET/FINANCIAL IMPACTS:

Refer to the following table for impacts:

Bi-Monthly Rate	Base Revenue	Total Revenue	Increase from 2024
\$27.60	\$2,250,000	\$2,276,500	\$493,800

RECOMMENDED ACTION OR MOTION:

No action requested this is the first reading of Ordinance No. 1437.

STAFF CONTACT: Kirk Johnson, Finance Director

ATTACHMENTS:

1. 13.75.060___Stormwater_service_charge_rates. Redlined
2. 13.75.060___Stormwater_service_charge_rates. Clean Copy

ORDINANCE NO. 1437

An Ordinance of the City of Ridgefield, Washington Amending Ridgefield Municipal Code Chapter 13.75 and Ordinance Number 1413 to Amend Fees and Charges for the Stormwater Utility by Increasing the Bi-Monthly Stormwater Rate

WHEREAS, the City of Ridgefield, Washington (the "City"), created a Stormwater Utility to implement and administer its Stormwater Management Program; and,

WHEREAS, the City of Ridgefield constructs and maintains stormwater facilities for the management, regulation, and control of surface water and stormwater within the City to protect public health, safety and welfare; and

WHEREAS, the City is authorized pursuant to the general police powers, RCW 35.67.020 and RCW 35.92.020, to fix, alter, regulate and control the rates and charges for use of said Utility and the Stormwater Management Program of the City; and,

WHEREAS, the Ridgefield City Council finds that it is now necessary to amend the rates and charges by increasing the rate to \$27.60 per bi-monthly billing period per equivalent dwelling unit to cover the cost and expense of operating said Utility; and,

WHEREAS, the Ridgefield City Council finds that all developed real property within the boundaries of the Utility benefits from the Stormwater Utility of the City and should participate financially in the payment of all expenses for the construction, maintenance, operation and improvement of said storm drainage system and for administration of the Utility;

NOW THEREFORE, THE CITY COUNCIL OF THE CITY OF RIDGEFIELD, WASHINGTON, DO ORDAIN AS FOLLOWS:

Section 1. Public Interest. The Ridgefield City Council finds it is in the public interest to amend Ordinance No. 1413 and Chapter 13.75 (Stormwater Utility) to the Ridgefield Municipal Code to amend fees and charges related to the stormwater system to cover the cost and expense of the stormwater utility.

Section 2. Amendment to Chapter 13.75 (Stormwater Utility). Section 13.75.060 Stormwater Service Charge Rates is hereby amended per the attached Exhibit A, incorporated fully herein by this reference.

Section 3. Regulatory Conflicts. All other Ordinances and parts of other Ordinances inconsistent or conflicting with any part of this Ordinance are hereby repealed to the extent of the inconsistency or conflict.

Section 4. Corrections. The City Clerk and the codifiers of this Ordinance are authorized to make necessary clerical corrections to this Ordinance including, but not limited to, the correction of scrivener's/clerical errors, references, Ordinance numbering, section/subsection numbers and any references thereto.

Section 5. Severability. Any provision of this Ordinance or its application to any person, legal entity, or circumstance is held invalid, the remainder of the Ordinance or its application to other persons, legal entities, or circumstances is not affected.

Section 6. Effective date. This Ordinance shall be in full force and effect on January 1, 2025.

PASSED BY THE CITY COUNCIL OF THE CITY OF RIDGEFIELD, WASHINGTON ON THE 21st DAY OF NOVEMBER 2024.

City of Ridgefield:

Ron Onslow
Mayor

ATTEST:

Julie Ferriss
City Clerk

APPROVED AS TO FORM:

Janean Parker
City Attorney

First Reading: November 7, 2024
Second Reading: November 21, 2024
Publication Date: November 27, 2024
Effective Date: January 1, 2025

13.75.060 Stormwater service charge rates.

- A. In accordance with the rate structure set forth in RMC 13.75.050, there is hereby levied upon all developed real property within the stormwater service area the following stormwater service charges which shall be collected from the property owners of such properties: For all developed real property within the stormwater service area, unless exempt as set forth above, the stormwater service charge shall be ~~twenty-four dollars and eighty cents~~twenty seven dollars and sixty cents per two months per EDU multiplied by the number of EDUs determined by the utility to be contained in such parcel.
- B. All property subject to charges of the stormwater management program shall be billed based on the property characteristics existing one month prior to billing.
- C. All stormwater service charges and all other stormwater fees or charges hereafter established by the city shall be deemed to be levied upon real property.
- D. For purposes of the stormwater utility and this chapter, "Equivalent Dwelling Unit" or "EDU" shall mean a measure equal to three thousand five hundred feet of impervious ground cover or a portion thereof, and is the measure of impervious ground cover to be used by the utility in assessing service charges against each parcel of property.

(Ord. No. 1148, §§ 1—3, 1-23-2014; Ord. No. 1170, § 2(Exh. A), 11-20-2014; Ord. No. 1196, § 2(Exh. A), 11-19-2015; Ord. No. 1223, § 2(Exh. A), 11-17-2016; Ord. No. 1249, § 2(Exh. A), 11-16-2017; Ord. No. 1279, § 2(Exh. A), 11-15-2018; Ord. No. 1299, § 2(Exh. A), 11-21-2019; Ord. No. 1330, § 2(Exh. A), 11-19-2020; Ord. No. 1354, § 2(Exh. A), 11-18-2021; Ord. No. 1382, § 2(Exh. A), 11-17-2022; Ord. No. 1413, 2(Exh. A-1), 11-16-2023)

13.75.060 Stormwater service charge rates.

- A. In accordance with the rate structure set forth in RMC 13.75.050, there is hereby levied upon all developed real property within the stormwater service area the following stormwater service charges which shall be collected from the property owners of such properties: For all developed real property within the stormwater service area, unless exempt as set forth above, the stormwater service charge shall be twenty seven dollars and sixty cents per two months per EDU multiplied by the number of EDUs determined by the utility to be contained in such parcel.
- B. All property subject to charges of the stormwater management program shall be billed based on the property characteristics existing one month prior to billing.
- C. All stormwater service charges and all other stormwater fees or charges hereafter established by the city shall be deemed to be levied upon real property.
- D. For purposes of the stormwater utility and this chapter, "Equivalent Dwelling Unit" or "EDU" shall mean a measure equal to three thousand five hundred feet of impervious ground cover or a portion thereof, and is the measure of impervious ground cover to be used by the utility in assessing service charges against each parcel of property.

(Ord. No. 1148, §§ 1—3, 1-23-2014; Ord. No. 1170, § 2(Exh. A), 11-20-2014; Ord. No. 1196, § 2(Exh. A), 11-19-2015; Ord. No. 1223, § 2(Exh. A), 11-17-2016; Ord. No. 1249, § 2(Exh. A), 11-16-2017; Ord. No. 1279, § 2(Exh. A), 11-15-2018; Ord. No. 1299, § 2(Exh. A), 11-21-2019; Ord. No. 1330, § 2(Exh. A), 11-19-2020; Ord. No. 1354, § 2(Exh. A), 11-18-2021; Ord. No. 1382, § 2(Exh. A), 11-17-2022; Ord. No. 1413, 2(Exh. A-1), 11-16-2023)

**CITY OF RIDGEFIELD
REQUEST FOR COUNCIL ACTION**

MEETING DATE: November 7, 2024

AGENDA ITEM NAME: Motion - Contract Amendment #2 with HHPR for Additional Design Services During Construction for the Pioneer Widening and 50th Place Roundabout Project

GOVERNING LEGISLATION

Revised Code of Washington Title 35 – Cities and Towns, Title 35A Optional Municipal Code
RCW Title 39 Public Contracts and Indebtedness
City Financial Policy #04: Procurement of Goods and Services

PREVIOUS COUNCIL ACTION TAKEN:

Contract amendment for final design services approved at the December 21, 2023 meeting.
Inclusion of Pioneer Widening project in 2024 Capital Budget.

SUMMARY/BACKGROUND:

The initial approval for the HHPR contract and amendment in 2023 was for an amount not to exceed \$2,380,926. The amended scope of work included the completion of final design and construction documents for the Pioneer Widening and 50th Place (now Discovery Drive) Roundabout project along additional budget for bidding, permitting and design services during construction (DSDC) totaling \$205,980.

Since that time, as the project has progressed through construction and ground and excavation work has proceeded, a number of underground utilities have been identified that were not able to be identified during design. Additionally, to install culverts along Pioneer Street, water and sewer bypass lines are needed, as well as stream bypasses through the culvert area as a condition of state and federal permits to protect water quality and habitat. Additional design modifications have been needed for sanitary sewer as the project has progressed. Additionally, the number of contractor requests for information and review of materials submittals has been higher than originally anticipated. HHPR's subconsultant UFS has experienced additional work to secure rights-of-way and temporary construction easements for the project.

Additionally, the City has accepted a covenant and fee-in-lieu from IQ Credit Union for wetland impact mitigation, plantings and seven-year monitoring and management work that would be implemented alongside similar wetland impact mitigation efforts for the Pioneer Widening project, on City property. This is being done to ensure the quality and sustainability of the wetland impact mitigation work. HHPR is being requested to develop planting and management plans for the wetland impact mitigation that are additional scope items; the actual plantings, monitoring and management will be a separate procurement.

The total additional budget of \$245,804 includes \$1,800 for sanitary sewer work to be reimbursed by Clark Regional Wastewater District, and \$15,820 for water work to be reimbursed out of the water

fund. The remaining \$228,184 additional budget is to be covered by the project bond proceeds.

BUDGET/FINANCIAL IMPACTS:

The additional budget included with this amendment request is covered by sewer and water fund reimbursements as well as covered under the contingencies budget for the project.

RECOMMENDED ACTION OR MOTION:

Council action is requested on this item.

A suggested motion is: "I move to approve Contract Amendment #2 with HHPR for additional support services during construction of the Pioneer Widening and 50th Avenue Roundabout Project in the amount of \$245,804.

STAFF CONTACT: Chuck Green, Public Works Director

ATTACHMENTS:

1. 51st RA Pioneer Widening_Scope_Addendum 2 11-04-24



P21005: 51st Roundabout & Pioneer Widening Addendum #2

Scope of Services

Task 7.2 Additional Environmental Evaluation and Permitting

1. Original Task Scope: The original scope did not anticipate any project changes after 30% design necessitating significant permit revisions and included permitting of 3 culvert crossings. The original scope anticipated one pre-application meeting and one field meeting each with WDFW and US Army Corps of Engineers.
2. Changes to Original Task:
 - Attended an additional field visit with WDFW and coordination regarding status of NE Stream.
 - Coordinated and attended multiple meetings with iQ Credit Union and Union Ridge Town Center, City, WDFW, and Pioneer St design team on HPA for fish passage compliance for culverts 4 and 5.
 - Coordinated and attended multiple meetings with iQ Credit Union, City Planners, and Pioneer St design team on Critical Areas mapping and report update, Land Use Conditions, and off-site mitigation for the IQCU site.
 - Updated HPA, Mitigation Bank Plan, and JARPA to address replacement of culverts 4 and 5.
 - Coordinated with PBS regarding YMCA wetland impacts.
 - Coordinated and met with PBS, City, US Army Corps of Engineers, and Pioneer St design team regarding fill violation on Lahti Property.
 - Provide three years of vegetation monitoring, with two site visits per year, for temporary riparian and wetland impact areas, in compliance with the 401 WQC issued by Ecology, and prepare monitoring forms for each visit.
 - Provide additional coordination during construction, including coordination related to a second year of in-water work.
 - Respond to RFIs from the City's restoration contractor regarding implementation of the riparian mitigation over 7 years.

Task 15.1 Additional Design Services During Construction

1. Original Task Scope: The original scope included typical construction assistance items but level of effort is always difficult to predict.
2. Changes to Original Task: The original scope did not include staging assistance, bypass plans, and design changes to accommodate new adjacent development, and coordination and filing HPA modification requests for in-water work extensions on culverts 3, 4, and 5.

The project team revised plans and permits to incorporate a new design fronting the Crusan property. This included two new culverts, retaining walls, utilities, grading and re-design of a portion of 53rd. This also included significant permitting revisions and coordination with adjacent development requiring several design shifts of both 53rd Ave. and Pioneer Canyon Drive.

Additional survey and design to extend improvements approximately 20 feet North on Royle Road.

Task 15.2 Additional Services During Construction (per 15.1 scope that includes sanitary sewer design)

Task 15.3 Additional Services During Construction (per 15.1 scope that includes water system design)

TASK 13.2 ADDITIONAL ROW SERVICES FOR RECORDING OF DOCUMENTS

1. See attachment "A" for scope of work by UFS.

PROPOSED ESTIMATED FEE BUDGET

Based on the Scope of Services and Assumptions listed above, Harper Houf Peterson Righellis Inc. proposes an addendum amount of \$ 245,804.

Avenue Roundabout and Pioneer Street Widening

Professional Services Estimate Add# October 2024

Task and Description	Harper Houf Peterson Righellis Inc. (Project Management, Survey, Engineering, LA, and Environmental)																		ROW Services		Total Per
	PM	P.Engr	C. Engr.	C.Des.	CAD	QC Engr	Struc. Engr	Struc. Des.	LA	Sen. Scientist	Scientist	P. Surv.	Surv. Tech.	Surv. Crew Chief	Surv. Instr. Person	Graphic Artist	Clerical	Reim.	UFS		Task
7.2 Additional Environmental Evaluation and Permitting	0	0	48	0	0	0	0	0	0	280	432	0	0	0	0	0	0				\$108,760
Field visit with WDFW and related coordination										16	16										\$4,720
Coordination on HPA for fish passage compliance for new culverts.			16							40	24										\$12,520
Coord. on Critical Areas mapping, Land Use Conditions, off-site mitigation										32	40										\$10,400
Update HPA, Mitigation Bank Plan, and JARPA			32							24	48										\$15,240
Coordination with YMCA on wetland impacts										16	4										\$3,280
Coordination on off-site fill violation										16	4										\$3,280
Vegetation monitoring for the temporary impact areas										40	200										\$31,000
Coordination During Construction										40	40										\$11,800
RFIs on riparian mitigation implementation over 7 years										56	56										\$16,520
																					\$0
15.1 Additional Design Services During Construction	36	105	110	142	74	14	24	40	0	20	0	8	24	24	24	0	5				\$101,320
Design modifications for adjacent development	16	23	16	36	14	1															\$17,480
Prepare bypass plans, staging assistance and utility coordination	2	8	2	4	4	1															\$5,865
In-water work extensions			2							20											\$3,830
Design of Culvert 4 & 5	8	8	16	24	16	2	8	8				4	8	8	8		1				\$17,655
Roadway and Site Design	4	24	30	30	12	4						2	8	8	8		1				\$20,195
Hydraulic Design and Report for Culvert 4 & 5	2	40	16	8	8	4											1				\$13,835
Structural - Additional Retaining Wall and Foundation Plans	2		16	24	16	2	16	32									1				\$15,965
Royle Frontage Survey and Design	2	2	12	16	4							2	8	8	8		1				\$8,805
																					\$0
15.2 Additional Design Services During Construction (Sanitary)		2	2	6	2																\$1,800
15.3 Additional Design Services During Construction (Water)	6	20	18	32	24												1				\$15,625
13.2 ROW Services (Universal Field Services)	See Appendix A (UFS) for detailed cost breakdown																		\$18,299		\$18,299
																					\$0
																					\$0
	\$215.00	\$195.00	\$165.00	\$140.00	\$120.00	\$195.00	\$165.00	\$140.00	\$145.00	\$175.00	\$120.00	\$170.00	\$130.00	\$130.00	\$95.00	\$145.00	\$105.00	1	\$18,299	\$0	
Total Hours - HHPR	42.00	127.00	178.00	180.00	100.00	14.00	24.00	40.00	0.00	300.00	432.00	8.00	24.00	24.00	24.00	0.00	6.00	0.0	Estimated Total Budget		\$245,804

TOTALS BY CONSULTANT

(Project Management, Survey, Engineering, LA, and Environmental) - HHPR	\$227,505
(ROW Services) - UFS	\$18,299
	\$245,804

**CITY OF RIDGEFIELD
REQUEST FOR COUNCIL ACTION**

MEETING DATE: November 7, 2024

AGENDA ITEM NAME: Motion - Award of Construction Contract for Park Laundry Clean-Up Project

GOVERNING LEGISLATION

Chapter 35 RCW Cities and Towns;
Chapter 39 RCW Public Contracts and Indebtedness;
City of Ridgefield Financial Policy #04: Procurement of Goods and Services

PREVIOUS COUNCIL ACTION TAKEN:

Award of Design Consultant Contract for Park Laundry Cleanup (March 28, 2024)

SUMMARY/BACKGROUND:

The City has entered into a consent decree with the Washington State Department of Ecology to clean up parcels along Main St and Simons. The City received the "Park Laundry" parcel (122 N Main Ave) via quit claim deed from the owner in 2023 to facilitate the cleanup process. The neighboring city parcel and the two parcels north of the Park Laundry parcel will be included in the cleanup efforts. The City received \$2,070,000 in remedial action grants and a \$195,000 grant from the Department of Commerce. The city obligation is up to 10% of the project cost. The current project estimate to include engineering and design, cleanup, project management and monitoring is \$2.3 million. The city anticipates the grant funding to cover the majority of the cost.

The City issued an Invitation to Bid solicited from interested remediation and clean up contractors on September 26, 2024. A pre-bid meeting was held on October 10, 2024 and was attended by several prospective bidders, both in-person and online. A total of seven bids and one no-bid were received. Requests for responses to the Supplemental Responsible Bidder Criteria were sent to the three apparent lowest bidders. All three submitted timely responses.

Bids were received from (in alphabetical order):

Anderson Environmental Contracting, LLC from Kelso, WA for \$915,542.47.
Envirocon, Inc. from Missoula, MT for \$1,482,216.75.
Glacier Environmental Services, Inc from Edmonds, WA for \$1,638,355.61.
Innovative Construction Solutions from Woodinville, WA for \$1,241,527.92.
Keithly Barber Associates which was a No-Bid.
Lee Contractors, from Battle Ground, WA for \$1,601,216.22.
Nutter Corporation, from Vancouver, WA for \$1,387,433.21.
Peak Environmental, LLC, from Vancouver, WA, for \$1,375,886.56.

The Engineer's Estimate for the project was \$1,443,000. The apparent lowest bid was received from Anderson Environmental Contracting, LLC (AEC) from Kelso, WA in the amount of \$915,542.47. A review of the bids did not find any irregularity, and review of AEC's response to the Supplemental

Bidder Responsibility Criteria indicated that their past experience showed they are qualified to do the work. A Notice of Intent to Award to AEC was sent to all bidders on October 29, 2024. No protests were received during the 48-business hour protest period.

BUDGET/FINANCIAL IMPACTS:

The council adopted the 2024 Capital Budget including funding and expenditures for the Park Laundry cleanup project. The City has received \$2,070,000 in remedial action grants and \$195,000 in a Department of Commerce Brownfield grant. The city obligation is 10% of the costs. The construction cost is included in the grant budget.

RECOMMENDED ACTION OR MOTION:

Council action is requested on this item.

A suggested motion is:

"I move to award the construction contract for the Park Laundry Cleanup Project to Anderson Environmental Contracting, LLC from Kelso, WA in the amount of \$915,542.47 plus \$100,000 in contingencies."

STAFF CONTACT: Chuck Green, Public Works Director

ATTACHMENTS:

1. Park Laundry Bid Tabulations
2. Park Laundry Bid Award_Council

**Table
Park Laundry Site
MFA Project No. M0239.33.007
Bid Request Form**

Park Laundry Site Cleanup Bid Tabulations 10-24-24				MFA Cost Estimate		Anderson Environmental Contracting LLC		Envirocon, Inc.		Glacier Environmental Services, Inc.		Innovative Construction Solutions		Keithly Barber Associates		Lee Contractors		Nutter Corporation		Peak Environmental, LLC	
						705 Colorado St. Kelso, WA 98426		101 International Drive, Missoula, MT 59808		7509 212th St SW, Edmonds, WA 98026		22021 W Bostlian Road, A1, Woodinville, WA 98072		No Bid		PO Box 869, Battle Ground, WA 98604		7211 NE 43rd Ave, Vancouver, WA 98661		7202 NE Hwy 99, Suite 106-182, Vancouver, WA 98665	
				Proposed project schedule:		Duration: 11/18-1/24 Construction: 11/20-1/7 Injections: 1/13-24		Duration: 11/18-2/21 Construction: 11/26-2/4 Injections: 2/5-2/21		Schedule not provided		Schedule not provided				Schedule not provided		Duration: 11/13-2/12 Construction: 11/13-1/23 Injections: 12/13-1/10		Schedule not provided	
Bid Item	Work Scope Item ¹	Unit	Amount	Unit Cost ²	Extended Cost	Unit Cost ²	Extended Cost	Unit Cost ²	Extended Cost	Unit Cost ²	Extended Cost	Unit Cost ²	Extended Cost		Unit Cost ²	Extended Cost	Unit Cost ²	Extended Cost	Unit Cost ²	Extended Cost	
1	Excavation and Dewatering Work Plan	Lump Sum	1	2,500	2,500	2,399.04	2,399.04	4,976.30	4,976.30	3,286.00	3,286.00	2,500.00	2,500.00		5,000.00	5,000.00	6,000.00	6,000.00	1,500.00	1,500.00	
2	Groundwater Injection Work Plan	Lump Sum	1	2,500	2,500	3,748.50	3,748.50	5,845.55	5,845.55	6,624.00	6,624.00	4,800.00	4,800.00		2,000.00	2,000.00	8,250.00	8,250.00	1,000.00	1,000.00	
3	Construction Stormwater Erosion & Sediment Control Plan	Lump Sum	1	2,500	2,500	1,199.52	1,199.52	1,410.09	1,410.09	1,315.00	1,315.00	2,500.00	2,500.00		2,000.00	2,000.00	3,500.00	3,500.00	2,500.00	2,500.00	
4	Mobilization	Lump Sum	1	109,700	109,700	31,598.94	31,598.94	46,893.27	46,893.27	142,805.00	142,805.00	39,500.00	39,500.00		140,000.00	140,000.00	127,500.00	127,500.00	71,987.00	71,987.00	
5	Temporary Facilities and Controls	Lump Sum	1	20,000	20,000	8,690.25	8,690.25	9,425.33	9,425.33	8,835.00	8,835.00	1,500.00	1,500.00		30,000.00	30,000.00	52,500.00	52,500.00	11,330.00	11,330.00	
6	Temporary Erosion and Sediment Control	Lump Sum	1	8,000	8,000	7,789.84	7,789.84	24,178.50	24,178.50	10,515.00	10,515.00	20,200.00	20,200.00		30,000.00	30,000.00	36,500.00	36,500.00	32,775.00	32,775.00	
7	Temporary Traffic Control	Lump Sum	1	10,000	10,000	2,152.85	2,152.85	5,322.00	5,322.00	8,145.00	8,145.00	12,300.00	12,300.00		10,000.00	10,000.00	12,500.00	12,500.00	2,500.00	2,500.00	
8	Temporary Removal and	Lump Sum	1	600	600	2,633.02	2,633.02	1,694.73	1,694.73	6,970.00	6,970.00	2,500.00	2,500.00		1,000.00	1,000.00	5,500.00	5,500.00	1,000.00	1,000.00	
9	Tree Removal and Replanting	Lump Sum	1	3,600	3,600	5,256.67	5,256.67	2,969.94	2,969.94	11,366.00	11,366.00	8,100.00	8,100.00		5,000.00	5,000.00	5,200.00	5,200.00	6,640.00	6,640.00	
10	Sidewalk Removal and Replacement	Lump Sum	1	1,350	1,350	17,356.68	17,356.68	13,277.10	13,277.10	22,030.00	22,030.00	16,500.00	16,500.00		10,000.00	10,000.00	13,500.00	13,500.00	13,877.00	13,877.00	
Shallow Soil Excavation																					
11	Shallow Soil Excavation and Stockpiling	Cubic Yard	51	30	1,530	68.99	3,518.49	10.98	559.98	100.11	5,105.61	30.00	1,530.00		350.00	17,850.00	65.00	3,315.00	88.00	4,488.00	
12	Overburden Soil Backfill Placement and Compaction	Cubic Yard	42	15	630	110.09	4,623.78	28.62	1,202.04	121.89	5,119.38	45.00	1,890.00		300.00	12,600.00	37.50	1,575.00	106.00	4,452.00	
13	Crushed Surfacing Top Course Backfill Import, Placement, and Compaction	Ton	13	80	1,040	249.16	3,239.08	76.78	998.14	310.20	4,032.60	178.00	2,314.00		350.00	4,550.00	105.00	1,365.00	77.00	1,001.00	
Deep Soil Excavation and Dewatering																					
14	Operation of Dewatering System	Lump Sum	1	50,000	50,000	30,362.24	30,362.24	60,553.58	60,553.58	41,570.00	41,570.00	5,200.00	5,200.00		90,000.00	90,000.00	65,000.00	65,000.00	82,137.00	82,137.00	
15	Water Treatment and Discharge	Lump Sum	1	200,000	200,000	59,967.33	59,967.33	96,438.53	96,438.53	103,645.00	103,645.00	37,500.00	37,500.00		50,000.00	50,000.00	27,500.00	27,500.00	76,824.00	76,824.00	
16	Excavation Shoring	Lump Sum	1	148,500	148,500	109,584.49	109,584.49	267,790.51	267,790.51	326,552.00	326,552.00	194,000.00	194,000.00		180,000.00	180,000.00	148,500.00	148,500.00	100,696.00	100,696.00	
17	Clean Overburden Deep Soil Excavation and Stockpiling	Cubic Yard	830	30	24,900	23.74	19,704.20	42.72	35,457.60	38.80	32,204.00	89.00	73,870.00		150.00	124,500.00	25.00	20,750.00	54.00	44,820.00	
18	Contaminated Deep Soil Excavation and Handling	Cubic Yard	430	20	8,600	40.16	17,268.80	54.42	23,400.60	44.94	19,324.20	90.00	38,700.00		180.00	77,400.00	52.75	22,682.50	66.00	28,380.00	
19	Contaminated Soil Transportation and Disposal (Sublittle C)	Ton	726	380	275,880	313.89	227,884.14	426.99	309,994.74	420.27	305,116.02	330.00	239,580.00		300.00	217,800.00	385.00	279,510.00	390.00	283,140.00	
20	Diamond-Amended Excavation Backfill ³	Cubic Yard	400	20	8,000	62.70	25,080.00	303.20	121,280.00	59.40	23,760.00	47.00	18,800.00		240.00	96,000.00	82.50	33,000.00	81.00	32,400.00	
21	Clean Overburden Backfill Placement and Compaction	Cubic Yard	430	15	6,450	36.21	15,570.30	53.77	23,121.10	82.13	35,315.90	38.50	16,555.00		100.00	43,000.00	20.00	8,600.00	107.00	46,010.00	
22	Select Borrow Backfill Import, Placement, and Compaction	Ton	650	60	39,000	51.35	33,377.50	47.71	31,011.50	108.67	70,635.50	51.50	33,475.00		100.00	65,000.00	38.00	24,700.00	71.00	46,150.00	
23	Crushed Surfacing Top Course Backfill Import, Placement, and Compaction	Ton	78	80	6,240	102.74	8,013.72	140.85	10,986.30	137.47	10,722.66	107.00	8,346.00		120.00	9,360.00	105.00	8,190.00	122.50	9,555.00	
Groundwater Injections																					
24	Groundwater Injections	Lump Sum	1	275,000	275,000	201,246.00	201,246.00	264,797.44	264,797.44	302,233.00	302,233.00	360,000.00	360,000.00		250,000.00	250,000.00	360,750.00	360,750.00	360,603.00	360,603.00	
Subtotal Cost				1,206,520		842,265.38		1,363,584.87		1,507,226.87		1,142,160.00				1,473,060.00		1,276,387.50		1,265,765.00	
10% Contingency				Lump Sum 1 120,652		120,652		--		--		--		--		--		--		--	
Total Cost				1,327,172		--		--		--		--		--		--		--		--	
Local and State Sales Tax (8.7%):				115,463.96		73,277.09		118,631.88		131,128.74		99,367.92				128,156.22		111,045.71		110,121.56	
Total Cost to City of Ridgefield:				1,442,635.96		915,542.47		1,482,216.75		1,638,355.61		1,241,527.92				1,601,216.22		1,387,433.21		1,375,886.56	

Park Laundry Cleanup Project Construction Contract Award

P24003-2



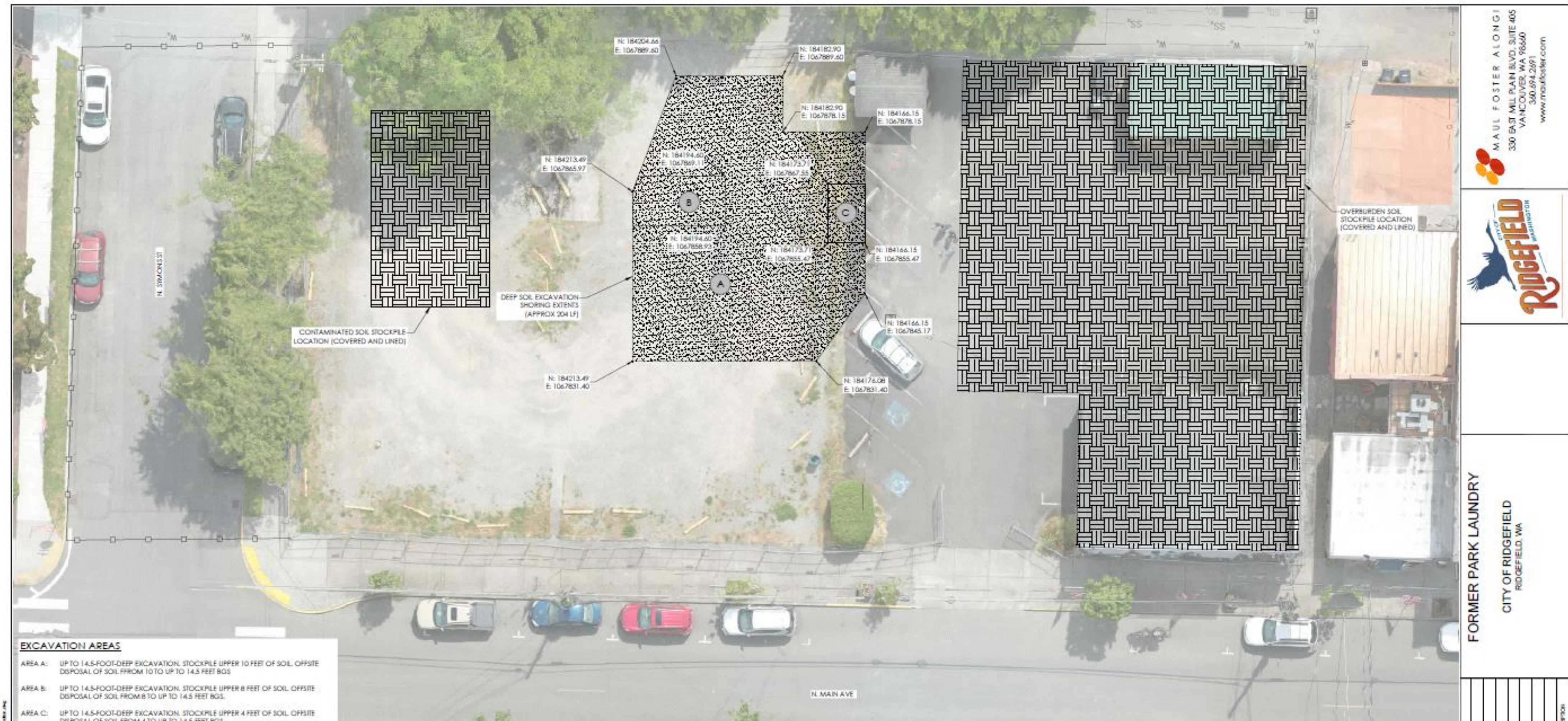
Ridgefield City Council | November 7, 2024

Components of this Project

Clean-up Phase of Park Laundry Remediation Project

- Shallow soil excavations
- Deep Soil Excavation, Shoring, and Dewatering
- Groundwater Injections: Evonik
- Permits/EPA Site ID
- Health and Safety
- Disposal
- Site Preparation and Restoration
- Timelines/ Duration
- Project to be complete early 2025

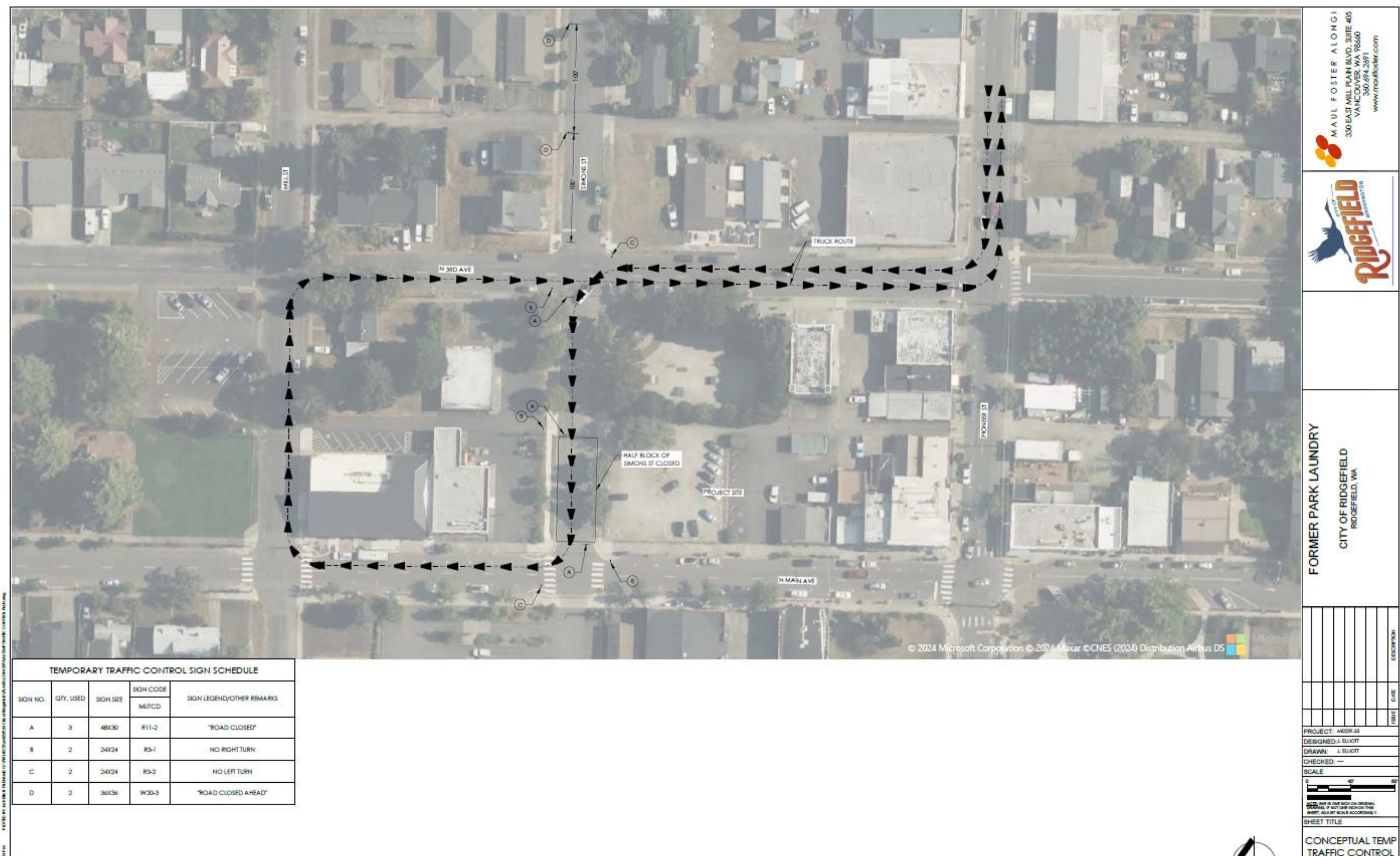
Overall Project Plan



In-Situ Chemical Reduction Plan



Traffic Control Plan



Bid Results

Seven bids and one no-bid received:

- Anderson Environmental Contracting, LLC (AEC).
- Envirocon, Inc.
- Glacier Environmental Services, Inc.
- Innovative Construction Solutions.
- Keithly Barber Associates which was a No-Bid.
- Lee Contractors.
- Nutter Corporation.
- Peak Environmental, LLC.

Supplemental Bidder Responsibility Criteria

Required to be submitted by apparent low bidders after bid opening and within two (2) business days, with reference information.

- **Contractor must be qualified to successfully perform similarly sized and scoped projects, which shall be demonstrated by having the following:**
 - At least two (2) public construction projects of at least \$1.5 million in project construction cost completed within the last 5 years prior to bid submittal
 - Public remediation, brownfield or similar site cleanup projects
 - Projects including State Department of Ecology and/or Environmental Protection Agency grants and experience with contaminated groundwater dewatering and treatment are desired..
- **Contractor must be able to demonstrate cost and schedule control in their projects submitted for Criterion 1:**
 - Projects were completed on time and within the Owner's budget
 - Change orders (if applicable) represent no more than 10% of the original contract cost, or within 10% over the number of workdays of the original project schedule
 - Extenuating circumstances can be considered.
- **Contractor shall not have had any public works contract terminated for cause or terminated for default by a government agency during the last five (5) years prior to bid submittal**
 - No termination for cause, and no liquidated damages paid.
 - Extenuating circumstances can be considered.



Supplemental Responsible Bidder Criteria

Supplemental Bidder Criteria Responses

- AEC is apparent lowest responsive bidder
- Responses sought from three lowest bidders
- Two business day turnaround
- Projects must meet supplemental criteria requirements
- Staff and consultant reviewed responses and conducted bid review
- AEC's projects are applicable and references are positive

Notice of Intent to Award to AEC sent to all bidders on October 29, 2024.

Keep in Touch



Chuck Green, Public
Works Director
Direct: (360) 857-5022



Chuck Green: chuck.green@ridgefieldwa.us



487 S. 56th Place | PO Box 608
Ridgefield, WA 98642



www.ridgefieldwa.us



Requested Action

Council action is requested on this item. A suggested motion is:

“I move to award the construction contract for the Park Laundry Cleanup Project to Anderson Environmental Contracting, LLC from Kelso, WA in the amount of \$915,542.47 plus \$100,000 in contingencies.”



**CITY OF RIDGEFIELD
REQUEST FOR COUNCIL ACTION**

MEETING DATE: November 7, 2024

AGENDA ITEM NAME: Motion - Approval of Agreed Order with Department of Ecology

GOVERNING LEGISLATION

RCW 35A.11.010 and 020

PREVIOUS COUNCIL ACTION TAKEN:

N/A

SUMMARY/BACKGROUND:

- The Port and City have negotiated a new Agreed Order No. DE 12769 with Ecology (the “2024 AO”) which will require implementation of the 2024 Off-Property Portion Cleanup Action Plan (the “2024 AO CAP”) attached to the 2024 AO as Exhibit A. The 2024 AO will be executed by the Parties concurrently with this Agreement;
- The 2024 AO provides that, to the extent permitted by law, the Port and City agree to indemnify, save, and hold the State of Washington, its employees, and agents harmless from any and all claims or causes of action for certain causes of action arising from or on account of the acts or omissions of the Port and City in entering into and implementing the 2024 AO (the “AO Indemnification”);
- The “Work to be Performed” described in the 2024 AO is primarily soil removal and replacement in certain properties and associated ROWs in downtown Ridgefield neighborhoods identified as the Off-Property Portion of the Site;
- This AO and associated work should be the final phase of required remediation;
- City and Port have received assurances from Ecology that there are adequate grant funds to complete the detailed work; and
- Ecology has also clarified that City-owned Davis Park is not subject to necessary remediation for dioxins contamination

BUDGET/FINANCIAL IMPACTS:

N/A

RECOMMENDED ACTION OR MOTION:

“I move to approve the Agreed Order Agreement with the Department of Ecology as presented and give authorization to the City Manager to sign said agreement.”

STAFF CONTACT: Steve Stuart, City Manager

ATTACHMENTS:

1. PacificWoodTreating_Draft_AO_DE 12769

State of Washington
Department of Ecology

In the Matter of Remedial Action by:
Port of Ridgefield and the City of Ridgefield
MTCA Agreed Order
No. DE 12769

To: Randy Mueller
P.O. Box 55, Ridgefield, Washington

Steve Stuart
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Exhibit A 2024 Off-Property Portion Cleanup Action Plan

Exhibit B Remedial Action Location Diagram

Exhibit C Scope of Work and Project Schedule

1. Introduction

The mutual objective of the State of Washington, Department of Ecology (Ecology), the Port of Ridgefield, and the City of Ridgefield under this Agreed Order (Order) is to provide for remedial action at a facility where there has been a release or threatened release of hazardous substances. This Order requires the Port of Ridgefield and the City of Ridgefield (Subject PLPs) to conduct remedial actions at part of the Pacific Wood Treating Site (Site) as described in the 2024 Off-Property Portion Cleanup Action Plan (Exhibit A). Ecology believes the actions required by this Order are in the public interest.

2. Jurisdiction

This Order is issued pursuant to the Model Toxics Control Act (MTCA), RCW 70A.305.050(1).

3. Parties Bound

This Agreed Order shall apply to and be binding upon the Parties to this Order, their successors and assigns. The undersigned representative of each Party hereby certifies that he or she is fully authorized to enter into this Order and to execute and legally bind such Party to comply with this Order. The Subject PLPs agree to undertake all actions required by the terms and conditions of this Order. No change in ownership or corporate status shall alter the Subject PLP's responsibility under this Order. The Subject PLPs shall provide a copy of this Order to all agents, contractors, and subcontractors retained to perform work required by this Order, and shall ensure that all work undertaken by such agents, contractors, and subcontractors complies with this Order.

4. Definitions

Unless otherwise specified herein, the definitions set forth in RCW 70A.305, and WAC 173-340 shall control the meanings of the terms in this Order.

4.1 Site

The Site is referred to as Pacific Wood Treating. The Site constitutes a facility under RCW 70A.305.020(8). The Site is defined by where a hazardous substance, other than a consumer product in consumer use, has been deposited, stored, disposed of, or placed, or otherwise come to be located. Based upon factors currently known to Ecology, the

Site is generally located in the vicinity of 111 West Division Street in Ridgefield, Washington as shown in the Location Diagram (Exhibit B). The Site includes the Lake River Industrial Site property (LRIS), which was divided into Cells 1 through 4 under Ecology Agreed Order No. 01TCPSR-3119 (2001) for prioritization of remediation and redevelopment activities by the Port. The Site also includes Carty Lake to the north (in the Ridgefield National Wildlife Refuge), the Port's Railroad Avenue properties, Off-Property Residential Areas to the east of the Burlington Northern Santa Fe Railway (BNSF) main rail line (commonly referred to as the Off-Property Portion [OPP]), the Port's Marina property and the Railroad Overpass property, a portion of McCuddy's Marina to the south, and a portion of Lake River to the west. Based upon factors currently known to Ecology, the Remedial Action Location Diagram (Exhibit B) shows where the remedial action will be implemented under this Order. The Site description and remedial action are more fully described in the 2024 2024 Off-Property Portion Cleanup Action Plan (Exhibit A).

4.2 Parties

Refers to the State of Washington, Department of Ecology, the Port of Ridgefield, and the City of Ridgefield.

4.3 Potentially Liable Person (PLP)

Refers to parties named as Potentially Liable Persons for the Site which includes the Port of Ridgefield, City of Ridgefield, and Union Pacific Railroad Company. The Port of Ridgefield and the City of Ridgefield are the only PLPs subject to this Order.

4.4 Subject PLPs

Refers to PLPs subject to this Order (The Port of Ridgefield and the City of Ridgefield).

4.5 Remedial Action Location

The portion of the Site at which remedial actions will take place under this Order. This location is described in the 2024 2024 Off-Property Portion Cleanup Action Plan (Exhibit A) and the Remedial Action Location Diagram (Exhibit B).

4.6 Agreed Order or Order

Refers to this Order and each of the exhibits to this Order. All exhibits are integral and enforceable parts of this Order.

5. Findings of Fact

Ecology makes the following findings of fact, without any express or implied admissions of such facts by the Subject PLPs:

5.1

Based on factors currently known to Ecology, the site is generally located in the vicinity of 111 West Division Street in Ridgefield, Washington. The Site encompasses the LRIS, Carty Lake to the north, the Port's Railroad Avenue properties, residential properties to the east (OPP), the Port's Marina property and the Railroad Overpass property and a portion of McCuddy's Marina to the south, and a portion of Lake River to the west.

5.2

From 1964 to 1993, the Pacific Wood Treating Corporation (PWT) leased 24 acres from the Port of Ridgefield for the production of treated wood products. PWT used oil-based treatment solutions containing various hazardous substances such as creosote, pentachlorophenol (PCP), and CCA (a copper, chromium, and arsenic mixture). PWT ceased wood treating operations in 1993, when the company declared bankruptcy.

5.3

In addition to leasing 24 acres of the Site to PWT, the Port purchased an additional 11 acres of the LRIS following PWT's bankruptcy and owns the Port Railroad Avenue properties (0.62 acre), Marina property (1 acre), and Railroad overpass property (1.35 acres).

5.4

Union Pacific Railroad (UP) owned an approximately two-acre parcel within the Site along the eastern side of the former PWT facility (UP Property). The UP Property was purchased by the Port in May 2013. UP leased the UP Property to PWT beginning in the early to middle 1970s. A steel drip trough was located on this parcel to collect excess preservative dripping from freshly treated poles before placement in Cell 3. The treating solutions contained PCP, petroleum hydrocarbons, and CCA.

5.5

The City of Ridgefield (City) owned an approximately 0.5 acre parcel in the former tank farm area of the Site. The City leased its property to PWT beginning in the 1960s. Wood treating chemicals containing PCP, petroleum hydrocarbons, and CCA were stored on the City property. The Port purchased the 0.5 acre parcel from the City in 2010. Currently, the City's wastewater treatment plant falls within the boundary of the Site.

5.6

McCuddy's Ridgefield Marina is the current operator of the approximately 6.5 acre, privately-owned marina located at 5 West Mill Street, a portion of which is within the Site. McCuddy's Ridgefield Marina also leases approximately 11 acres in Lake River from the Washington State Department of Natural Resources (DNR).

5.7

Carty Lake is a 52 acre, ponded wetland located in the Ridgefield National Wildlife Refuge (RNWR) operated by the U.S. Fish and Wildlife Service.

5.8

The residential area east of the LRIS within the Site is zoned low-density residential. The residential area of the Site includes approximately 13 blocks spanning roughly 17 acres.

5.9

PWT operations resulted in releases of hazardous substances to the environment through various means: drippage of treatment solutions onto the ground; spills of creosote or treatment solutions onto the ground; spills of granular PCP and stored wastewater onto the ground; and the discharge and/or leakage of wastewater, stormwater runoff, and spilled/leaked materials from the buried drain systems carrying them. Waste disposal methods used at the PWT facility also resulted in releases from an unlined surface impoundment (now covered over), a buried French drainage system routed toward Lake River and on-Site sludge incineration.

5.10

In November 1984, PWT submitted a Closure Plan to Ecology. A 1985 groundwater study identified two aquifers beneath the PWT Site: a shallow water table aquifer in the recent alluvium and a deeper alluvial aquifer in the Troutdale formation, which is semi-confined on the eastern portion of the Site. PCP and other hazardous substances were present in both aquifers at levels above U.S. Environmental Protection Agency (EPA) groundwater standards. A 1991 Phase II Site Investigation conducted by Hart Crowser investigated 10 EPA-identified waste management areas and identified PCP contamination on the LRIS in all 10 waste management areas. PWT hired Kleinfelder to complete a RCRA Facility Investigation required by a September 1991 administrative order issued by EPA.

5.11

A stormwater investigation conducted by Ecology in January 1989 showed high concentrations of PCP, polycyclic aromatic hydrocarbons (PAHs), and metals in PWT surface runoff, on-Site sediment catch basins, and some near-field sediments. A February 1991 EPA RCRA Preliminary Assessment report identified 10 waste

management areas needing further characterization. EPA conducted a Site Assessment in June and July of 1995 that confirmed previous reports of contamination. A preliminary Human Health and Ecological Risk Assessment identified potential risks to human health and the environment through several exposure pathways.

5.12

PWT and its parent company Niedermeyer-Martin declared bankruptcy in August 1993. The president of PWT, Edward Niedermeyer, also declared bankruptcy and is now deceased. A settlement between EPA, Ecology, and the PWT/Niedermeyer-Martin bankruptcy trustees resulted in the agencies obtaining \$1.8 million to be used for conducting cleanup activities and for natural resource damage assessment and restoration.

5.13

At the Port's request, and with concurrence from the EPA, oversight responsibility for the cleanup of the Site was transferred to Ecology.

5.14

Based on credible evidence, Ecology issued a PLP status letter to the Port dated July 15, 1996, pursuant to RCW 70A.305.040 (previously 70.105D.040), 70A.305.020(21) (previously 70.105D.020(21)), and WAC 173-340-500. By letter dated August 6, 1996, the Port voluntarily waived its rights to notice and comment and accepted Ecology's determination that the Port is a PLP under RCW 70A.305.040 (previously 70.105D.040).

5.15

Based on credible evidence, Ecology issued a PLP status letter to the City dated April 3, 1997, pursuant to RCW 70A.305.040 (previously 70.105D.040), 70A.305.020(21) (previously 70.105D.020(21)), and WAC 173-340-500. After providing for notice and opportunity to comment, reviewing any comments submitted, and concluding that credible evidence supported a finding of potential liability, Ecology issued a determination that the City is a PLP under RCW 70A.305.040 (previously 70.105D.040) and notified the City of this determination by letter dated May 6, 1997.

5.16

In September 1996, the Port entered into an Agreed Order with Ecology (the First Agreed Order, No. DE 96TC-S304) to conduct interim actions to address the Site's tank farm area. The First Agreed Order required the Port to: 1) address the stormwater system and contaminants leaving the Site via the outfalls; 2) remove/demolish tanks, retorts, ancillary equipment, chemicals and hazardous wastes, and the concrete containment wall in the former tank farm area; 3) characterize soil and groundwater in the former

tank farm area and address free product if necessary; 4) clean up impacted soil from a historic granular PCP spill; and 5) assess recommendations from previous PWT Site studies. The Port carried out the work required by the First Agreed Order, including the removal of 100 tons of solid waste and 4,500 gallons of hazardous waste, and 158,000 gallons of wood treating chemicals left by PWT. Site characterization work completed by the Port under the First Agreed Order identified severe soil and groundwater contamination from historic spills and releases originating in the vicinity of the former PWT tank farm area. In the former tank farm area, impacts were found from the ground surface into groundwater and had migrated downward to a depth of greater than 60 feet. Mobile free product (non-aqueous phase liquid [NAPL]) had migrated on and in groundwater towards the RNWR.

Based on the magnitude of the contamination and the nature of the chemicals, Ecology proposed the use of steam enhanced remediation (SER) to remove mobile NAPL originating from the former tank farm area. Between late 1997 and 2000, the Port and Ecology worked toward the evaluation, design, and implementation of a steam-based remediation system. In the interest of moving the steam enhanced remediation project forward, the Port: 1) characterized the extent of NAPL in the former tank farm area and between the former tank farm area and the RNWR; 2) selected a steam remediation service provider through a public bid process; 3) developed a steam remediation system conceptual design; and 4) prepared the Final - Steam Enhanced Remediation of the Port of Ridgefield Lake River Industrial Site (Former Pacific Wood Treating Corporation Facility), Conceptual Design and Schedule, dated July 2000 (Conceptual Design). Ecology reviewed and accepted the Conceptual Design in July 2000.

5.17

On September 24, 2001, the Port and Ecology signed a second Agreed Order (Agreed Order No. 01TCPSR-3119), which acknowledged completion of the First Agreed Order and required the Port to: 1) conduct Phase 1 of an interim/emergency action to remove NAPL from the axis of the NAPL plume and reduce the risk of further contaminant migration to the RNWR and groundwater beneath the Site; 2) remove free product, soil and groundwater contamination from the most highly contaminated portions of Cells 1 and 2 (the LRIS was divided into Cells 1 through 4 for prioritization of development activities); 3) continue work to improve stormwater quality; 4) demolish structures/buildings as needed to make the Site more accessible for characterization and remediation work in support of the interim/emergency action; and 5) conduct and prepare a Remedial Investigation/Risk Assessment/Feasibility Study of the Site.

5.17.1 SER Implementation

Phase 1: On May 24, 2004, the Port began injecting steam into one steam injection well as part of the Phase 1 SER system. A total of six steam injection wells were online the week of January 24, 2005. Phase 1 operated for one year, from May 2004 to May 2005. Phase 2: On October 7, 2005, the Port completed the Interim/Emergency Action Phase 2 Design Report for the Phase 2 SER system. Phase 2 expanded the size of Phase 1 by five times. The goal of Phase 2 was to remove mobile NAPL – the source of ongoing groundwater contamination, and to remove mobile contaminants from soil and groundwater leaving only immobile and/or non-leachable contaminants that would remain bound in soil. The Phase 2 well field was divided into four areas and treatment occurred sequentially in Areas 1 through 4. Phase 2 operations occurred from March 2006 through June 2011, which included a polish stage to treat previously steamed areas to remove any remaining NAPL. Concentrations of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) had been reduced in groundwater on average by approximately 99 percent and 98 percent within the SER area. Based on performance of the system in Phases 1 and 2 and the absence of NAPL in the polishing phase, it was determined that the SER system had reached a point of diminishing returns, and with Ecology approval, the system operation was discontinued. The SER system removed approximately 24,800 gallons of NAPL, disposed of over 500 tons of contaminated sludge, and treated approximately over one million gallons of groundwater.

5.17.2 Interim Actions

Multiple interim actions were conducted throughout the LRIS, including: removal of free product; removal of highly contaminated soil and groundwater; replacement of the stormwater system; demolition of historical PWT structures and buildings; and soil cap installation. Description of interim actions is provided in the PWT Site RI/FS.

5.17.3 PWT Site RI/FS

An RI/FS for the PWT Site was submitted to Ecology on July 1, 2013, and approved for public comment on June 19, 2013. The report summarized the nature and extent of the Site, interim action work completed, evaluation of remedial

alternatives, and the preferred remedial alternatives for the LRIS and sediments in Lake River and Carty Lake.

5.18

On November 5, 2013, Consent Decree No. 13-2-03830-1 between Ecology, the Port, and the City was entered into and filed in Clark County Superior Court. This Consent Decree between the Port, the City and Ecology covered a portion of the Site, and required the Port and City to: (1) conduct groundwater monitoring; (2) record environmental covenants on property within the Site; (3) cap portions of the Site; and (4) remove sediments in Lake River and Carty Lake and cap with clean sand.

5.19

Based on credible evidence, Ecology issued a PLP status letter to UP dated November 13, 2013, pursuant to RCW 70A.305.040 (previously 70.105D.040), 70A.305.020(21) (previously 70.105D.020(21)), and WAC 173-340-500. After providing for notice and opportunity to comment, reviewing any comments submitted, and concluding that credible evidence supported a finding of potential liability, Ecology issued a determination that UP is a PLP under RCW 70A.305.040 (previously 70.105D.040) and notified UP of this determination by letter dated November 6, 2013.

5.20

On December 8, 2014, the Port and Ecology signed a third Agreed Order (Agreed Order No. DE 11057) which required the Port to complete a remedial investigation, feasibility study, and preliminary cleanup action plan for the Off-Property portion of the Site in the residential area. In April 2016, Ecology approved an Interim Action Work Plan under which the Port conducted cleanup actions for some yards and rights-of-way in the Off-Property area of the Site.

5.21

On August 19, 2020, De Minimis Consent Decree No. 20-2-01609-6 between Ecology and UP was entered into and filed in Clark County Superior Court. Under terms of the De Minimis Consent Decree, UP paid into Ecology's Cleanup Settlement Account the amount of \$2,264,037. After payment of the required amount, as terms and conditions of the Consent Decree had been satisfied, the Decree was dismissed under Order of Dismissal on January 8, 2021.

5.22

On August 2, 2023, Ecology and the Port of Ridgefield entered into an Inter-Agency Agreement in order to fund property access and investigation activities for fifteen of the remaining off-property residential yards and associated rights-of-ways, and to fund

property access, investigation, and design (pre-construction) activities for eleven of the fifteen off-property residential yards and associated rights-of-ways in preparation for the removal of dioxin contaminated soils.

5.23

Ecology has assigned the Site an overall priority ranking of 1 (highest assessed risk) pursuant to MTCA.

5.24

As documented in the 2024 Off-Property Portion Cleanup Action Plan (2024 CAP) (Exhibit A), Ecology has chosen a final cleanup action to be implemented at a portion of the Site.

6. Ecology Determinations

Ecology makes the following determinations, without any express or implied admissions of such determinations (and underlying facts) by the Subject PLPs.

6.1

The Port of Ridgefield is the current owner of the property at the Site where there has been a release of hazardous substances to the environment.

6.2

Based upon all factors known to Ecology, a “release” or “threatened release” of “hazardous substance(s)” as defined in RCW 70A.305.020(32), (13), respectively, has occurred at the Site.

6.3

Based upon credible evidence, Ecology issued a PLP status letter to the Port of Ridgefield dated July 15, 1996, pursuant to RCW 70A.305.040, .020(26), and WAC 173-340-500. By letter dated August 6, 1996, the Port of Ridgefield voluntarily waived its rights to notice and comment and accepted Ecology’s determination that the Port of Ridgefield is a PLP under RCW 70A.305.040.

6.4

Pursuant to RCW 70A.305.030(1), .050(1), Ecology may require PLPs to investigate or conduct other remedial actions with respect to any release or threatened release of hazardous substances, whenever it believes such action to be in the public interest. Based on the foregoing facts, Ecology believes the remedial actions required by this Order are in the public interest.

7. Work to be Performed

Based on the Findings of Fact and Ecology Determinations, it is hereby ordered that the Subject PLPs take the following remedial actions at the Site. The area within the Site where remedial action is necessary under RCW 70A.305 is described in the Remedial Action Location Diagram (Exhibit B). These remedial actions must be conducted in accordance with WAC 173-340.

7.1

The Subject PLPs will complete the cleanup of dioxins in the off-property section of the Site in accordance with the 2024 Off-Property Portion Cleanup Action Plan (Exhibit A) and the terms of the Scope of Work and Schedule (Exhibit C), and all other requirements of this Order.

7.2

If the Port of Ridgefield learns of a significant change in conditions at the Site, including but not limited to a statistically significant increase in contaminant and/or chemical concentrations in any media, the Subject PLPs, within seven (7) days of learning of the change in condition, shall notify Ecology in writing of said change and provide Ecology with any reports or records (including laboratory analyses, sampling results) relating to the change in conditions.

7.3

The Subject PLPs shall submit to Ecology, written, quarterly Progress Reports that describe the actions taken during the previous quarter to implement the requirements of this Order. All Progress Reports shall be submitted by the tenth (10th) day of the month in which they are due after the effective date of this Order. Unless otherwise specified by Ecology, Progress Reports and any other documents submitted pursuant to this Order shall be sent by certified mail, return receipt requested, to Ecology's project coordinator. The Progress Reports shall include the following:

7.3.1

A list of onsite activities that have taken place during the quarter.

7.3.2

Detailed description of any deviations from required tasks not otherwise documented in project plans or amendment requests.

7.3.3

Description of all deviations from the Scope of Work and Schedule (Exhibit C) during the current quarter and any planned deviations in the upcoming quarter.

7.3.4

For any deviations in schedule, a plan for recovering lost time and maintaining compliance with the schedule.

7.3.5

All raw data (including laboratory analyses) received during the previous quarter (if not previously submitted to Ecology), together with a detailed description of the underlying samples collected.

7.3.6

A list of deliverables for the upcoming quarter.

7.4

Pursuant to WAC 173-340-440(11), the Subject PLPs shall maintain sufficient and adequate financial assurance mechanisms to cover all costs associated with the operation and maintenance of the remedial action at the Site, including institutional controls, compliance monitoring, and corrective measures.

7.4.1

Within sixty (60) days of the effective date of this Order, the Subject PLPs shall submit to Ecology for review and approval an estimate of the costs under this Order for operation and maintenance of the remedial actions at the Site, including institutional controls, compliance monitoring and corrective measures. Within sixty (60) days after Ecology approves the aforementioned cost estimate, the Subject PLPs shall provide proof of financial assurances sufficient to cover all such costs in a form acceptable to Ecology.

7.4.2

The Subject PLPs shall adjust the financial assurance coverage and provide Ecology's project coordinator with documentation of the updated financial assurance for:

7.4.2.1

Inflation, annually, within thirty (30) days of the anniversary date of the entry of this Order; or if applicable, the modified anniversary date established in accordance with this section, or if applicable, ninety (90) days after the close of the Subject PLP's fiscal year if the financial test or corporate guarantee is used.

7.4.2.2

Changes in cost estimates, within thirty (30) days of issuance of Ecology's approval of a modification or revision to the cleanup action plan (CAP) that result in increases to the cost or expected duration of remedial actions. Any adjustments for inflation since the most recent preceding anniversary date shall be made concurrent with adjustments for changes in cost estimates. The issuance of Ecology's approval of a revised or modified CAP will revise the anniversary date established under this section to become the date of issuance of such revised or modified CAP.

7.5

All plans or other deliverables submitted by the Subject PLPs for Ecology's review and approval under the Scope of Work and Schedule (Exhibit C) shall, upon Ecology's approval, become integral and enforceable parts of this Order. The Subject PLPs shall take any action required by such deliverable.

7.6

Under WAC 173-340-430, an interim action is a remedial action that is technically necessary to reduce a threat to human health or the environment by eliminating or substantially reducing one or more pathways for exposure to a hazardous substance, that corrects a problem that may become substantially worse or cost substantially more to address if the remedial action is delayed, or that is needed to provide for completion of a site hazard assessment, remedial investigation/feasibility study, or design of a cleanup action plan. Any Party may propose an interim action under this Order. If the Parties are in agreement concerning the interim action, the Subject PLPs shall prepare and submit to Ecology an Interim Action Work Plan, including a scope of work and schedule, by the date determined by Ecology. Ecology will provide public notice and opportunity to comment on the Interim Action Work Plan in accordance with WAC 173-340-600(16). The Subject PLPs shall not conduct the interim action until Ecology approves the Interim Action Work Plan. Upon approval by Ecology, the Interim Action Work Plan becomes an integral and enforceable part of this Order, and the Subject PLPs is required to conduct the interim action in accordance with the approved Interim Action Work Plan. If the Parties are not in agreement, Ecology reserves its authority to require interim action(s) under a separate order or other enforcement action under RCW 70A.305, or to undertake the interim action itself.

7.7

If Ecology determines that the Subject PLPs have failed to make sufficient progress or failed to implement the remedial action, in whole or in part, Ecology may, after notice to the Subject PLPs, perform any or all portions of the remedial action or at Ecology's discretion allow the Subject PLPs opportunity to correct. In an emergency, Ecology is not

required to provide notice to the Subject PLPs, or an opportunity for dispute resolution. The Subject PLPs shall reimburse Ecology for the costs of doing such work in accordance with Section VIII.A (Payment of Remedial Action Costs). Ecology reserves the right to enforce requirements of this Order under Section 10 (Enforcement).

7.8

Except where necessary to abate an emergency situation or where required by law, the Subject PLPs shall not perform any remedial actions at the Site outside those remedial actions required by this Order to address the contamination that is the subject of this Order, unless Ecology concurs, in writing, with such additional remedial actions pursuant to Section 8.11 (Amendment of Order). In the event of an emergency, or where actions are taken as required by law, the Subject PLPs must notify Ecology in writing of the event and remedial action(s) planned or taken as soon as practical but no later than within twenty-four (24) hours of the discovery of the event.

8. Terms and Conditions

8.1 Payment of Remedial Action Costs

The Subject PLPs shall pay to Ecology costs incurred by Ecology pursuant to this Order and consistent with WAC 173-340-550(2). These costs shall include work performed by Ecology or its contractors for, or on, the Site under RCW 70A.305, including remedial actions and Order preparation, negotiation, oversight, and administration. These costs shall include work performed both prior to and subsequent to the issuance of this Order. Ecology's costs shall include costs of direct activities and support costs of direct activities as defined in WAC 173 340 550(2). For all Ecology costs incurred, the Subject PLPs shall pay the required amount within thirty (30) days of receiving from Ecology an itemized statement of costs that includes a summary of costs incurred, an identification of involved staff, and the amount of time spent by involved staff members on the project. A general statement of work performed will be provided upon request. Itemized statements shall be prepared quarterly. Pursuant to WAC 173-340-550(4), failure to pay Ecology's costs within ninety (90) days of receipt of the itemized statement of costs will result in interest charges at the rate of twelve percent (12%) per annum, compounded monthly.

In addition to other available relief, pursuant to RCW 19.16.500, Ecology may utilize a collection agency and/or, pursuant to RCW 70A.305.060, file a lien against real property subject to the remedial actions to recover unreimbursed remedial action costs.

8.2 Designated Project Coordinators

The project coordinator for Ecology is:

Cam Penner-Ash, Cleanup Project Manager
Washington State Department of Ecology
Southwest Regional Office
PO Box 47775
Olympia, WA 98504
Cell: 360-999-9590
Email: cpen461@ecy.wa.gov

The project coordinators for the Subject PLPs are:

Randy Mueller, CEO
Port of Ridgefield
PO Box 55
Ridgefield, WA 98642
Office: 360-887-3873
Email: rmueller@portridgefield.org

Steve Stuart, City Manager
City of Ridgefield
230 Pioneer Street, PO Box 608
Ridgefield, WA 98642
Office: 360-887-3557
Email: steve.stuart@ridgefieldwa.us

Each project coordinator shall be responsible for overseeing the implementation of this Order. Ecology's project coordinator will be Ecology's designated representative for the Site. To the maximum extent possible, communications between Ecology and the Subject PLPs and all documents, including reports, approvals, and other correspondence concerning the activities performed pursuant to the terms and conditions of this Order shall be directed through the project coordinators. The project coordinators may designate, in writing, working level staff contacts for all or portions of the implementation of the work to be performed required by this Order.

Any Party may change its respective project coordinator. Written notification shall be given to the other Party at least ten (10) calendar days prior to the change.

8.3 Performance

All geologic and hydrogeologic work performed pursuant to this Order shall be under the supervision and direction of a geologist or hydrogeologist licensed by the State of

Washington or under the direct supervision of an engineer registered by the State of Washington, except as otherwise provided for by RCW 18.43 and 18.220.

All engineering work performed pursuant to this Order shall be under the direct supervision of a professional engineer registered by the State of Washington, except as otherwise provided for by RCW 18.43.130.

All construction work performed pursuant to this Order shall be under the direct supervision of a professional engineer or a qualified technician under the direct supervision of a professional engineer. The professional engineer must be registered by the State of Washington, except as otherwise provided for by RCW 18.43.130.

Any documents submitted containing geologic, hydrogeologic, or engineering work shall be under the seal of an appropriately licensed professional as required by RCW 18.43 and 18.220.

The Subject PLPs shall notify Ecology in writing of the identity of any engineer(s) and geologist(s), contractor(s), subcontractor(s), and other key personnel to be used in carrying out the terms of this Order, in advance of their involvement at the Site.

8.4 Access

Ecology or any Ecology authorized representative shall have access to enter and freely move about all property at the Site that the Subject PLPs either owns, controls, or has access rights to at all reasonable times for the purposes of, inter alia: inspecting records, operation logs, and contracts related to the work being performed pursuant to this Order; reviewing the Subject PLP's progress in carrying out the terms of this Order; conducting such tests or collecting such samples as Ecology may deem necessary; using a camera, sound recording, or other documentary type equipment to record work done pursuant to this Order; and verifying the data submitted to Ecology by the Subject PLPs. Ecology or any Ecology authorized representative shall give reasonable notice before entering any Site property owned or controlled by the Subject PLPs unless an emergency prevents such notice. All persons who access the Site pursuant to this section shall comply with any applicable health and safety plan(s). Ecology employees and their representatives shall not be required to sign any liability release or waiver as a condition of Site property access.

The Subject PLPs shall make best efforts to secure access rights for those properties within the Site not owned or controlled by the Subject PLPs where remedial activities or investigations will be performed pursuant to this Order. As used in this Section, "best efforts" means the efforts that a reasonable person in the position of the Subject PLPs would use so as to achieve the goal in a timely manner, including the cost of employing

professional assistance and the payment of reasonable sums of money to secure access and/or use restriction agreements, as required by this Section. If, within 30 days after the effective date of this Order, the Subject PLPs are unable to accomplish what is required through “best efforts,” they shall notify Ecology, and include a description of the steps taken to comply with the requirements. If Ecology deems it appropriate, it may assist the Subject PLPs, or take independent action, in obtaining such access and/or use restrictions. Ecology reserves the right to seek payment from the Subject PLPs for all costs, including cost of attorneys’ time, incurred by Ecology in obtaining such access or agreements to restrict land, water, or other resource use.

8.5 Sampling, Data Submittal, and Availability

With respect to the implementation of this Order, the Subject PLPs shall make the results of all sampling, laboratory reports, and/or test results generated by it or on its behalf available to Ecology. Pursuant to WAC 173-340-840(5), all sampling data shall be submitted to Ecology in both printed and electronic formats in accordance with Section VII (Work to be Performed), Ecology’s Toxics Cleanup Program Policy 840 (Data Submittal Requirements), and/or any subsequent procedures specified by Ecology for data submittal.

If requested by Ecology, the Subject PLPs shall allow Ecology and/or its authorized representative to take split or duplicate samples of any samples collected by the Subject PLPs pursuant to implementation of this Order. The Subject PLPs shall notify Ecology seven (7) days in advance of any sample collection or work activity at the Site. Ecology shall, upon request, allow the Subject PLPs and/or its authorized representative to take split or duplicate samples of any samples collected by Ecology pursuant to the implementation of this Order, provided that doing so does not interfere with Ecology’s sampling. Without limitation on Ecology’s rights under Section 8.4 (Access), Ecology shall notify the Subject PLPs prior to any sample collection activity unless an emergency prevents such notice.

In accordance with WAC 173-340-830(2)(a), all hazardous substance analyses shall be conducted by a laboratory accredited under WAC 173-50 for the specific analyses to be conducted, unless otherwise approved by Ecology.

8.6 Public Participation

RCW 70A.305.030(2)(a) requires that, at a minimum, this Order be subject to concurrent public notice. Ecology shall be responsible for providing this public notice and reserves the right to modify or withdraw any provisions of this Order should public comment disclose facts or considerations which indicate to Ecology that this Order is inadequate or improper in any respect.

Ecology shall maintain the responsibility for public participation at the Site. However, the Subject PLPs shall cooperate with Ecology, and shall:

8.6.1

If agreed to by Ecology, develop appropriate mailing lists and prepare drafts of public notices and fact sheets at important stages of the remedial action, such as the submission of work plans, remedial investigation/feasibility study reports, cleanup action plans, and engineering design reports. As appropriate, Ecology will edit, finalize, and distribute such fact sheets and prepare and distribute public notices of Ecology's presentations and meetings.

8.6.2

Notify Ecology's project coordinator prior to the preparation of all press releases and fact sheets, and before meetings related to remedial action work to be performed at the Site with the interested public and/or local governments. Likewise, Ecology shall notify the Subject PLPs prior to the issuance of all press releases and fact sheets related to the Site, and before meetings related to the Site with the interested public and local governments. For all press releases, fact sheets, meetings, and other outreach efforts by the Subject PLPs that do not receive prior Ecology approval, the Subject PLPs shall clearly indicate to its audience that the press release, fact sheet, meeting, or other outreach effort was not sponsored or endorsed by Ecology.

8.6.3

When requested by Ecology, participate in public presentations on the progress of the remedial action at the Site. Participation may be through attendance at public meetings to assist in answering questions or as a presenter.

8.6.4

When requested by Ecology, arrange and maintain a repository to be located at:

Ridgefield Public Library
210 North Main Avenue
Ridgefield, WA 98642

At a minimum, copies of all public notices, fact sheets, and documents relating to public comment periods shall be promptly placed in these repositories. A copy of all documents related to this Site shall be maintained in the repository at Ecology's Southwest Regional Office in Lacey, Washington.

8.7 Access to Information

The Subject PLPs shall provide to Ecology, upon request, copies of all records, reports, documents, and other information (including records, reports, documents, and other information in electronic form) (hereinafter referred to as "Records") within the Subject PLP's possession or control or that of their contractors or agents relating to activities at the Site or to the implementation of this Order, including, but not limited to, sampling, analysis, chain of custody records, manifests, trucking logs, receipts, reports, sample traffic routing, correspondence, or other documents or information regarding the work. The Subject PLPs shall also make available to Ecology, for purposes of investigation, information gathering, or testimony, their employees, agents, or representatives with knowledge of relevant facts concerning the performance of the work.

Nothing in this Order is intended to waive any right the Subject PLPs may have under applicable law to limit disclosure of Records protected by the attorney work-product privilege and/or the attorney-client privilege. If the Subject PLPs withhold any requested Records based on an assertion of privilege, the Subject PLPs shall provide Ecology with a privilege log specifying the Records withheld and the applicable privilege. No Site-related data collected pursuant to this Order shall be considered privileged, including: (1) any data regarding the Site, including, but not limited to, all sampling, analytical, monitoring, hydrogeologic, scientific, chemical, radiological, biological, or engineering data, or the portion of any other record that evidences conditions at or around the Site; or (2) the portion of any Record that Respondents are required to create or generate pursuant to this Order.

Notwithstanding any provision of this Order, Ecology retains all of its information gathering and inspection authorities and rights, including enforcement actions related thereto, under any other applicable statutes or regulations.

8.8 Retention of Records

During the pendency of this Order, and for ten (10) years from the date of completion of the work performed pursuant to this Order, the Subject PLPs shall preserve all records, reports, documents, and underlying data in its possession relevant to the implementation of this Order and shall insert a similar record retention requirement into all contracts with project contractors and subcontractors.

8.9 Resolution of Disputes

8.9.1

In the event that the Subject PLPs elects to invoke dispute resolution the Subject PLPs must utilize the procedure set forth below.

- 8.9.1.1 Upon the triggering event (receipt of Ecology's project coordinator's written decision or an itemized billing statement), the Subject PLPs has fourteen (14) calendar days within which to notify Ecology's project coordinator in writing of its dispute (Informal Dispute Notice).
- 8.9.1.2 The Parties' project coordinators shall then confer in an effort to resolve the dispute informally. The Parties shall informally confer for up to fourteen (14) calendar days from receipt of the Informal Dispute Notice. If the project coordinators cannot resolve the dispute within those fourteen (14) calendar days, then within seven (7) calendar days Ecology's project coordinator shall issue a written decision (Informal Dispute Decision) stating: the nature of the dispute; the Subject PLP's position with regards to the dispute; Ecology's position with regards to the dispute; and the extent of resolution reached by informal discussion.
- 8.9.1.3 The Subject PLPs may then request regional management review of the dispute. The Subject PLPs must submit this request (Formal Dispute Notice) in writing to the Southwest Region Toxics Cleanup Section Manager within seven (7) calendar days of receipt of Ecology's Informal Dispute Decision. The Formal Dispute Notice shall include a written statement of dispute setting forth: the nature of the dispute; the Subject PLP's position with respect to the dispute; and the information relied upon to support its position.
- 8.9.1.4 The Section Manager shall conduct a review of the dispute and shall endeavor to issue a written decision regarding the dispute (Decision on Dispute) within thirty (30) calendar days of receipt of the Formal Dispute Notice. The Decision on Dispute shall be Ecology's final decision on the disputed matter.

8.9.2

The Parties agree to only utilize the dispute resolution process in good faith and agree to expedite, to the extent possible, the dispute resolution process whenever it is used.

8.9.3

Implementation of these dispute resolution procedures shall not provide a basis for delay of any activities required in this Order, unless Ecology agrees in writing to a schedule extension.

8.9.4

In case of a dispute, failure to either proceed with the work required by this Order or timely invoke dispute resolution may result in Ecology's determination that insufficient progress is being made in preparation of a deliverable, and may result in Ecology undertaking the work under Section 7.1 (Work to be Performed) or initiating enforcement under Section 10 (Enforcement).

8.10 Extension of Schedule

8.10.1

The Subject PLP's request for an extension of schedule shall be granted only when a request for an extension is submitted in a timely fashion, generally at least thirty (30) days prior to expiration of the deadline for which the extension is requested, and good cause exists for granting the extension. All extensions shall be requested in writing. The request shall specify:

8.10.1.1 The deadline that is sought to be extended.

8.10.1.2 The length of the extension sought.

8.10.1.3 The reason(s) for the extension.

8.10.1.4 Any related deadline or schedule that would be affected if the extension were granted.

8.10.2

The burden shall be on the Subject PLPs to demonstrate to the satisfaction of Ecology that the request for such extension has been submitted in a timely fashion and that good cause exists for granting the extension. Good cause may include, but may not be limited to:

8.10.2.1 Circumstances beyond the reasonable control and despite the due diligence of the Subject PLPs including delays caused by unrelated third parties or Ecology, such as (but not limited to) delays by Ecology in reviewing, approving, or modifying documents submitted by the Subject PLPs.

8.10.2.2 A shelter in place or work stoppage mandated by state or local government order due to public health and safety emergencies.

8.10.2.3 Acts of God, including fire, flood, blizzard, extreme temperatures, storm, or other unavoidable casualty.

8.10.2.4 Endangerment as described in Section 8.12 (Endangerment).

However, neither increased costs of performance of the terms of this Order nor changed economic circumstances shall be considered circumstances beyond the reasonable control of the Subject PLPs.

8.10.3

Ecology shall act upon any the Subject PLP's written request for extension in a timely fashion. Ecology shall give the Subject PLPs written notification of any extensions granted pursuant to this Order. A requested extension shall not be effective until approved by Ecology. Unless the extension is a substantial change, it shall not be necessary to amend this Order pursuant to Section 8.11 (Amendment of Order) when a schedule extension is granted.

8.10.4

At the Subject PLP's request, an extension shall only be granted for such period of time as Ecology determines is reasonable under the circumstances. Ecology may grant schedule extensions exceeding ninety (90) days only as a result of one of the following:

8.10.4.1 Delays in the issuance of a necessary permit which was applied for in a timely manner.

8.10.4.2 Other circumstances deemed exceptional or extraordinary by Ecology.

8.10.4.3 Endangerment as described in Section 8.12 (Endangerment).

8.11 Amendment of Order

The project coordinators may verbally agree to minor changes to the work to be performed without formally amending this Order. Minor changes will be documented in writing by Ecology within seven (7) days of verbal agreement.

Except as provided in Section 8.13 (Reservation of Rights), substantial changes to the work to be performed shall require formal amendment of this Order. This Order may only be formally amended by the written consent of both Ecology and the Subject PLPs. Ecology will provide its written consent to a formal amendment only after public notice and opportunity to comment on the formal amendment.

When requesting a change to the Order, the Subject PLPs shall submit a written request to Ecology for approval. Ecology shall indicate its approval or disapproval in writing and in a timely manner after the written request is received. If Ecology determines that the

change is substantial, then the Order must be formally amended. Reasons for the disapproval of a proposed change to this Order shall be stated in writing. If Ecology does not agree to a proposed change, the disagreement may be addressed through the dispute resolution procedures described in Section 8.9 (Resolution of Disputes).

8.12 Endangerment

In the event Ecology determines that any activity being performed at the Site under this Order is creating or has the potential to create a danger to human health or the environment on or surrounding the Site, Ecology may direct the Subject PLPs to cease such activities for such period of time as it deems necessary to abate the danger. The Subject PLPs shall immediately comply with such direction.

In the event the Subject PLPs determines that any activity being performed at the Site under this Order is creating or has the potential to create a danger to human health or the environment, the Subject PLPs may cease such activities. The Subject PLPs shall notify Ecology's project coordinator as soon as possible, but no later than twenty-four (24) hours after making such determination or ceasing such activities. Upon Ecology's direction, the Subject PLPs shall provide Ecology with documentation of the basis for the determination or cessation of such activities. If Ecology disagrees with the Subject PLP's cessation of activities, it may direct the Subject PLPs to resume such activities.

If Ecology concurs with or orders a work stoppage pursuant to this section, the Subject PLP's obligations with respect to the ceased activities shall be suspended until Ecology determines the danger is abated, and the time for performance of such activities, as well as the time for any other work dependent upon such activities, shall be extended in accordance with Section 8.10 (Extension of Schedule) for such period of time as Ecology determines is reasonable under the circumstances.

Nothing in this Order shall limit the authority of Ecology, its employees, agents, or contractors to take or require appropriate action in the event of an emergency.

8.13 Reservation of Rights

This Order is not a settlement under RCW 70A.305. Ecology's signature on this Order in no way constitutes a covenant not to sue or a compromise of any of Ecology's rights or authority. Ecology will not, however, bring an action against the Subject PLPs to recover remedial action costs paid to and received by Ecology under this Order. In addition, Ecology will not take additional enforcement actions against the Subject PLPs regarding remedial actions required by this Order, provided the Subject PLPs complies with this Order.

Ecology nevertheless reserves its rights under RCW70A.305, including the right to require additional or different remedial actions at the Site should it deem such actions necessary to protect human health or the environment, and to issue orders requiring such remedial actions. Ecology also reserves all rights regarding the injury to, destruction of, or loss of natural resources resulting from the release or threatened release of hazardous substances at the Site.

By entering into this Order, the Subject PLPs does not admit to any liability for the Site. Although the Subject PLPs is committing to conducting the work required by this Order under the terms of this Order, the Subject PLPs expressly reserves all rights available under law, including but not limited to the right to seek cost recovery or contribution against third parties, and the right to assert any defenses to liability in the event of enforcement.

8.14 Transfer of Interest in Property

No voluntary conveyance or relinquishment of title, easement, leasehold, or other interest in any portion of the Site shall be consummated by the Subject PLPs without provision for continued implementation of all requirements of this Order and implementation of any remedial actions found to be necessary as a result of this Order.

Prior to the Subject PLP's transfer of any interest in all or any portion of the Site, and during the effective period of this Order, the Subject PLPs shall provide a copy of this Order to any prospective purchaser, lessee, transferee, assignee, or other successor in said interest; and, at least thirty (30) days prior to any transfer, the Subject PLPs shall notify Ecology of said transfer. Upon transfer of any interest, the Subject PLPs shall notify all transferees of the restrictions on the activities and uses of the property under this Order and incorporate any such use restrictions into the transfer documents.

8.15 Compliance with Applicable Laws

8.15.1 Applicable Laws

All actions carried out by the Subject PLPs pursuant to this Order shall be done in accordance with all applicable federal, state, and local requirements, including requirements to obtain necessary permits or approvals, except as provided in RCW 70A.305.090. At this time, no federal, state, or local requirements have been identified as being applicable to the actions required by this Order. The Subject PLPs have a continuing obligation to identify additional applicable federal, state, and local requirements which apply to actions carried out pursuant to this Order, and to comply with those requirements. As additional federal, state, and local requirements are identified by Ecology or the Subject PLPs, Ecology will document in writing if they are applicable to actions carried

out pursuant to this Order, and the Subject PLPs must implement those requirements.

8.15.2 Relevant and Appropriate Requirements.

All actions carried out by the Subject PLPs pursuant to this Order shall be done in accordance with relevant and appropriate requirements identified by Ecology. At this time, no relevant and appropriate requirements have been identified as being applicable to the actions required by this Order. If additional relevant and appropriate requirements are identified by Ecology or the Subject PLPs, Ecology will document in writing if they are applicable to actions carried out pursuant to this Order and the Subject PLPs must implement those requirements.

8.15.3

Pursuant to RCW 70A.305.090(1), the Subject PLPs may be exempt from the procedural requirements of RCW 70A.15, 70A.205, 70A.300, 77.55, 90.48, and 90.58 and of any laws requiring or authorizing local government permits or approvals. However, the Subject PLPs shall comply with the substantive requirements of such permits or approvals. For permits and approvals covered under RCW 70A.305.090(1) that have been issued by local government, the Parties agree that Ecology has the non-exclusive ability under this Order to enforce those local government permits and/or approvals. At this time, no state or local permits or approvals have been identified as being applicable but procedurally exempt under this section.

8.15.4

The Subject PLPs have a continuing obligation to determine whether additional permits or approvals addressed in RCW 70A.305.090(1) would otherwise be required for the remedial action under this Order. In the event either Ecology or the Subject PLPs determines that additional permits or approvals addressed in RCW 70A.305.090(1) would otherwise be required for the remedial action under this Order, it shall promptly notify the other Party of its determination. Ecology shall determine whether Ecology or the Subject PLPs shall be responsible to contact the appropriate state and/or local agencies. If Ecology so requires, the Subject PLPs shall promptly consult with the appropriate state and/or local agencies and provide Ecology with written documentation from those agencies of the substantive requirements those agencies believe are applicable to the remedial action. Ecology shall make the final determination on the additional substantive requirements that must be met by the Subject PLPs and on how the Subject PLPs must meet those requirements. Ecology shall inform the Subject PLPs in writing of these requirements. Once established by Ecology, the

additional requirements shall be enforceable requirements of this Order. The Subject PLPs shall not begin or continue the remedial action potentially subject to the additional requirements until Ecology makes its final determination.

Pursuant to RCW 70A.305.090(2), in the event Ecology determines that the exemption from complying with the procedural requirements of the laws referenced in RCW 70A.305.090(1) would result in the loss of approval from a federal agency that is necessary for the state to administer any federal law, the exemption shall not apply and the Subject PLPs shall comply with both the procedural and substantive requirements of the laws referenced in RCW 70A.305.090(1), including any requirements to obtain permits or approvals.

8.16 Periodic Review

So long as remedial action continues at the Site, the Parties agree to review the progress of remedial action at the Site, and to review the data accumulated as a result of monitoring the Site as often as is necessary and appropriate under the circumstances. Unless otherwise agreed to by Ecology, at least every five (5) years after the initiation of cleanup action at the Site the Parties shall confer regarding the status of the Site and the need, if any, for further remedial action at the Site. {Include the following requirement, as appropriate: At least ninety (90) days prior to each periodic review, the Subject PLPs shall submit a report to Ecology that documents whether human health and the environment are being protected based on the factors set forth in WAC 173 340 420(4).} Ecology reserves the right to require further remedial action at the Site under appropriate circumstances. This provision shall remain in effect for the duration of this Order.

8.17 Indemnification

To the extent permitted by law, the Subject PLPs agree to indemnify and save and hold the State of Washington, its employees, and agents harmless from any and all claims or causes of action (1) for death or injuries to persons, or (2) for loss or damage to property, to the extent arising from or on account of acts or omissions of the Subject PLPs, its officers, employees, agents, or contractors in entering into and implementing this Order. However, the Subject PLPs shall not indemnify the State of Washington nor save nor hold its employees and agents harmless from any claims or causes of action to the extent arising out of the negligent acts or omissions of the State of Washington, or the employees or agents of the State, in entering into or implementing this Order.

9. Satisfaction of Order

The provisions of this Order shall be deemed satisfied upon the Subject PLP's receipt of written notification from Ecology that the Subject PLPs have completed the remedial activity required by this Order, as amended by any modifications, and that the Subject PLPs have complied with all other provisions of this Agreed Order.

10. Enforcement

Pursuant to RCW 70A.305.050, this Order may be enforced as follows:

10.1

The Attorney General may bring an action to enforce this Order in a state or federal court.

10.2

The Attorney General may seek, by filing an action, if necessary, to recover amounts spent by Ecology for investigative and remedial actions and orders related to the Site.

10.3

A liable party who refuses, without sufficient cause, to comply with any term of this Order will be liable for:

10.3.1

Up to three (3) times the amount of any costs incurred by the State of Washington as a result of its refusal to comply.

10.3.2

Civil penalties of up to twenty-five thousand dollars (\$25,000) per day for each day it refuses to comply.

10.4

This Order is not appealable to the Washington Pollution Control Hearings Board. This Order may be reviewed only as provided under RCW 70A.305.070.

Effective date of this Order: _____

Port of Ridgefield

Randy Mueller
Chief Executive Officer, Port of Ridgefield
P.O. Box 55, Ridgefield, Washington
(360) 887-3873

City of Ridgefield

Steve Stuart
City Manager, City of Ridgefield
230 Pioneer Street, PO BOX 608, Ridgefield,
Washington
(360) 887-3557

State of Washington
Department of Ecology

Marian Abbett, PE
Section Manager
Toxics Cleanup Program
Southwest Regional Office
(360) 489-4569

EXHIBIT A
Pacific Wood Treating
Agreed Order No. DE 12769

Public Review Draft Off-Property Portion Cleanup Action Plan

PUBLIC REVIEW DRAFT OFF-PROPERTY PORTION CLEANUP ACTION PLAN

FORMER PACIFIC WOOD TREATING CO. SITE
111 WEST DIVISION STREET, RIDGEFIELD, WASHINGTON
FACILITY ID 1019, CLEANUP SITE ID 3020

June 18, 2024



Issued by:
**WASHINGTON STATE DEPARTMENT OF
ECOLOGY
TOXICS CLEANUP PROGRAM
SOUTHWEST REGIONAL OFFICE
300 DESMOND DR SE
LACEY, WASHINGTON 98503**

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ACRONYMS AND ABBREVIATIONS

ARPA	Archaeological Resources Protection Act
bgs	below ground surface
CAP	cleanup action plan
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
the City	City of Ridgefield
CSM	conceptual site model
CUL	cleanup level
CWA	Clean Water Act
DCA	disproportionate-cost analysis
dioxins	chlorinated dibenzo-p-dioxins and dibenzofurans
Ecology	Washington State Department of Ecology
EF	exposure frequency
EIS	environmental impact statement
EPA	U.S. Environmental Protection Agency
FS	feasibility study
FWPCA	Federal Water Pollution Control Act
FWQC	federal water quality criteria
IHS	indicator hazardous substance
LDR	Land-Disposal Restriction
LRIS	Lake River Industrial Site
MBTA	Migratory Bird Treaty Act
MCL	maximum contaminant level
MCLG	maximum contaminant level goal
MTCA	Model Toxics Control Act
NAAQS	national ambient air quality standards
ng/kg	nanograms per kilogram
NGVD	National Geodetic Vertical Datum of 1929/1947
NHPA	National Historic Preservation Act
NPDES	National Pollutant Discharge Elimination System
OPP	off-property portion
the Order	Agreed Order No. DE 11057
OSHA	Occupational Safety and Health Administration
POC	point of compliance
the Port	Port of Ridgefield
PWT	Pacific Wood Treating Co.
RCRA	Resource Conservation and Recovery Act
RCW	Revised Code of Washington
REL	remediation level
RI	remedial investigation
RMC	Ridgefield Municipal Code

ACRONYMS AND ABBREVIATIONS (CONTINUED)

ROW	right-of-way
SDWA	Safe Drinking Water Act
SEPA	State Environmental Policy Act
site	former PWT site; the site includes the LRIS, Port-owned properties, upland off-property areas, and nearby surface water bodies Lake River and Carty Lake
SMP	soil management plan
SSAP	site-specific sampling and analysis plan
TCLP	toxicity characteristic leaching procedure
TEE	terrestrial ecological evaluation
TEQ	toxicity equivalent
TSD	treatment, storage, and disposal
USC	U.S. Code
WAC	Washington Administrative Code
WISHA	Washington Industrial Safety and Health Administration

1 INTRODUCTION

This public review draft cleanup action plan (dCAP) presents the proposed cleanup action for the off-property portion (OPP) of the Pacific Wood Treating Co. (PWT) site (the site) in Ridgefield, Washington (see Figure 1-1). The OPP is adjacent to the Port of Ridgefield's (the Port) waterfront property, formerly known as the Lake River Industrial Site (LRIS). PWT operated a wood-treating facility at the LRIS from 1964 to 1993. These operations resulted in the release of hazardous chemicals, including chlorinated dibenzo-p-dioxins and dibenzofurans (referred to in this dCAP as dioxins). A remedial investigation and feasibility study (RI/FS) determined that dioxins were present in public rights-of-way (ROWs) and residential yards in the OPP at levels exceeding the Model Toxics Control Act (MTCA) Method B cleanup level (CUL) for the dioxin toxicity equivalent (TEQ) of 13 nanograms per kilogram (ng/kg) (MFA, 2013, 2024).

This dCAP was prepared under the authority of Agreed Order No. DE 11057 (the Order) between the Port and the Washington State Department of Ecology (Ecology). This dCAP was prepared pursuant to the authority of Chapter 70.105D.050(1) of the Revised Code of Washington (RCW) and the requirements of the Washington State MTCA cleanup regulation, as established in Chapter 173-340-380 of the Washington Administrative Code (WAC 173-340). This dCAP provides an overview of the PWT site history and environmental conditions associated with the OPP, summarizes the cleanup action alternatives considered, and presents the proposed cleanup action for media containing concentrations of indicator hazardous substances (IHSs) that exceed relevant CULs. The cleanup action decision is based on the OPP RI/FS report (MFA, 2024) and other relevant documents in the administrative record.

1.1 Definition of Site and Off-Property Portion

The site, located at and near 111 West Division Street in Ridgefield, Washington (see Figure 1-1), is defined by the extent of contamination caused by the release of hazardous substances from the former PWT operations. The site constitutes a "Facility" under RCW 70A.305.020(8). It includes those portions of the LRIS, Port-owned properties, Carty Lake, Lake River, and OPP that were impacted by former PWT operations.

The OPP consists of the Phase 1, Phase 2, and Phase 3 OPP areas (see Figure 1-2). The Phase 1 OPP is the initial area where ROWs and properties are identified in the Order as requiring RI. The Phase 2 and Phase 3 OPP are areas where RI of ROWs and properties was required by Ecology, based on the RI activities. The OPP boundary therefore defines the investigation area in which both ROWs and properties have been evaluated to determine whether PWT-related contamination is present. For purposes of this dCAP, a "property" is defined to include residential properties (which make up most of the OPP) as well as several mixed-use and park/open-space properties.

1.2 Declaration

The remedies selected will be protective of both human health and the environment, including likely vulnerable populations and overburdened communities. They are consistent with the State of Washington's preference for permanent solutions to the maximum extent practicable and include adequate action to ensure their effectiveness.

1.3 Applicability

CULs specified in this dCAP are applicable only to the OPP. These criteria were developed as part of an overall remediation process under Ecology oversight and the authority of MTCA and should therefore not be considered as setting precedents for other sites.

1.4 Administrative Record

The documents used to make the decisions discussed in this dCAP are on file in the administrative record for the OPP and are listed in the reference section. Multiple investigations have previously characterized the impacts associated with historical PWT operations. These investigations provide background information pertinent to this dCAP. The OPP RI/FS captures the most recent understanding of the site and summarizes the results of environmental investigations conducted at the site since 1985 (MFA, 2024).

1.5 Cleanup Process

Cleanup conducted under the MTCA process requires the preparation of specific documents. Key documents and references to the applicable MTCA section requiring their completion are listed below, with descriptions of each task. Some project documents have been completed, and others will be developed as deliverables required under this dCAP. All documents referenced here were, or will be, prepared by the Port or Ecology. The schedule for submittal of documents is provided in Section 6.

- The RI/FS report documents the investigations and evaluations conducted at the OPP from the discovery phase to understanding the full extent of contamination and the issuance of the report. The RI collects and presents information on the nature and extent of, and the risks posed by, the contamination. The FS subsequently presents and evaluates cleanup alternatives (WAC 173-340-350 and 173-340-351).
- The CAP sets CULs and standards for the OPP and identifies the selected cleanup actions intended to achieve CULs (WAC 173-340-380). The CAP is issued by Ecology, and allows for public participation and opportunity for comment, as required by WAC 173-340-600.
- The Engineering Design Report outlines details of the selected cleanup action, including any engineered systems and design components from the CAP. Engineering Design Reports were completed for the OPP under interim actions. Engineering Design Reports yet to be completed will be prepared by the Port or Ecology. Public comment is optional (WAC 173-340-400).

- The Operation and Maintenance Plan(s) summarizes requirements for inspection and maintenance of cleanup actions. It includes actions required to operate and maintain equipment, structures, and other remedial systems. Compliance monitoring plans are an element of the Operation and Maintenance Plan and provide details on monitoring activities (if required) to ensure that cleanup actions are performing as intended (WAC 173-340-400). A comprehensive operation and maintenance plan for the PWT site was prepared by the Port and approved by Ecology.
- The Cleanup Action Report is completed following implementation of the cleanup action(s) and provides details on the cleanup activities, along with documentation of adherence to or variance from goals set out in the CAP. The document is to be prepared by the Port or Ecology (WAC 173-340-400).

2 SITE CONDITIONS

2.1 Site Description and History

PWT leased the approximately 40-acre LRIS from approximately 1964 to 1993. PWT's operations involved pressure-treating wood products with oil-based treatment solutions containing creosote; pentachlorophenol; and water-based mixtures of copper, chromium, arsenic, and/or zinc. Potential release and transport mechanisms for these hazardous substances are described in the 2013 site RI/FS report (MFA, 2013). PWT filed for bankruptcy in 1993 and abandoned the LRIS. The Port manages the waterfront property. Multiple upland and in-water cleanup actions have been completed, as shown in Figure 2-1.

The OPP is located in section 24, township 4 north, range 1 west, Willamette Meridian. The Phase 1 OPP includes 49 tax lots and associated ROWs. The Phase 2 OPP includes 59 tax lots and associated ROWs. The Phase 3 OPP includes 15 tax lots and associated ROWs. The OPP is zoned mostly low-density residential, and a few tax lots are zoned parks/open space or central mixed use. The land use is not expected to change. In the OPP vicinity, nonresidential zoning designations (waterfront-mixed use) apply to the Burlington Northern Santa Fe (BNSF) railroad tracks, the Port-owned Railroad Avenue properties, and the Port-owned waterfront property to the west (see Figure 2-2). There is substantial development in the OPP, with minimal viable ecological habitat.

2.1.1 Topography

The OPP is relatively flat, with a slight downward slope from east to west. The elevation ranges from approximately 90 feet National Geodetic Vertical Datum of 1929/1947 (NGVD) in the east to approximately 50 feet NGVD at the western extent.

2.1.2 Area Geology

Four principal geologic units have been identified at the nearby waterfront property (MFA, 2013): fill, younger alluvium, older alluvium, and the upper Troutdale Formation. The younger alluvium (clayey silts, sandy silts, and sands) appears to be thicker to the west near Lake River, and the older alluvium (sandy gravel) appears to be thicker to the east. A silty gravel unit observed beneath the alluvium forms an aquitard and may represent the top of the Troutdale Formation. Note that the waterfront property is west of the OPP and is approximately 10 to 70 feet lower in elevation.

OPP soils are classified as Hillsboro silt loam and are well-drained. Soil samples collected at properties during the course of RI activities generally indicate a sand with silt layer from approximately 0 to 1 foot below ground surface (bgs). In ROWs, sand with silt or gravel with sand/silt is present from approximately 0 to 2 feet bgs. Six soil borings, from 0 to 10 feet bgs, were drilled in ROWs in September 2012. The borings generally indicate gravel with sand fill layer or gravel with silt from approximately 0 to 1 foot bgs, sand and/or silts from approximately 1 to 8 feet bgs, and sand from approximately 8 to 10 feet bgs (MFA, 2013).

Groundwater in the vicinity of the OPP is not used for drinking. The drinking water supply in the OPP neighborhood is provided by the City. That water source is from a well field located approximately 2,000 feet (0.4 mile) east of the OPP in Abrams Park (i.e., Well ID APP678). Based on the Clark County Maps Online database, no domestic drinking water wells were identified in the OPP. While the OPP is located at the northwest edge of the 10 year time of travel for Well ID APP678, the groundwater flow direction mimics topography and flows to the west/northwest toward Lake River, away from the drinking water supply well. The closest domestic drinking water wells belong to the City. Mr. Steven Wall, PE, the City's former public works director, stated that, in the future, water wells will not be installed west of Abrams Park, in the direction of the OPP (Wall, 2006). If additional water needs arise, beyond the installation of additional wells at Abrams Park and/or the I-5 junction, the City will install wells east of I-5.

2.1.3 Climate

Climate information is provided to help inform characteristics which could affect the migration of hazardous substances or the resilience of cleanup action alternatives. According to the Fourth National Climate Assessment, climate trends for the northwest region of the U.S. include: increased temperatures during all seasons under all future scenarios; decreased snowpack; increased wildfires and insect infestations; decreased rainfall and water availability during the dry season; increased flooding during the wet season; a rising sea level; increased storm surge events; more frequent heat waves; and increased risk of landslide and erosion. The OPP is located in an area with predicted increased drought, higher extreme heat, increased frequent heavy magnitude precipitation events resulting in increased streamflow volumes, and increased high fire danger days. Other climate change impacts are not as likely to significantly affect the OPP.

2.2 Environmental Conditions

Multiple investigations have been conducted since 1985 to characterize contamination associated with former PWT operations; these investigations are summarized in the site RI/FS (MFA, 2013). Previous investigations conducted on the OPP demonstrated that the only potential hazardous substances in the OPP were dioxins, and that the presence of dioxins required evaluation of potential risk to human health. No unacceptable risk to ecological receptors is expected.

The OPP RI/FS provides detailed summaries of the RI and previous investigation results, and should be referenced for detailed information regarding the nature and extent of contaminants and risk associated with those contaminants (MFA, 2024).

2.2.1 Soil

Soil characterization on the OPP began in 2010. Results are summarized in the OPP RI/FS (MFA, 2024). Dioxins were identified as IHSs for the OPP. An interim action has been conducted to address these impacts in the Phase 1 OPP and is considered the final cleanup action for that area. The lateral extent of dioxin contamination in the Phase 2 and 3 OPP has been bounded. Soils to the west of the OPP in the LRIS have been remedied as part of previous cleanup actions. Soil concentrations decrease to below the CUL near the eastern OPP boundary. To the south, site concentrations are also below the CUL. The vertical extent of dioxin contamination is bounded, is generally limited to 2 foot bgs or less. The subsurface concentrations are typically much lower than corresponding surface concentrations, reflecting the limited mobility of dioxins.

2.2.2 Groundwater

The hydrophobicity of dioxins, combined with low vapor pressure and low water solubility, further indicates that leaching to subsurface soil and groundwater is typically insignificant in the absence of mechanical disturbance or organic solvents. Similarly, dioxins have little potential for volatilizing from soil (ATSDR, 1998; U.S. Environmental Protection Agency [EPA], 2003). Drinking water is provided by the City, i.e., municipal water supply. Additionally, groundwater in the vicinity of the OPP flows to the west/northwest away from the municipal water supply well. Given these factors, groundwater was not evaluated or considered a threat to human health or the environment at the OPP.

2.3 Conceptual Site Model

The conceptual site model (CSM) describes the physical and chemical conditions on the OPP as described in the RI/FS (MFA, 2024). The primary purpose of the CSM is to describe pathways by which human and ecological receptors may be exposed to site-related chemicals in the environment. According to EPA, a complete exposure pathway consists of four necessary elements: (1) a source and mechanism of chemical release to the environment; (2) an environmental transport medium for a released chemical; (3) a point of potential contact with the impacted medium (referred to as the exposure point); and (4) an exposure route (e.g., incidental sediment ingestion) at the exposure point (EPA, 1989). A brief summary of the key elements of the CSM is provided below.

2.3.1 Sources and Transport

Suspected historical sources of soil impacts include wood-treating chemicals and other substances that were used as part of wood-treating operations during PWT activities from 1964 to 1993. Neither the specific operational activities leading to dioxin formation nor the proximate source(s) have been established. Note that dioxins can also result from anthropogenic combustion sources, which include vehicle/railway emissions, backyard trash burning, structure fires, and burning vegetation treated with chlorinated pesticides (EPA, 2006).

Dioxins are stable compounds and are highly resistant to most environmental degradation processes. Because of their low vapor pressure and low solubility, dioxins will typically be bound to organic matter found in surface soil. Particulates deposited on soils may be reentrained by soil erosion (wind or water) or tracked by vehicles and transported to other areas. Because of their lack of mobility, dioxins are most often found in the upper several centimeters of soil, and the higher the organic carbon content in soil, the less mobile the compounds will be. Dioxins may deposit on vegetation; however, dioxins in soil are not likely to be taken up by plant roots and translocated to the plant shoots because they are hydrophobic and bind strongly to soil. The hydrophobicity of dioxins, combined with low vapor pressure and low water solubility, further indicates that leaching to subsurface soil and groundwater is typically insignificant in the absence of mechanical disturbance or organic solvents. Similarly, dioxins have little potential for volatilizing from soil (ATSDR, 1998; EPA, 2003).

Primary suspected transport mechanisms that may have impacted the OPP include vehicle tracking, wind transport and deposition, and secondary dispersion (e.g., stormwater) to soils. Historically, trucks transporting treated lumber left the LRIS driving southeast through the OPP, using primarily Division Street, 3rd Avenue (and possibly Main Street), and finally Pioneer Street (see Figure 2-2 for street locations). Reportedly, while completing a Vietnam-era contract with the U.S. Department of Defense, trucks left the LRIS with wood still dripping treatment chemicals. Soil vehicle tracking also likely occurred at that time. The area near Pioneer Street includes commercial buildings and is predominantly paved, such that soil impacts are not expected in this neighborhood.

Wind transport of particulates from the LRIS toward the OPP is another suspected transport mechanism. Wind transport likely would have occurred primarily in the driest months of the year (June through September). Available wind data (from 1978 to 2016) were obtained from the National Oceanic and Atmospheric Administration National Climatic Data Center for the Scappoose Airport, 6 miles west of the site. Approximately 49 percent of the time, wind direction was classified as “calm” or “variable.” When a significant wind speed was observed, wind with a north/northwest/west component was predominant (43 percent of the time). The wind direction provided in the database is the direction from which the wind originates. Therefore, wind blows predominately from the northwest toward the south to southeast to east (i.e., from the LRIS toward the OPP). Near the eastern Phase 2 boundary (between 4th Avenue and 5th Avenue), surface elevations increase by approximately 20 to 30 feet. Any surface deposition that potentially affected this area (e.g., via vehicle tracking or wind) would migrate back to the west if soil particulates were transported in stormwater. Based on the above fate and transport considerations, PWT-related impacts associated with this secondary transport mechanism are expected to decrease with distance from the LRIS and are not expected outside the OPP.

2.3.2 Exposure Scenarios

Potential human receptors include residents/park users (adults and children) and workers (e.g., construction). Potential soil exposure pathways include direct contact (incidental soil ingestion, dermal contact, or inhalation) and secondary ingestion (consumption of chemicals in or on produce). Incidental ingestion of soils may occur during activities (e.g., playing in yards, gardening, yard improvement projects [digging]) followed by hand-to-mouth contact. Children may ingest significantly more soils than adults because of more frequent hand-to-mouth contact and/or more time spent in close proximity to soils (EPA, 2011). Dermal contact with dioxins in soil is considered an insignificant exposure pathway relative to incidental soil ingestion, and the inhalation pathway for dioxins in soil is insignificant relative to the ingestion/dermal-contact pathways. Transfer of dioxins in soil to homegrown vegetables and other plants is also considered an insignificant exposure pathway. The low vapor pressure of dioxins prevents any substantial vapor flux from contaminated (and often long-weathered) soils, and suspension of local soils, with subsequent deposition on plants, is expected to be nominal for dioxins because of normal washing, processing, and/or cooking of vegetables (Paustenbach et al., 2006). These findings support limited potential exposure to dioxins in soil from the dermal-contact, inhalation, and produce-consumption pathways. Incidental ingestion is considered a potentially complete exposure pathway.

Human receptors are unlikely to have direct exposure to groundwater. Based on the discussion provided in Section 2.1.2, groundwater is not used for drinking, and given the availability, reliability, and relatively low cost of municipal water, it is unlikely that water-supply wells will be developed at or near the OPP in the foreseeable future (see Section 2.1.2). Furthermore, dioxins do not readily leach to groundwater, and the associated exposure pathway is considered incomplete. Similarly, dioxins do not readily migrate to subsurface soils or volatilize to air, and the associated exposure pathways are considered insignificant.

Potential exposure of likely vulnerable populations and overburdened communities was also considered for the CSM and cleanup action development (WAC 173-340-380(5)(c)). Ridgefield is not considered an “economically disadvantaged,” city, town, or unincorporated portion of the county as defined in WAC 173-322A-100(15) and (16). According to the Washington State Department of Health, Ridgefield ranks low to moderate for all assessed environmental health disparity categories, where a rank of 1 corresponds to low (minimal impacts) and 10 to high (significant impacts): environmental exposures (rank of 5); environmental effects (rank of 4); socioeconomic factors (rank of 1); and sensitive populations (rank of 1) (MFA, 2024). Based on the cleanup goal of eliminating potential for human contaminated soil exposure, disproportionate impacts to likely vulnerable populations and overburdened communities are unlikely to occur.

The potential for adverse effects to ecological receptors was assessed in the RI work plan (based on the terrestrial ecological evaluation [TEE] completed in 2012), and no unacceptable risks to ecological receptors are expected (MFA, 2015). The ecological receptor pathways are therefore incomplete.

3 CLEANUP REQUIREMENTS

MTCA requires that cleanup actions comply with the following minimum regulatory requirements (WAC 173-340-360):

Protect human health and the environment—Cleanup actions that achieve CULs at the applicable point of compliance (POC) and comply with applicable laws are presumed to be protective of human health and the environment, as well as likely vulnerable populations and overburdened communities.

Comply with cleanup standards and applicable state and federal laws—The primary components of cleanup standards are CULs, RELs, and POCs (see WAC 173-340-700 through 760). CULs determine the concentration at which a substance does not threaten human health or the environment. All material that exceeds a CUL is addressed through a remedy that prevents exposure to the material. A REL defines a medium-specific hazardous substance concentration above or below which a particular cleanup action component will be used. RELs, by definition, exceed CULs. POCs represent the locations on the OPP where CULs must be met. Applicable or relevant and appropriate requirements based on federal and state laws are provided in WAC 173-340-710.

Provide for compliance monitoring—Each cleanup action must include plans for compliance monitoring to ensure that human health and the environment are protected during construction, operation, and maintenance activities; to confirm that the actions have attained cleanup standards, RELs, and other performance standards; and to confirm the long-term effectiveness of the action once cleanup standards, RELs, and other performance standards have been attained (see WAC 173-340-410 and 173-340-720 through 760).

The final cleanup standards are presented below by OPP areas and their associated media. Applicable federal, state, and local laws are presented in Section 3.2.

3.1 Cleanup Levels and Points of Compliance

CULs developed for the OPP are described in the RI/FS (MFA, 2024). CULs were developed consistent with MTCA to be protective of human health. The potential for adverse effects to ecological receptors was assessed in the RI work plan (based on the TEE completed in 2012), and no unacceptable risks to ecological receptors are expected (MFA, 2015). CULs and their respective POCs are summarized below. A summary of OPP concentrations for all media relative to selected CULs is provided in Appendix A.

Dioxins were identified as an IHS for the OPP. Potential exposure scenarios were evaluated and the incidental ingestion/inhalation pathway (soil and dust particles) is considered potentially complete for residents, park users, and workers. The Method B CUL of 13 ng/kg for 2,3,7,8-tetrachloro dibenzo-p-dioxin is protective of persons ingesting dioxins in soil and dust particles and is selected as the soil CUL for comparison with dioxin TEQs.

The dioxin TEQ concentration at Davis Park south (property 062) (13.6 ng/kg) marginally exceeds the CUL of 13 ng/kg. However, this corresponds with an estimated excess cancer risk level that does not exceed 1 in 1 million to one significant figure (1×10^{-6}), based on the residential-use exposure assumptions. In addition, the cancer risk level (1×10^{-6}) is less than the acceptable level for total cumulative risk of 1 in 100,000 (1×10^{-5}), based on presence of the single chemical (dioxins). Dioxin concentrations at Davis Park therefore do not exceed acceptable risk levels based on protection of both residential and park uses. Unacceptable risks to park users are therefore not expected. Because of this, no remedial action is required at Davis Park.

The CUL for dioxins is provided in Table 3-1. The POC for human exposure via direct contact is 0 to 15 feet bgs for soil throughout the OPP (WAC 173-340-740 (6)(d)).

3.2 Applicable Federal, State, and Local Laws

In addition to the cleanup standards developed through MTCA, applicable laws and regulations must be considered in the selection and implementation of the cleanup action. MTCA requires the cleanup standards to be “at least as stringent as all applicable state and federal laws” (WAC 173-340-700(6)(a)). Besides establishing requirements for cleanup standards, applicable state and federal laws may impose procedural (permitting) requirements for performing cleanup actions (WAC 173-340-710). In other cases, the cleanup actions must comply with the substantive requirements of the law but are exempt from the procedural requirements of the law (RCW 70.105D.090; WAC 173-340-710(9)).

For remedial actions conducted under a consent decree, order, or agreed order, MTCA provides an exemption from the procedural requirements of RCW 70.94 (Air), 70.95 (Solid Waste), 70.105 (Hazardous Waste), 75.20 (Hydraulic Permit), 90.48 (Water Quality), and 90.58 (Shorelands), and the procedural requirements of any laws requiring or authorizing local government permits or approvals (RCW 70.105D.090). Given the Port’s existing agreed order with Ecology (the Order), the cleanup actions meet the permit exemption provisions of MTCA, obviating compliance with procedural requirements of the various local and state regulations that would otherwise apply. Ecology is required to ensure compliance with the substantive provisions of RCW 70.94, 70.95, 70.105, 75.20, 90.48, and 90.58, and the substantive provisions of laws requiring or authorizing local government permits or approvals. Ecology makes the final decision regarding which substantive provisions are applicable.

Persons conducting remedial actions have a continuing obligation to determine whether additional permits or approvals are required, or whether substantive requirements for permits or approvals must be met. In the event that either the Port or Ecology becomes aware of additional permits or approvals or substantive requirements that apply to the remedial action, they shall promptly notify the other party of this knowledge (WAC 173-340-710(9)(e)).

Interim actions were conducted on the Phase 1 OPP in accordance with the Order. Applicable laws and associated procedural and substantive requirements were met (MFA, 2024).

Applicable local, state, and federal laws are evaluated in the OPP RI/FS; those relevant to remedial actions to be conducted on the OPP are summarized below, and have been developed to ensure conformance with the substantive provisions of these laws, regulations, and rules (MFA, 2024).

3.2.1 Applicable Federal Laws

Clean Water Act—The Federal Water Pollution Control Act (FWPCA) Amendments of 1972, commonly referred to as the Clean Water Act (CWA), set forth a number of provisions that require the development of regulations to protect the nation's waters. Section 402 of the CWA requires the development of comprehensive programs for preventing, reducing, or eliminating pollution in the nation's waterways. National Pollutant Discharge Elimination System (NPDES) requirements are specified in Section 402. This program has been delegated to the State of Washington (see Section 3.2.2).

The objective of the CWA (33 U.S. Code [USC] 1251-1376 and 40 Code of Federal Regulations [CFR] 129 and 131) is to restore and maintain the chemical, physical, and biological integrity of the nation's waters. Sections 303 and 304 of the CWA require EPA to issue ambient surface water quality criteria for the protection of aquatic life and human health. The federal water quality criteria (FWQC), as specified in 40 CFR 131, are non-enforceable guidelines to be used by states to set water quality standards for surface water. FWQC, based on chronic and acute effects to aquatic life, have been developed for 120 priority toxic pollutants and 45 non-priority pollutants for marine waters and freshwater.

During construction, water will be directed through erosion- and sediment-control features to meet water quality standards. The OPP work should not cause releases of water to the surrounding waterways. Any water discharged to Carty Lake or Lake River will be required to meet the FWQC. The State of Washington has been delegated as the authority to implement the CWA and has rules and regulations corresponding to all of those stated in the CWA. Therefore, for the Port, any discharges to surface water will be managed under the state program.

Migratory Bird Treaty Act—The federal Migratory Bird Treaty Act (MBTA) of 1918 makes it unlawful to kill or harass migratory birds by any means unless permitted by regulations. Furthermore, the MBTA requires that identified ecosystems of special importance to migratory birds be protected against pollution, detrimental alterations, and other environmental degradations. Implementing the remedial action in conformance with MTCA will protect wildlife, including migratory birds. Consequently, no additional actions are needed to conform to the MBTA.

Safe Drinking Water Act—The Safe Drinking Water Act (SDWA) was initially passed by Congress in 1974 and then amended in 1986. The SDWA establishes maximum contaminant levels (MCLs) and maximum contaminant level goals (MCLGs) for the protection of the nation's public water systems. EPA has established MCLs in 40 CFR Part 141 as the maximum permissible concentrations of specific contaminants in water that is delivered to any user of a public water system. While non-enforceable, MCLGs represent the maximum level beyond which persons drinking the water may experience adverse effects.

Under the SDWA amendments, EPA is required, every three years, to develop a list of contaminants that must be regulated in the form of MCLs or MCLGs. Those regulations must be finalized within a year of their proposal. In addition, EPA identifies contaminants that are under consideration for listing as MCLs, as well as contaminants that are under consideration for modification of the MCL concentration.

The State of Washington has authorization from EPA to administer and enforce this act. Washington State-specific MCLs and MCLGs incorporate the federal standards by reference.

The OPP remedial action will have no effect on groundwater or any other water source used as drinking water.

National Pretreatment Standards for Discharges to a Publicly Owned Sewer System—In general, the discharge of wastewater to publicly owned treatment works is considered an off-site activity. Requirements of the National Pretreatment Program include general and specific discharge prohibitions (40 CFR 403). The remedial action does not include discharge to a publicly owned sewer system; therefore, this requirement is not applicable.

Natural Resources Damages—The Natural Resource Damage provisions of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the Oil Pollution Act of 1990, and the CWA allow natural-resource trustees to assess damages for losses arising from injury to public natural resources caused by the release of oil or hazardous substances. The 43 CFR 11.62 provides the definitions of injury to a natural resource, particularly the injury to surface-water resources, groundwater resources, air resources, geologic resources, and biological resources. The definition of injury either must be met or is likely to be met for natural resource damages to be included for a given facility or property.

Once natural resource damages have been established by federal, state, or Native American Tribe trustees, the responsible party must take actions to restore the damaged resource. These actions can take the form of cash payment to a trustee, or the responsible party can undertake its own restoration projects, or both. Consistent with MTCA, the remedial design will establish means and methods to ensure that the remedial action minimizes short-term risks during implementation. Consequently, natural resource damages caused by remedial action implementation will be avoided.

Solid Waste Disposal Act—The Solid Waste Disposal Act (42 USC 6921 Subtitle C) incorporated under the federal Resource Conservation and Recovery Act (RCRA, 40 CFR §§ 260 through 266) contains requirements for “cradle to grave” management of materials that meet the RCRA definition of hazardous waste. These requirements may apply to waste generated during a remedial action.

RCRA defines hazardous waste as either waste specifically listed in 40 CFR § 261 Subpart D or waste exhibiting one of four hazardous characteristics: ignitability, corrosivity, reactivity, or toxicity, as determined by the toxicity characteristic leaching procedure (TCLP). Requirements to determine whether waste being generated is hazardous, whether by sampling and analysis or by process knowledge, are listed in 40 CFR § 262.11. The source of the material at the site cannot be determined; therefore, under the guidelines provided by EPA, the dioxin-contaminated soil is not designated as hazardous waste, and this requirement is not applicable.

The Solid Waste Disposal Act (42 USC 6921 Subtitle C) incorporated under RCRA (40 CFR § 264) provides design standards for treatment, storage, and disposal (TSD) facilities. The TSD requirements for hazardous waste are normally associated with facilities applying for, or having received, a RCRA permit. No treatment of the material is associated with the remedial action. Material will be disposed off site at a Subtitle D landfill facility with an existing permit. This requirement is not applicable.

Land-Disposal Restrictions—Land-Disposal Restrictions (LDRs) for RCRA wastes characterized as toxic (40 CFR § 268) require that the waste be treated to specified concentrations before placement in a land-based unit. LDRs would apply to wastes removed from the site that exceed treatment standards for waste codes or that fail a TCLP analysis. No waste characterized as toxic under RCRA is known to be present on site; this requirement is not applicable.

U.S. Department of Transportation Hazardous Materials Regulations—The U.S. Department of Transportation has published regulations, including requirements regarding communications and emergency response, shipping, and packaging (40 CFR 171 through 180), that govern the transportation of hazardous materials to or from the site.

The provisions of 40 CFR § 263 establish minimum standards that apply to persons transporting hazardous waste by air or water. The remedial action does not involve the off-site transportation of hazardous waste; this requirement is not applicable.

National Ambient Air Quality Standards—EPA has established national ambient air quality standards (NAAQS) for a variety of potentially airborne substances known as criteria pollutants. NAAQS are all applicable or relevant and appropriate requirements for any conditions at a site that may result in emissions of any listed criteria pollutant to the air. Criteria pollutants include carbon monoxide, nitrogen dioxide, ozone, lead, particulates smaller than 10 micrometers, and sulfur dioxide. The selected remedial alternative involves soil handling and excavation. The air emissions generated by handling soil at the site are subject to applicable air-quality standards established to control or prevent the emission of air contaminants. Based on the contaminants present at the site, the applicable criteria pollutant would be particulate matter (dust).

Occupational Safety and Health Administration—Federal Occupational Safety and Health Administration (OSHA) regulations pertaining to hazardous waste sites are addressed under 29 CFR 1910.120, the Hazardous Waste Operations and Emergency Response Standard. This standard applies to cleanup and corrective actions, as well as to operations involving hazardous waste, that are conducted at a permitted TSD facility, unless the employer can demonstrate that the operations do not involve employee exposure or the reasonable possibility of employee exposure to safety or health hazards. All work will be performed under a site health and safety plan in conformance with applicable federal and state OSHA regulations.

Cultural Resources—The following federal laws and acts pertain to the protection of cultural resources: the Antiquities Act (1906) lays out penalties for the unauthorized excavation of archaeological sites and requires permits for excavations on federal lands; the 1966 National Historic Preservation Act (NHPA) requires federal agencies to address effects of their actions on significant cultural resources; the 1978 American Indian Religious Freedom Act requires federal agencies to consult with traditional religious leaders on potential impacts to rights and practices (42 USC 1996); the 1979 Archaeological Resources Protection Act (ARPA) establishes protections for archaeological resources on federal and Tribal lands; the 1990 Native American Graves Protection and Repatriation Act deals with the disposition of indigenous Tribal cultural items recovered on Tribal or federal lands; and 36 CFR 79 (Curation of Federally-Owned and Administered Archaeological Collections) was codified in 1990 to “establish definitions, standards, procedures and guidelines to be followed by Federal agencies to preserve collections of prehistoric and historic material remains, and associated

records...” as stipulated in the Antiquities Act, the Reservoir Salvage Act, NHPA, and ARPA (36 CFR 79.1). Applicable federal laws are further detailed in the OPP RI/FS (MFA, 2024).

Systematic archaeological surveys have been conducted to determine if archaeological resources are present at the OPP. No discoveries of archeological or historical resources were made during the Phase 1 interim action construction in 2016/2017. In January 2024, additional archaeological survey was conducted for the Phase 2 and 3 areas. Archaeologists identified one temporary isolate and recommended that the resource was not eligible for listing. It was recommended cleanup can proceed in the surveyed area as planned, and that no additional archaeological investigations are necessary prior to the start of project activities; that an inadvertent discovery plan be developed and kept on site at all times during ground-disturbing work and that the contractor receive inadvertent discovery plan training; and that should unanticipated archaeological or historical resources be encountered during project activities, all ground-disturbing activity in the vicinity of the find should be halted and the Washington State Department of Archaeology and Historic Preservation should be notified immediately (MFA, 2024). The remedial action will be conducted consistent with a cultural resource monitoring and inadvertent discovery plan to address any archaeological discoveries made during the proposed action.

3.2.2 Applicable State Laws

Model Toxics Control Act—MTCA governs the investigation and cleanup of contaminated sites in Washington (Chapter 70.105D RCW). A contaminant is defined by MTCA 173-340-200 as any hazardous substance that does not occur naturally or that occurs at concentrations greater than natural levels. MTCA contains provisions controlling site cleanup activities, including site discovery, priority, listing, investigation, and cleanup; liability provisions; administrative options for remedial actions, payment of costs, and funding; public participation; cleanup standards; and other general provisions. The law regulates the cleanup of sites contaminated with CERCLA hazardous substances, all state and federal RCRA hazardous and dangerous wastes, and petroleum products. All elements of the remedial design and remedial action will comply with MTCA.

Water Quality Standards—In Washington, water quality standards for surface waters of the state are promulgated under Chapter 173-201A WAC. The purpose of this chapter is to establish water quality standards for surface waters of Washington State that are consistent with public health and related public enjoyment, and with the propagation and protection of fish, shellfish, and wildlife, pursuant to the provisions of Chapter 90.48 RCW. The criteria listed in Chapter 173-201A WAC for surface water quality provide protective numbers for both freshwater and marine aquatic life regarding both acute and chronic exposure to toxic substances.

Water quality standards for groundwater are also promulgated under Chapter 173-200 WAC. This chapter implements the FWPCA and Chapters 90.48 and 90.54 of the RCW, as well as the federal Water Resources Act of 1971. Chapter 173-200 WAC applies to all groundwaters of the state that occur in a saturated zone, in a stratum beneath the land surface, or below a surface-water body. The water quality standards listed in Chapter 173-200 WAC apply to cleanup actions conducted under MTCA that involve potable groundwater. No water will be generated during construction. Stormwater

will be directed through erosion- and sediment-control best management practices to meet the water quality standards. In addition, state water quality standards are considered screening criteria.

Washington Dangerous Waste Regulations—Washington regulations identify RCRA F-listed and K-listed waste as dangerous waste (WAC 173-303-9904). Designated dangerous waste may be treated, stored, or disposed of at a permitted TSD facility. Material generated on site will not be considered dangerous waste; this requirement is not applicable.

National Pollutant Discharge Elimination System—Chapter 173-220 WAC establishes a state permit program, applicable to the discharge of pollutants and other wastes and materials to the surface waters of the state, operating under state law as part of the NPDES created by Section 402 of the FWPCA. Permits issued under this chapter are intended to satisfy the requirements for discharge permits issued under both Section 402(b) of the FWPCA and Chapter 90.48 RCW.

NPDES construction stormwater permits are required for construction sites of 1 acre or larger. The selected remedial action alternative will have a construction footprint larger than one acre. As the NPDES program is a federal program administered by the state, the MTCA exemption for state and local permits does not apply. The project will obtain coverage for the proposed work under the state's NPDES construction stormwater general permit. As the project involves the disturbance of soil with known contamination, the notice of intent for coverage under the NPDES general permit will include a description of this contamination.

Shoreline Management Act—The state Shoreline Management Act (Chapter 173-22 WAC) regulates any action within 200 feet of the ordinary high-water mark of a shoreline. Shorelines in towns and cities are regulated by shoreline master programs (Chapter 173-26 WAC) adopted by local municipalities. The proposed locations for remedial actions are outside the shoreline's jurisdiction; this requirement is not applicable.

Air Quality Standards—WAC 173-400, -460, and -470 establish provisions for general regulation of air pollution sources, ambient air quality standards, and acceptable levels for particulate matter, and stipulate requirements for new sources of toxic air pollutant emissions. These regulations may be applicable to cleanup actions at the site; for example, to control particulate emissions generated during soil excavation activities, or emissions resulting from air stripping or other groundwater treatment technologies. These standards are typically administered and enforced by the local clean air agency, which in this case would be the Southwest Clean Air Agency. Chapter 173-401 operating permits may be required for fugitive emissions from new sources. Emission standards for volatile organic compounds are set in Chapter 173-490. The remedial work includes soil handling. During soil excavation activities, it may be necessary to implement engineering controls such as soil wetting to control particulate emissions. Air testing may be required to show that emissions meet the substantive requirements of applicable air quality permits and rules. If results illustrate that substantive requirements have not been met, the design will require modification.

Noise Regulations—Maximum environmental noise levels have been determined and are contained in Chapter 173-60 WAC. Approved procedures for measurement of environmental noise are contained in Chapter 173-58 WAC. During design, expected noise levels will be estimated and compared to the limitations established in 173-60 WAC. The need to adjust the approach to meet

these requirements will be determined. For example, the noise level regulations may limit the hours of operation for some parts of the remedial action. Outfitting construction equipment with additional noise-minimizing equipment (larger or additional mufflers, etc.) may be required.

State Environmental Policy Act—The State of Washington administers and enforces a program equivalent to the federal National Environmental Policy Act. The State Environmental Policy Act (SEPA), contained in Chapter 43.21C RCW, provides the framework for agencies to consider the environmental consequences of a proposal before taking action. It also gives agencies the ability to condition or deny a proposal because of identified likely significant adverse impacts. The act is implemented through the SEPA Rules and Procedures, Chapters 197-11 and 173-802 WAC, respectively.

SEPA review is a comprehensive assessment of potential environmental, economic, and cultural impacts from a specific development project or a proposed policy, plan, or program. The SEPA review process requires the preparation of an environmental checklist, which may be achieved by review of the environmental impacts and proposal of mitigation measures. The completed checklist helps to identify potential environmental impacts associated with the proposed action. Following a threshold determination, the lead agency will issue either a Determination of Non-Significance that will allow the action or permitting process to continue, or a Determination of Significance that will require that an environmental impact statement (EIS) be prepared before agency action can be taken. Typically, one checklist or EIS is required for a project, although it may require modification or application of numerous permits by federal, state, or local agencies. SEPA review will be conducted for the project design. The Port or Ecology can act as the lead agency for SEPA review. The Port prepared a SEPA checklist in 2023 to be reviewed during Ecology's evaluation of the project design.

Cultural Resources—Under the Washington State Governor's Executive Order 05-05, archaeological and cultural resources must be evaluated to satisfy federal regulations 36 CFR 800. RCW 27.44 (Indian Graves and Records) addresses the need to protect graves, cairns, and glyptic marks, and includes associated penalties, civil actions, and procedures. RCW 27.5 (Archaeological Sites and Resources) lays out the State of Washington's interest in protecting archaeological resources and establishes and empowers the Washington State Department of Archaeological and Historic Preservation to complete an inventory and a study, make National Register of Historic Places nominations, and identify and excavate the "state's archeological resources" (RCW 27.53.020). WAC 25-48 establishes procedures for implementing the permit sections of RCW 27.53. WAC 25-46 establishes regulation procedures for historic archaeological resources on, in, or under aquatic lands owned by the state; RCW 79.105.600 deals with "archaeological activities" on state aquatic lands and addresses shoreline management (via RCW 79.105). RCW 42.56.300 exempts disclosure of the location of archaeological sites.

The remedial action will be conducted consistent with a cultural resource monitoring and inadvertent discovery plan to address any archaeological discoveries made during the proposed action (see Section 3.2.1 for additional details).

Washington Industrial Safety and Health Administration—Washington Industrial Safety and Health Administration (WISHA) regulations pertaining to hazardous waste sites are addressed under WAC 296-843, Hazardous Waste Operations. This standard applies to cleanup and corrective actions

at MTCA-regulated sites. All work will be performed under a site health and safety plan in conformance with the applicable WISHA regulations.

3.2.3 Applicable Local Laws

Shoreline Master Program—A cleanup action or “substantial development” conducted along any shoreline of statewide significance in the city is regulated under the Shoreline Master Program (Chapter 18.820 of the Ridgefield Municipal Code [RMC]). A Substantial Development Permit (SDP) is required for such an action. In 2012, the City adopted an updated Shoreline Master Program. The proposed locations for remedial actions are outside the shoreline jurisdiction.

City of Ridgefield Critical Areas Ordinance—The City Critical Areas Ordinance designates and regulates projects that may impact ecologically sensitive areas, including wetlands and fish and wildlife habitat conservation areas; and/or geophysical hazards such as geologically hazardous areas and frequently flooded areas (RMC 18.280.120). The OPP remedial action area is part of a category 2 critical aquifer recharge area. The OPP remedial action area is also identified as having a low to moderate liquefaction susceptibility, as indicated on the Alternative Liquefaction Susceptibility Map of Clark County, Washington. Relative to these items, the remedial design will meet the substantive requirements of the critical areas ordinance.

Street Tree Program—Work adjacent to street trees is regulated under Section 12.12 of the RMC. The RMC requires a permit for excavation within the drip line of any street tree and for the removal of any street tree. As a condition to the granting of a street tree permit, the director may require the applicant to relocate or replace trees. If a tree is interfering with the use of any utility that has been granted a franchise by the City, it is required that notice of removal and/or excavation within the dripline be given to the director, but a permit is not required. Removal and work within the drip line of street trees will meet the substantive requirements of the street tree program. Street trees will be protected during the proposed work; excavation near street trees will be conducted under the oversight of a certified arborist.

Street/Right-of-Way Excavation Permit—Excavations in the city ROWs are regulated under Section 12.15 of the RMC. An excavation permit is required for work that involves disturbing the surface of any street, alley, sidewalk, curb, drainage-way, or other structure in city ROWs. Standards for work in the city ROWs are described in the City Engineering Standards for Public Works Construction. Work in city ROWs will be completed consistent with the substantive requirements of the applicable sections of these standards.

4 SELECTED CLEANUP ACTIONS

The cleanup action for the OPP incorporates actions targeted to the residential areas (i.e., residential yards and ROWs). Cleanup actions were determined based on findings of the OPP RI/FS (MFA, 2024), and are described in the sections below.

4.1 Interim Action

An interim action was completed in 2016 and 2017 in the Phase 1 area of the OPP (see Figure 4-1). Soil on properties and adjacent ROWs that exceeded the dioxin CUL were remedied consistent with the IAWP (MFA, 2016a). The interim action objectives were to remove soil from residential properties and adjacent ROWs that exceeded the Model Toxics Control Act (MTCA) Method B CUL for the dioxin toxicity equivalent of 13 nanograms per kilogram. The completed interim action removed contaminated soil and was technically necessary to reduce threats to human health and the environment (MFA, 2024).

Prior to interim action, all required agency approvals and permits were acquired. A robust, project-specific construction quality assurance program was implemented during construction to verify that the work was constructed to the performance standards detailed in the construction drawings and described in the technical specifications, which, in turn, fulfilled the requirements of the interim action prescribed. This included: construction submittals, meetings, daily reports, construction surveying, and import material testing. Public communications included pre-cleanup outreach with affected homeowners, restoration design outreach with homeowners, and general public outreach in coordination with Ecology including signage and flyers with general information about the remedial actions being conducted, with Ecology and MFA contact information for interest or questions about the program. A cultural resource contractor conducted shovel probes and determined that no archaeological resources were present in properties surveyed prior to construction begin. The contractor prepared an inadvertent discovery plan, which was implemented during the construction. No discoveries of archeological or historical resources were made during interim action construction.

The construction was divided into two phases: remediation and restoration. Remediation activities consisted of site preparation including topographical survey to document existing topographic conditions and site features; a site walk-through; structural survey to document the building conditions; and targeted removal of fences and stumps for access. The construction contractor submitted a temporary erosion control plan and provided a certified erosion and sediment control lead for the duration of the project. This included a minimum of weekly inspections and submitted monthly discharge monitoring reports to Ecology to comply with the reporting requirements of the permit.

The excavation of contaminated soil during 2016 began on July 20 and continued through September 30. Excavation continued at the remaining properties and ROWs in June 2017 and was completed by September 2017. The base of each excavation was surveyed to verify that the required excavation depth had been met. To the extent possible, excavated soil was loaded directly into trucks and trailers (truck and pup) and hauled off site for disposal. Plastic sheeting was placed under trucks and trailers during loading activities to minimize the tracking of contaminated material onto roadway surfaces. In accordance with an Ecology-approved waste determination memorandum, excavated soil was transported to Wasco County Landfill in The Dalles, Oregon (a Subtitle D landfill facility) for disposal. Trucks hauling excavated soil were tarped to minimize loss of material during transport. A total of 7,728 tons (5,038 in 2016 and 2,690 in 2017) of contaminated soil and associated debris (i.e., vegetation and demolition debris) was hauled off site and disposed of.

Restoration activities included clean fill (soil) placement and landscaping to a condition equal to or better than prior to disturbance. Clean backfill materials included clean topsoil and driveway gravel (crushed surface base course). The backfill material was placed to the design grade, using front-end loaders, skid steers, and hand tools. Survey measurements, provided in electronic format to MFA, ensured adequate backfill quantity and appropriate drainage. In some cases, field alterations were made in order to accommodate a homeowner's request or conditions that had changed since the design was finalized.

MFA provided restoration design to the properties on an individual basis. Restoration plans were completed by a landscape architect and approved by the homeowner prior to construction. Homeowners were provided with two options for landscape restoration: (1) restore with lawn and mulched bed(s), or (2) restore with the same or in-kind landscaping that was to be removed. Ground covers, shrubs, and trees were installed in accordance with the contract drawings to the extent possible. During construction, when daytime temperatures were too hot for effective transplanting, shrubs and trees originally identified for transplant in the contract drawings were either protected in place or replaced in kind. Lawn warranties were extended until either September 30 or for 30 days (whichever would come later) after installation. Lawn maintenance included watering and mowing as needed. Owners were instructed to keep people and pets off the lawns during the maintenance period or risk voiding the lawn warranty. Lawn maintenance became the responsibility of the homeowner after the 30-day maintenance period. After restoration, a final walkthrough was conducted with each homeowner to clarify that lawn and plant care was the responsibility of the homeowner following the end of the 30-day maintenance period. In some cases, it was determined that additional work (e.g., patching sod) was necessary; the work was subsequently completed by the contractor. Homeowners were given yard maintenance flyers listing lawn and plant care tips and suggested fertilizing and maintenance activities. Homeowners signed a close-out agreement documenting that all work and maintenance on the property had been completed (or would be completed) and that the homeowner was responsible for yard maintenance.

Post-construction inspection of all existing building foundations and structures assessed during the pre-construction survey at each property was conducted to ensure that foundations and structures had not been damaged during remediation and restoration activities.

Restoration of ROWs was designed to match pre-remediation conditions. In most cases, hydroseed was placed in locations where the ROW had been remediated. At driveways and other areas where gravel had been present before remediation, coarse gravel was placed between the street and the property to provide access and parking. No catch basins, utilities, or appurtenances were installed in the ROW during restoration; existing utility features were preserved.

In total, 29 properties and associated ROWs were remedied (MFA, 2024).

4.2 Cleanup Action

The selected cleanup for residential areas (properties and ROWs) not addressed as part of the interim action is removal and restoration. Soil in residential areas (yards and ROWs) with dioxin concentrations exceeding the CUL will be removed and areas will be restored (see OPP RI/FS [MFA, 2024]).

The recommended cleanup action components are summarized below:

- Excavation of soil with dioxin concentrations exceeding 13 ng/kg TEQ in residential areas. The vertical extents of excavation will be further refined during design.
- Soil around large trees to remain will be excavated under the oversight of a certified arborist to preserve the trees.
- Clean fill material will be imported and placed to restore residential yards and ROWs.
- Excavated material will be disposed of as nonhazardous material waste at a Subtitle D landfill facility. The excavated material will not be designated as either a RCRA-listed hazardous waste or a RCRA characteristic waste (see further detail in the OPP RI/FS [MFA, 2024]).
- Fencing which requires removal for construction and smaller vegetation will be restored.
- ROW features (pathways, signage, etc.) removed or disturbed during construction will be restored.

The interim action was completed consistent with the selected cleanup actions described above.

4.3 Types, Levels, and Amounts of Contamination Remaining

A summary of soil analytical results compared with CULs for the OPP is provided in Appendix A, Tables A-1 through A-3. Figure 4-1 shows the sample locations and Figure 4-2 shows remaining areas in the OPP with exceedances of CULs still requiring cleanup.

5 ALTERNATIVES CONSIDERED AND BASIS FOR REMEDY SELECTION—RESIDENTIAL AREAS

5.1 Cleanup Technologies

Consistent with WAC 173-340-351, individual cleanup action components (technologies) were reviewed and screened to identify applicable methods for remediating the soils. A preliminary screening of applicable, commonly used remediation methods was completed (including technologies discussed in the Federal Remediation Technologies Roundtable screening matrix [FRTR, 2008]). Effectiveness and implementability of the technologies were assessed for the dioxin contamination in soil on residential properties and ROWs (residential areas), resulting in a single appropriate technology—removal and restoration. This was discussed with and agreed to by Ecology at a meeting on July 29, 2015.

5.2 Feasibility Study Alternatives

Remedial alternatives were developed using the individual cleanup technologies retained from the technology screening process, taking into account applicable MTCA requirements for cleanup actions (WAC 173-340-360(3)). Ecology's expectations for the development of alternatives and the selection of cleanup actions were also considered (WAC 173-340-370).

Remedial alternatives were previously evaluated for the Phase 1 interim action consistent with FS procedures provided in WAC 173-340-350 and WAC 173-340-355 (MFA, 2016). The selected cleanup alternative for the interim action is consistent with the selected alternative identified in this dCAP. Final cleanup was conducted in 2016–2017 (see Section 4.1) consistent with WAC 173-340-360 requirements. Cleanup has not been completed at the Phase 2 and 3 OPP areas (see Figure 4-2).

The following section provides summary of the FS alternatives evaluated for areas not addressed as part of the interim action (MFA, 2024).

5.2.1 Residential Areas

A single appropriate technology—removal and restoration—was readily identified for residential areas in the OPP. A No Action alternative was not evaluated because the soil CUL exceedances would remain and clearly does not meet the requirements for a cleanup action in WAC 173-340-360.

The primary components of the alternative are:

- Predesign sampling to refine vertical cleanup extent
- Removal of soil to the CUL in properties and ROWs
- Restoration of property and ROW landscaping

A site-specific sampling and analysis plan (SSAP), defining sampling locations and depth of samples to supplement existing sampling data, has been prepared. Sampling has defined the vertical extent at all yards except one, where additional sampling is ongoing. Additional vertical extent sampling will be necessary for some ROWs. The sample results will inform the vertical extent of the proposed soil removal.

Removed soil would be replaced with clean soil or, in the case of ROWs, soil or clean gravel consistent with existing conditions. Excavated soil would be transported by truck and disposed of as nonhazardous material at a Subtitle D landfill facility. Landscaping would be restored.

5.3 Rationale for Selecting Proposed Alternative

This section describes the rationale by which the preferred cleanup action alternative for the OPP was selected. The selected cleanup action meets the general requirements pursuant to WAC 173-340-360(3)(a), which are described in section 5.3.1. In addition, the selected cleanup actions meet action-specific and media-specific requirements and public concerns and tribal rights and interests were considered (WAC 173-340-360(3)(b)(c)(d)). The MTCA general requirements were used as the criteria

for evaluating cleanup actions as outlined in WAC 173-340-360(3), and consistent with disproportionate-cost analysis (DCA) requirements as outlined in WAC 173-340-360(4).

5.3.1 General Requirements

The cleanup action must meet the MTCA requirements (WAC 173-340-360(3)(a)), which include the following ten requirements:

- Protection of human health and the environment, including likely vulnerable populations and overburdened communities
- Compliance with cleanup standards
- Compliance with applicable state and federal laws
- Prevent or minimize present and future releases and migration of hazardous substances
- Provide resilience to climate change impacts that have a high likelihood of occurring
- Provisions for compliance monitoring
- Not rely primarily on institutional controls and monitoring at a site
- Not rely primarily on dilution and dispersion
- Provide for a reasonable restoration time frame
- Use permanent solutions to the maximum extent practicable

Requirements one through eight above are discussed in this section and requirements nine and ten are discussed in the sections that follow.

5.3.1.1 Protection of Human Health and the Environment

The single appropriate technology (removal and restoration) is protective of human health and the environment, including likely vulnerable populations and overburdened communities. This alternative involves removal of impacted soil in areas with dioxin concentrations above the CUL and replacing it with clean soil. Through excavation, direct or indirect contact and exposure would be prevented for the long term.

5.3.1.2 Compliance with Cleanup Standards

The cleanup will be conducted consistent with MTCA (WAC 173-340).

5.3.1.3 Compliance with Applicable State and Federal Laws

The cleanup will be conducted consistent with applicable state and federal laws, as discussed in Appendix J.

5.3.1.4 Hazardous Substance Release

This alternative involves removal of impacted soil in areas with dioxin concentrations above the CUL and replacing it with clean soil. Therefore, the cleanup will minimize present and future releases and migration of hazardous substances in the environment.

5.3.1.5 Climate Change

This alternative involves removal of impacted soil in areas with dioxin concentrations above the CUL and replacing it with clean soil. Therefore, the cleanup is resilient to climate change impacts that have a high likelihood of occurring including increased drought, higher extreme heat, increased frequent heavy magnitude precipitation events resulting in increased streamflow volumes, and increased high fire danger days. Greater risk would remain if contaminated soil was not removed.

5.3.1.6 Provision for Compliance Monitoring

Compliance monitoring, as required by WAC 173-340-410 and 173-340-740 through 173-340-750, consists of protection monitoring, performance monitoring, and confirmation monitoring to determine short- and long-term safety and effectiveness of the implemented alternative.

Protection monitoring is conducted to confirm that human health and the environment are adequately protected during construction, operation, and maintenance periods. Performance monitoring confirms that the cleanup has attained cleanup standards or other performance standards, including those outlined in any permits. Confirmation monitoring may be included to verify the long-term effectiveness of the interim action and/or final cleanup action.

Protection monitoring would consist of engineering oversight to verify safe material-handling procedures, effective health and safety measures, effective erosion- and sediment-control measures, and dust monitoring. Engineering controls would be applied as necessary to protect residents from exposure and unsafe conditions. Performance monitoring, in the form of confirmation sampling, includes samples collected as part of the RI sampling effort. These analytical data are used to set the vertical extents of the excavations prior to construction; a topographic survey of each property will be conducted following excavation and prior to backfill to verify that the soil above the CUL has been removed. Additional monitoring may be conducted consistent with sampling procedures provided in the SAP (MFA, 2015) to refine vertical extent or, at properties where it is infeasible to remove portions of soil (e.g., along steep slopes), to verify that the CUL has been met. The combination of this performance monitoring sampling and the post-soil-excavation/preconstruction topographic survey data will serve as confirmation monitoring.

5.3.1.7 Institutional Controls

This alternative does not rely primarily on institutional controls.

5.3.1.8 Dilution and Dispersion

This alternative involves removal of impacted soil in areas with dioxin concentrations above the CUL and replacing it with clean soil. Therefore, the cleanup does not rely primarily on dilution and dispersion.

5.3.2 Disproportionate-Cost Analysis

Disproportionate-cost analysis (DCA) is conducted to determine whether a cleanup action uses permanent solutions to the maximum extent practicable. Costs are determined to be disproportionate to benefits if the incremental cost of a more expensive alternative over that of a lower-cost alternative exceeds the incremental degree of benefits achieved by the more expensive alternative. As outlined in WAC 173-340-360(4) and (5), DCA includes evaluation criteria that are a mix of qualitative and quantitative factors.

As there is only one feasible alternative that was identified in coordination with Ecology, a full DCA was not performed (MFA, 2024). The sections below illustrate how this alternative meets criteria established by the DCA process, including protectiveness, permanence, long-term effectiveness, management of implementation risks, technical and administrative implementability, consideration of public concerns, and cost. Summaries of the analyses, primary assumptions, unit costs, and number of units for all significant project elements are included in the OPP RI/FS (MFA, 2024). Net present value calculations are also included for operation, maintenance, and monitoring costs, if applicable.

Protectiveness

Overall protectiveness of human health and the environment, including likely vulnerable populations and overburdened communities, includes the degree to which existing risks are reduced, the time required to reduce risk at a site and attain cleanup standards, on-site and off-site risks resulting from implementing the selected alternative, and improvement of the overall quality of the environment. The selected alternative is protective to the acceptable excess cancer risk level of 1 in 1 million standard for residential use, as soil above the CUL will be removed from the site.

Permanence

Permanence is a factor by which the cleanup action permanently reduces the toxicity, mobility, or volume of hazardous substances. The adequacy of the alternative in destroying the hazardous substances, the reduction or elimination of hazardous-substance releases and sources of releases, the degree of irreversibility of the waste-treatment process, and the characteristics and quantity of treatment residuals generated are all considered under this criterion.

MTCA states that, when selecting an alternative, preference shall be given to “permanent solutions to the maximum extent practicable.” A permanent solution is defined in WAC 173-340-200 as a cleanup action in which the cleanup standards of WAC 173-340-700 through 760 are met without further action being required at the site being cleaned up, or at any other site involved with the cleanup action, other than the approved disposal of any residue from the treatment of hazardous substances.

The selected alternative has a very high level of permanence. Soil exceeding the CUL is removed.

Effectiveness over the Long Term

Long-term effectiveness includes the degree of certainty that the alternative will be successful; the reliability of the alternative for the period of time during which hazardous substances are expected to remain on site at concentrations that exceed CULs; the resilience of the alternative to climate change

impacts; the magnitude of residual risk with the alternative in place; and the effectiveness of controls required to manage treatment residues or remaining wastes.

The selected alternative (removal and restoration) provides excellent long-term effectiveness because soil will be permanently removed, eliminating the area and volume of soils exceeding the CUL.

Management of Implementation Risks

Management of implementation risks addresses the risk to human health, including likely vulnerable populations and overburdened communities, and the environment associated with the alternative during construction and implementation, and the effectiveness of measures that will be taken to manage such risks. Short-term risks to remediation workers, the general public, and the environment are assessed under this criterion. Generally, short-term risks are expected to be linearly related to the amount of material handled, treated, and/or transported/disposed of (e.g., worker injury/cubic yards excavated [equipment failure], public exposure/cubic yards per mile transported [highway accident], release to environment/gallons treated [treatment system upset]).

As an invasive remedial technology, the selected alternative (removal and restoration) rates low for implementation risk. This alternative involves construction to remove impacted soil. This construction will disturb soil, increasing the potential for improper handling during the removal process, and may result in the generation of dust that could transport contamination and lead to inhalation exposure. Although simple measures such as pre-wetting soil before removal can be an effective dust deterrent. Most of the construction associated with this alternative will take place in a location immediately adjacent to private homes. Construction equipment can be dangerous if operated improperly or if the public enters work areas. This alternative increases the likelihood of conflicts between the general public and construction activities.

Management of implementation risks for the selected cleanup alternative are achievable through active coordination between construction oversight personnel, construction contractor(s), property owners and tenants. Risks are also mitigated using construction methods to reduce or eliminate dust or spread of contaminated media.

Technical and Administrative Implementability

Technical and administrative implementability addresses the ability to implement the alternative and includes consideration of whether the alternative is technically possible; the availability of necessary off-site facilities, services, and materials; administrative and regulatory requirements; scheduling; size; complexity; monitoring requirements; access for construction operations and monitoring; and integration with existing facility (or locally applicable) operations and other current or potential cleanup actions.

The selected alternative is implementable from a technical and administrative standpoint. However, compared with less invasive technologies, the selected alternative (removal and restoration) will require more coordination with area property owners.

Consideration of Public Concerns

Consideration of public concerns addresses concerns from individuals, community groups, local governments, tribes, federal and state agencies, and any other organization that may have an interest in or knowledge of the site and that may have a preferred alternative, including likely vulnerable populations and overburdened communities.

Ecology and the Port have addressed community concerns throughout project activities (see Section 6.2). Additional issues or concerns will be considered by Ecology as part of the draft CAP public comment period, as stipulated in WAC 173-340-600 and consistent with requirements set forth in WAC 173-340-380(2). Community concerns will also be factored into local permit processes, including responding to any City permitting concerns.

The selected alternative likely will include concerns related to required construction activities, noise, disruptions to property owners, and actions related to the disturbance of contaminated soil. These and similar concerns were raised during the 2016–2017 interim action construction activities. Management of such concerns will continue throughout the project as part of public outreach activities (see Section 6.2), including Ecology and Port-contractor site visits and communications with property owners and tenants.

Cost

Table 5-1 provides summary cost estimates for residential properties and ROWs for the selected alternative. Primary cost assumptions for each property or ROW segment are provided in Appendix B and are informed by the interim action costs. Interim action costs are not included in these estimates.

5.3.3 Reasonable Restoration Time Frame

WAC 173-340-360(4) contains guidance for determining reasonable restoration time frames. The following must be taken into consideration: potential risks posed by the site to human health and the environment; the practicability of achieving a shorter restoration time frame; current use of the site, surrounding areas, and associated resources that are, or that may be, affected by releases from the site; likely effectiveness and reliability of institutional controls; ability to control and monitor migration of hazardous substances from the site; toxicity of the hazardous substances at the site; and the natural processes that reduce concentrations of hazardous substances and that have been documented to occur at the site or under similar conditions.

The selected alternative can be executed within a reasonable time frame of one year.

5.3.4 Expectations for Alternatives

WAC 173-340-370 outlines Ecology's expectations for the development of alternatives and the selection of cleanup actions. Based on the above evaluations, the single feasible alternative is likely to ensure compliance with the expectations. Each of the expectation criteria is summarized below:

Treatment of Waste and Hazardous Substances

Ecology generally expects that treatment technologies will be emphasized at sites containing liquid wastes, high concentrations of hazardous substances, highly mobile hazardous materials, and discrete areas of hazardous materials that lend themselves to treatment. The site contains no liquid wastes; the hazardous-substance concentrations are not especially high and, in fact, generally correspond with less than a 1 in 100,000 excess cancer risk level; and dioxins are not highly mobile.

The selected alternative complies with Ecology's expectation.

Minimization of Long-Term Management at Small Sites

Ecology also favors the minimization of long-term management for small sites through the use of destruction, detoxification, and/or removal to bring concentrations on site to below CULs.

The selected alternative requires no long-term management at the site to bring concentrations below CULs; the selected alternative complies with Ecology's expectation.

Use of Engineering Controls at Large Sites

Ecology recognizes the need to use engineering controls, such as containment, for sites where there are large volumes of low-level contamination and where treatment is impractical.

The selected alternative does not include long-term engineering controls; this criterion is not applicable.

Minimize Stormwater Contamination and Off-Site Migration; Control Runoff to Avoid Surface Water Contamination

Ecology also expects that measures will be taken to avoid stormwater contamination and its subsequent migration off site. In addition, contamination of surface water near the OPP should be avoided through the control of runoff and groundwater discharge or migration.

The selected alternative will remove soils exceeding the CUL. The project will employ stormwater best management practices during construction (covering exposed soil with plastic sheeting to prevent runoff as used during the interim action). Because the contaminants have limited mobility, standard construction practices to limit turbid discharges from the site will avoid contamination of surface water.

Minimize Direct Contact and Migration by Consolidating Hazardous Substances

Ecology expects that when hazardous substances remain on site at concentrations that exceed CULs, those hazardous substances will be consolidated to the maximum extent practicable where needed to minimize the potential for direct contact and migration of hazardous substances.

Under the selected alternative, no hazardous substances at concentrations that exceed CULs will remain at residential areas; this criterion is not applicable.

Control Groundwater Discharge or Migration to Avoid Surface Water Contamination

Groundwater is not a consideration for the OPP, as the contamination is surficial, the water table is greatly removed from the contaminated layer and dioxins are not very mobile or water-soluble. This criterion is not applicable.

Allow Natural Attenuation

Ecology acknowledges that natural attenuation may be appropriate where criteria are met.

The selected alternative does not rely on natural attenuation or degradation of dioxins; this criterion is not applicable.

No Significantly Greater Overall Threat to Human Health and the Environment as Compared to Other Alternatives

Ecology expects that any cleanup actions chosen with consideration of WAC 173-340-370 will not result in a significantly greater overall threat to human health and the environment than with other alternatives. The selected alternative will minimize threats to human health and the environment during the cleanup action.

5.3.5 Selected Alternative Summary

Alternative 1 (removal and restoration) is selected for residential areas. Soil in yards and ROWs with dioxin concentrations exceeding the CUL will be removed and areas will be restored. The total estimated costs for the selected alternative is provided in Table 5-1.

6 IMPLEMENTATION OF CLEANUP ACTION

6.1 Cleanup Areas

Interim action (removal of contaminated soil and restoration) was conducted in 2016 and 2017 to remedy a portion of the OPP. The interim action is described in detail in Section 4.1. Cleanup has not been conducted for 15 yards and ROWs as shown on Figure 4-2. Recommended cleanup components include excavation and off-site disposal of soil with dioxin concentrations exceeding 13 ng/kg TEQ in residential areas, placement of clean fill, restoration of fencing, vegetation, and ROW features (as applicable).

6.2 Integrating Community Concerns

A public participation plan was prepared by Ecology and was implemented in coordination with the Port (see Appendix C). The plan describes the tools that Ecology uses to inform the public during project activities. The plan is intended to address concerns from individuals, community groups, local governments, tribes, federal and state agencies, and any other organization that may have an interest

in or knowledge of the OPP, including likely vulnerable populations and overburdened communities. Ecology and the Port will continue coordination to ensure that future project activities account for community input.

In coordination with the Port, Ecology held a public community meeting, provided public notice, distributed fact sheets, and solicited comments before and during the project. Multiple visits with property owners and tenants were conducted. Letters were provided to property owners and tenants before and after sampling activities. An example results letter showing sample locations, sample results, and description of next steps is provided as Appendix D. These efforts ensured that owners and tenants were aware of overall project activities as well as property-specific activities and were provided multiple opportunities for input. Solicitation of comments will continue at important stages of the project, such as the submission of the draft CAP and any future cleanup activities. Common community concerns include noise and traffic, short- and long-term risks, socioeconomic impacts, cleanup and restoration procedures, and the time frame of project activities.

Additional permitting requirements that further address community concerns are detailed in Section 3.2.

6.3 Schedule for Implementation

Cleanup of the OPP is currently under way. Cleanup of 29 properties and adjacent ROWs was completed as an interim action between 2016 and 2017 (see Section 4.1). This interim action is considered a final cleanup action for this area.

The schedule for the cleanup of the remaining 15 properties and ROWs will be based on the sources, timing, and funding for these actions. Currently, cleanup planning activities are underway for 10 properties and adjacent ROWs, with cleanup construction planned for late summer/fall 2024. It is anticipated that cleanup activities will be conducted for the remaining 5 properties and ROWs in 2025 and is contingent on funding availability. Ecology requires documentation of the cleanup actions that will be conducted; this may include, but is not limited to, documentation of coordination with property owners, SSAPs that inform predesign sampling, engineering design reports, construction plans and specifications, and construction completion (as-built) reports.

Table 6-1 summarizes required deliverables and the anticipated schedule for submittal. Each document will be submitted to Ecology for review and approval. Review comments will be incorporated before the next phase of work proceeds. As appropriate, some documents may be combined to cover related work or work being conducted simultaneously.

LIMITATIONS

The services undertaken in completing this plan 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 plan is solely for the use and information of our client unless otherwise noted. Any reliance on this plan by a third party is at such party's sole risk.

Opinions and recommendations contained in this plan 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 plan.

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TABLES



Table 3-1
Off-Property Portion Cleanup Levels
Former PWT Site
Ridgefield, Washington



	Soil Cleanup Level ^(a)
Dioxins (ng/kg)	
Dioxin TEQ	13
NOTES: CUL = cleanup level. ng/kg = nanograms per kilogram. PWT = Pacific Wood Treating Co. TEQ = toxicity equivalent. ^(a) Residential areas, including right-of-ways.	

Table 5-1
Estimated Cleanup Costs
Former PWT Site
Ridgefield, Washington



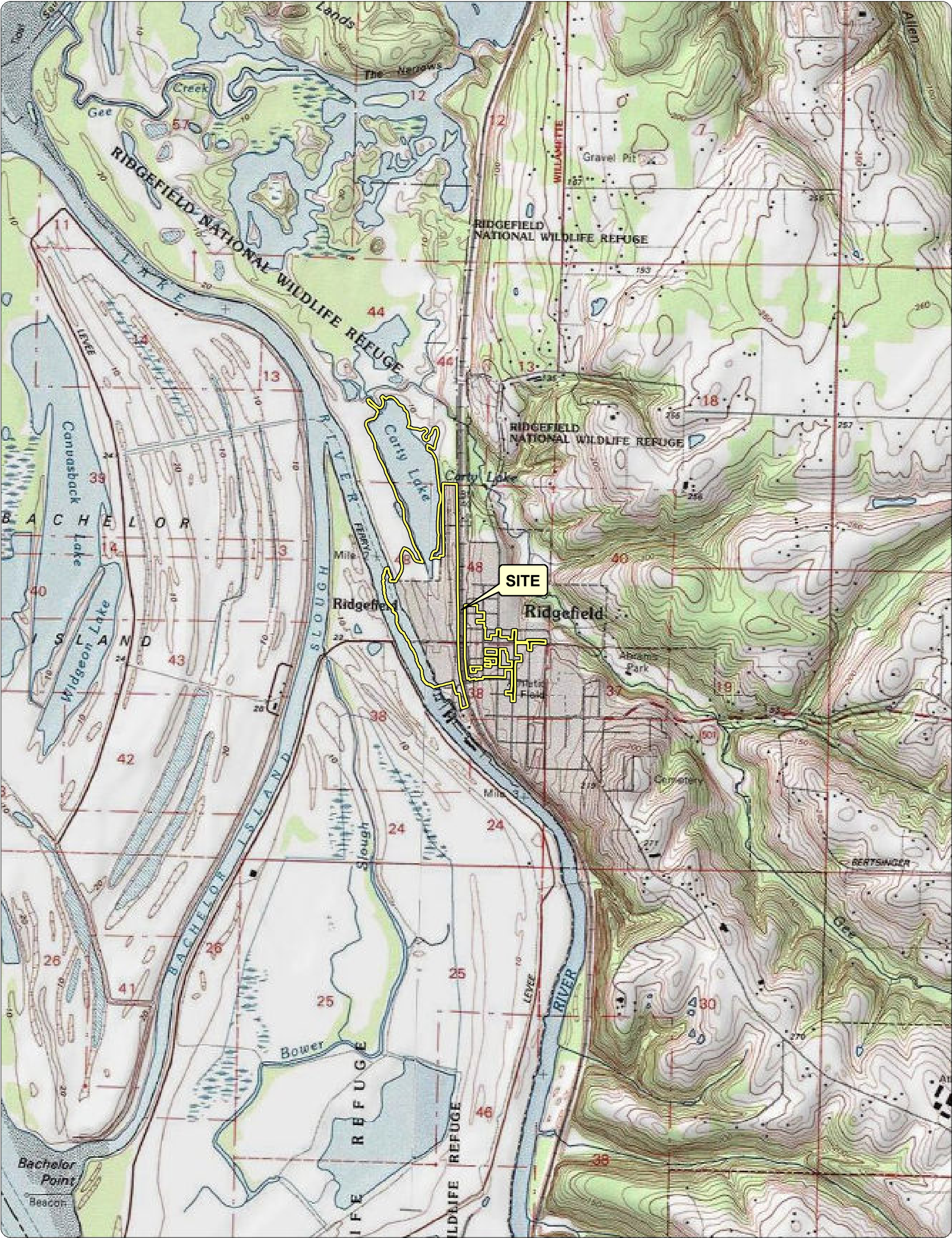
Residential Area Properties Cost (RR)		\$	1,652,234
ROW Cost (RR)		\$	1,171,161
Subtotal		\$	2,823,395
Tax	8.4%	\$	237,165
Contingency	30%	\$	847,020
Total Cost Estimate Including Contingency		\$	3,907,580
NOTES: Estimated costs are for the Phase 2 and 3 off-property portion. PWT = Pacific Wood Treating Co. ROW = right-of-way. RR = soil removal and restoration (selected alternative).			

Table 6-1
Schedule of Deliverables
Former PWT Site
Ridgefield, Washington

Cleanup Phase	Engineering Design Report	Construction Plans and Specifications	Operation and Maintenance Plan	Cleanup Action Report	Compliance Monitoring Plans
Interim Action (Completed)	Interim Action Work Plans were prepared for each of the interim actions and collectively serve as the Engineering Design Report.	Construction plans and specifications were prepared for each of the interim actions and are available upon request.	Operation and maintenance plans are not a component of the completed cleanup action for the Phase 1 OPP areas as contaminated soil was removed. A comprehensive operation and maintenance plan for the PWT site was prepared by the Port and approved by Ecology in 2024.	The Port prepared a construction completion report for the Phase 1 OPP in 2018.	All soil with concentrations of dioxins above CULs were removed and documented by a combination of performance monitoring sampling and a post-soil-excavation/preconstruction topographic survey. Therefore, compliance monitoring was not necessary.
Phase 1 Cleanup (2024)	10 Residential Areas including ROWs: An Engineering Design Report will be prepared following issuance of this Cleanup Action Plan. This is anticipated in 2024.	Construction plans and specifications will be completed prior to contractor selection. These plans are anticipated in summer 2024.	Operation and maintenance plans are not a component of the completed cleanup action as contaminated soil will be removed.	A construction completion report following completion of the work will be prepared. This is anticipated in winter 2024.	All soil with concentrations of dioxins above CULs will be removed and documented by a combination of performance monitoring sampling and a post-soil-excavation/preconstruction topographic survey. Therefore, compliance monitoring is not planned.
Phase 2 Cleanup (Anticipated 2025)	5 Residential Areas including ROWs: An Engineering Design Report will be prepared following issuance of this Cleanup Action Plan. This is anticipated in 2025.	Construction plans and specifications will be completed prior to contractor selection. These plans are anticipated in 2025.	Operation and maintenance plans are not a component of the completed cleanup action as contaminated soil will be removed.	A construction completion report following completion of the work will be prepared. This is anticipated in late 2025.	All soil with concentrations of dioxins above CULs will be removed and documented by a combination of performance monitoring sampling and a post-soil-excavation/preconstruction topographic survey. Therefore, compliance monitoring is not planned.
NOTES: City = City of Ridgefield. Ecology = Washington State Department of Ecology. OPP = off-property portion. Port = Port of Ridgefield. PWT = Pacific Wood Treating Co. SMP = soil maintenance plan.					

FIGURES





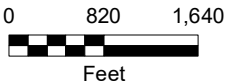
Source: Topographic Quadrangle obtained from ArcGIS Online
Services/NGS-USGS TOPO/US Geological Survey (1999)
7.5-minute topographic quadrangle: Ridgefield
Address: Lake River Industrial Site
111 W. Division Street, Ridgefield, WA 98642
Section: 24 Township: 4N Range: 1W Of Willamette Meridian

Legend

- Former Pacific Wood Treating Site

Figure 1-1
Site Location

Former PWT Site
Ridgefield, Washington





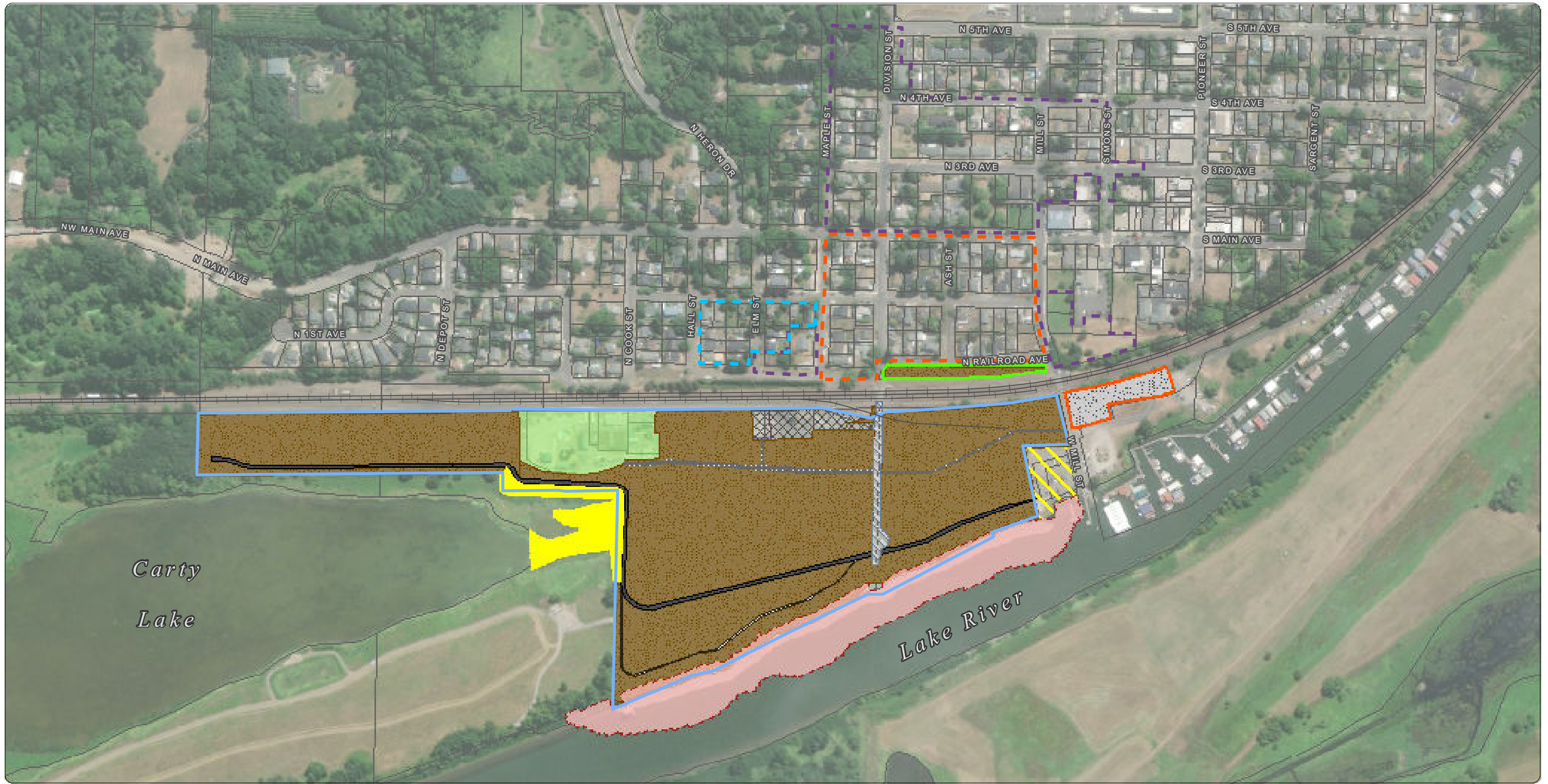
Source: Aerial photograph (2014), tax lots, and zoning data obtained from Clark County GIS.

Notes:
BNSF = Burlington Northern Sante Fe.
LRIS = Lake River Industrial Site.
Port = Port of Ridgefield.
PWT = Pacific Wood Treating.
RNWR = Ridgefield National Wildlife Refuge.
WWTP = Wastewater Treatment Plant.

Legend

Clark County Tax Lots (2014)	Port Railroad Avenue Property	Off-Property Portion
Area Designations	McCuddy's Marina Property	Port Marina Property
Port Overpass Property	RNWR-Carty Unit	
LRIS	RNWR-River S Unit	
City of Ridgefield WWTP	BNSF Railroad Property	

Figure 1-2
Site Vicinity Diagram
Former PWT Site
Ridgefield, Washington



Source: Aerial photograph (2014) and streets obtained from Clark County GIS.

Notes:
1. LRIS = Lake River Industrial Site.

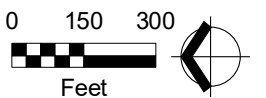
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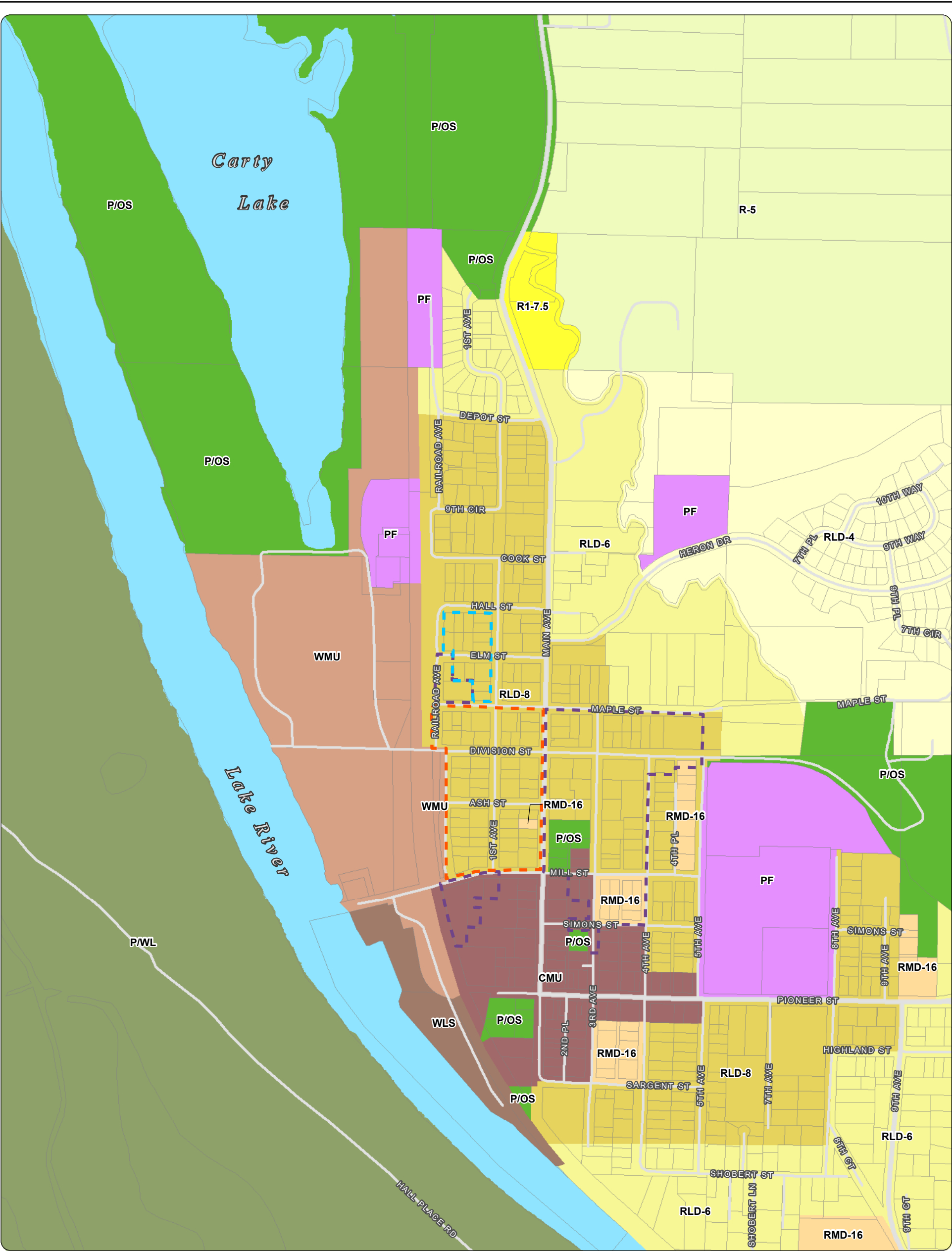
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Legend

- | | | | |
|---|---|---|--|
|  Phase 1 Off-Property Portion |  Soil Cap |  Overpass Property |  LRIS Boundary |
|  Phase 2 Off-Property Portion |  Gravel Cap |  Railroad Avenue Property |  Asphalt Surface and Building |
|  Phase 3 Off-Property Portion |  Lake River Remedy |  Port Marina Property (existing asphalt) |  Division Street |
|  Clark County Tax Lots (2014) |  Carty Lake Remedy |  Wastewater Treatment Plant |  Hard Trail |
|  Railroad | | |  Soft Trail |
| | | |  Access Road |

Figure 2-1
Past Cleanup Areas
Former PWT Site
Ridgefield, Washington





Source: Zoning, tax lots, and roads data obtained from Clark County GIS (2014).

- Phase 1 Off-Property Portion
- Phase 2 Off-Property Portion
- Phase 3 Off-Property Portion
- Clark County Tax Lots (2014)

Legend

- | Zoning | |
|-------------------------------------|------------------------------|
| Single Family Residential (R1-7.5) | Parks/Open Space (P/OS) |
| Residential Low Density - 4 (RLD-4) | Parks/Wildlife Refuge (P/WL) |
| Residential Low Density - 6 (RLD-6) | Public Facilities (PF) |
| Residential Low Density - 8 (RLD-8) | Central Mixed Use (CMU) |
| Residential Medium Density (RMD-16) | Waterfront Low Scale (WLS) |
| Rural-5 (R-5) | Waterfront Mixed Use (WMU) |
| | Water |

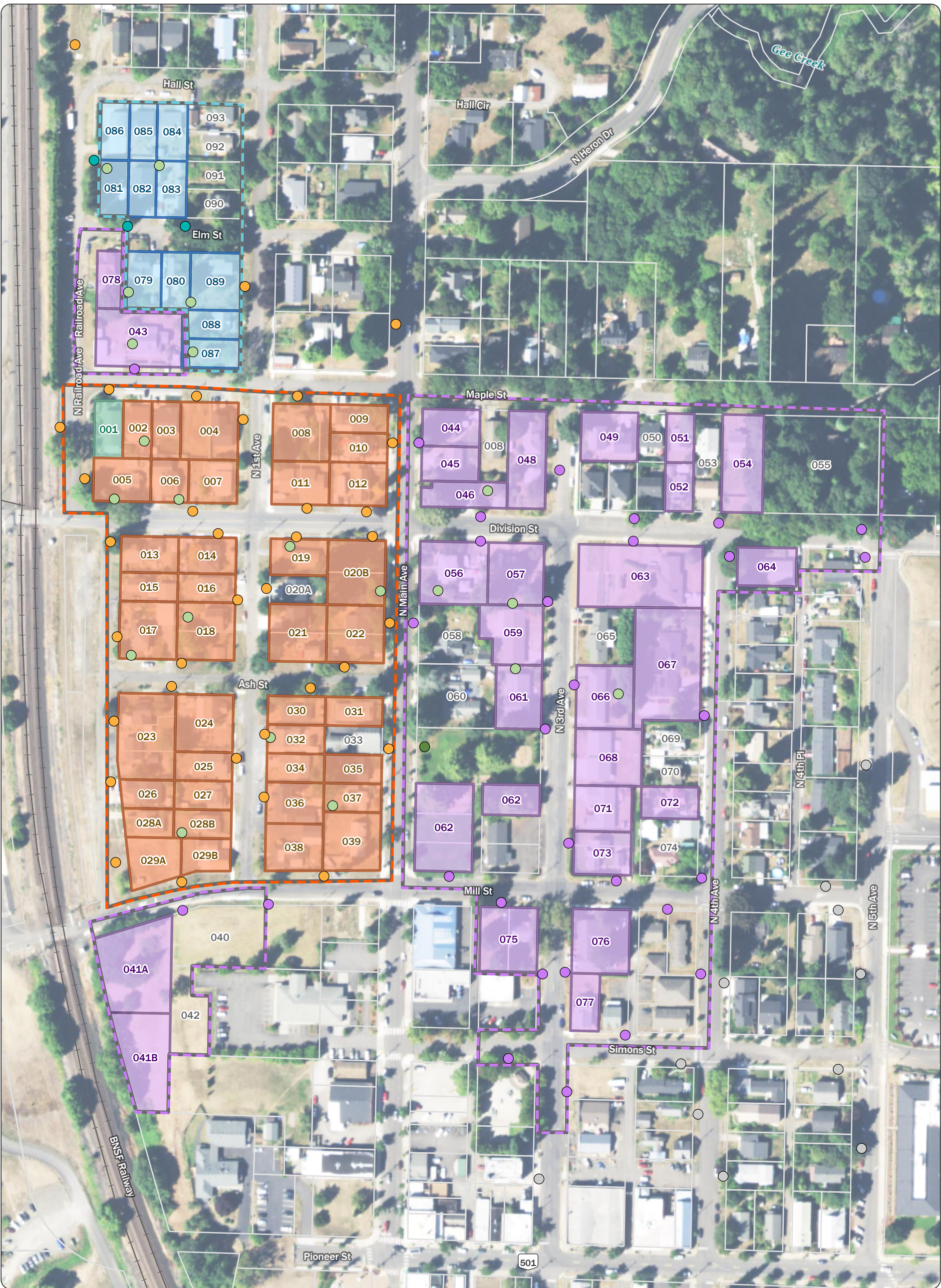
Figure 2-2
Zoning Designations
Former PWT Site
Ridgefield, Washington



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Notes
One ISM sampling area was identified for each property, with the exception of 013 and 018. For these properties, a front yard and backyard sampling area was identified. See text for details.
ISM = Incremental Sampling Methodology.
ROW = right of way.
A composite sample was also collected at property 004. See text for details.

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

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Sample Locations

- Discrete Property Surface Sample
- Discrete Property Subsurface Sample
- Phase 1 ROW Sample
- Phase 2 ROW Sample
- Phase 2 ROW Archive Sample
- Phase 3 ROW Sample

Legend

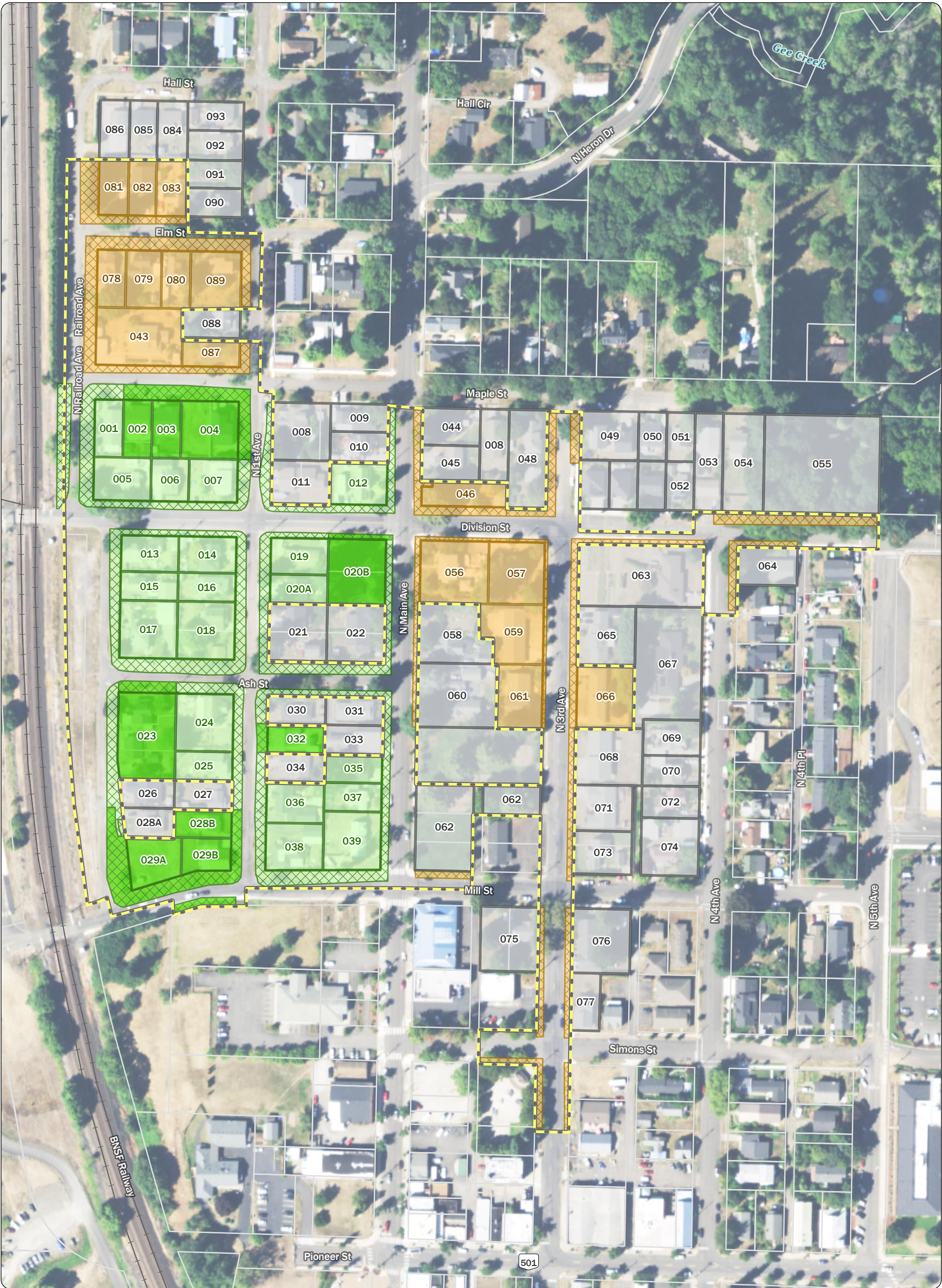
Sampling Areas

- Composite Sampling Area
- Phase 1 ISM Sampling Area
- Phase 2 ISM Sampling Area
- Phase 3 ISM Sampling Area

- Phase 1 Off Property Portion
- Phase 2 Off Property Portion
- Phase 3 Off Property Portion
- Parcel
- Railroad

Figure 4-1
Soil Sample Locations
Former Pacific Wood Treating Site
Ridgefield, WA





Note
ROW = right of way.

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

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Property Cleanup Status

-  Cleanup Property (Not Completed)
-  2016 Cleanup Property (Completed)
-  2017 Cleanup Property (Completed)
-  No Cleanup Needed

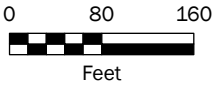
Legend

Right of Way Cleanup Status

-  ROW Cleanup Area (Not Completed)
-  2016 ROW Cleanup Area (Completed)
-  2017 ROW Cleanup Area (Completed)

-  Off-Property Portion Site
-  Parcel
-  Railroad

Figure 4-2
Cleanup Status
Former Pacific
Wood Treating Site
Ridgefield, WA



APPENDIX A

ANALYTICAL SUMMARY



APPENDIX A— CLEANUP LEVEL SCREENING CONTENTS

The following tables present media concentrations and cleanup levels for the OPP.

TABLES

- A-1 2010–2012 OPP SOIL CLEANUP LEVEL SCREENING
- A-2 OPP PROPERTY SOIL CLEANUP LEVEL SCREENING
- A-3 OPP ROW SOIL CLEANUP LEVEL SCREENING

Table A-1
2010–2012 OPP Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington

Location ID	MTCA Method B Soil CUL	SS-34	SS-35	SS-36	SS-43	SS-44	SS-45	SS-46	SS-47	SS-48	SS-49	SS-54	SS-55	
Sample ID		SS-34	SS-35	SS-36	SS-43	SS-44	SS-45	SS-46	SS-47	SS-48	SS-49	SS-54	SS-55	
Sample Date		06/17/2010	06/17/2010	06/17/2010	09/21/2010	09/21/2010	09/21/2010	05/24/2011	05/24/2011	05/24/2011	05/24/2011	05/24/2011	05/24/2011	
Sample Depth (feet bgs)		0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Area		Residential	Residential	Residential	Phase 1 OPP	Phase 1 OPP	Phase 1 OPP	Residential	Phase 1 OPP	Phase 1 OPP	Phase 1 OPP	Phase 1 OPP	Phase 1 OPP	Phase 2 OPP
Dioxins and Furans (ng/kg)														
1,2,3,4,6,7,8-HpCDD	--	9.7	59	68	1100	550	160	21	1400	670	590	21	140	
1,2,3,4,6,7,8-HpCDF	--	1.5 J	7.8	8.2	170	110	25	5.3	190	160	93	12	26	
1,2,3,4,7,8,9-HpCDF	--	0.33 U	0.63 J	0.61 J	11	6.1	2.1 J	0.22 U	13	10	5.5	0.12 U	0.24 U	
1,2,3,4,7,8-HxCDD	--	0.17 J	0.61 J	0.33 U	14	7.5	2.5 J	0.091 U	14	8.8	9.5	0.38	0.18 U	
1,2,3,4,7,8-HxCDF	--	0.35 J	1.4 J	2.1 J	25	12	2.3 J	0.072 U	50	16	13	0.09 U	0.24 U	
1,2,3,6,7,8-HxCDD	--	0.54 J	3.1 J	3.3 J	72	32	9	0.11 U	71	30	33	0.11 U	7.5	
1,2,3,6,7,8-HxCDF	--	0.15 U	0.74 J	0.99 J	16	4.9	1.3 J	1.1 U	31 U	28 U	16 U	0.14 U	0.09 U	
1,2,3,7,8,9-HxCDD	--	0.25 J	1.3 J	1.4 J	34	16	4.9	0.077 U	32	15	19	0.14 U	0.13 U	
1,2,3,7,8,9-HxCDF	--	0.18 U	0.39 J	0.66 J	6.6	3.4 J	0.7 J	0.081 U	13	0.17 U	0.15 U	0.13 U	0.17 U	
1,2,3,7,8-PeCDD	--	0.15 J	0.37 J	0.35 J	8.2	3.9 J	1.3 J	0.077 U	5.6	0.27 U	0.17 U	0.18 U	0.12 U	
1,2,3,7,8-PeCDF	--	0.088 U	0.18 U	0.41 J	4.6	3.1 J	0.53 J	0.14 U	7.6	3.3 U	0.2 U	0.14 U	0.12 U	
2,3,4,6,7,8-HxCDF	--	0.21 J	0.81 J	1.2 J	17	8.6	2 J	0.068 U	27	11	11	0.11 U	0.12 U	
2,3,4,7,8-PeCDF	--	0.13 J	0.8 J	1.4 J	11	6	1.2 J	0.19 U	23	7.3	9.5	0.13 U	8	
2,3,7,8-TCDD	--	0.13 U	0.12 U	0.2 U	3.1	0.76 J	0.28 J	0.11 U	2.3	4.5	0.12 U	0.16 U	0.12 U	
2,3,7,8-TCDF	--	0.24 J	0.25 J	0.3 J	1.9 U	1.7 U	1 U	0.51	3.1	3	1.3	0.16 U	0.28 U	
OCDD	--	69	370	500	6500 J	3500	1400	150	11000 J	5200	3500	130	770	
OCDF	--	4.3 J	17	10	210	150	79	18	230	510	160	0.13 U	36	
Total HpCDDs	--	19	100	140	2000	960	270	38	2200	1100	980	34	230	
Total HpCDFs	--	4.3 J	8.4	24	460	270	76	18	410	520	250	34	73	
Total HxCDDs	--	3.4 J	14	15	330	170	51	5.8	310	170	190	6.2	35	
Total HxCDFs	--	1.8 J	12	17	350	190	40	6.8	540	230	200	22	99	
Total PeCDDs	--	0.24 J	1.4 J	0.88 J	31	24	7.8	0.77 J	30	30	25	0.11 U	5.7 J	
Total PeCDFs	--	1.3 J	6.8	9.7	79	56	14	1.1 J	180	76	95	5 J	120	
Total TCDDs	--	0.37 J	0.12 U	0.23 J	8.7	7.4	4.3	0.86 J	9.1	19	4.6	0.16 U	0.36 J	
Total TCDFs	--	1.2	1.6	1.3	15	16	5.8	0.088 U	29	47	22	0.45 J	20	
Dioxin TEQ	13	0.49	2.3	2.8	48	23	6.6	0.57	57	27	20	0.64	5.2	

Table A-1
2010–2012 OPP Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington

Location ID	MTCA Method B Soil CUL	SS-56	SS-57	SS-58	SS-59	SS-43-Comp-0-6	SS-44-Comp-0-6	SS-47-Comp-0-6	SS-48-Comp-0-6	SS-49-Comp-0-6	SS-57-Comp-0-6
Sample ID		SS-56	SS-57	SS-58	SS-59	SS-43-Comp	SS-44-Comp	SS-47-Comp	SS-48-Comp	SS-49-Comp	SS-57-Comp
Sample Date		05/24/2011	05/24/2011	05/24/2011	05/24/2011	09/20/2012	09/20/2012	09/20/2012	09/20/2012	09/20/2012	09/20/2012
Sample Depth (feet bgs)		0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Area		Phase 1 OPP	Phase 1 OPP	Residential	Residential	Phase 1 OPP	Phase 1 OPP	Phase 1 OPP	Phase 1 OPP	Phase 1 OPP	Phase 1 OPP
Dioxins and Furans (ng/kg)											
1,2,3,4,6,7,8-HpCDD	--	82	670	63	54	83	9.3	590	9.9	31	4.2 U
1,2,3,4,6,7,8-HpCDF	--	12	100	11	9.6	12	1.6 J	55 U	2.3 J	3.4 J	0.65 U
1,2,3,4,7,8,9-HpCDF	--	0.69	6.5	0.3 U	0.52	0.65 J	0.13 U	6.1	0.22 U	0.23 J	0.28 U
1,2,3,4,7,8-HxCDD	--	0.22 U	9.7	0.15 U	0.15 U	0.99 J	0.14 U	5.4	0.25 U	0.64 J	0.16 U
1,2,3,4,7,8-HxCDF	--	0.12 U	21 U	2.9 U	0.24 U	1.4 J	0.15 U	29	0.24 U	0.56 J	0.25 U
1,2,3,6,7,8-HxCDD	--	0.14 U	40	0.15 U	0.15 U	4 J	0.58 J	36	0.64 J	1.8 J	0.5 J
1,2,3,6,7,8-HxCDF	--	0.097 U	11	0.17 U	0.24 U	0.51 J	0.2 U	16 U	0.2 U	0.3 J	1.7 U
1,2,3,7,8,9-HxCDD	--	0.13 U	18	0.15 U	0.13 U	2 J	0.3 J	11	0.31 J	1 J	0.42 J
1,2,3,7,8,9-HxCDF	--	0.15 U	0.18 U	0.15 U	0.12 U	0.11 U	0.085 U	6.1	0.26 U	0.12 U	0.23 U
1,2,3,7,8-PeCDD	--	0.42	0.16 U	0.48	0.2 U	0.41 U	0.16 U	1.8 J	0.18 U	0.21 J	0.17 U
1,2,3,7,8-PeCDF	--	0.14 U	0.11 U	0.28 U	0.22 U	0.31 U	0.15 U	4.4 J	0.19 U	0.18 U	0.26 U
2,3,4,6,7,8-HxCDF	--	0.1 U	13	0.074 U	0.11 U	0.94 J	0.14 U	13	0.27 J	0.59 J	0.78 J
2,3,4,7,8-PeCDF	--	0.11 U	13	0.12 U	0.16 U	0.58 J	0.13 U	5.9	0.21 J	0.59 J	0.38 J
2,3,7,8-TCDD	--	0.26 U	0.19 U	0.12 U	0.12 U	0.13 J	0.1 U	0.19 U	0.37 J	0.12 U	0.18 U
2,3,7,8-TCDF	--	0.23 U	1.4	0.12 U	0.24 U	0.19 J	0.13 U	1.1 U	0.16 U	0.2 U	0.25 U
OCDD	--	460	3500	360	330	440	74	4600	78	170	31
OCDF	--	0.15 U	110	13	16	12	2.6 J	87	5.9 J	5.2 J	1.1 U
Total HpCDDs	--	140	1200	110	97	130	18	1100	18	51	4.6 J
Total HpCDFs	--	28	260	31	25	26	4.1 J	160	6.4	8.7	1.5 J
Total HxCDDs	--	18	190	20	16	20	2.8 J	140	3.6 J	9.1	3.3 J
Total HxCDFs	--	28	270	24	24	19	2.3 J	310	3 J	8.7	8.7
Total PeCDDs	--	1.4 J	23	1.3 J	1.5 J	0.7 J	0.16 U	5.8	0.18 U	0.73 J	0.17 U
Total PeCDFs	--	11	150	14	13	6.7	1.1 J	120	1.4 J	6	12
Total TCDDs	--	0.098 U	4.7	0.12 U	0.56 J	0.54 J	0.1 U	0.19 U	0.67 J	0.44 J	0.18 U
Total TCDFs	--	0.48 J	26	3.6	1.7	0.89 J	0.13 UJ	7.7	0.22 U	1.5	2.5
Dioxin TEQ	13	1.7	23	1.6	1.0	2.6	0.41	22	0.85	1.4	0.63

Table A-1
2010–2012 OPP Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington

NOTES:
Bold indicates values that exceed MTCA Method B Soil CUL.
-- = no value.
bgs = below ground surface.
CUL = cleanup level.
J = Estimated value. Value used in calculations.
MTCA = Model Toxics Control Act.
ND = not detected.
ng/kg = nanograms per kilogram.
OPP = off-property portion.
PWT = Pacific Wood Treating Co.
TEQ = toxicity equivalent.
U = Not detected. One half the reported concentration used in TEQ and Total PAH calculations.

Table A-2
OPP Property Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington



Location	Sample Name	Collection Date	Collection Depth (feet 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)	1,2,3,7,8,9-HxCDD (ng/kg)
Property 001	COMP-AOI001-0.5	11/20/2015	0-0.5	Composite	Phase 1 OPP	52.7	992	241	16.3	25.5	29.4	110	15.1 U	63.7
Property 002	ISM-AOI002-0.5	11/20/2015	0-0.5	ISM	Phase 1 OPP	15.1	322	157	3.98	4.89	9.82	20.2	4.64	12.6
Property 002	SBS-AOI002-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	5.41	159	19	1.27 J	2.2 J	2.63 J	7.23	1.38 J	5.91
Property 003	ISM-AOI003-0.5	02/09/2016	0-0.5	ISM	Phase 1 OPP	15.4	334	48.4	2.73	4.83	6.75	16.1	3.36	13
Property 004	COMP-AOI004-0.5	07/28/2015	0-0.5	Composite	Phase 1 OPP	13.0	320	42.1	2.63 J	4.65 J	5.98	20.3	2.81 J	12.4
Property 004	ISM-AOI004-0.5	07/12/2017	0-0.5	ISM	Phase 1 OPP	18.6	456	57.3	4	6.68	8.7	27.5	4.34 J	16.2
Property 005	ISM-AOI005-0.5	04/16/2015	0-0.5	ISM	Phase 1 OPP	68.8	1,810	249	15.3	18.1	44.4	94.6	22	55.5
Property 005	SBS-AOI005-1.0	04/16/2015	0.5-1.0	Discrete	Phase 1 OPP	60.7	1,900	288	17.6	17.1	48.3	93.5	21.4	51
Property 005	SBS-AOI005-1.0-DUP	04/16/2015	0.5-1.0	Discrete Dup	Phase 1 OPP	69.8	2,180	316	19.5	20.3	56	104	25.5	60.4
Property 006	ISM-AOI006-0.5	04/16/2015	0-0.5	ISM	Phase 1 OPP	39.8	930	123	6.94	10	18.1	46.9	8.23	29.1
Property 006	SBS-AOI006-1.0	04/16/2015	0.5-1.0	Discrete	Phase 1 OPP	23.6	572	74.6	4.32	5.03	12.8	26.6	5.29	14.1
Property 007	ISM-AOI007-0.5	04/16/2015	0-0.5	ISM	Phase 1 OPP	53.1	1,650	246	15.2	11.7	58.8	81.8	22.3	35.9
Property 008	ISM-AOI008-0.5	05/21/2015	0-0.5	ISM	Phase 1 OPP	11.4	288	46.8	2.76	3.19	4.07	12.7	2.15	8.79
Property 009	ISM-AOI009-0.5	11/20/2015	0-0.5	ISM	Phase 1 OPP	5.88	124	28.8	2.33	1.55	6.79	5.35	1.54	3.75
Property 010	ISM-AOI010-0.5	12/02/2015	0-0.5	ISM	Phase 1 OPP	4.12	142	18.1	1.03	0.974	1.9	4.38	0.694	2.69
Property 011	ISM-AOI011-0.5	04/16/2015	0-0.5	ISM	Phase 1 OPP	10.7	341	71.4	4.05	3.17	4.95	15.7	3.21	9.88
Property 012	ISM-AOI012-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	18.4	542	101	5.4	6.27	12.6	24.6	7.46	15.1
Property 013	ISM-AOI013-0.5-B	04/16/2015	0-0.5	ISM	Phase 1 OPP	47.0	1,450	199	11.4	13.8	31.7	72	14.9	38.9
Property 013	ISM-AOI013-0.5-F	04/16/2015	0-0.5	ISM	Phase 1 OPP	106	3,560	500	29.8	28.2	91.6	159	37.5	66.4
Property 014	ISM-AOI014-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	40.0	1,230	205 UJ	10.7	14.8	32.2	58	15.7	31.6
Property 015	ISM-AOI015-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	183	4,080	584	26.3	80	74	285	83.7	191
Property 016	ISM-AOI016-0.5	05/07/2015	0-0.5	ISM	Phase 1 OPP	34.4	972	142	8.19	13.1	24	46.7	11.8	30.5
Property 017	ISM-AOI017-0.5-A	04/23/2015	0-0.5	ISM Triplicate	Phase 1 OPP	45.2	1,180	214	13.6	18.6	22.9	63.8	14.4	40
Property 017	ISM-AOI017-0.5-B	04/23/2015	0-0.5	ISM Triplicate	Phase 1 OPP	30.5	836	139	7.28	11.3	16.6	41.3	9.41	23.3
Property 017	ISM-AOI017-0.5-C	04/23/2015	0-0.5	ISM Triplicate	Phase 1 OPP	42.6	1,100	187	10.1	15.2	22.5	54.9	12.5	36.5
Property 017	SBS-AOI017-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	10.3	175	25.8	3.43	3.69	5.52	10.4	3.66	6.93
Property 018	ISM-AOI018-0.5-B-A	04/16/2015	0-0.5	ISM Triplicate	Phase 1 OPP	14.0	379	96.1	3.62	4.4	8.65	20.2	4.57	14.1
Property 018	ISM-AOI018-0.5-B-B	04/16/2015	0-0.5	ISM Triplicate	Phase 1 OPP	13.7	444	73.2	3.39	4.62	7.66 U	21.4	3.98	14.8 U
Property 018	ISM-AOI018-0.5-B-C	04/16/2015	0-0.5	ISM Triplicate	Phase 1 OPP	12.1	390	66.4	2.96	4.32	6.73 U	20.1	3.47	13 U
Property 018	ISM-AOI018-0.5-F	04/16/2015	0-0.5	ISM	Phase 1 OPP	18.3	553	78.6	4.04	6.43	9.91	27.8	5.2	17.1
Property 018	SBS-AOI018-1.0	04/16/2015	0.5-1.0	Discrete	Phase 1 OPP	1.85	54.9	9.37	0.466 J	0.609 J	1.16 U	2.74	0.607 J	2.03 U
Property 019	ISM-AOI019-0.5	06/22/2015	0-0.5	ISM	Phase 1 OPP	22.2	529	81.3	4.46	5.92	17.2	30.1	6.87	16.9
Property 019	SBS-AOI019-1.5	03/25/2016	1.0-1.5	Discrete	Phase 1 OPP	22.7	800	94.5	6.5	7.57	16.1	31.4	7.36	19.7
Property 020B	ISM-AOI020B-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	25.6	734	134	5.95	8.4	16.7	33.2	8.46	24.8
Property 020B	SBS-AOI020B-1.0	04/30/2015	0-0.5	Discrete	Phase 1 OPP	4.17	119	23.3	0.907	1.12	2.41	4.93	1.23	4.65
Property 021	ISM-AOI021-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	3.44	115	17.6	0.856 J	1.06	1.49	4	0.774 J	3.74
Property 022	ISM-AOI022-0.5	12/02/2015	0-0.5	ISM	Phase 1 OPP	8.65	252	34.4	2.12	2.33	4.94	12.4	2.2	6.39
Property 023	ISM-AOI023-0.5	06/15/2016	0-0.5	ISM	Phase 1 OPP	18.6	569	83.5	5.63	6.27	9.57	26.8	4.79	18.4
Property 024	ISM-AOI024-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	15.1	397	81.4	4.04	4.18	8.03	16.7	7.22	13.7
Property 025	ISM-AOI025-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	17.4	454	80.6	3.96	5.87	8.34	23.3	5.35	20.7

Table A-2
OPP Property Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington



Location	Sample Name	Collection Date	Collection Depth (feet 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)	1,2,3,7,8,9-HxCDD (ng/kg)
Property 026	ISM-AOI026-0.5	09/21/2015	0-0.5	ISM	Phase 1 OPP	9.22	273	37.1	2.09	2.66	4.46	14.2	2.24	7.29
Property 027	ISM-AOI027-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	10.6	309	49.1	2.48	3.4	5.4	13.8	2.6	11.8
Property 028A	ISM-AOI028A-0.5	12/02/2015	0-0.5	ISM	Phase 1 OPP	7.91	227	31.8	1.86	2.72	3.75	10.9	1.82	7.26
Property 028B	ISM-AOI028B-0.5	12/02/2015	0-0.5	ISM	Phase 1 OPP	15.9	424	89.4	4.22	5.24	8.1	24.6	4.48	13.6
Property 028B	SBS-AOI028B-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	14.0	479	54.7	3.77 J	4.86 J	9.12	19.3	4.06 J	12.4
Property 029A	ISM-AOI029A-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	17.1	475	73	4.09	5.21	8.26	23	4	23.1
Property 029B	ISM-AOI029B-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	27.7	763	130	6.97	10.5	13.7	38.5	7.73	23.8
Property 030	ISM-AOI030-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	9.49	299	49	2.21	3.66	5.19	12.5	2.41	9.36
Property 030	ISM-AOI030-0.5	05/21/2015	0-0.5	ISM Dup	Phase 1 OPP	11.4	337	45.1	2.45	4.41	5.3	15.3	2.47	12.3
Property 031	ISM-AOI031-0.5	04/16/2015	0-0.5	ISM	Phase 1 OPP	11.9	397	65.9	3.4	4.15	6.15 U	18.8	3.24	11.8 U
Property 032	ISM-AOI032-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	16.4	390	80.2	3.88	5.72	9.61	19.6	5.7	13.1
Property 032	SBS-AOI032-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	5.24	169	36.9	1.61	2	1.77	6.3	1.23	5.4
Property 034	ISM-AOI034-0.5	12/02/2015	0-0.5	ISM	Phase 1 OPP	9.68	215	40.5	2.36	2.67	7.17	10.6	3.01	7.63
Property 035	ISM-AOI035-0.5	12/23/2015	0-0.5	ISM	Phase 1 OPP	48.4	430	342	19	8.75	81.1	25.9	37	26.1
Property 036	ISM-AOI036-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	29.4	563	122	6.37	8.11	13.8	28.2	7.03	19
Property 037	ISM-AOI037-0.5	11/20/2015	0-0.5	ISM	Phase 1 OPP	17.7	417	75.7	4.69	4.54	11.5	20.6	4.34	12.1
Property 037	SBS-AOI037-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	0.730	19.3	2.4 J	0.311 J	0.364 J	0.528 J	0.963 J	0.272 J	0.906 J
Property 038	ISM-AOI038-0.5	05/29/2015	0-0.5	ISM	Phase 1 OPP	31.3	747	129	6.61	14.1	13.1	37.5	7.06	37.7
Property 039	ISM-AOI039-0.5	05/29/2015	0-0.5	ISM	Phase 1 OPP	18.3	428	94.7	6.6	4.77	17.4	19	4.85	12.1
Property 041A	ISM-AOI041A-0.5	05/04/2016	0-0.5	ISM	Phase 2 OPP	11.7	415	49.3	3.03 U	4.04	8.08	17.6	3.64	11
Property 041B	ISM-AOI041B-0.5	05/04/2016	0-0.5	ISM	Phase 2 OPP	192	5,510	1,010	57	40.1	248	284	102	111
Property 043	ISM-AOI043-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	16.1	360	52.5	3.36	3.67	7.06	17.6	5.09	10.4
Property 043	AOI-043-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 2 OPP	53.4	984 J	131 J	12.0 J	14.1 J	22.9 J	66.5 J	16.1 J	34.0 J
Property 043	AOI-043-1.5-2.0	12/06/2023	1.5-2.0	Discrete	Phase 2 OPP	30.2	576 J	81.6 J	5.64 J	9.79 J	14.9 J	36.4 J	9.62 J	18.7 J
Property 044	ISM-AOI044-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	6.92	184	29.2	1.6 J	1.79 J	3.87	7.51	1.87 J	4.23 U
Property 045	ISM-AOI045-0.5	08/07/2017	0-0.5	ISM	Phase 2 OPP	5.04	139	20.9	1.16 J	1.57 J	3.18	6.24	1.46 J	3.06
Property 046	ISM-AOI046-0.5	06/14/2017	0-0.5	ISM	Phase 2 OPP	20.3	557	82.6	5.33	5.15	19.8	25.3	7.15	12.2
Property 046	AOI-046-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 2 OPP	1.64	44.5	6.73	0.445 J	0.379 U	1.56 J	2.18 J	0.63 J	0.909 J
Property 048	ISM-AOI048-0.5	08/07/2017	0-0.5	ISM	Phase 2 OPP	9.25	277	56.9	3.35	2.09 J	5.66	9.32	2.38 J	4.29
Property 049	ISM-AOI049-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	3.40	99.5	17.7	1.01 J	0.809 UJ	1.58 J	3.47	0.904 J	1.97
Property 051	ISM-AOI051-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	5.08	102	25.3	1.41 J	1.19 J	3.99	3.5	1.48 UJ	2.45
Property 052	ISM-AOI052-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	6.85	170	30	1.36 J	1.39 J	1.99 J	6.59	1.56 J	3.26
Property 054	ISM-AOI054-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	2.48	63.7	11.3	0.605 U	0.75 UJ	1.16 UJ	2.15 J	0.684 UJ	1.4 J
Property 056	ISM-AOI056-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	22.4	740	106	5.68	6.35	14.9	26.5	6.84	12 U
Property 056	AOI-056-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 2 OPP	3.28	78.8	10.9	0.808 J	1.21 J	2.04 J	4.05	1.14 J	2.21 J
Property 057	ISM-AOI057-0.5	06/14/2017	0-0.5	ISM	Phase 2 OPP	20.8	537	80	4.6	4.72	13.4	23.6	6.8	10.9
Property 057	AOI057-1.0-1.5	12/15/2023	1.0-1.5	Discrete	Phase 2 OPP	1.34	41.9 J	5.01 J	0.56 UJ	0.654 UJ	0.768 UJK	1.95 J	0.402 J	0.733 UJK
Property 059	ISM-AOI059-0.5	08/07/2017	0-0.5	ISM	Phase 2 OPP	46.3	1,750	244	14.2	11	19.7	67.8	11.5	24.1
Property 061	ISM-AOI061-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	22.2	835	104	7.09	4.09	9.75	22.3	4.81	8.28
Property 061	AOI-061-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 2 OPP	6.99	220	31.4	2.05 J	1.51 J	3.33 J	13.7	2.21 J	3.09

Table A-2
OPP Property Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington



Location	Sample Name	Collection Date	Collection Depth (feet 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)	1,2,3,7,8,9-HxCDD (ng/kg)
Property 062	ISM-AOI062-0.5	06/14/2017	0-0.5	ISM	Phase 2 OPP	13.6	366	59.6	3.99	3.89	9.07	16.9	4.01	8.92
Property 063	ISM-AOI063-0.5-1	06/14/2017	0-0.5	ISM Triplicate	Phase 2 OPP	4.27	103 J	19 J	1.14 J	1.07 J	2.39 J	4.52 J	1.2 J	2.32 J
Property 063	ISM-AOI063-0.5-2	06/14/2017	0-0.5	ISM Triplicate	Phase 2 OPP	11.1	295 J	61.3 J	3.87 J	2.79 J	7.4 J	12.7 J	3.85 J	6.06 J
Property 063	ISM-AOI063-0.5-3	06/14/2017	0-0.5	ISM Triplicate	Phase 2 OPP	7.71	145 J	32.8 J	2.11 J	1.83 J	5.07 J	7.04 J	3.24 J	3.87 J
Property 064	ISM-AOI064-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	11.2	187	35.1	2.47	1.73 UJ	4.56	6.74 U	2.7	2.98 U
Property 066	ISM-AOI066-0.5-1	03/09/2017	0-0.5	ISM Triplicate	Phase 2 OPP	17.0	595	80.1	5.5	4.97	7.5	17.4	6.39	12
Property 066	ISM-AOI066-0.5-2	03/09/2017	0-0.5	ISM Triplicate	Phase 2 OPP	44.7	1,600	243	15.8	13.8	23.4	44.4	11.4	30.6
Property 066	ISM-AOI066-0.5-3	03/09/2017	0-0.5	ISM Triplicate	Phase 2 OPP	20.7	777	108	7	6.51	8.98	21.1	6.37	14.1
Property 066	AOI-066-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 2 OPP	2.99	73.1	11.2	1.08 J	1.21 J	1.12 J	3.36	1.21 J	2.51
Property 067	ISM-AOI067-0.5	03/09/2017	0-0.5	ISM	Phase 2 OPP	2.07	63.6	8.88	0.533 J	0.581 J	1.14 J	2.51	0.613 J	1.46 J
Property 068	ISM-AOI068-0.5	05/23/2017	0-0.5	ISM	Phase 2 OPP	9.29	277	38.2	3.05	2.53	5.28	11.3	2.54	6.39
Property 071	ISM-AOI071-0.5	06/14/2017	0-0.5	ISM	Phase 2 OPP	11.2	320	45.2	2.65	2.78	8.31	15.1	3.6	6.55
Property 072	ISM-AOI072-0.5	03/09/2017	0-0.5	ISM	Phase 2 OPP	9.32	349	49.9	4.19	2.52	3.31	12.6	2.2 J	6.4
Property 073	ISM-AOI073-0.5	05/23/2017	0-0.5	ISM	Phase 2 OPP	12.5	361	48.2	2.57	3.15	8.19	15.6	3.84	7.61
Property 075	ISM-AOI075-0.5	05/23/2017	0-0.5	ISM	Phase 2 OPP	11.6	322	44.2	2.38 J	2.95 U	6.07	14.5	3.06	7.85
Property 076	ISM-AOI076-0.5	03/09/2017	0-0.5	ISM	Phase 2 OPP	9.53	256	42.9	2.3	2.33	5.5	10.3	3.2	5.81
Property 077	ISM-AOI077-0.5	03/09/2017	0-0.5	ISM	Phase 2 OPP	11.6	316	59.5	2.93	2.71	7.83	12.3	3.97	6.26
Property 078	ISM-AOI078-0.5	08/18/2017	0-0.5	ISM	Phase 2 OPP	21.1	552	73.9	3.91	7.02	8.27	29.5	5.65	17.7
Property 079	ISM-AOI079-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	40.8	827	111	6.4	12.6	13.6	45.5	10.8	27.8
Property 079	AOI079-1.0-1.5	12/15/2023	1.0-1.5	Discrete	Phase 3 OPP	23.0	482 J	58.1 J	3.38 J	8.53 J	8.89 J	34.3 J	5.18 J	18.4 J
Property 079	AOI-079-1.5-2.0	12/15/2023	1.5-2.0	Discrete	Phase 3 OPP	5.16	113 J	13.9 J	0.739 J	2.32 J	2.02 J	8.67 J	1.32 J	5.31 J
Property 080	ISM-AOI080-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	31.7	538	117	8.26	7.85	37.9	27.5	11.6	15.4
Property 081	ISM-AOI081-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	16.4	399	49.8	2.7 J	5.29	5.58	23.9	3.43 J	13.4
Property 081	AOI081-1.0-1.5	12/15/2023	1.0-1.5	Discrete	Phase 3 OPP	2.00	43.7 J	5.61 J	0.513 UJ	0.812 UJK	0.717 J	3.25 J	0.419 UJK	2.13 J
Property 082	ISM-AOI082-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	15.9	329	53.5	3.6 J	3.82 J	8.09	15.5	5.28	8.43
Property 083	ISM-AOI083-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	19.3	449	70.5	4.35 J	4.81 J	13.9	22.3	6.32	10.1
Property 083	AOI-083-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 3 OPP	14.1	244	49.2	2.62 J	3.74	6.18 J	14.7	3.86	7.85
Property 083	AOI-083-1.5-2.0	12/06/2023	1.5-2.0	Discrete	Phase 3 OPP	4.09	83.7 J	15.5 J	0.567 J	1.27 J	2.18 J	4.87 J	1.15 J	2.45 J
Property 084	ISM-AOI084-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	5.41	157	24.8	1.24 J	1.59 J	1.86 J	7.46	1.27 J	3.84 J
Property 085	ISM-AOI085-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	5.42	140	18.8	1.17 J	1.8 J	1.94 J	7.26	1.16 J	4.17 J
Property 086	ISM-AOI086-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	11.1	301	37	2.16 J	3.25 J	3.84 J	16.3	2.33 J	7.85
Property 087	ISM-AOI87-0.5	1/29/2020	0-0.5	ISM	Phase 3 OPP	14.1	311	50.8	2.53 J	4.48 J	5.02	15.9	3.67 J	9.36
Property 087	AOI-087-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 3 OPP	10.4	203 J	28.0 J	7.40 UJ	6.83 UJ	4.01 UJK	17.1 J	3.83 UJ	11.0 J
Property 088	ISM-AOI88-0.5	2/17/2020	0-0.5	ISM	Phase 3 OPP	9.9	204 J	59 J	7.63 J	2.94 UJ	18.3 J	8.91 J	3.81 J	4.26 UJ
Property 089	ISM-AOI89-0.5	1/29/2020	0-0.5	ISM	Phase 3 OPP	20.4	428	86.3	6.63	6.9	14.2	23.9	4.97	13.6
Property 089	AOI-089-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 3 OPP	19.2	597	46.8	2.41 J	6.74	5.68 J	35.2	3.54	13.5
Property 089	AOI-089-1.5-2.0	12/06/2023	1.5-2.0	Discrete	Phase 3 OPP	1.44	44.5 J	4.21 J	0.476 UJ	0.465 UJ	0.572 J	2.67 J	0.221 UJK	1.24 J

Table A-2
OPP Property Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington



Location	Sample Name	Collection Date	Collection Depth (feet bgs)	Sample Type	Area	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)	2,3,7,8-TCDF (ng/kg)	OCDD (ng/kg)	OCDF (ng/kg)
Property 001	COMP-AOI001-0.5	11/20/2015	0-0.5	Composite	Phase 1 OPP	0.615	11.8	4.53	9.61	5.48	1.09	1.43	2,130 J	349
Property 002	ISM-AOI002-0.5	11/20/2015	0-0.5	ISM	Phase 1 OPP	0.236 J	2.24	1.29	4.68	3.37	0.549	0.703	2,210	108
Property 002	SBS-AOI002-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	0.146 UJ	0.815 J	0.621 UJ	1.06 J	0.774 UJ	0.296 J	0.841 U	926	25.8
Property 003	ISM-AOI003-0.5	02/09/2016	0-0.5	ISM	Phase 1 OPP	0.135 J	2	0.847	2.65	1.64	3.71	1.33	1,760	66.3
Property 004	COMP-AOI004-0.5	07/28/2015	0-0.5	Composite	Phase 1 OPP	0.176 J	2.49 J	1.28 J	2.35 J	1.46 J	0.856 J	0.74 J	1,860	68.6
Property 004	ISM-AOI004-0.5	07/12/2017	0-0.5	ISM	Phase 1 OPP	0.618 U	4.13 J	1.78 J	2.75 J	2.85 J	0.762 J	1.67	2,740	112
Property 005	ISM-AOI005-0.5	04/16/2015	0-0.5	ISM	Phase 1 OPP	0.854 J	8.29	5.7	14	9.1	8.64	2.28	9,800	265
Property 005	SBS-AOI005-1.0	04/16/2015	0.5-1.0	Discrete	Phase 1 OPP	0.9 J	6.98	5.77	13.6	8.31	0.845	1.89	10,800	354
Property 005	SBS-AOI005-1.0-DUP	04/16/2015	0.5-1.0	Discrete Dup	Phase 1 OPP	1.14	7.94	6.96	15.3	10.8	1.12	2.65	11,800	372
Property 006	ISM-AOI006-0.5	04/16/2015	0-0.5	ISM	Phase 1 OPP	0.487 J	4	2.36	5.11	3.14	10.8	0.9 U	4,960	148
Property 006	SBS-AOI006-1.0	04/16/2015	0.5-1.0	Discrete	Phase 1 OPP	0.329 J	1.98	1.51	3.36	2.21	6.74	0.68 J	2,890	79.1
Property 007	ISM-AOI007-0.5	04/16/2015	0-0.5	ISM	Phase 1 OPP	1.12	4.25	6.39	12	10.2	0.317	1.98	11,800	207
Property 008	ISM-AOI008-0.5	05/21/2015	0-0.5	ISM	Phase 1 OPP	0.276 J	1.92	0.829 J	1.46	0.999 J	1.87	0.95 J	1,720	90.2
Property 009	ISM-AOI009-0.5	11/20/2015	0-0.5	ISM	Phase 1 OPP	0.118 J	0.627 J	0.414 J	1.05	0.814	1.12	0.404 J	841	62.2
Property 010	ISM-AOI010-0.5	12/02/2015	0-0.5	ISM	Phase 1 OPP	0.0691 J	0.396 J	0.236 J	0.67	0.371 J	0.359	0.636 J	1,410	42.1
Property 011	ISM-AOI011-0.5	04/16/2015	0-0.5	ISM	Phase 1 OPP	0.19 U	1.45	0.83 J	2.24	1.04	0.142 J	0.5 J	1,810	141
Property 012	ISM-AOI012-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	0.27 J	2.45	1.88	4.93	2.57	0.471 UJ	2.03	3,500	122
Property 013	ISM-AOI013-0.5-B	04/16/2015	0-0.5	ISM	Phase 1 OPP	0.833 J	6.25	5	9.39	6.27	0.964	2.67	8,790	288
Property 013	ISM-AOI013-0.5-F	04/16/2015	0-0.5	ISM	Phase 1 OPP	1.8	8.81	11	23.4	15.7	3.79	3.08	20,400	557
Property 014	ISM-AOI014-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	0.608 J	5.4	4.33	9.89	5.93	0.589	0.76 U	7,750	219
Property 015	ISM-AOI015-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	1	45.5	14.6	45.9	14.1	3.37	4.92	19,400	375
Property 016	ISM-AOI016-0.5	05/07/2015	0-0.5	ISM	Phase 1 OPP	0.462 J	5.87	3.56	7.48	5.06	0.485 J	1.61	5,390	166
Property 017	ISM-AOI017-0.5-A	04/23/2015	0-0.5	ISM Triplicate	Phase 1 OPP	0.47 J	7.15	3.52	8.15	4.32	3.37	1.48	7,020	290
Property 017	ISM-AOI017-0.5-B	04/23/2015	0-0.5	ISM Triplicate	Phase 1 OPP	0.273 UJ	4.39	2.4	6.01	3.14	2.77	0.95 J	5,060	172
Property 017	ISM-AOI017-0.5-C	04/23/2015	0-0.5	ISM Triplicate	Phase 1 OPP	0.327 J	6.84	3.34	7.47	4.54	4.13	2.4 U	6,960	230
Property 017	SBS-AOI017-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	1.78	2.47	2.26	3.14	2.33	1.22	0.51 U	863	31
Property 018	ISM-AOI018-0.5-B-A	04/16/2015	0-0.5	ISM Triplicate	Phase 1 OPP	0.25 J	2.14	1.28	3.17	1.72	0.324	0.84 U	1,990	87.6
Property 018	ISM-AOI018-0.5-B-B	04/16/2015	0-0.5	ISM Triplicate	Phase 1 OPP	0.229 U	2.32	1.4	2.78	1.73	0.326	1 U	2,480	107
Property 018	ISM-AOI018-0.5-B-C	04/16/2015	0-0.5	ISM Triplicate	Phase 1 OPP	0.207 J	2.05	1.04	2.41	1.31	0.255	0.66 J	2,070	84.6
Property 018	ISM-AOI018-0.5-F	04/16/2015	0-0.5	ISM	Phase 1 OPP	0.323 J	2.8	1.45	3.48	2.02	0.461	0.84 J	2,940	97.1
Property 018	SBS-AOI018-1.0	04/16/2015	0.5-1.0	Discrete	Phase 1 OPP	0.107 U	0.319 J	0.293 J	0.44 J	0.3 J	0.109 U	0.668 U	290	9.09
Property 019	ISM-AOI019-0.5	06/22/2015	0-0.5	ISM	Phase 1 OPP	0.304 J	3.27	2.18	4.57	3.23	2.69	1.25	2,540	67.4
Property 019	SBS-AOI019-1.5	03/25/2016	1.0-1.5	Discrete	Phase 1 OPP	0.337 U	1.69 J	2.29 J	5.81	3.9 J	0.262 J	1.4 U	5,350	155
Property 020B	ISM-AOI020B-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	0.268 J	3.26	2.1	5.52	2.98	1.54	1.34	3,800	187
Property 020B	SBS-AOI020B-1.0	04/30/2015	0-0.5	Discrete	Phase 1 OPP	0.056	0.496	0.377	0.92	0.554	0.272	0.32	745	33.8
Property 021	ISM-AOI021-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	0.103 U	0.478 J	0.233 J	0.556 J	0.313 J	0.116 U	0.13 U	946	34.8
Property 022	ISM-AOI022-0.5	12/02/2015	0-0.5	ISM	Phase 1 OPP	0.101 J	1.01	0.726	1.55	0.956	0.895	0.863	1,510	63.7
Property 023	ISM-AOI023-0.5	06/15/2016	0-0.5	ISM	Phase 1 OPP	0.191 J	2.51	1.44	2.94	2.27	0.662	0.97 J	3,520	133
Property 024	ISM-AOI024-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	0.208 J	2.09	1.53	7.04	3.21	0.501	1.93	2,600	138
Property 025	ISM-AOI025-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	0.234 J	2.86	1.56	3.69	2.05	0.695	1.44	2,740	122

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OPP Property Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington



Location	Sample Name	Collection Date	Collection Depth (feet bgs)	Sample Type	Area	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)	2,3,7,8-TCDF (ng/kg)	OCDD (ng/kg)	OCDF (ng/kg)
Property 026	ISM-AOI026-0.5	09/21/2015	0-0.5	ISM	Phase 1 OPP	0.135 U	1.61	1.05	1.95	1.15	0.29 U	0.85 J	1,900	71.6
Property 027	ISM-AOI027-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	0.137 J	1.58	0.763 J	2.2	1.03	0.488	0.64 J	2,050	73.9
Property 028A	ISM-AOI028A-0.5	12/02/2015	0-0.5	ISM	Phase 1 OPP	0.122 J	1.27	0.678 J	1.45	0.899 J	0.382	1.06	1,470	50.8
Property 028B	ISM-AOI028B-0.5	12/02/2015	0-0.5	ISM	Phase 1 OPP	0.247 J	2.32	1.44	3.76	2.13	0.859	1.25	2,190	168
Property 028B	SBS-AOI028B-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	0.339 UJ	1.22 J	1.43 J	3.42 J	2.36 J	0.266 J	0.71 J	3,050	99.3
Property 029A	ISM-AOI029A-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	0.249 J	2.79	1.55	3.35	1.96	0.359	1.14	3,050	75.4
Property 029B	ISM-AOI029B-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	0.322 J	5.24	2.48	5.96	3.48	0.713	0.79 U	5,080	208
Property 030	ISM-AOI030-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	0.465 U	1.2	0.581 U	2.29	1	0.625 U	0.45 J	1,800	72.3
Property 030	ISM-AOI030-0.5	05/21/2015	0-0.5	ISM Dup	Phase 1 OPP	0.165 U	2.15	0.926 J	1.69	1.2	0.265 J	0.699 J	1,720	74.4
Property 031	ISM-AOI031-0.5	04/16/2015	0-0.5	ISM	Phase 1 OPP	0.168 U	1.95	0.983 J	2.23	1.39	0.248	1.27	2,170	176
Property 032	ISM-AOI032-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	0.24 J	3.4	1.65	5.05	2.45	0.599	1.39	2,470	154
Property 032	SBS-AOI032-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	0.158 U	0.851 J	0.243 J	1.16	0.349 J	0.18 U	0.371 U	893	105
Property 034	ISM-AOI034-0.5	12/02/2015	0-0.5	ISM	Phase 1 OPP	0.13 J	1.58	1.04	2.94	1.71	1.02	1.25	1,330	62.6
Property 035	ISM-AOI035-0.5	12/23/2015	0-0.5	ISM	Phase 1 OPP	1.75	5.8	14.7	55.7	26.4	1.2	10.8	1,050	476
Property 036	ISM-AOI036-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	0.263 J	4.45	2.15	6.01	3.4	7.33	2.24	3,560	250
Property 037	ISM-AOI037-0.5	11/20/2015	0-0.5	ISM	Phase 1 OPP	0.205 J	1.95	1.24	3.16	1.97	3.63	0.99	2,460	145
Property 037	SBS-AOI037-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	0.165 J	0.245 J	0.216 J	0.236 J	0.225 J	0.202 U	0.258 J	126	7.62 J
Property 038	ISM-AOI038-0.5	05/29/2015	0-0.5	ISM	Phase 1 OPP	0.283 U	6.94	1.86	4.97	2.67	1.81	1.51	3,960	282
Property 039	ISM-AOI039-0.5	05/29/2015	0-0.5	ISM	Phase 1 OPP	0.231 U	2.71	1.33	3.11	2.43	2.45	1.34	2,580	140
Property 041A	ISM-AOI041A-0.5	05/04/2016	0-0.5	ISM	Phase 2 OPP	0.285 U	1.61 U	1.2 U	2.59	2.06 U	0.353	0.6 U	2,530	74.9
Property 041B	ISM-AOI041B-0.5	05/04/2016	0-0.5	ISM	Phase 2 OPP	3.31	10.9	31.1	56	55.6	0.563	9.1	38,200	752
Property 043	ISM-AOI043-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	2.19	3.15	1.35 UJ	7.46	8.23	0.469 U	0.971	2,110	51.3
Property 043	AOI-043-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 2 OPP	7.24 J	11.7 J	4.36 UJK	21.1 J	30.4 J	2.07 UJK	2.27 UJ	6,280 J	152 J
Property 043	AOI-043-1.5-2.0	12/06/2023	1.5-2.0	Discrete	Phase 2 OPP	1.45 J	6.33 J	3.05 J	5.93 J	17.3 J	0.998 J	1.72 J	3,640 J	75.3 J
Property 044	ISM-AOI044-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	1.18 J	1.36 UJ	0.927 UJ	2.44	1.94 J	0.998	0.713 U	1,240	47.5
Property 045	ISM-AOI045-0.5	08/07/2017	0-0.5	ISM	Phase 2 OPP	0.816 J	0.849 UJ	0.668 UJ	2.05 J	1.82 J	0.483 U	0.756	962	27
Property 046	ISM-AOI046-0.5	06/14/2017	0-0.5	ISM	Phase 2 OPP	4.59	2.09 J	2.3 J	7.81	7.16	0.326 UJ	0.806	3,530	78.9
Property 046	AOI-046-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 2 OPP	0.245 UJK	0.339 U	0.325 J	0.651 J	0.850 UJK	0.128 U	0.209 J	353	5.07 J
Property 048	ISM-AOI048-0.5	08/07/2017	0-0.5	ISM	Phase 2 OPP	1.37 UJ	1.36 J	0.945 J	3.53	2.57	0.453 UJ	0.816	1,910	133
Property 049	ISM-AOI049-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	0.446 J	0.505 J	0.46 UJ	1.08 J	0.894 J	0.193 J	0.383 U	784	26.8
Property 051	ISM-AOI051-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	0.984 J	0.587 U	0.587 UJ	1.64 J	1.79 J	1.23	0.539 U	796	41.7
Property 052	ISM-AOI052-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	0.608 J	0.905 J	0.585 UJ	2.19 J	1.78 J	1.21	0.599	1,160	55.8
Property 054	ISM-AOI054-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	0.539 U	0.625 J	0.288 U	0.739 UJ	0.718 J	0.27 U	0.444 J	503	25.7
Property 056	ISM-AOI056-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	3.44	3.16	1.92 J	8.57	5.51	0.472 U	0.934	4,640 J	108
Property 056	AOI-056-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 2 OPP	0.253 J	0.649 J	0.522 J	0.427 J	1.04 J	0.207 U	0.216 U	492	9.48 J
Property 057	ISM-AOI057-0.5	06/14/2017	0-0.5	ISM	Phase 2 OPP	3.57	2.25 J	2.32 J	9.01	9.57	0.946	1.43	3,650	101
Property 057	AOI057-1.0-1.5	12/15/2023	1.0-1.5	Discrete	Phase 2 OPP	0.702 UJ	0.467 UJK	0.270 UJK	0.330 UJK	0.184 UJK	0.138 UJ	0.174 UJ	411 J	9.67 J
Property 059	ISM-AOI059-0.5	08/07/2017	0-0.5	ISM	Phase 2 OPP	5.74	5.27	2.6	13.8	5.52	0.532 U	0.823	11,400 J	400
Property 061	ISM-AOI061-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	3.53	2.04 J	1.8 J	5.97	3.75	0.472 U	1.1 U	10,700 J	378
Property 061	AOI-061-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 2 OPP	0.822 UJK	0.84 J	0.814 J	2.4 J	1.6 J	0.192 U	0.153 U	1,130	27 J

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Former PWT Site
Ridgefield, Washington



Location	Sample Name	Collection Date	Collection Depth (feet bgs)	Sample Type	Area	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)	2,3,7,8-TCDF (ng/kg)	OCDD (ng/kg)	OCDF (ng/kg)
Property 062	ISM-AOI062-0.5	06/14/2017	0-0.5	ISM	Phase 2 OPP	2.11 J	2.03 J	1.49 J	4.92	4.31	0.267 UJ	0.954 U	2,560	135
Property 063	ISM-AOI063-0.5-1	06/14/2017	0-0.5	ISM Triplicate	Phase 2 OPP	0.704 J	0.554 J	0.449 UJ	1.74 J	2.03 J	0.362 UJ	0.659 J	712 J	35.8 J
Property 063	ISM-AOI063-0.5-2	06/14/2017	0-0.5	ISM Triplicate	Phase 2 OPP	1.88 J	1.24 J	1.04 J	5.01 J	4.51 J	0.307 UJ	0.726 J	2,210 J	137 J
Property 063	ISM-AOI063-0.5-3	06/14/2017	0-0.5	ISM Triplicate	Phase 2 OPP	1.54 J	1.07 J	1.49 J	5.4 J	4.78 J	0.282 UJ	1.26 J	944 J	48.8 J
Property 064	ISM-AOI064-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	1.5 J	1.01 J	0.813 UJ	4.92	6.74	3.42	0.595	1,450	72.7
Property 066	ISM-AOI066-0.5-1	03/09/2017	0-0.5	ISM Triplicate	Phase 2 OPP	1.83 J	2.16 J	2.15 J	6.05	2.75	0.28 J	0.834	3,880 J	118
Property 066	ISM-AOI066-0.5-2	03/09/2017	0-0.5	ISM Triplicate	Phase 2 OPP	6.01	5.59	4.24	11.3	5.84	0.536	1.31	12,500 J	339
Property 066	ISM-AOI066-0.5-3	03/09/2017	0-0.5	ISM Triplicate	Phase 2 OPP	2.32 J	2.67	1.8 J	6.33	2.54	0.263 UJ	0.531 U	5,200 J	167
Property 066	AOI-066-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 2 OPP	0.428 UJ	0.762 J	0.429 J	0.712 J	0.483 UJK	0.212 U	0.173 U	469	15.7 J
Property 067	ISM-AOI067-0.5	03/09/2017	0-0.5	ISM	Phase 2 OPP	0.379 J	0.325 UJ	0.376 UJ	0.832 J	0.693 J	0.111 UJ	0.216 UJ	473	12.3
Property 068	ISM-AOI068-0.5	05/23/2017	0-0.5	ISM	Phase 2 OPP	1.39 J	1.34 J	1.1 J	3.14	2.16 J	0.255 J	0.612 U	1,750	68.1
Property 071	ISM-AOI071-0.5	06/14/2017	0-0.5	ISM	Phase 2 OPP	2.06 J	1.29 J	1.43 J	4.61	3.61	0.245 UJ	0.854	2,060	47.1
Property 072	ISM-AOI072-0.5	03/09/2017	0-0.5	ISM	Phase 2 OPP	0.948 J	1.37 UJ	0.676 UJ	2.75	1.38 J	0.302 J	0.383 UJ	2,470	160
Property 073	ISM-AOI073-0.5	05/23/2017	0-0.5	ISM	Phase 2 OPP	2.16 J	1.4 J	1.36 J	4.58	3.56	0.625	0.917	2,240	49.8
Property 075	ISM-AOI075-0.5	05/23/2017	0-0.5	ISM	Phase 2 OPP	1.82 J	1.7 J	1.52 UJ	4.2	3.45	1.2 U	1.07	1,800	47.4
Property 076	ISM-AOI076-0.5	03/09/2017	0-0.5	ISM	Phase 2 OPP	1.26 J	1.6 J	1.62 J	3.67	3	0.311 UJ	1.35	1,520	60.6
Property 077	ISM-AOI077-0.5	03/09/2017	0-0.5	ISM	Phase 2 OPP	1.97 J	1.47 J	1.46 J	5.5	4.42	0.304 J	1	1,740	49.4
Property 078	ISM-AOI078-0.5	08/18/2017	0-0.5	ISM	Phase 2 OPP	2.6	4.08	2.46 J	6.73	4.51	0.768 U	2.94 U	3,140	88.2
Property 079	ISM-AOI079-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	5.08	7.7	3.35 J	19	24.8	0.918 J	2.9	4,700 J	181
Property 079	AOI079-1.0-1.5	12/15/2023	1.0-1.5	Discrete	Phase 3 OPP	1.98 J	5.41 J	2.17 J	5.59 J	6.94 J	0.698 J	1.33 J	2,750 J	56.5 J
Property 079	AOI-079-1.5-2.0	12/15/2023	1.5-2.0	Discrete	Phase 3 OPP	0.339 UJK	1.35 J	0.619 J	0.79 J	0.696 UJK	0.200 UJK	0.532 J	640 J	14.6 J
Property 080	ISM-AOI080-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	8.18	4.78 J	3.99 J	13	16.5	1.57	3.38	3,690	104
Property 081	ISM-AOI081-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	1.81 J	4.14 J	1.57 J	4.85	2.84 J	0.316 J	1.11 U	2,150	63.2
Property 081	AOI081-1.0-1.5	12/15/2023	1.0-1.5	Discrete	Phase 3 OPP	0.561 UJ	0.496 J	0.226 UJK	0.771 J	0.428 UJK	0.141 UJ	0.243 UJ	262 J	7.40 J
Property 082	ISM-AOI082-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	2.71 J	2.81 J	2.91 J	7.22	7.8	0.672 J	2.79	2,230	90.1
Property 083	ISM-AOI083-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	3.57 J	3.08 J	2.92 J	7.88	8.22	0.398 J	2.5	2,860	70.5
Property 083	AOI-083-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 3 OPP	0.507 J	3.54	2.63	2.43 J	6.08	0.911	2.84	1,760	69.6 J
Property 083	AOI-083-1.5-2.0	12/06/2023	1.5-2.0	Discrete	Phase 3 OPP	0.412 J	1.14 J	0.715 J	1.13 J	1.27 UJK	0.312 UJK	1.28 UJK	570 J	24.9 J
Property 084	ISM-AOI084-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	0.667 J	0.892 J	0.675 J	1.78 J	1.15 J	0.144 UJ	0.64 UJ	951	34.7
Property 085	ISM-AOI085-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	0.653 J	1.15 J	0.738 J	1.63 J	1.2 J	0.125 UJ	0.659 UJ	856	34.6
Property 086	ISM-AOI086-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	1.34 J	2.32 J	1.2 J	3.15 J	2.4 J	0.255 J	1.14 U	1,780	58.4
Property 087	ISM-AOI87-0.5	1/29/2020	0-0.5	ISM	Phase 3 OPP	1.53 UJ	2.71 J	1.22 UJ	5.59	7.29	0.4 J	0.885 UJ	2,000	60.7
Property 087	AOI-087-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 3 OPP	6.14 UJ	3.69 UJ	1.88 UJ	6.32 J	3.47 UJK	1.46 UJ	1.45 UJ	1,200 J	28.3 J
Property 088	ISM-AOI88-0.5	2/17/2020	0-0.5	ISM	Phase 3 OPP	2.89 J	1.03 J	0.592 UJ	5.11 J	3.3 J	0.321 UJ	0.467 UJ	2,320 J	69.7 J
Property 089	ISM-AOI89-0.5	1/29/2020	0-0.5	ISM	Phase 3 OPP	3.39 J	3.77 J	1.94 J	6.73	5.67	1.18	1.58	3,110	133
Property 089	AOI-089-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 3 OPP	1.44 J	3.19	1.95 J	1.61 J	3.98	0.303 UJK	0.919	4,280	30.8 J
Property 089	AOI-089-1.5-2.0	12/06/2023	1.5-2.0	Discrete	Phase 3 OPP	0.399 UJ	0.371 UJK	0.230 UJ	0.225 UJK	0.425 UJK	0.155 UJ	0.136 UJ	323 J	3.51 J

Table A-2
OPP Property Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington



Location	Sample Name	Collection Date	Collection Depth (feet bgs)	Sample Type	Area	Total HpCDDs (ng/kg)	Total HpCDFs (ng/kg)	Total HxCDDs (ng/kg)	Total HxCDFs (ng/kg)	Total PeCDDs (ng/kg)	Total PeCDFs (ng/kg)	Total TCDDs (ng/kg)	Total TCDFs (ng/kg)	Total Organic Carbon (mg/kg)
Property 001	COMP-AOI001-0.5	11/20/2015	0-0.5	Composite	Phase 1 OPP	1,830	644	451	402	44.6	122	11.6	28.8	18,000
Property 002	ISM-AOI002-0.5	11/20/2015	0-0.5	ISM	Phase 1 OPP	541	295	100	141	10.1	65.5	6.82	23.2	18,000
Property 002	SBS-AOI002-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	278	49.1	39.3	36.2	3.49 J	17.2	1.73	7.38	7,900
Property 003	ISM-AOI003-0.5	02/09/2016	0-0.5	ISM	Phase 1 OPP	569	121	90	88.6	10.3	23.5	5.63	6.44	17,000
Property 004	COMP-AOI004-0.5	07/28/2015	0-0.5	Composite	Phase 1 OPP	537	109	98.4	76.8	13.1	13	3.27	10.3	21,000
Property 004	ISM-AOI004-0.5	07/12/2017	0-0.5	ISM	Phase 1 OPP	767	156	134	124	24.1 U	60.5	7.69	50 U	28,000
Property 005	ISM-AOI005-0.5	04/16/2015	0-0.5	ISM	Phase 1 OPP	3,020	649	429	537	42.5	150	23.5	56.2	17,000
Property 005	SBS-AOI005-1.0	04/16/2015	0.5-1.0	Discrete	Phase 1 OPP	3,150	792	408	579	30.8	127	7.57	32.4	13,000
Property 005	SBS-AOI005-1.0-DUP	04/16/2015	0.5-1.0	Discrete Dup	Phase 1 OPP	3,770	869	470	651	36.2	147	9.59	44	12,000
Property 006	ISM-AOI006-0.5	04/16/2015	0-0.5	ISM	Phase 1 OPP	1,520	326	214	218	16.8	35.6	13.5	9.18	17,000
Property 006	SBS-AOI006-1.0	04/16/2015	0.5-1.0	Discrete	Phase 1 OPP	936	198	122	144	10.2	23	8.29	5.4	10,000
Property 007	ISM-AOI007-0.5	04/16/2015	0-0.5	ISM	Phase 1 OPP	2,770	657	311	601	16.8	142	2.33	15.5	21,000
Property 008	ISM-AOI008-0.5	05/21/2015	0-0.5	ISM	Phase 1 OPP	468	132	67.7	50.7	9.15	9.77	4.37	6.97	19,000
Property 009	ISM-AOI009-0.5	11/20/2015	0-0.5	ISM	Phase 1 OPP	216	81.1	31.1	46	4.06	12.9	2.82	5.27	14,000
Property 010	ISM-AOI010-0.5	12/02/2015	0-0.5	ISM	Phase 1 OPP	284	53	29.2	23.5	2.03	7.72	1.48	3.14	16,000
Property 011	ISM-AOI011-0.5	04/16/2015	0-0.5	ISM	Phase 1 OPP	549	207	76.8	90.1	7.37	14.7	1.37	5.74	13,000
Property 012	ISM-AOI012-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	906	231	135	160	14.5	57.6	3.61	16.1	17,000
Property 013	ISM-AOI013-0.5-B	04/16/2015	0-0.5	ISM	Phase 1 OPP	2,480	541	349	374	38.9	70.7	16.5	32.5	17,000
Property 013	ISM-AOI013-0.5-F	04/16/2015	0-0.5	ISM	Phase 1 OPP	6,120	1,350	641	1,070	38.4	208	8.76	24.6	16,000
Property 014	ISM-AOI014-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	2,180	284	276	360	29.8	102	6.26	17.9	16,000
Property 015	ISM-AOI015-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	7,470	1,080	2,090	1,060	301	365	28	43.4	18,000
Property 016	ISM-AOI016-0.5	05/07/2015	0-0.5	ISM	Phase 1 OPP	1,700	362	262	311	35.6	118	7.4	23.8	21,000
Property 017	ISM-AOI017-0.5-A	04/23/2015	0-0.5	ISM Triplicate	Phase 1 OPP	1,920	532	329	306	34.2	77	9.97	18	17,000
Property 017	ISM-AOI017-0.5-B	04/23/2015	0-0.5	ISM Triplicate	Phase 1 OPP	1,410	329	209	214	23.3	57.2	6.09	12.4	16,000
Property 017	ISM-AOI017-0.5-C	04/23/2015	0-0.5	ISM Triplicate	Phase 1 OPP	1,850	452	283	291	38	80	10.3	17.2	17,000
Property 017	SBS-AOI017-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	292	68.6	45.9	53.9	3.72	13.3	3.34	3.53	11,000
Property 018	ISM-AOI018-0.5-B-A	04/16/2015	0-0.5	ISM Triplicate	Phase 1 OPP	636	213	112	110	14.6	24.5	4.54	11.7	16,000
Property 018	ISM-AOI018-0.5-B-B	04/16/2015	0-0.5	ISM Triplicate	Phase 1 OPP	753	186	119	96.4	13.8	19.4	3.97	12.6	17,000
Property 018	ISM-AOI018-0.5-B-C	04/16/2015	0-0.5	ISM Triplicate	Phase 1 OPP	648	160	109	89.5	12.5	16.6	2.76	6.94	17,000
Property 018	ISM-AOI018-0.5-F	04/16/2015	0-0.5	ISM	Phase 1 OPP	933	196	143	140	15.2	42.7	4.43	13.1	19,000
Property 018	SBS-AOI018-1.0	04/16/2015	0.5-1.0	Discrete	Phase 1 OPP	92.6	21.7	14	13.3	1.06	2.8	0.641	3.33	7,500
Property 019	ISM-AOI019-0.5	06/22/2015	0-0.5	ISM	Phase 1 OPP	866	206	141	188	16.1	62.1	7.32	20.4	19,000
Property 019	SBS-AOI019-1.5	03/25/2016	1.0-1.5	Discrete	Phase 1 OPP	1,370	261	163	231	8.49	81.1	2.47	20.6	11,000
Property 020B	ISM-AOI020B-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	1,240	306	181	175	16	27	4.14	7.91	22,000
Property 020B	SBS-AOI020B-1.0	04/30/2015	0-0.5	Discrete	Phase 1 OPP	173	47.8	21.6	15.6	1.47	3.22	0.569	1.67	15,000
Property 021	ISM-AOI021-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	195	48	21.8	14.3	1.6	1.69	0.159 J	0.24	11,000
Property 022	ISM-AOI022-0.5	12/02/2015	0-0.5	ISM	Phase 1 OPP	437	91.8	56.6	58.5	5.09	19.3	2.55	6.99	14,000
Property 023	ISM-AOI023-0.5	06/15/2016	0-0.5	ISM	Phase 1 OPP	993	241	152	121	13.2	16.1	3.83	6.57	18,000
Property 024	ISM-AOI024-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	680	212	90.6	161	12.7	91.2	2.15	41.4	22,000
Property 025	ISM-AOI025-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	764	193	132	101	16.2	22.4	2.98	9.35	15,000

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Property 026	ISM-AOI026-0.5	09/21/2015	0-0.5	ISM	Phase 1 OPP	453	98.2	71.2	60.2	8.84	9.72	1.03	4.87	16,000
Property 027	ISM-AOI027-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	523	116	76.8	54.6	8.27	8.3	1.16	4.1	20,000
Property 028A	ISM-AOI028A-0.5	12/02/2015	0-0.5	ISM	Phase 1 OPP	404	82.1	58.2	46.7	7.14	14.6	2.77	7.4	15,000
Property 028B	ISM-AOI028B-0.5	12/02/2015	0-0.5	ISM	Phase 1 OPP	744	235	119	132	15	81	7.19	30.7	19,000
Property 028B	SBS-AOI028B-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	862	150	99.9	129	6.36	45.1	2.22	12.6	17,000
Property 029A	ISM-AOI029A-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	678	152	97.5	49	7.82	9.05	1.66	3.82	22,000
Property 029B	ISM-AOI029B-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	1,390	329	214	179	34.4	57.7	10.5	18.6	13,000
Property 030	ISM-AOI030-0.5	04/30/2015	0-0.5	ISM	Phase 1 OPP	541	121	79.5	61.2	5.41	8.14	0.625 U	1.69	17,000
Property 030	ISM-AOI030-0.5	05/21/2015	0-0.5	ISM Dup	Phase 1 OPP	571	120	92.6	61.3	11.7	11.9	2.37	5.63	19,000
Property 031	ISM-AOI031-0.5	04/16/2015	0-0.5	ISM	Phase 1 OPP	661	196	96.1	83.5	10.4	19.3	4.03	11.9	16,000
Property 032	ISM-AOI032-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	659	201	114	125	28.8	69.3	12.3	23.5	15,000
Property 032	SBS-AOI032-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	285	110	39.1	41.6	3.36	12.2	0.769	4.53	12,000
Property 034	ISM-AOI034-0.5	12/02/2015	0-0.5	ISM	Phase 1 OPP	393	95.4	64	60.4	8.02	28.8	7.58	23.3	19,000
Property 035	ISM-AOI035-0.5	12/23/2015	0-0.5	ISM	Phase 1 OPP	692	639	141	272	41.5	160	4.76	64.2	17,000
Property 036	ISM-AOI036-0.5	04/23/2015	0-0.5	ISM	Phase 1 OPP	951	323	189	165	35.5	67.5	22.1	31.3	13,000
Property 037	ISM-AOI037-0.5	11/20/2015	0-0.5	ISM	Phase 1 OPP	717	211	103	121	13.5	45.1	10.1	16.2	23,000
Property 037	SBS-AOI037-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	31.9	5.47	5.97	5.18	0.35 J	2.21 J	0.465 J	0.749 J	10,000
Property 038	ISM-AOI038-0.5	05/29/2015	0-0.5	ISM	Phase 1 OPP	1,280	359	260	156	34.4	27.1	8.14	13.5	20,000
Property 039	ISM-AOI039-0.5	05/29/2015	0-0.5	ISM	Phase 1 OPP	716	284	103	143	16.1	24.7	7.12	14.5	26,000
Property 041A	ISM-AOI041A-0.5	05/04/2016	0-0.5	ISM	Phase 2 OPP	734	145	98.7	107	9.1	32.2	2.05	8.72	13,000
Property 041B	ISM-AOI041B-0.5	05/04/2016	0-0.5	ISM	Phase 2 OPP	9,810	2,880	1,220	3,020	43.9	695	4.72	52.4	16,000
Property 043	ISM-AOI043-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	614	137	90.3	138 UJ	17.1	154 UJ	4.61 U	38.8 UJ	18,000
Property 043	AOI-043-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 2 OPP	1,700 J	357 J	320 J	439 J	56.1 JK	380 JK	13.1 UJK	103 UJK	--
Property 043	AOI-043-1.5-2.0	12/06/2023	1.5-2.0	Discrete	Phase 2 OPP	1,020 J	234 J	211 J	325 J	47.4 JK	310 JK	12.9 JK	95.7 JK	--
Property 044	ISM-AOI044-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	334	85.4	48 U	52.1	10.1 U	30.5 U	3.69 U	10.5 U	23,000
Property 045	ISM-AOI045-0.5	08/07/2017	0-0.5	ISM	Phase 2 OPP	243	54.8 U	37.6 U	40.3 U	8.72 U	18.1 U	3.49	5.36 U	18,000
Property 046	ISM-AOI046-0.5	06/14/2017	0-0.5	ISM	Phase 2 OPP	943	225 U	119	183 U	11.8 U	55.3 U	2.91 U	9.5 U	18,000
Property 046	AOI-046-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 2 OPP	75.8	16.9	10.6 K	18.8 K	0.431 UJK	7.19 K	0.128 U	1.87 K	--
Property 048	ISM-AOI048-0.5	08/07/2017	0-0.5	ISM	Phase 2 OPP	480	194	55.1 U	84.4 U	8.84	29 U	3.48 U	7.79 U	19,000
Property 049	ISM-AOI049-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	191	48.8	23.2 U	23.2 U	4.38	13.7 U	1.76 U	4.21 U	18,000
Property 051	ISM-AOI051-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	180	72	26.2	39.5 U	4.23 J	22.9 U	2.69 U	5.16 U	24,000
Property 052	ISM-AOI052-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	299	86.7 U	38.6	45.6	7.66 U	24.7 U	3.55 U	7.95 U	21,000
Property 054	ISM-AOI054-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	114	31.4	17 U	13.8 U	4.51 U	9.02	2.22 U	4.25 U	18,000
Property 056	ISM-AOI056-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	1,280	294 U	137 U	197	16.7 U	83.1	3.42 U	12 U	22,000
Property 056	AOI-056-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 2 OPP	134	27.5	23.4 K	26.9 K	2.59	9.05 K	0.313 UJK	1.53	--
Property 057	ISM-AOI057-0.5	06/14/2017	0-0.5	ISM	Phase 2 OPP	919	208	115	178 J	15.4	107 J	6.66 U	36 J	25,000
Property 057	AOI057-1.0-1.5	12/15/2023	1.0-1.5	Discrete	Phase 2 OPP	71.9 J	14.8 J	10.2 JK	12.0 JK	2.23 UJK	5.48 UJK	0.522 UJK	1.20 UJK	--
Property 059	ISM-AOI059-0.5	08/07/2017	0-0.5	ISM	Phase 2 OPP	2,750 J	704 U	278	387 U	23.8 U	78.9 U	4.89 U	7.53 U	16,000
Property 061	ISM-AOI061-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	1,410	410	95.4	180	11.3 U	54.1 U	2.12 U	5.25 U	18,000
Property 061	AOI-061-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 2 OPP	344	89.1	49.9	74.2 K	4.72 JK	16.0 K	0.257 UJK	2.73	--

Table A-2
OPP Property Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington



Location	Sample Name	Collection Date	Collection Depth (feet bgs)	Sample Type	Area	Total HpCDDs (ng/kg)	Total HpCDFs (ng/kg)	Total HxCDDs (ng/kg)	Total HxCDFs (ng/kg)	Total PeCDDs (ng/kg)	Total PeCDFs (ng/kg)	Total TCDDs (ng/kg)	Total TCDFs (ng/kg)	Total Organic Carbon (mg/kg)
Property 062	ISM-AOI062-0.5	06/14/2017	0-0.5	ISM	Phase 2 OPP	612	174	84.6	106 U	11.4 U	43.3 U	3.17 U	11.2 U	28,000
Property 063	ISM-AOI063-0.5-1	06/14/2017	0-0.5	ISM Triplicate	Phase 2 OPP	179 J	55.2 J	27.2 UJ	35.7 UJ	4.9 UJ	20.7 UJ	1.78 J	9.87 UJ	19,000
Property 063	ISM-AOI063-0.5-2	06/14/2017	0-0.5	ISM Triplicate	Phase 2 OPP	487 J	209 UJ	61.6 J	118 UJ	7.99 UJ	52 UJ	2.89 UJ	13.2 UJ	20,000
Property 063	ISM-AOI063-0.5-3	06/14/2017	0-0.5	ISM Triplicate	Phase 2 OPP	242 J	85 J	43.9 J	69.7 J	11.8 UJ	51.6 UJ	7.16 UJ	31.8 UJ	18,000
Property 064	ISM-AOI064-0.5	03/08/2017	0-0.5	ISM	Phase 2 OPP	325	116	37.4 U	89.1 UJ	7.6	109 UJ	5.82 U	22.8 UJ	19,000
Property 066	ISM-AOI066-0.5-1	03/09/2017	0-0.5	ISM Triplicate	Phase 2 OPP	947	203	106	112 U	16.8 U	44.1	4.73 U	13.7 U	20,000
Property 066	ISM-AOI066-0.5-2	03/09/2017	0-0.5	ISM Triplicate	Phase 2 OPP	2,540 J	674	231	307 U	25.2	78.4 U	8.2 U	20.6 U	20,000
Property 066	ISM-AOI066-0.5-3	03/09/2017	0-0.5	ISM Triplicate	Phase 2 OPP	1,220	279 U	124	134 U	14 U	40.5	1.87 U	5.99 U	24,000
Property 066	AOI-066-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 2 OPP	117	27.8	22.9	19.5 K	3.13	7.05 K	0.212 U	1.02 UK	--
Property 067	ISM-AOI067-0.5	03/09/2017	0-0.5	ISM	Phase 2 OPP	111	24.5	17 U	16.9 U	2.98 UJ	8.47 U	1.13 U	2.31 U	14,000
Property 068	ISM-AOI068-0.5	05/23/2017	0-0.5	ISM	Phase 2 OPP	467	107 U	58.1	63.6 U	7.9 U	24.8	2.19 U	5.96 U	19,000
Property 071	ISM-AOI071-0.5	06/14/2017	0-0.5	ISM	Phase 2 OPP	532	116	66.4 U	100	7.06 U	37.3 U	2.28 U	8.8 U	21,000
Property 072	ISM-AOI072-0.5	03/09/2017	0-0.5	ISM	Phase 2 OPP	627	165	74.3	62.5	10.1 U	23.3 U	2.37 U	8.11 U	16,000
Property 073	ISM-AOI073-0.5	05/23/2017	0-0.5	ISM	Phase 2 OPP	616	122	77.7 U	99.9	13.1 U	36.2	8.03 U	8.53 U	17,000
Property 075	ISM-AOI075-0.5	05/23/2017	0-0.5	ISM	Phase 2 OPP	537	113	75.2 U	83.5	13.3 U	36.8 U	9.02 U	14.3 U	19,000
Property 076	ISM-AOI076-0.5	03/09/2017	0-0.5	ISM	Phase 2 OPP	439	113	59.3 U	75.6 U	14.2	38.1 U	6.53 U	19.3 U	23,000
Property 077	ISM-AOI077-0.5	03/09/2017	0-0.5	ISM	Phase 2 OPP	536	139	70.8 U	103	12.5 U	60.1 U	3.77 U	17.7 U	19,000
Property 078	ISM-AOI078-0.5	08/18/2017	0-0.5	ISM	Phase 2 OPP	921	184	152	131	26.5 U	57.6	8.73	40.5 U	23,000
Property 079	ISM-AOI079-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	1,570	307 J	271 J	319 J	53 J	465 UJ	15.6 UJ	112 J	28,000
Property 079	AOI079-1.0-1.5	12/15/2023	1.0-1.5	Discrete	Phase 3 OPP	821 J	155 J	167 JK	149 JK	25.7 JK	66.0 JK	5.42 JK	21.7 JK	--
Property 079	AOI-079-1.5-2.0	12/15/2023	1.5-2.0	Discrete	Phase 3 OPP	200 J	37.9 J	46.6 J	39.7 JK	7.89 JK	25.8 JK	1.89 UJK	8.30 JK	--
Property 080	ISM-AOI080-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	1,060	309 J	175 J	277 J	40.7 J	162 UJ	18.2 UJ	62.3 UJ	30,000
Property 081	ISM-AOI081-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	718	138 J	119 J	105 J	17.6 UJ	52 UJ	4.14 UJ	11.8 UJ	30,000
Property 081	AOI081-1.0-1.5	12/15/2023	1.0-1.5	Discrete	Phase 3 OPP	75.6 J	14.7 J	17.8 JK	12.6 UJK	2.08 JK	4.94 UJK	1.34 J	2.31 UJK	--
Property 082	ISM-AOI082-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	649	152 J	96 J	124 J	23 J	111 UJ	11.5 UJ	55.7 UJ	27,000
Property 083	ISM-AOI083-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	894	188 J	118 J	170 UJ	19.3 J	104 UJ	7.27 UJ	36.7 UJ	35,000
Property 083	AOI-083-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 3 OPP	453	129	102	93.8	36.9 K	64.4 K	22.4 K	60.7 K	--
Property 083	AOI-083-1.5-2.0	12/06/2023	1.5-2.0	Discrete	Phase 3 OPP	159 J	42.9 J	38.4 J	33.4 JK	13.6 JK	26.5 JK	6.72 UJK	25.0 UJK	--
Property 084	ISM-AOI084-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	291	65.1 J	39.6 J	43.4 UJ	5.86 UJ	22.5 UJ	1.67 UJ	5.52 UJ	16,000
Property 085	ISM-AOI085-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	252	54.6 J	38.9 J	34.7 UJ	6.48 UJ	19.2 UJ	2.51 UJ	7.59 UJ	25,000
Property 086	ISM-AOI086-0.5	8/13/2019	0-0.5	ISM	Phase 3 OPP	543	104 J	77.1 J	72.3 UJ	11.8 J	40.2 UJ	4.6 UJ	11.2 UJ	25,000
Property 087	ISM-AOI87-0.5	1/29/2020	0-0.5	ISM	Phase 3 OPP	564	131 J	91.1 J	110 J	16.6 J	99.6 J	5.22 J	26.5 UJ	21,000
Property 087	AOI-087-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 3 OPP	344 J	67.2 J	76.5 J	64.6 JK	3.69 UJ	35.3 UJK	1.46 UJ	6.93 UJK	--
Property 088	ISM-AOI88-0.5	2/17/2020	0-0.5	ISM	Phase 3 OPP	368 J	206 J	50.9 J	126 J	6.65 J	31.8 J	1.43 UJ	4.7 UJ	25,000
Property 089	ISM-AOI89-0.5	1/29/2020	0-0.5	ISM	Phase 3 OPP	755	268 J	130 J	159 J	26 J	60.6 J	9.2 J	21.9 J	27,000
Property 089	AOI-089-1.0-1.5	12/06/2023	1.0-1.5	Discrete	Phase 3 OPP	998	129	145	121 K	17.4 K	36.0 K	4.98 UK	16.1 K	--
Property 089	AOI-089-1.5-2.0	12/06/2023	1.5-2.0	Discrete	Phase 3 OPP	80.6 J	11.5 J	13.2 J	10.5 JK	2.01 UJK	4.39 UJK	0.511 UJK	1.62 UJK	--

Table A-2
OPP Property Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington



Notes Bold indicates values that exceed the Model Toxics Control Act Method B Soil cleanup level of 13.0 ng/kg. bgs = below ground surface. Dup = duplicate sample. ISM = incremental sampling methodology. J = result is estimated. JK = result is estimated and an estimated maximum potential concentration. mg/kg = milligrams per kilogram. ng/kg = nanograms per kilogram. OPP = off-property portion. PWT = Pacific Wood Treating Co. TEQ = toxicity equivalent. U = result is non-detect. UJ = result is non-detect with an estimated detection limit. UJK = result is non-detect, an estimated value, and an estimated maximum potential concentration. ^(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. 2023. <i>Cleanup Levels and Risk Calculation (CLARC) table</i> . Washington State Department of Ecology, Toxics Cleanup Program. August. ⁽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 A-3
OPP ROW Soil Cleanup Level Screening
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 A-3
OPP ROW Soil Cleanup Level Screening
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 A-3
OPP ROW Soil Cleanup Level Screening
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

Table A-3
OPP ROW Soil Cleanup Level Screening
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)
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

Table A-3
OPP ROW Soil Cleanup Level Screening
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)
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

Table A-3
OPP ROW Soil Cleanup Level Screening
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)
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
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
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
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
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
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
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
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
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

Table A-3
OPP ROW Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington



Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	2,3,7,8-TCDD (ng/kg)	2,3,7,8-TCDF (ng/kg)	OCDD (ng/kg)	OCDF (ng/kg)	Total HpCDDs (ng/kg)	Total HpCDFs (ng/kg)
ROW001	SS-ROW001-0.5	05/04/2016	0-0.5	Discrete	Phase 1 OPP	0.604 J	3.24 U	3,660	135	1,170	243
ROW004	SS-ROW004-0.5	05/07/2015	0-0.5	Discrete	Phase 1 OPP	0.111 J	0.38 U	122	8.05 J	36.9	14.3
ROW005	SS-ROW005-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	0.664	1.84	8,630	257	2,380	519
ROW005	SBS-ROW005-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	0.503 U	1.6 U	6,600	210	2,100	474
ROW005	SBS-ROW005-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	0.155 J	0.48 J	1,590	82.1	517	138
ROW008	SBS-ROW008-0.5	05/07/2015	0-0.5	Discrete	Phase 1 OPP	0.283 J	0.32 U	1,980	117	577	159
ROW010W	SS-ROW010W-0.5	11/02/2015	0-0.5	Discrete	Phase 1 OPP	0.392 J	1.18 J	3,740	204	906	309
ROW010W	SBS-ROW010W-1.5	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	0.0968 U	0.15 J	157	11.1	46.3	14.2
ROW011	SS-ROW011-0.5	03/22/2016	0-0.5	Discrete	Phase 1 OPP	0.473 J	2.69	7,300	219	1,960	375
ROW011	SBS-ROW011-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	0.828 J	1.11	2,410	60	598	114
ROW012	SS-ROW012-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	0.189 U	0.569 UJ	2,160	72.6	601	116
ROW013	SS-ROW013-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	1.49	9.5 U	50,400	1,080	14,900	3,070
ROW013	SBS-ROW013-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	2 U	11.5	38,300	531	11,800	2,870
ROW013	SBS-ROW013-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	0.109 U	0.38 J	1,520	49.6	449	107
ROW014	SS-ROW014-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	1.36	11.2	66,200	1,440	18,900	4,370
ROW014	SS-ROW014-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	0.217 U	1.97	15,300	262	4,080	897
ROW014	SBS-ROW014-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	0.109 U	0.24 U	1,730	39.2	482	110
ROW016	SS-ROW016-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	0.435	1.56	3,860	133	1,200	270
ROW016	SBS-ROW016-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	0.426 J	0.11 U	4,460	112	1,540	320
ROW016	SBS-ROW016-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	0.101 U	0.17 J	578	16.8	204	36.2
ROW018	SS-ROW018-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	0.396	0.87 J	2,910	199	916	251
ROW018	SBS-ROW018-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	0.249 J	1.1 U	1,650	104	526	168
ROW019	SS-ROW019-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	0.803	1.21	3,540	87.4	1,080	229
ROW019	SBS-ROW019-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	0.333 J	0.64 J	2,400	46.3	735	178
ROW019	SBS-ROW019-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	0.796	1.31	8,410	160	2,190	493
ROW019	SBS-ROW019-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	0.1 U	0.28 J	1,660	28.4	391	96.9
ROW022	SS-ROW022-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	0.43	1.18	3,220	193	987	237
ROW022	SBS-ROW022-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	0.352 J	2.05	3,000	173	1,040	320
ROW022	SBS-ROW022-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	0.193 U	0.67 J	1,170	61.6	329	77
ROW022W	SS-ROW022W-0.5	11/02/2015	0-0.5	Discrete	Phase 1 OPP	1.32 J	1.66 J	13,300	920	2,900	1,010
ROW022W	SBS-ROW022W-1.5	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	0.161 J	0.21 U	1,130	73.3	265	78.6
ROW023	SS-ROW023-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	0.484	1.11	6,530	783	1,970	946
ROW023	SBS-ROW023-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	0.466 J	1.7 U	5,150	469	1,740	852
ROW023	SBS-ROW023-1.5	09/01/2015	1.0-1.5	Discrete	Phase 1 OPP	0.106 U	0.18 U	1,880	346	411	365
ROW023	SBS-ROW023-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	0.106 U	0.15 U	462	81.8	115	76.9
ROW025	SS-ROW025-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	0.715	1.73	8,360	385	2,390	512
ROW025	SBS-ROW025-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	0.188 U	0.787 J	1,930	87.7	666	174
ROW025	SBS-ROW025-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	0.253	0.59 J	1,250	58.6	384	95.2
ROW026	SS-ROW026-0.5	05/21/2015	0-0.5	Discrete	Phase 1 OPP	0.494 J	0.937 J	2,470	77.8	749	175
ROW026	SBS-ROW026-1.0	05/21/2015	0.5-1.0	Discrete	Phase 1 OPP	0.566	1.52	3,190	102	1,100	309

Table A-3
OPP ROW Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington



Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	2,3,7,8-TCDD (ng/kg)	2,3,7,8-TCDF (ng/kg)	OCDD (ng/kg)	OCDF (ng/kg)	Total HpCDDs (ng/kg)	Total HpCDFs (ng/kg)
ROW026	SBS-ROW026-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	0.451	1.16	2,640	89.4	845	223
ROW026	SBS-ROW026-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	0.213	0.62 J	1,610	43.7	389	107
ROW029B	SS-ROW029B-0.5	06/08/2015	0-0.5	Discrete	Phase 1 OPP	0.573	1.34	5,360	311	1,810	424
ROW029B	SBS-ROW029B-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	0.342 J	1.32	2,540	127	995	250
ROW029B	SBS-ROW029B-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	0.206	0.61 J	2,010	144	579	161
ROW030	SS-ROW030-0.5	04/30/2015	0-0.5	Discrete	Phase 1 OPP	0.296	0.495	976	85.7	702	182
ROW030	SS-ROW030-1.0	04/30/2015	0.5-1.0	Discrete	Phase 1 OPP	0.158 J	0.34 U	924	32.4	322	60.1
ROW033W	SS-ROW033W-0.5	11/02/2015	0-0.5	Discrete	Phase 1 OPP	1.15 J	3.27	7,780	637	1,720	763
ROW033W	SBS-ROW033W	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	0.604	1.82	2,880	202	849	304
ROW036	SS-ROW036-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	0.913	2.11 U	2,520	223	630	212
ROW036	SS-ROW036-1.0	04/23/2015	0.5-1.0	Discrete	Phase 1 OPP	0.114 U	0.24 U	99.2	7.13	24.1	7.55
ROWRRW	SS-ROWRRW-0.5	03/22/2016	0-0.5	Discrete	Phase 1 OPP	0.41 J	1.9 U	4,530	143	1,240	242
ROWRRW	SBS-ROWRRW-1.5	03/22/2016	1.0-1.5	Discrete	Phase 1 OPP	0.275 U	0.449 J	553	22.3	149	32.3
ROW-002N	ROW-002N-0.5	08/11/2016	0-0.5	Discrete	Phase 2 OPP	0.572 J	4.21	2,710	78	802	191
ROW010E	SS-ROW010E-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	1.66	1.42	2,580	134	974	290
ROW022E	SS-ROW022E-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	0.432	1.42	3,690	324	2,060	624
ROW022E	SS-ROW022E-0.5	11/02/2015	0-0.5	Discrete Dup	Phase 2 OPP	0.449	1.35	3,210	325	2,760	597
ROW029BS	SS-ROW029BS-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	1.31 J	1.82 J	7,820	467	1,610	580
ROW029BS	SBS-ROW029BS-1.5	11/02/2015	1.0-1.5	Discrete	Phase 2 OPP	0.304	0.19 J	365	20.9	94.8	24.6
ROW038S	SS-ROW038S-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	0.186 U	0.302 J	803	45.1	190	51.7
ROW-P2-001	ROW-P2-001-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.128 U	0.829 J	5,280	99.8	1,150	295
ROW-P2-002	ROW-P2-002-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	1.36	3.63	3,400	109	822	195
ROW-P2-002	ROW-P2-002-0.5-DUP	04/15/2016	0-0.5	Discrete Dup	Phase 2 OPP	1.33	3.15	3,450	126	776	194
ROW-P2-003	ROW-P2-003-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.614 J	2.74	10,500	197	2,660	564
ROW-P2-004	ROW-P2-004-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.235 J	0.7 J	5,400	88.6	962	177
ROW-P2-005	ROW-P2-005-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.306 U	2.56	9,270	157	2,350	510
ROW-P2-006	ROW-P2-006-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.339 J	0.834 J	3,460	137	829	233
ROW-P2-007	ROW-P2-007-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.311 U	0.72 J	2,860	316	588	210
ROW-P2-008	ROW-P2-008-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.712	2.11	19,700	2,440	3,680	2,550
ROW-P2-009	ROW-P2-009-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.855	3.54	467	23.2	133	93
ROW-P2-010	ROW-P2-010-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.105 U	0.3 U	810	19.5	174	37.2
ROW-P2-011A	ROW-P2-011A-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.614	9.01	29,400	714	8,920	2,180
ROW-P2-011B	ROW-P2-011B-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.815	6.23	16,500	370	4,920	1,130
ROW-P2-012	ROW-P2-012-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.421	0.5 J	1,570	55.2	498	89.1
ROW-P2-013	ROW-P2-013-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.11 U	0.25 J	720	32.4	184	26.4
ROW-P2-014	ROW-P2-014-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.177 J	0.54 J	1,310	51.8	413	79.6
ROW-P2-015	ROW-P2-015-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.156 U	0.537 J	1,860 J	93.2	531	120
ROW-P2-016	ROW-P2-016-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	2.12	56.7	14,100	1,570	4,280	5,620
ROW-P2-017	ROW-P2-017-0.5	04/15/2016	0-0.5	Discrete	Phase 2 OPP	0.38	3.98	14,100	283	4,280	756
ROW-P2-018	ROW-P2-018-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	0.405	1.84	1,210	71.8	350	114

Table A-3
OPP ROW Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington



Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	2,3,7,8-TCDD (ng/kg)	2,3,7,8-TCDF (ng/kg)	OCDD (ng/kg)	OCDF (ng/kg)	Total HpCDDs (ng/kg)	Total HpCDFs (ng/kg)
ROW-P2-019	ROW-P2-019-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	0.206	0.97 J	2,190	258	597	257
ROW-P2-020	ROW-P2-020-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	0.771	1.25	3,710	528 J	947	404
ROW-P2-021	ROW-P2-021-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	0.539	1.63	5,520	373	1,430	589
ROW-P2-022	ROW-P2-022-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	0.461	0.35 U	844	33.5	160	37.4
ROW-P2-033	ROW-P2-033-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	0.616	9.56	19,300 J	433	4,640	1,400
ROW-P2-034	ROW-P2-034-0.5	04/20/2016	0-0.5	Discrete	Phase 2 OPP	0.596	2.52	4,820	124	1,380	330
ROW078N	ROW-078N	11/22/2017	0-0.5	Discrete	Phase 3 OPP	0.922 J	2.41	6,720 J	315	1,720	428
ROW078NE	ROW-078NE	11/22/2017	0-0.5	Discrete	Phase 3 OPP	0.369 UJ	1.65	2,280	69.1	487	123
ROW078NW	ROW-078NW	11/22/2017	0-0.5	Discrete	Phase 3 OPP	1.87	1.17	2,800	67	797	152

Table A-3
OPP ROW Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington



Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	Total HxCDDs (ng/kg)	Total HxCDFs (ng/kg)	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	244	271	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	6.79	9.45	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	330	382	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	294	308	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	79.7	95.4	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	80.2	94.4	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	152	227	15.5	114	4.97	30	21,000
ROW010W	SBS-ROW010W-1.5	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	6.26	10.7	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	235	352	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	74.7	218	5.57	182	1.86	30.3	9,600
ROW012	SS-ROW012-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	74.9	85.6	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	1,640	2,940	112	462	13.4	57.4	20,000
ROW013	SBS-ROW013-1.0	06/08/2015	0.5-1.0	Discrete	Phase 1 OPP	1,330	2,180	48	423	2 U	15.3	15,000
ROW013	SBS-ROW013-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	59.2	96.5	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	2,190	4,700	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	418	915	20	241	1.64	18.7	11,000
ROW014	SBS-ROW014-2.0	08/26/2015	1.5-2.0	Discrete	Phase 1 OPP	57	111	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	190	213	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	246	306	25	134	5.22	20.6	18,000
ROW016	SBS-ROW016-2.0	09/01/2015	1.5-2.0	Discrete	Phase 1 OPP	28.3	42.7	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	146	115	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	85.2	61.8	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	144	192	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	103	163	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	277	488	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	50.5	95	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	142	156	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	179	196	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	55.1	87.4	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	418	617	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	31.5	52.4	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	277	285	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	278	331	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	57.4	113	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	15.2	23.8	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	373	285	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	118	97.4	12.5	41	2.19	12	13,000
ROW025	SBS-ROW025-1.5	08/26/2015	1.0-1.5	Discrete	Phase 1 OPP	64.9	59.4	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	106	103	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	181	201	19.4	37	5.07	12.8	12,000

Table A-3
OPP ROW Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington



Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	Total HxCDDs (ng/kg)	Total HxCDFs (ng/kg)	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	131	179	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	60.7	82.5	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	303	209	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	174	145	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	80.9	92.8	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	122	96.8	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	50.9	42	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	335	1,040	59.3	1,270	18.5	373	22,000
ROW033W	SBS-ROW033W	11/02/2015	1.0-1.5	Discrete	Phase 1 OPP	154	780	38.4	1,010	12.7	277	14,000
ROW036	SS-ROW036-0.5	04/23/2015	0-0.5	Discrete	Phase 1 OPP	109	87.2	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	4.13	5.3	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	167	195	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	22.1	26.4	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	169	330	29.3	368	7.91	95.3	29,000
ROW010E	SS-ROW010E-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	150	294	20.3	248	7.33	66.8	19,000
ROW022E	SS-ROW022E-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	310	459	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	319	483	18.1	199	5.41	28.7	15,000
ROW029BS	SS-ROW029BS-0.5	11/02/2015	0-0.5	Discrete	Phase 2 OPP	242	281	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	11.9	12.5	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	30.1	23.7	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	137	283	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	137	221	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	133	215	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	334	507	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	101	131	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	303	464	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	125	181	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	68	83.1	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	385	876	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	118	535	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	33.4	33.1	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	1,110	1,560	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	579	839	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	73.4	73.1	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	27.9	22.9	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	53.7	54.4	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	79.1	73.5	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	2,260	5,990	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	451	785	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	50.9	40	7.31	8.17	1.99	8.62	19,000

Table A-3
OPP ROW Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington



Location	Sample Name	Collection Date	Collection Depth (ft bgs)	Sample Type	Area	Total HxCDDs (ng/kg)	Total HxCDFs (ng/kg)	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	82.7	103	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	85.7	165	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	175	352	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	16.5	23	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	609	1,610	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	186	326	21.9	214	6.7	54.3	25,000
ROW078N	ROW-078N	11/22/2017	0-0.5	Discrete	Phase 3 OPP	368	338 J	64.6	248 J	14 J	60.5	29,000
ROW078NE	ROW-078NE	11/22/2017	0-0.5	Discrete	Phase 3 OPP	91 J	106 J	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	174	128 J	34 J	48.9 J	13.5 J	16.8	30,000

Table A-3
OPP ROW Soil Cleanup Level Screening
Former PWT Site
Ridgefield, Washington



Notes Bold indicates values that exceed the MTCA Method B Soil CUL of 13.0 ng/kg. bgs = below ground surface. Dup = duplicate sample. J = result is estimated. 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. ^(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. 2023. <i>Cleanup Levels and Risk Calculation (CLARC) table</i> . Washington State Department of Ecology, Toxics Cleanup Program. August. ⁽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.
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APPENDIX B

COST ESTIMATES



APPENDIX B COST ESTIMATES

B-1 PROPERTY COST ESTIMATE

B-2 ROW COST ESTIMATE

Appendix B-1
Property Cost Estimate
Former PWT Site
Ridgefield, Washington



Item No.	Item	Units	No. of Units	Unit Cost	Cost
1.0 Public Outreach, Design, Permitting, Construction Oversight, and Completion Reporting					
1.1	Design Sampling	LS	1	\$ 2,500	\$ 2,500
1.2	Public Outreach, Engineering Design, and Permitting	LS	1	\$ 120,000	\$ 120,000
1.3	Construction Administration and Oversight	LS	1	\$ 100,000	\$ 100,000
1.4	Completion Reporting	LS	1	\$ 13,333	\$ 13,333
Total Public Outreach, Design, Permitting, Construction Oversight, and Completion Reporting Cost					\$ 235,833
2.0 Remedy Construction					
2.1	Mobilization	LS	1	\$ 193,333	\$ 193,333
2.2	Temporary Facilities and Controls	LS	1	\$ 18,000	\$ 18,000
2.3	Progress and Construction Surveying	LS	1	\$ 66,933	\$ 66,933
2.4	Temporary Erosion and Sediment Control	LS	1	\$ 22,000	\$ 22,000
2.5	Demolition and Salvage	LS	1	\$ 9,467	\$ 9,467
2.6	Clearing and Grubbing	LS	1	\$ 12,000	\$ 12,000
2.7	Tree and Stump Removal	LS	1	\$ 10,000	\$ 10,000
2.8	Excavation of Contaminated Soil	CY	2,744	\$ 52	\$ 142,688
2.9	Excavation of Contaminated Soil (Restricted Access)	CY	457	\$ 177	\$ 80,889
2.10	Contaminated Soil Transport and Disposal	Ton	4,802	\$ 53	\$ 254,506
2.11	Acquisition and Placement of Topsoil	Ton	4,802	\$ 88	\$ 422,576
2.12	Sod	SY	10,975	\$ 13.0	\$ 142,675
2.13	Plant Material	LS	1	\$ 20,000	\$ 20,000
2.14	Landscape Maintenance	LS	1	\$ 21,333	\$ 21,333
Total Construction Cost					\$ 1,416,401
Subtotal					\$ 1,652,234
Tax				8.40%	\$ 138,788
Contingency				30%	\$ 495,670
TOTAL COST ESTIMATE, INCLUDING 30% CONTINGENCY					\$ 2,286,692

**Appendix B-1
Property Cost Estimate
Former PWT Site
Ridgefield, Washington**



ASSUMPTIONS:

1. Unit costs based on actual costs of Phase 1 work.
2. Excavation areas approximated from aerial imagery.
3. Excavation depth assumed to be 1 foot; excavation depth in restricted access areas assumed to be 0.5 feet.
4. In situ soil density assumed to be 1.5 cy/ton.

NOTES:

CY = cubic yard.

EA = each.

LF = lineal foot.

LS = lump sum.

PWT = Pacific Wood Treating Co.

SY = square yard.

**Appendix B-2
ROW Cost Estimate
Former PWT Site
Ridgefield, Washington**



Item No.	Item	Units	No. of Units	Unit Cost	Cost
1.0 Design, Permitting, Construction Oversight, and Completion Reporting					
1.1	Design Sampling	LS	1	\$ 2,500	\$ 2,500
1.2	Engineering Design and Permitting	LS	1	\$ 30,000	\$ 30,000
1.3	Construction Administration and Oversight	LS	1	\$ 50,000	\$ 50,000
1.4	Completion Reporting	LS	1	\$ 6,667	\$ 6,667
Total Design, Permitting, Construction Oversight, and Completion Reporting Cost					\$ 89,167
2.0 Remedy Construction					
2.1	Mobilization	LS	1	\$ 96,667	\$ 96,667
2.2	Temporary Facilities and Controls	LS	1	\$ 9,000	\$ 9,000
2.3	Progress and Construction Surveying	LS	1	\$ 33,467	\$ 33,467
2.4	Temporary Erosion and Sediment Control	LS	1	\$ 11,000	\$ 11,000
2.5	Demolition and Salvage	LS	1	\$ 4,733	\$ 4,733
2.6	Clearing and Grubbing	LS	1	\$ 6,000	\$ 6,000
2.7	Tree and Stump Removal	LS	1	\$ 5,000	\$ 5,000
2.8	Excavation of Contaminated Soil	CY	2,660	\$ 52	\$ 138,320
2.9	Excavation of Contaminated Soil (Restricted Access)	CY	296	\$ 177	\$ 52,392
2.1	Contaminated Soil Transport and Disposal	Ton	4,434	\$ 53	\$ 235,002
2.11	Acquisition and Placement of Topsoil	Ton	4,434	\$ 88	\$ 390,192
2.12	Sod	SY	7,094	\$ 13	\$ 92,222
2.13	Landscape Maintenance	LS	1	\$ 8,000	\$ 8,000
Total Construction Cost					\$ 1,081,995
Subtotal					\$ 1,171,161
Tax				8.40%	\$ 98,378
Contingency				30%	\$ 351,348
TOTAL COST ESTIMATE, INCLUDING 30% CONTINGENCY					\$ 1,620,887
ASSUMPTIONS: 1. Unit costs based on actual costs of Phase 1 work. 2. Excavation areas approximated from aerial imagery. 3. Excavation depth assumed to be 1.5 feet; excavation depth in restricted access areas assumed to be 0.5 feet. 4. In situ soil density assumed to be 1.5 cy/ton. NOTES: CY = cubic yard. LS = lump sum. PWT = Pacific Wood Treating Co. SY = square yard.					

APPENDIX C

PUBLIC PLAN





PUBLIC PARTICIPATION PLAN

**Pacific Wood Treating
111 West Division
Ridgefield, Washington**

**Facility Site Number 1019
Cleanup Site Number 3020**

Prepared by
Washington State Department of Ecology
Southwest Regional Office
Toxics Cleanup Program
PO Box 47775
Olympia, Washington 98504-7775

November 2014

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INTRODUCTION

Public participation plans promote meaningful involvement during cleanups. This plan describes the tools the Washington State Department of Ecology (Ecology) will use to inform the public and gather input about the Pacific Wood Treating cleanup.

LOCATION AND SITE BACKGROUND

The Pacific Wood treating site is located around 111 West Division in Ridgefield. The site includes about 41 acres of port property, sediments in parts of Carty Lake and Lake River adjacent to the site, and some land south and east of the port property (see map on page 3). The extent of contamination sets the site boundary.

Site Background

From 1964-1993, Pacific Wood Treating (PWT) operated on waterfront property it leased from the Port of Ridgefield (Port). PWT pressure treated wood products with a variety of toxic chemicals such as creosote, pentachlorophenol (PCP) and copper/chromium/arsenic (CCA) solutions. PWT released contaminants to the environment through spills, leaking wastewater storage tanks, stormwater runoff and leaks from the buried drain system.

Contamination related to PWT has been found in soil, sediment, and groundwater on and off the port property. Figure 1 shows the extent of the cleanup site and Figure 2 shows the different parts of the cleanup site and property ownership.

Figure 1: Pacific Wood Treating cleanup site

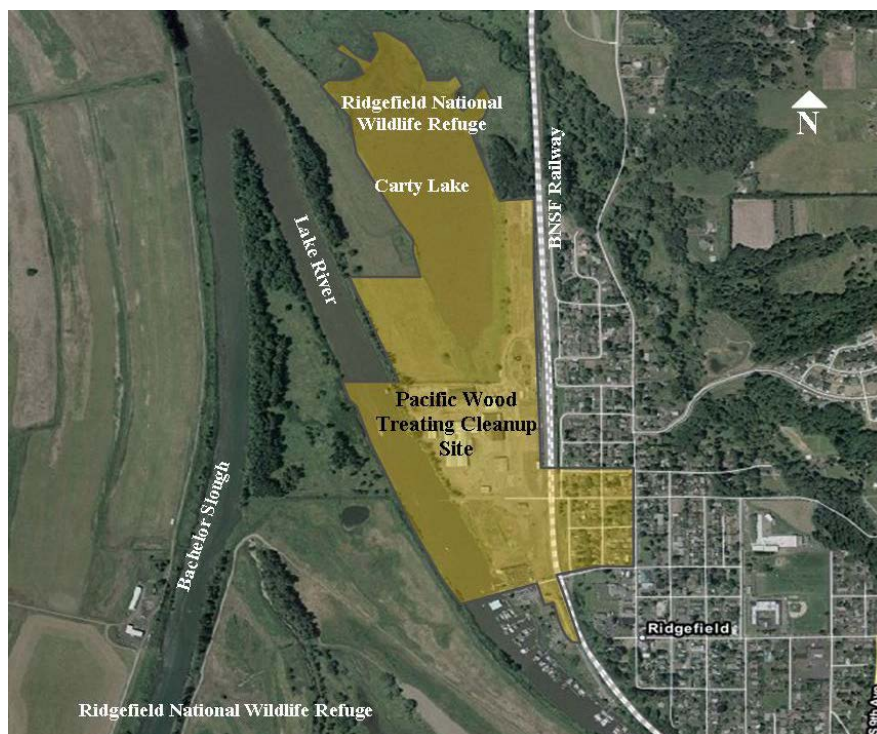
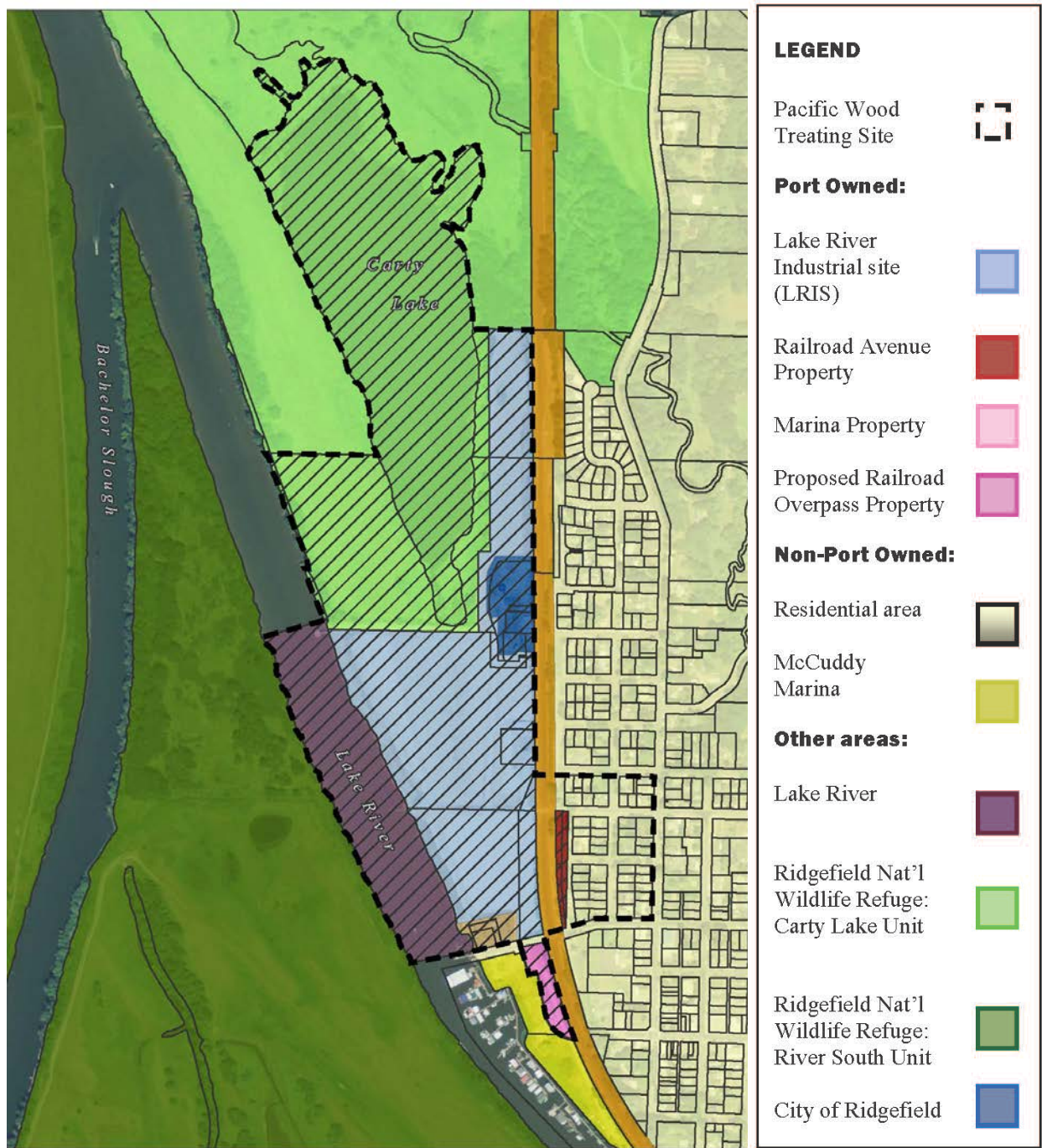


Figure 2: Pacific Wood Treating cleanup areas and property ownership



In 1985, as part of a focused nationwide effort to address impacts from wood treating facilities, the U.S. Environmental Protection Agency (EPA) investigated the property. EPA found wood treating chemicals above state cleanup standards in soil and groundwater. Pacific Wood Treating entered into a legal agreement with the EPA through the Resource Conservation and Recovery Act (RCRA). This agreement required Pacific Wood Treating to determine the full extent of contamination and then clean it up. In 1993, PWT declared bankruptcy.

In 1996 and 2001, the Department of Ecology (Ecology) and the Port entered into agreed orders (legal agreements) to investigate contamination from the former wood treating plant and do interim actions (partial cleanups) on port property. From 1996 - 2013, the Port cleaned up contamination on their property. They removed:

- 24,800 gallons of liquid contamination.
- 1,545,000 pounds of contaminated sludge.
- Contamination from over 144 million gallons of groundwater.

The Port also capped the property using two or more feet of clean soil.

Investigations also found contamination outside port-owned property. In 2013, Ecology and the Port entered into a consent decree legal agreement for the port to clean up other areas with PWT contamination.

In summer 2014, the port began cleaning up off-property areas including the railroad overpass area and sediments in Carty Lake and Lake River. You can learn about those cleanup projects and progress on our website <https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=3020> or on our blog at <http://ecologywa.blogspot.com>.

Ecology and the Port are funding the cleanup. So far, Ecology has contributed over \$85 million for cleanup through grants and loans funded by the State and Local Toxics Control Accounts. With Ecology's continued financial support, the Port will be able to accelerate plans for redevelopment of this area.

CURRENT ACTIVITY

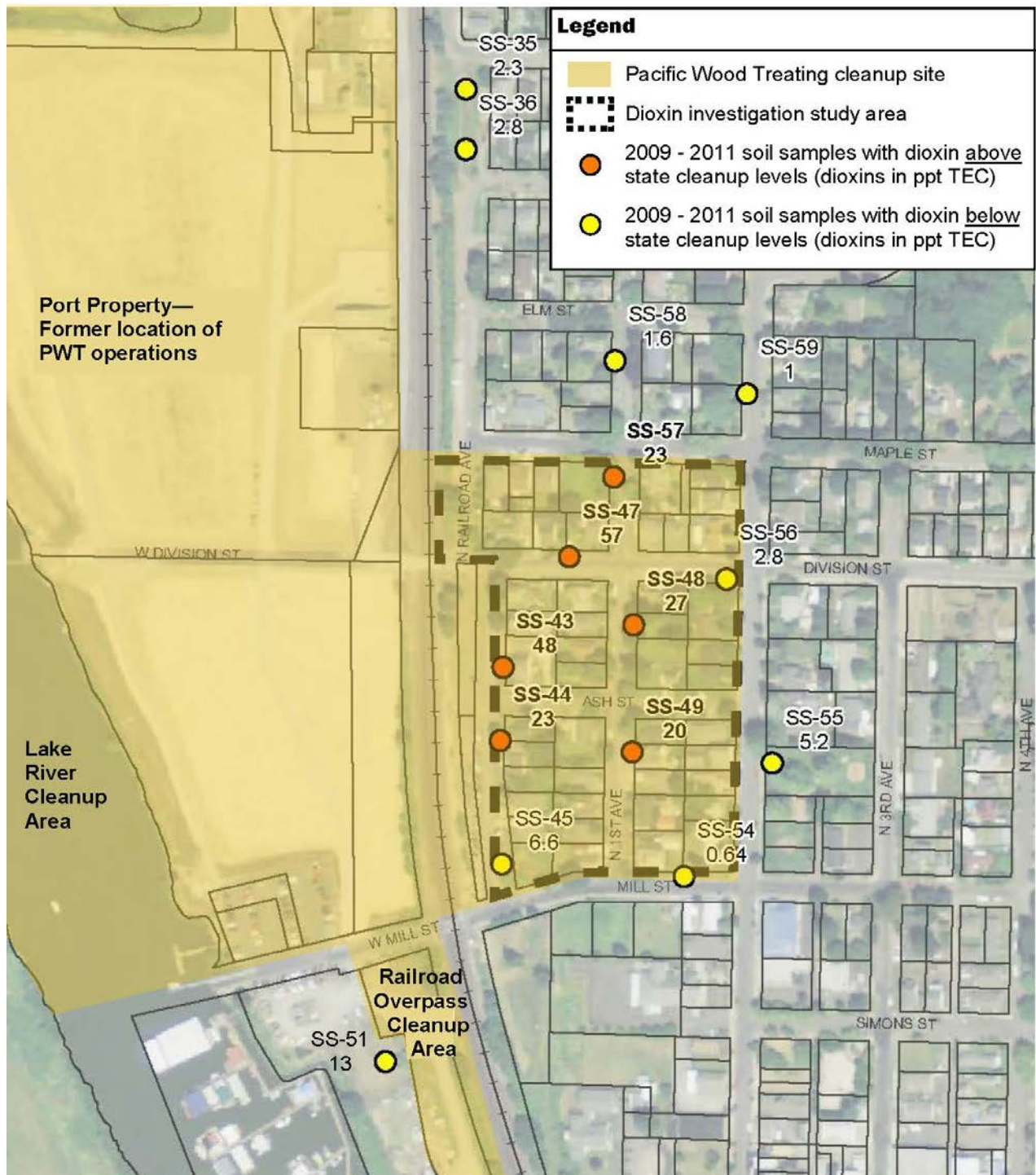
During investigations from 2010 – 2012, the Port found dioxins in soil above state cleanup levels on some public land in the neighborhood east of the port property (see Figure 3 on page 5). Most of the dioxins in off-property soil likely came from air-borne dust while Pacific Wood Treating was operating. Dust may have blown off the port property, been tracked onto roads from truck tires, and come off trucks hauling treated wood on Division St.

Ecology and the port are entering into an agreed order that requires the port to:

- Develop a **sampling plan** for investigating dioxins in yards in the study area.
- Do a **remedial investigation (RI)**, which describes the type and extent of contamination.
- Do a **feasibility study (FS)**, which evaluates cleanup options.
- Develop an **RI/FS report**.
- Unless Ecology decides one is not needed, develop a **preliminary draft cleanup action plan** that proposes cleanup actions.

After the comment period, we will review and respond to your comments and questions. While the port can begin work under the agreed order during the comment period, we will consider your comments as the port moves forward with the investigation. This may include adjusting how the port does the investigation. The port will use the data from this investigation to evaluate if cleanup is needed, and what the cleanup plan should be for the study area.

Figure 3: Pacific Wood Treating off-property dioxin investigation study area



SITE CLEANUP PROCESS

Washington's Model Toxics Control Act (MTCA) requires that cleanups meet standards that are safe for both human health and the environment. For more information on MTCA, please visit Ecology's website at <http://www.ecy.wa.gov/biblio/ftc94129.html>.

Toxic sites are cleaned up in stages, described below. Each stage has a related report or plan that the public is welcome to review and comment on.

Remedial Investigation & Feasibility Study (RI/FS) - The RI looks at the extent and type of pollution on the site. It also looks at possible human health and environmental impacts. The FS identifies and evaluates different cleanup options.

Interim Actions - Ecology may allow interim actions to partly clean up a site before the final cleanup plan is complete.

Cleanup Action Plan (CAP) - The CAP describes the cleanup methods and how they will meet Ecology's cleanup standards. The Remedial Investigation and Feasibility Study provide the data and analysis to write a CAP. The CAP also takes into account public comments and concerns.

Cleanup - Cleanup removes contaminants from the site, contains them on the site, or treats them to make them less toxic. Based on the information in the off-property dioxin investigation RI/FS, Ecology will select a cleanup action and amend the consent decree for the Port to conduct a cleanup. The CAP will require a public comment period.

Delisting - Ecology keeps track of toxic cleanup sites on the Hazardous Sites List. Once cleanup is complete, the public will have a chance to comment before Ecology takes a site off the list.

You can find more information about toxic cleanups on Ecology's website:
http://www.ecy.wa.gov/programs/tcp/cu_support/cu_process_steps_defns.htm.

PUBLIC PARTICIPATION ACTIVITIES AND RESPONSIBILITIES

The purpose of this Public Participation Plan is to promote public understanding and participation in the cleanup. This section of the plan describes how Ecology will share information and receive public comments on cleanup activities. Ecology will use the following public involvement activities during the Pacific Wood Treating cleanup:

Formal Public Comment Periods

Comment periods are the primary method Ecology uses to get feedback from the public on proposed cleanup decisions. Comment periods usually last 30 days. WAC 173-340-600 requires them at key points during the investigation and cleanup process, before final decisions are made. During a comment period, the public can comment in writing. Ecology can only take verbal comments during a public hearing.

After comment periods, Ecology reviews all comments and may respond in a document called a responsiveness summary. Ecology considers whether a document or decision needs to be changed or revised based on public input. If there are major changes, Ecology may hold a second comment period. If there are no major changes, Ecology finalizes the draft document(s).

Public Meetings and Hearings

Ecology may hold public meetings at key points during the investigation and cleanup. Ecology also may offer public meetings for actions expected to be of particular interest to the community. Ecology will also hold a public meeting or hearing if ten or more people request one. These meetings will be at places and times convenient to the public.

Information Repositories

These are places where the public can read and review site information, including public comment period documents. Ecology has two repositories for this site:

- Ridgefield Library, 210 N. Main Ave., Ridgefield 98642. (360) 887-8281.
- Washington State Department of Ecology, 300 Desmond Drive, Lacey 98516. Please call (360) 407-6365 for an appointment.

See also Ecology's website: <https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=3020>

Site Register

Ecology's Toxics Cleanup Program uses its bimonthly Site Register to announce public meetings and comment periods, and many other activities. To receive the Site Register by e-mail, contact Seth Preston at (360) 407-6848 or Seth.Preston@ecy.wa.gov. You can also read it on Ecology's website at http://www.ecy.wa.gov/programs/tcp/pub_inv/pub_inv2.html.

Mailing List

Ecology's mailing list for this site includes neighboring landowners and businesses, public agencies, and other known interested parties. Ecology's Southwest Regional Office maintains the list and will update it as needed. Please contact Diana Smith at (360) 407-6255 or Diana.Smith@ecy.wa.gov if you would like to have your address added to or deleted from this mailing list.

Fact Sheets

Ecology will mail fact sheets to people and groups interested in this cleanup. Fact sheets will announce comment periods and public meetings. Ecology also may mail fact sheets with updates on cleanup progress.

Newspaper Display Ads

Ecology will place ads in *The Columbian* to announce public comment periods and public meetings for the site.

Plan Update

Ecology may update this Public Participation Plan as the project moves forward. The public will have a chance to comment on any major changes to the plan.

Contacts

If you have questions or need more information about this plan or the Industrial Petroleum cleanup site, please contact:

Craig Rankine, Cleanup Project Manager

WA Department of Ecology

Vancouver Field Office

2108 Grand Blvd.

Vancouver, WA 98661

Tel: (360) 690-4795

Email: Craig.Rankine@ecy.wa.gov

Diana Smith, Public Involvement Coordinator

WA Department of Ecology

PO Box 47775

Olympia, WA 98504-7775

Tel: (360) 407-6255

Email: Diana.Smith@ecy.wa.gov

GLOSSARY

Agreed Order: A legal agreement between Ecology and a Potentially Liable Person (see below) to conduct work toward a cleanup.

Cleanup: Actions that deal with a release or threatened release of hazardous substances that could affect public health or the environment. Ecology often uses the term "cleanup" broadly to describe response actions or phases of cleanup, such as the remedial investigation/feasibility study.

Consent Decree: A legal agreement between Ecology and a Potentially Liable Person (see below) to conduct work toward a cleanup. It is approved and issued by a court.

Contaminant: Any hazardous substance that does not occur naturally or occurs at greater than natural background levels.

Dioxins: A family of chemicals with similar chemical structures and effects on living things. They are unintentional byproducts of both human activities and natural processes. They do not break down easily in the environment, and as a result, are found everywhere.

Feasibility Study: This study identifies and evaluates different cleanup options.

Groundwater: Water found beneath the earth's surface that fills spaces between materials such as sand, soil, or gravel. In some areas, groundwater occurs in large enough amounts to be used for drinking water, irrigation and other purposes.

Information Repository: A file containing site information and reports for public review. It is usually located in a public building convenient for local residents, such as a public school, city hall, or library.

Model Toxics Control Act (MTCA): A law passed by Washington voter initiative in 1988. Its purpose is to find, investigate, and clean up places where hazardous substances have been released. It defines Ecology's role and encourages public involvement in cleanup decisions.

Potentially Liable Person: Any individual(s) or company(s) potentially responsible for, or contributing to, the contamination problems at a site. Whenever possible, Ecology requires PLPs to clean up sites.

Remedial Investigation: Looks at the extent and type of pollution on the site. It also looks at possible human health and environmental impacts.

Risk: The probability that a hazardous substance, when released into the environment, will cause an adverse effect in the exposed humans or living organisms.

Sediments: Settled particles located at the bottom of a lake, river or in wetlands. Sediment(s) also includes settled particulate matter exposed by human activity (e.g., dredging) to the biologically active aquatic zone or to the water column.

Site: Any area where a hazardous substance, other than a consumer product in consumer use, has come to be located.

Toxicity: How much harm a substance causes to living organisms, including people, plants and animals, at a certain concentration.

Voluntary Cleanup Program: An option for cleaning up hazardous waste sites. The program allows a party to clean up a site independently with technical assistance and written opinions from the Department of Ecology on the cleanup.

APPENDIX D

RESULTS LETTERS





STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

*Vancouver Field Office • 2108 Grand Blvd, Vancouver, WA 98661-4622 • (360) 690-7171
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341
If you need this letter in another format, please call (360) 407-6300*

DATE

This summer, the Department of Ecology (Ecology) and Port of Ridgefield (port) took soil samples from the yard at ADDRESS. The dioxin level in your yard is above the state cleanup level. We will contact the homeowner in the next few months to discuss soil replacement and yard restoration options, at no cost. The homeowner's consent will be required for any cleanup. The enclosed map shows your results and the yard sample locations. The cleanup plan for your yard may cover a larger area than was sampled.

Additionally, the right-of-way areas near your property are above the state cleanup level. Soil will be replaced in the right-of-ways (see enclosed sampling results neighborhood map). Again, we will contact the homeowner to discuss the cleanup in right-of-ways adjacent to your property, before any work is done. The purpose of this letter is to inform you of the sampling results and help you reduce contact with contaminated soils in your yard and neighborhood now.

What is the health risk?

There is no immediate health concern but there is a long term risk. Long-term, daily exposure to the dioxin level found in your yard raises the risk of certain health problems. The health risk comes from accidentally swallowing, or breathing in the dust from soil.

We recommend that you take these healthy actions now to limit you and your family's exposure to soil:

- Wash hands after contact with soil, especially for children.
- Take off shoes at the door or use a doormat.
- Vacuum regularly and dust with a damp cloth.
- Wipe pets' paws and brush off their fur before coming inside.

The enclosed materials offer more advice. Please take the time to review them. For health questions, please contact the WA Department of Health at Lenford.OGarro@doh.wa.gov or (360) 236-3376.

Additional sampling may be needed at your property to determine the depth of soil contamination. We will be contacting you in the next few months to select a sampling date and time that is convenient for you. These samples will inform us about how much soil we will need to remove during cleanup.

We also included a copy of the mailer that will be delivered to your neighborhood to update them on the progress of the cleanup. For the latest information visit our website at <https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=3020>.

If you have questions or concerns, please contact me.

We look forward to working with you!

Sincerely,



Craig Rankine
Cleanup Project Manager
(360) 690-4795
Craig.Rankine@ecy.wa.gov

Enclosed Materials

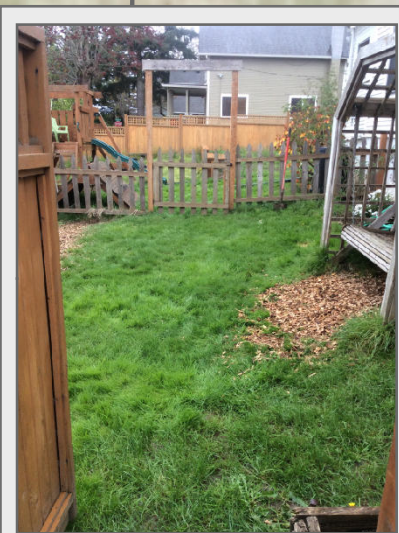
- Yard results and sampling locations map
- Neighborhood soil sampling results map
- Soil sampling update neighborhood mailer
- Healthy actions handout
- What happens during soil replacement handout

Path: X:\9003.01\Port of Ridgefield\39\Off-Property Yard Sampling\Public\Documents\SSAP 2\MailerFig_AOI-017_6A.shx
Print Date: 10/9/2015
Approved By: mmovak
Produced By: jml
Project: 9003.01.39

Your property is eligible for cleanup. The Dioxin level is 39.4 nanograms per kilogram (ng/kg).
Cleanup level for Dioxins is 13 ng/kg. We will contact you in the next few months to work with you on a cleanup plan.
The soil from each sample location on the property was combined into one sample giving an average dioxin level for the Sample Area.



1 Former blacktop driveway exclusion area



2a Side yard sampling area



2b Front yard sampling area, facing north



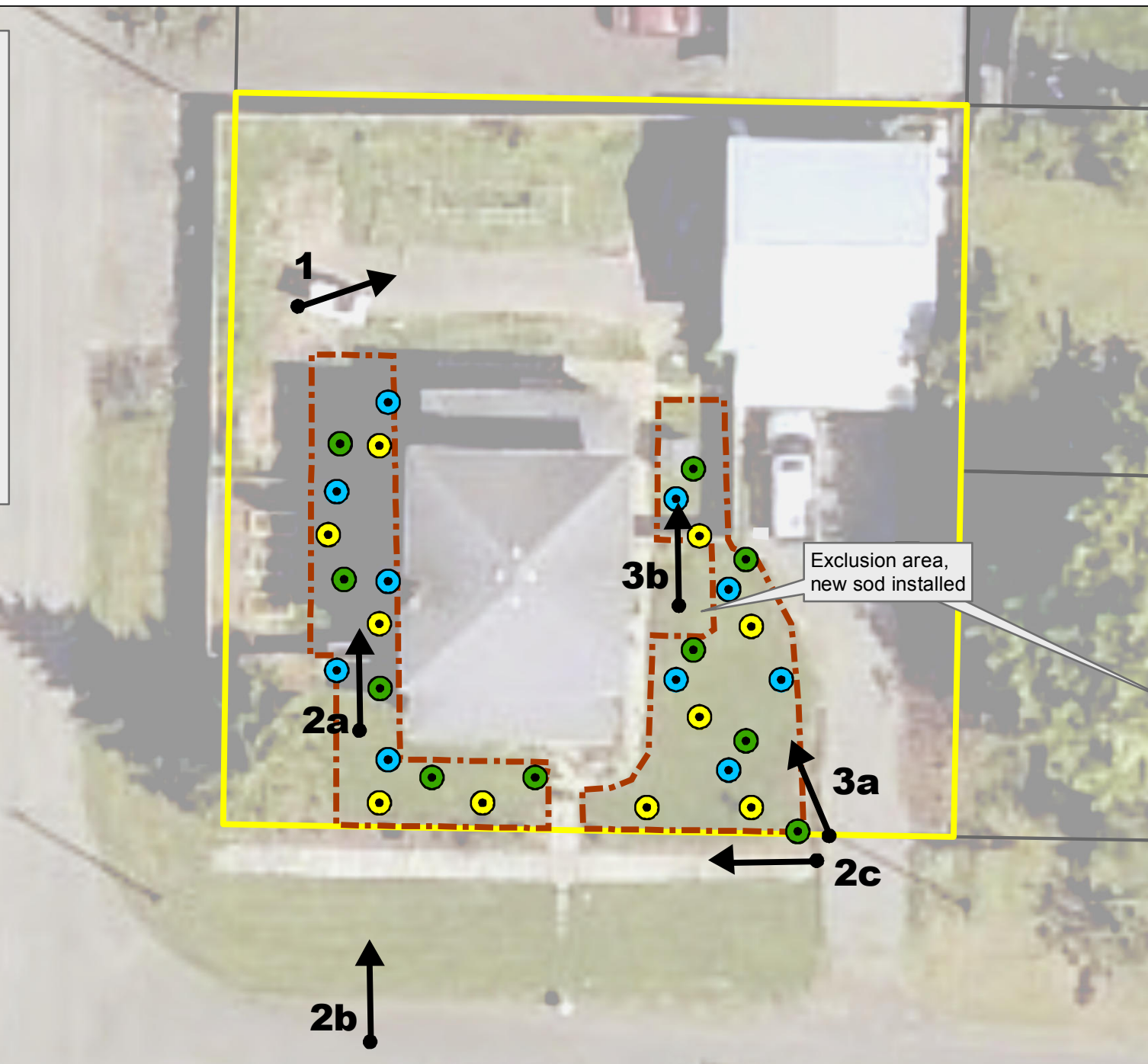
2c Front yard sampling area, facing west



3b Side yard sampling area



3a Side / front yard sampling area



**Yard Soil Sampling Results
and Sample Locations,
ADDRESS, Map Number XXX**
Ridgefield, Washington



Legend

- | | |
|-------------------------------|----------|
| Sampling Area Extent | Series A |
| Property Boundary | Series B |
| Clark County Tax Lot Boundary | Series C |
| Photo Location and Direction | |

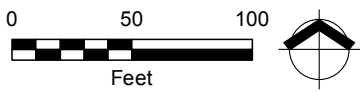
Source: Aerial photograph and tax lots data (2014) obtained from Clark County GIS. Site photos taken 2/13/2015 and 4/13/2015.

MAUL FOSTER ALONG I
p. 971 544 2139 | www.maulfoster.com

This product is for informational purposes and may not have been prepared for, or be suitable for, legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.



Neighborhood Soil Sampling Results Map
Ridgefield, Washington



- Legend**

 - Study Area
 - Property Location Number
 - Yard Soil Sampling Results**
 - Dioxins below state cleanup level
 - Dioxins above state cleanup level
- No Sample Results
 - Property Excluded
 - Right-of-Way Cleanup Area

Source: Aerial photograph obtained from Esri ArcGIS Online. Tax Lot data (2014) obtained from Clark County GIS.



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p. 971.544.2139 | www.maulfooster.com

This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Update on Off-Property Soil Study

Background

From 1964-1993, Pacific Wood Treating (PWT) operated on the Port of Ridgefield (port) waterfront property at 111 West Division in Ridgefield. PWT pressure treated wood products with a variety of toxic chemicals. Over the past 17 years, the port cleaned up or used a soil cap to cover areas where contamination was found on port property. In this last phase, the Department of Ecology (Ecology) and the port are studying and cleaning up dioxins in the neighborhood east of the port property (off-property area). Ecology and the port are funding the study and cleanup.

In 2009, the port began sampling in right-of-ways to define the extent of contamination in the off-property area. The initial samples were analyzed for multiple wood treating-related compounds such as pentachlorophenol (PCP), arsenic, polycyclic aromatic hydrocarbons (PAHs), and dioxins. Dioxins were the only contaminant found above cleanup levels. It was clear from the right-of-way sample results that dioxins might also be in yards. The yard soil sampling program started spring 2015.

This FAQ is to update you on the progress the port has made in sampling yards in the off-property area, summarize soil sampling results, and provide information about dioxins. We will update this document and our website when we have more information about the project.

Yard Sampling and the Off-Property Study

Q: What is happening now?

A: The port and Ecology are continuing to sample the soil in the off-property area to determine the extent of contamination.

- Sample results from yards and right-of-ways have been sent to owners and tenants (see page 3 map of results).
- Sampling shows contamination does not extend north of Maple Street.
- Additional soil samples are needed from Main and Mill Streets. We will start with the right-of-ways and continue until the extent of contamination is found.
- We are attempting to sample all homes within the off-property area
- Cleanup plans for the right-of-ways and yards will be developed with homeowners. Cleanup will begin summer/fall 2016.
- When the extent of contamination has been defined it will be documented in a series of reports that will be available for public comment.

TOPICS

- Background
- Next steps
- Dioxin information
- Yard soil sampling results map

FOR MORE INFORMATION

Site Investigation

Craig Rankine

Toxics Cleanup Program
PO Box 47775
Olympia, WA 98504-7775
Phone: (360) 690-4795
Craig.Rankine@ecy.wa.gov

Public Involvement

Stacy Galleher

Phone: (360) 407-6255
Stacy.Galleher@ecy.wa.gov

Health-Related Questions

Len O'Garro

WA State Department of Health
Phone: (360) 236-3376
E-mail:
Lenford.OGarro@doh.wa.gov

Ecology's Website

<https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=3020>

Accommodation Requests

To request materials in a format for the visually impaired, call Ecology at (360) 407-6300, Washington Relay Service at 711, or TTY 877-833-6341.

Facility Site ID# 1019

Cleanup Site ID# 3020

Dioxin Information

Q: What are dioxins?

A: Dioxins are a family of chemicals with similar chemical structures and effects on living things. They are byproducts of both human activities and natural processes. They do not break down easily in the environment, and as a result, are found everywhere. Most people are exposed to very low levels of dioxins when they consume food or milk, breathe air, or have contact with dioxin contaminated soils or other materials.

Q: Where do dioxins come from?

A: We believe the elevated levels of dioxins in the off-property area likely came from air-borne dust while Pacific Wood Treating was operating. Dust blew off the port property, was tracked onto roads from truck tires, and came off trucks hauling treated wood on Division St.

Additionally, dioxins are byproducts of both human activities and natural processes. Dioxins can be formed during industrial processes, from home burn barrels*, fireplaces, wood stoves, and exhaust from diesel engines. Natural sources of dioxins are from forest fires or volcanoes.

Due to changes in environmental regulations and industrial processes, emissions of dioxins in the U.S. have decreased significantly since the 1970s.

**Please contact the Southwest Clean Air Agency for more information about the health effects of home burning, and how to reduce your risk. Phone: (360) 574-3058, Website: www.swcleanair.org.*

Q: How could I be exposed to dioxins?

A: Everyone is exposed to low levels of dioxins because they are present throughout our environment. Most exposure comes from food (especially meat and dairy products). Soil, air, and water usually contribute only a small part of our exposure to dioxins. However, because of the soil contamination, people living in and near the off-property area have a greater potential of exposure to soil dioxins. Exposure in the off-property area could occur by accidentally inhaling (breathing) in dust that carries dioxins or ingesting (eating) soil containing dioxins.

Q: Could dioxins affect the health of my family?

A: Long-term exposure to low levels of dioxins, like those found on the PWT site, does not pose an immediate health risk but may pose a long-term health risk. The odds of developing health problems are different for each person.

Based on data from animal studies, there is some concern that exposure to lower levels of dioxins over long periods (or higher levels at sensitive times) might affect human reproduction or cell development. Dioxins may also have harmful effects on the liver, peripheral nerves, the immune system, and may cause certain types of cancer. The health effects associated with low-level dioxin exposure are still being studied.

Q: How can I keep my family safe from possible contamination?

A: There are several ways you can reduce your exposure to dioxins and other types of soil contamination. These healthy actions include:

- Washing your hands before eating, and after playing, or working outside.
- Removing your shoes before going inside.
- Preventing children from eating dirt.
- Washing children's toys and pacifiers often.
- Damp dusting, mopping and vacuuming often.
- Brush and bathe pets often to keep them clean.
- Eating a healthy and balanced diet and with low to moderate amounts of meat and dairy products.
- Washing fruits and vegetables before eating them, especially if they are grown at home.
- Gardening in raised beds with clean soil.
- Wearing gloves when gardening or landscaping.

Q: Are the vegetables in my garden safe?

A: Fruits and vegetables are okay to eat because they take up only a small amount of dioxins that are in soil. However, since garden soils may cling to the edible portions, it is important to peel or wash produce to remove any possible contamination.

Properties and Right-of-Ways Soil Sample Results

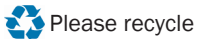




DEPARTMENT OF
ECOLOGY
State of Washington

PO Box 47775

Olympia, WA 98504-7775



Pacific Wood Treating Ridgefield, WA

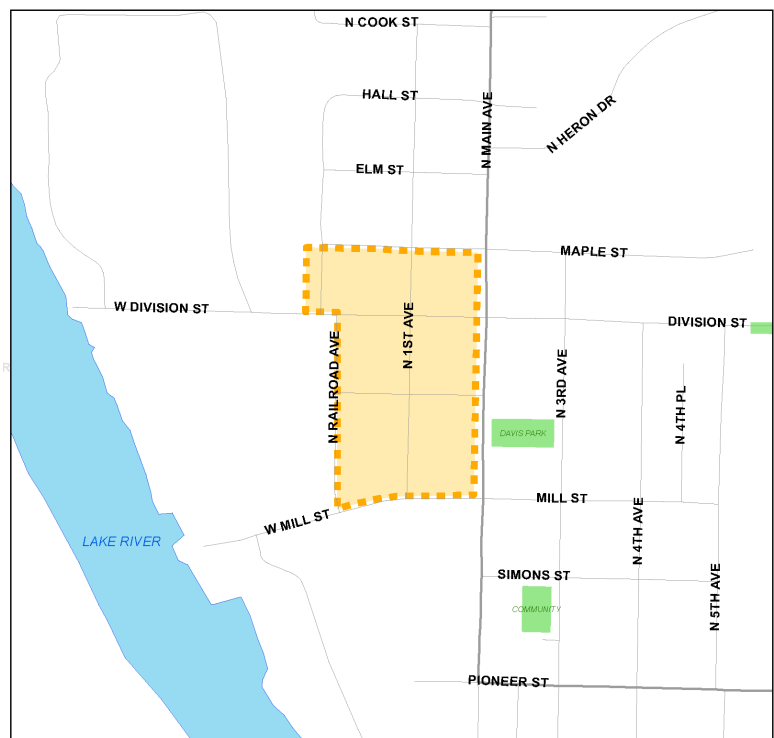
Update on Off-Property Soil Study

Facility Site ID #: 1019

To request ADA accommodation including materials in a format for the visually impaired, call Ecology at (360) 407-6300.

Persons with impaired hearing may call Washington Relay Service at 711.
Persons with speech disability may call TTY at 877-833-6341.

¿Habla Español? Si necesita esta información en español, contáctenos a preguntas@ecy.wa.gov.



Healthy Actions

to remove dirt from your home



**WASH YOUR
HANDS**
before eating



**MOP AND
VACUUM**
once a week



**WASH ALL FRUITS
& VEGETABLES**
before eating



**TAKE OFF
YOUR SHOES**
at the door



CLEAN YOUR PETS
before they enter
your home



**WEAR SHOES
AND GLOVES**
when gardening and
working outdoors



**WASH CHILDREN'S
TOYS & PACIFIERS**
frequently

Why is it important to do these healthy actions?

There are many unhealthy things in dirt, including harmful chemicals like dioxins that can hurt your body. Some areas in Ridgefield are contaminated with dioxins. These chemicals remain in the soil and can be a long term health risk.

These healthy actions are simple steps you and your family can take to reduce contact with dioxins in the dirt.

**Alternate formats
available upon request**

For more information please contact:

Site Manager

Craig Rankine – Dept. of Ecology
360.690.4795 • Craig.Rankine@ecy.wa.gov

Public Involvement

Stacy Galleher - Dept. of Ecology
360.407.6255 • Stacy.Galleher@ecy.wa.gov



<https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=3020>

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This list of frequently asked questions explains how yard replacement works and what to expect during the cleanup process.

Q: While I wait for cleanup, what can I do to protect myself and my family?

A: You can still use the areas of your yard that have dioxins, but we recommend reducing contact with soil. To reduce contact with soil we recommend you cover bare soil with mulch, repair bare patches of lawn, and garden in raised beds. See the healthy actions poster included in your packet for additional recommendations.

Q: What is the process for soil removal and replacement?

A: Our cleanup staff will explain cleanup and landscaping options. We will:

1. Meet with you to gather information about your yard and draft a cleanup plan.
2. Meet again to review the plan, make any changes needed, and get final permission from the homeowner.
3. Create construction documents, get necessary permits, and go out to bid for a contractor.
4. Dig up contaminated soils and take them to the landfill.
5. Bring in new soil to backfill the area and restore the landscaping.
6. Give you documentation of the soil removal work completed on your yard.

Q: How will you restore my landscaping?

A: We will restore the yard based on measurements and photographs taken during cleanup plan development and contractor's surveying. The options for landscaping include:

- Restore with the same or in-kind landscaping as before.
- Replace some of the lawn with mulched beds.

Some plants can be removed, transplanted, or replaced with nursery plants. The contractor will use either sod or hydro seed to replace lawn areas. They will maintain the new lawn for an agreed-upon length of time after installation.



We remove the top 6 to 18 inches of contaminated soil.



We bring in new soil to backfill the area.



We install sod or seed to replace the lawn.

Q: When will cleanup work start on my yard?

A: We hope to start planning this winter and begin cleanup summer/fall 2016.

Q: How long will soil removal and yard restoration take?

A: Planning and preparation for soil removal can take several months. Cleanup and restoration of the yard can take up to six weeks. Contractors may need more time if there is inclement weather or holidays.

Q: What areas may not be included in soil removal?

A: We likely cannot remove soil under:

- Buildings with foundations.
- Low decks.
- Sidewalks, patios, or driveways.
- Walls, ponds, or pools.
- Septic tanks or other underground structures.

We may place a covering of soil or other landscaping material in areas where we cannot remove soil.

Q: Are there any costs to the property owner?

A: A normal soil removal project should not cost the property owner anything. After cleanup, expenses may include watering and maintaining your new lawn or plants (after the contractor maintenance period has ended) and paying for any extra landscaping you want.

Q: Can I opt out of the program now and join later?

A: No, you cannot join after you have opted out. This cleanup is voluntary but only offered for a limited time.



The homeowner must mow, water and care for the new lawn after contractor maintenance period.

Q: What are my responsibilities as the property owner?

A: Provide yard access for any additional sampling or topographic surveying needed. Provide input during our yard restoration and cleanup planning visits.

Before work starts, you must provide access to the yard, driveway and adjacent street or alley. This may include parking vehicles on the street and out of the driveway, moving lawn equipment and furniture, and picking up kids' play equipment.

Our contractor will water and care for the new landscaping for an agreed-upon length of time. After this, you must care for the new lawn and other plants.

For More Information

Visit: <https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=3020>

Facility ID# 1019 Cleanup Site ID# 3020

Questions? Contact:

Cleanup Project Manager, Craig Rankine, 360-690-4795, Email: Craig.Rankine@ecy.wa.gov
Public Involvement Coordinator, Stacy Galleher, 360-407-6255, Email: Stacy.Galleher@ecy.wa.gov
To request **ADA accommodation**, call Ecology at 360-407-6300, Relay Service 711, or TTY 877-833-6341.



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Vancouver Field Office • 12121 NE 99th St, Suite 2100
Vancouver, WA 98661-4622 • (360) 690-7171

711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341
If you need this letter in another format, please call (360) 407-6300

DATE

The Department of Ecology (Ecology) and Port of Ridgefield (port) took soil samples from the yard at ADDRESS. The dioxin level in this yard is below the state cleanup level. This yard does not need cleanup. The enclosed map shows yard sample locations and results.

However, some right-of-way areas near this property are above the state cleanup level. Soil will eventually be replaced in areas that are above the cleanup level. We will continue sampling the neighborhood and develop a plan for cleanup. When we have more information we will provide it to homeowners.

We still recommend that you take these healthy actions to limit exposure to neighborhood soil. There is no immediate health concern but there is a long term risk. Long-term, daily exposure to the dioxin level found in your area raises the risk of certain health problems. The health risk comes from accidentally swallowing, or breathing in the dust from soil, but not from touching it. These simple actions will reduce your family's exposure:

- Wash hands after contact with soil, especially for children.
- Take off shoes at the door or use a doormat.
- Vacuum regularly and dust with a damp cloth.
- Wipe pets' paws and brush off their fur before coming inside.

The enclosed materials offer more advice. For health questions, please contact the WA Department of Health at Lenford.OGarro@doh.wa.gov or (360) 236-3376.

We are continuing to sample soil in the neighborhood. Once we have completed our sampling we will send out more information. Again, this yard does not need cleanup.

For the latest information on the cleanup process, visit our website at <https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=3020>.

If you have questions or concerns about the yard cleanup program, please contact me.

Thank you for your participation!

Sincerely,

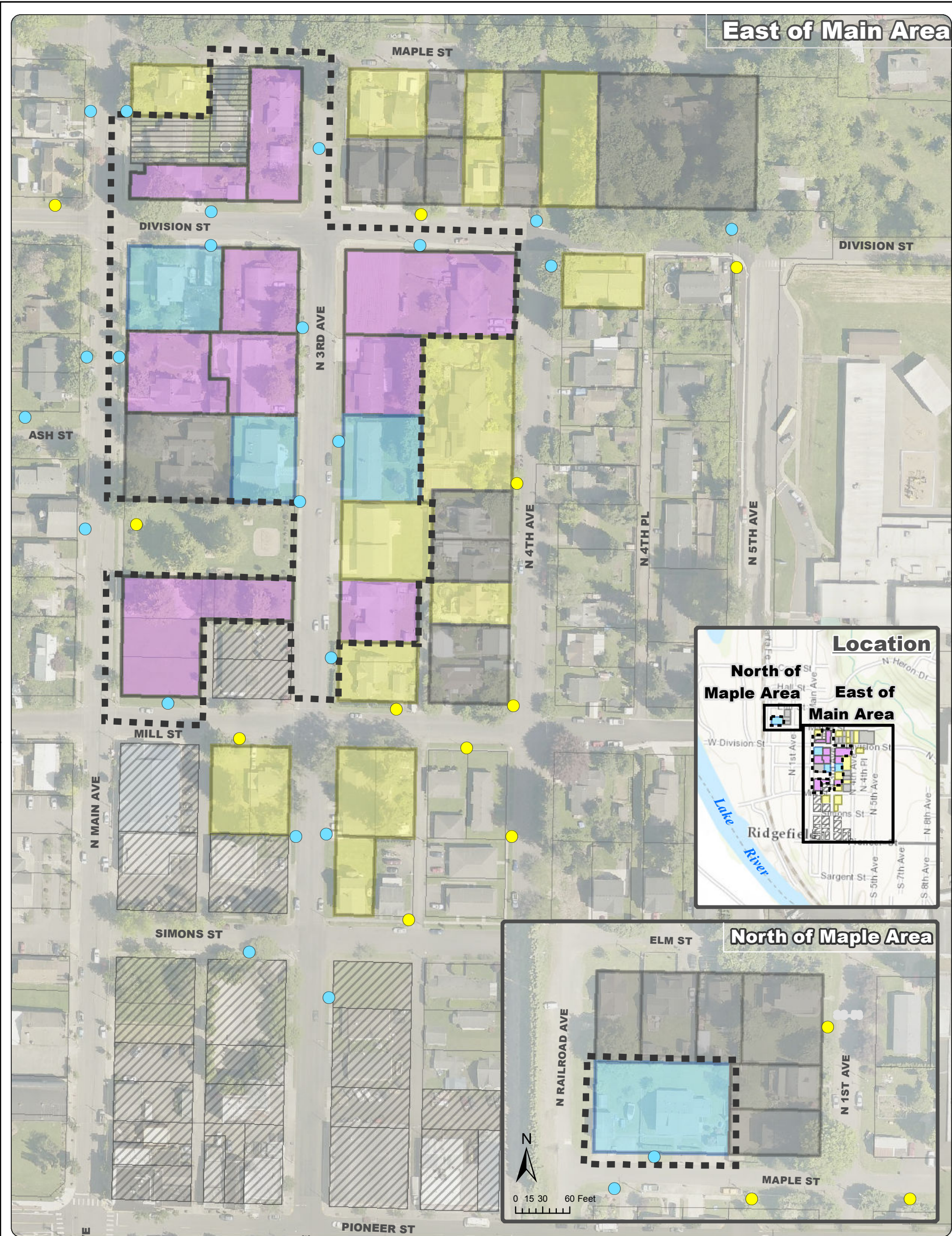
A handwritten signature in black ink that reads "Craig Rankine". The signature is written in a cursive, flowing style.

Craig Rankine
Cleanup Project Manager
(360) 690-4795
Craig.Rankine@ecy.wa.gov

Enclosed Materials

- Yard results and sampling locations map
- Neighborhood soil sampling results map
- Healthy actions handout

Map of Neighborhood Results



Source: Aerial photograph (2014) and tax lots (2014) obtained from Clark County GIS.

Ridgefield, Washington

- Legend**
- Extent of Contamination
 - Clark County Tax Lots (2014)
 - Right of Way Surface Sample Locations (0- 0.5 ft)**
 - Results Below Cleanup Level
 - Results Above Cleanup Level

- Property Type**
- Results Below Cleanup Level
 - Results Above Cleanup Level
 - Want to Sample Yard
 - Non-Residential or Minimal Exposed Soil
 - Need for Sampling To Be Determined
 - No Sampling Needed

Healthy Actions

to remove dirt from your home



**WASH YOUR
HANDS**
before eating



**MOP AND
VACUUM**
once a week



**WASH ALL FRUITS
& VEGETABLES**
before eating



**TAKE OFF
YOUR SHOES**
at the door



CLEAN YOUR PETS
before they enter
your home



**WEAR SHOES
AND GLOVES**
when gardening and
working outdoors



**WASH CHILDREN'S
TOYS & PACIFIERS**
frequently

Why is it important to do these healthy actions?

There are many unhealthy things in dirt, including harmful chemicals like dioxins that can hurt your body. Some areas in Ridgefield are contaminated with dioxins. These chemicals remain in the soil and can be a long term health risk.

These healthy actions are simple steps you and your family can take to reduce contact with dioxins in the dirt.

**Alternate formats
available upon request**

For more information please contact:

Site Manager

Craig Rankine – Dept. of Ecology
360.690.4795 • Craig.Rankine@ecy.wa.gov

Public Involvement

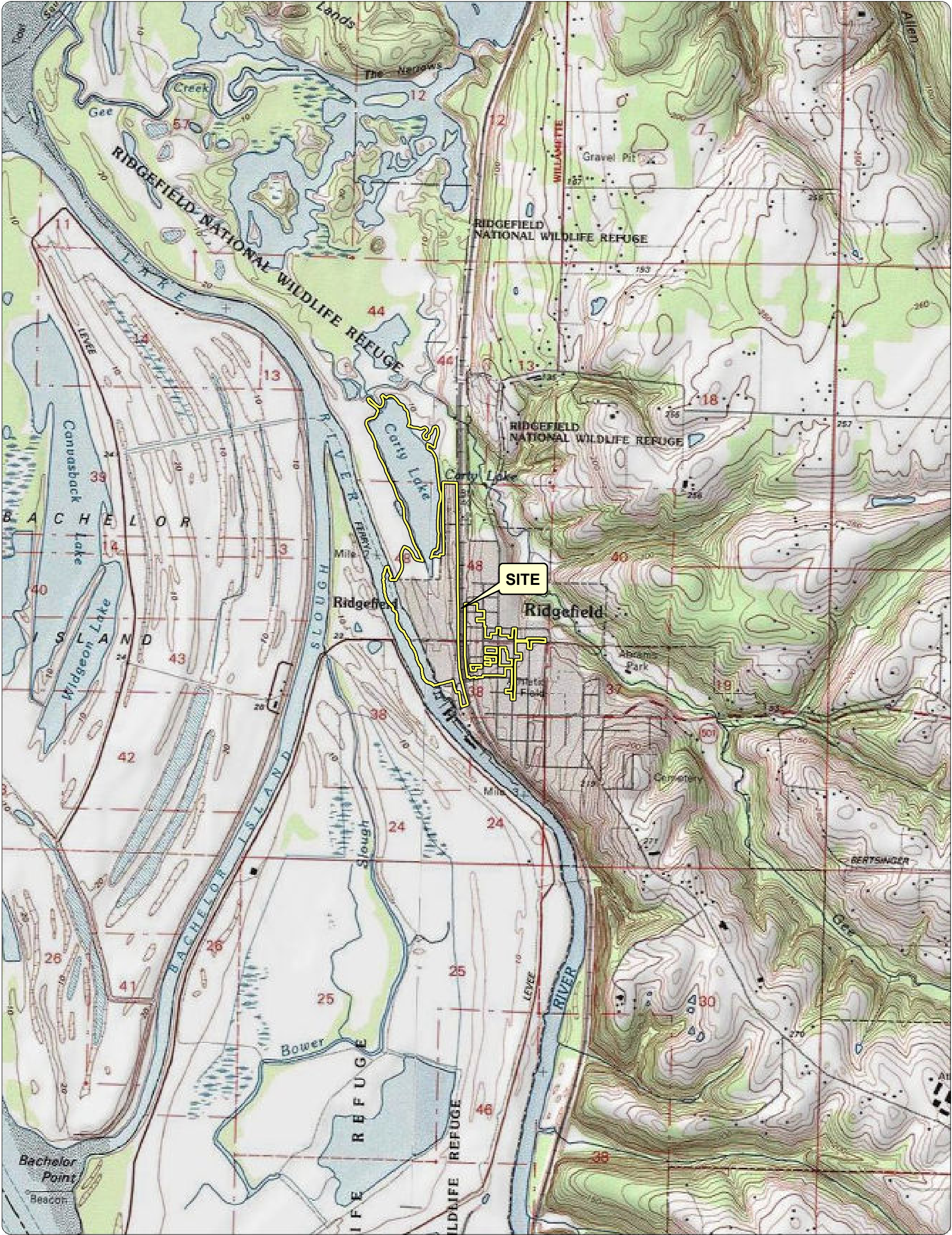
Stacy Galleher - Dept. of Ecology
360.407.6255 • Stacy.Galleher@ecy.wa.gov



<https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=3020>

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EXHIBIT B
Pacific Wood Treating
Agreed Order No. DE 12769
Remedial Action Location Diagram



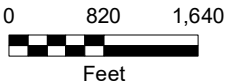
Source: Topographic Quadrangle obtained from ArcGIS Online
Services/NGS-USGS TOPO/US Geological Survey (1999)
7.5-minute topographic quadrangle: Ridgefield
Address: Lake River Industrial Site
111 W. Division Street, Ridgefield, WA 98642
Section: 24 Township: 4N Range: 1W Of Willamette Meridian

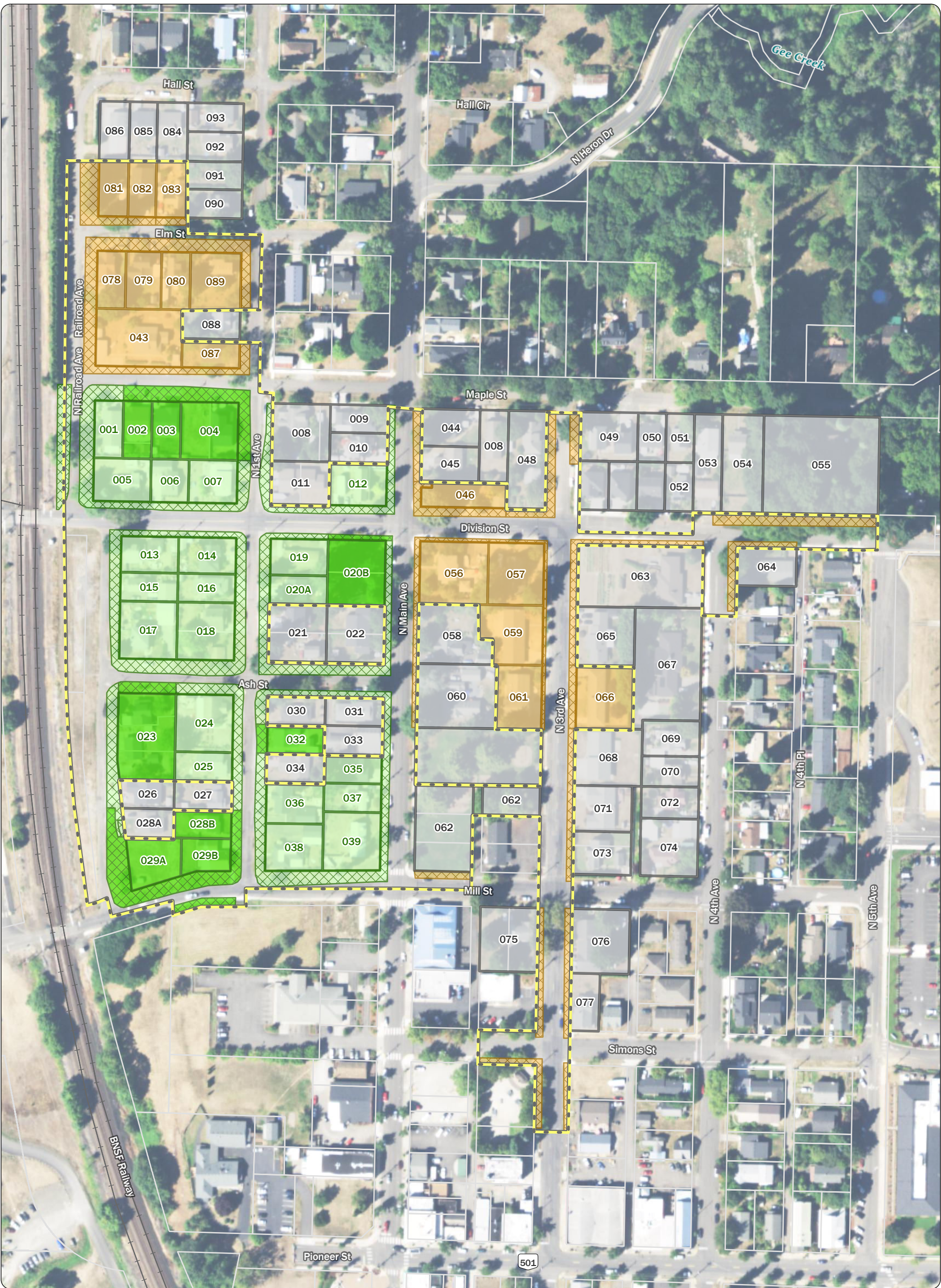
Legend

-  Former Pacific Wood Treating Site

Exhibit B
Figure 1-1
Site Location

Former PWT Site
Ridgefield, Washington





Note
ROW = right of way.

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

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Property Cleanup Status

-  Cleanup Property (Not Completed)
-  2016 Cleanup Property (Completed)
-  2017 Cleanup Property (Completed)
-  No Cleanup Needed

Legend

Right of Way Cleanup Status

-  ROW Cleanup Area (Not Completed)
-  2016 ROW Cleanup Area (Completed)
-  2017 ROW Cleanup Area (Completed)

-  Off-Property Portion Site
-  Parcel
-  Railroad

**Exhibit B
Figure 1-2
Remedial Action
Location Diagram**
Former Pacific
Wood Treating Site
Ridgefield, WA

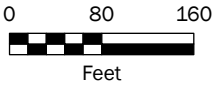


EXHIBIT C
Pacific Wood Treating
Agreed Order No. DE 12769

SCOPE OF WORK AND SCHEDULE OF DELIVERABLES

Scope of Work

The work under this Agreed Order (No. DE 12769) requires the Port of Ridgefield (Port) to implement the work outlined in the Remedial Action Location (Exhibit A) described in the 2024 Cleanup Action plan (CAP) (Exhibit A). An interim action conducted by the Port on Site in 2016 and 2017 removed dioxin contaminated soils at twenty-nine (29) of the forty-four (44) off-property residential yards and their associated public rights-of-way, leaving dioxin contaminated soils on fifteen (15) remaining off-property residential yards and their associated rights-of-ways, and miscellaneous public rights-of-way in need of additional soil removal.

Schedule of Deliverables

The schedule for project work and deliverables described in the 2024 Cleanup Action Plan is presented below. If the date for submission of any item or notification required by this Schedule of Deliverables occurs on a weekend, state or federal holiday, the date for submission of that item or notification is extended to the next business day following the weekend or holiday. Where a deliverable due date is triggered by Ecology notification, comments or approval, the starting date for the period shown is the date the City received such notification, comments or approval by certified mail, return receipt requested or by e-mail, unless otherwise noted below. Where triggered by Ecology receipt of a deliverable, the starting date for the period shown is the date Ecology receives the deliverable by certified mail, return receipt requested, by e-mail or the date of Ecology signature on a hand-delivery form.

Shared Deliverables:

Deliverables	Completion Times
Submit First Quarterly Report	Within ninety (90) calendar days following the effective date of the Agreed Order and continue through the AO's duration
Submit a Draft Engineering Design Report (EDR)	Within one-hundred and twenty (120) calendar days following the effective date of the Agreed Order
Submit a Final Engineering Design Report (EDR)	Within thirty (30) calendar days following the receipt and incorporation of Ecology comments on the Draft EDR

First Group of Residential Properties (10) and Associated Rights-of-Way:

Deliverables	Completion Times
Submit Engineer Stamped Topographic/Property Boundary Surveys Encompassing All eleven (10) Residential Properties and Their Associated Rights-Of-Way	Within one-hundred and twenty (120) calendar days following the effective date of the Agreed Order
Submit Draft Construction Plans and Specifications for eleven (10) Residential Properties and Their Associated Rights-Of-Way Excavations and Restoration	Within ninety (90) calendar days following the finalization of the EDR
Submit Final Construction Plans and Specifications for eleven (10) Residential Properties and Their Associated Rights-Of-Way Excavations and Restoration	Within thirty (30) calendar days following the receipt and incorporation of Ecology comments on the Draft Construction Plans and Specifications
Submit Draft Residential Yard Cleanup Agreements (Between the Port of Ridgefield and resident) for Ecology Review	Within ninety (90) days of completion of the final construction plans and specifications
Submit Final Residential Yard Cleanup Agreements	Within thirty (30) days of receipt of Ecology's comments
Begin Contractor Procurement for Remedial Activities	Within ninety (90) calendar days following the finalization of the Final Construction Plans and Specifications
Start Fieldwork, Begin Remedial Action (10 Residential Properties and Their Associated Rights-Of-Way)	Start no later than thirty (30) days after Ecology approval of Final Residential Yard Cleanup Agreements.
Submit Completion Report for eleven (10) Residential Properties and Their Associated Rights-of-Way Excavations and Restoration	Within ninety (90) days of completion of field work

Final Group of Residential Properties (5) and Remaining Rights-of-Way:

Submit Engineer Stamped Topographic/Property Boundary Surveys Encompassing All four (5) Residential Properties and Their Associated Rights-Of-Way	Within one-hundred and twenty (120) calendar days following execution of the grant funding the final stage of the off-property cleanup.
Submit Draft Construction Plans and Specifications for four (5) Residential Properties, their Associated Rights-Of-Way, and Miscellaneous Rights-Of-Way Excavations and Restoration	Within one-hundred and twenty (120) calendar days following execution of the grant funding the final stage of the off-property cleanup.

Submit Final Construction Plans and Specifications for four (5) Residential Properties, their Associated Rights-Of-Way, and Miscellaneous Rights-Of-Way Excavations and Restoration	Within thirty (30) calendar days following the receipt and incorporation of Ecology comments on the Draft Construction Plans and Specifications
Submit Draft Residential Yard Cleanup Agreements (Between the Port of Ridgefield and resident) for Ecology Review	Within ninety (90) calendar days of completion of the Final Construction Plans and Specifications
Submit Final Residential Yard Cleanup Agreements	Within thirty (30) calendar days of receipt of Ecology's comments
Begin Contractor Procurement for Remedial Activities	Within ninety (90) calendar days following the finalization of the Final Construction Plans and Specifications
Start Fieldwork, Begin Remedial Action (5 Residential Properties, their Associated Rights-Of-Way, and Miscellaneous Rights-Of-Way)	Start no later than thirty (30) days after Ecology approval of Final Residential Yard Cleanup Agreements.
Submit Completion Report for four (5) Residential Properties, their Associated Rights-Of-Way, and Miscellaneous Rights-Of-Way Excavations and Restoration	Within ninety (90) days of completion of field work

**CITY OF RIDGEFIELD
REQUEST FOR COUNCIL ACTION**

MEETING DATE: November 7, 2024

AGENDA ITEM NAME: Motion - Approval of Agreed Order Cooperation Agreement with Port of Ridgefield

GOVERNING LEGISLATION

RCW 35A.11.010 and 020

PREVIOUS COUNCIL ACTION TAKEN:

N/A

SUMMARY/BACKGROUND:

- The Washington State Department of Ecology (“Ecology”) has identified a facility where there has been a release of hazardous substances, commonly known as Pacific Wood Treating Corporation, Ecology Facility Site Identification No. 1019 (the “Site”).
- In 1996, Ecology and the Port entered into an Agreed Order for the Port to conduct interim actions at the Site;
- In 2001, Ecology and the Port entered into another Agreed Order which: (i) divided the Site into four (4) cells; (ii) superseded the 1996 AO work that had not yet been completed; and (iii) described the work to be performed as including removing free product, soil, and ground water contamination from the most highly contaminated portions of Cell 1 and Cell 2, and conducting an Remedial Investigation/Risk Assessment/Feasibility Study (“RI/FS”) of the Site;
- In 2013, Ecology, the Port, and the City entered into a Consent Decree that required the defendants to conduct certain remediation activities described in the Cleanup Action Plan (“CAP”) exhibited to the 2013 CD related to certain real property that made up a portion of the Site, described as: the Lake River Industrial Site (“LRIS”); portions of the Lake River, Carty Lake, and Railroad Avenue parcels; the Railroad Overpass parcel; and the Port Marina. The 2013 CD did not address the “Off-Property Portion” of the Site, defined below, although it acknowledged that additional remedial action was required for the Off-Property Portion;
- In 2014, Ecology and the Port entered into a third Agreed Order to conduct an RI/FS to address the Off-Property Portion of the Site, which is defined as a portion of the Site where dioxin contamination is found in soil of a residential neighborhood;
- In 2016 and 2017, soil removal and replacement was completed in certain properties and associated ROWs in the Off-Property Portion of the Site, pursuant to the Pacific Wood Treating Off-Property Portion Interim Action Work Plan, dated April 4, 2016;
- The Port and City have negotiated a new Agreed Order No. DE 12769 with Ecology (the “2024 AO”) which will require implementation of the 2024 Off-Property Portion Cleanup Action Plan (the “2024 AO CAP”) attached to the 2024 AO as Exhibit A. The 2024 AO will be executed by the Parties concurrently with this Agreement.

BUDGET/FINANCIAL IMPACTS:

N/A

RECOMMENDED ACTION OR MOTION:

"I move to approve the Agreed Order Cooperation Agreement with the Port of Ridgefield as presented and give authorization to the City Manager to sign said agreement."

STAFF CONTACT: Steve Stuart, City Manager

ATTACHMENTS:

1. AO Cooperation Agreement_11-4-24(final)
2. Exhibit A_Fig1-2_Site_Vicinity_Diagram
3. Exhibit B_Fig4-2 Cleanup Status

AGREED ORDER COOPERATION AGREEMENT

This **AGREED ORDER COOPERATION AGREEMENT** (the “Agreement”) is made between the **CITY OF RIDGEFIELD** (the “City”), a Washington municipal corporation, and the **PORT OF RIDGEFIELD** (the “Port”), a Washington municipal corporation, herein after referred to individually as a “Party” and collectively as “Parties.”

WHEREAS, the Washington State Department of Ecology (“Ecology”) has identified a facility where there has been a release of hazardous substances, commonly known as Pacific Wood Treating Corporation, Ecology Facility Site Identification No. 1019 (the “Site”), which is generally located in the vicinity of 111 West Division Street, Ridgefield, Washington, as shown on the Site diagram attached hereto as **Exhibit “A,”** and is defined by the extent of contamination caused by the release of hazardous substances at the Site;

WHEREAS, in 1996, Ecology and the Port entered into Agreed Order No. DE 96TC-S304 (the “1996 AO”) for the Port to conduct interim actions at the Site in conformance with previous studies and address the most highly contaminated area of the Site – the tank farm area;

WHEREAS, in 2001, Ecology and the Port entered into Agreed Order No. 01TCPSR-3119 (the “2001 AO”) which: (i) divided the Site into four (4) cells; (ii) superseded the 1996 AO work that had not yet been completed; and (iii) described the work to be performed as including removing free product, soil, and ground water contamination from the most highly contaminated portions of Cell 1 and Cell 2, and conducting an Remedial Investigation/Risk Assessment/Feasibility Study (“RI/FS”) of the Site;

WHEREAS, in 2013, Ecology, the Port, and the City entered into a Consent Decree filed under Clark County Superior Court cause number 13-2-03830-1 (the “2013 CD”). The 2013 CD required the defendants to conduct certain remediation activities described in the Cleanup Action Plan (“CAP”) exhibited to the 2013 CD related to certain real property that made up a portion of the Site, described as: the Lake River Industrial Site (“LRIS”); portions of the Lake River, Carty Lake, and Railroad Avenue parcels; the Railroad Overpass parcel; and the Port Marina. The 2013 CD did not address the “Off-Property Portion” of the Site, defined below, although it acknowledged that additional remedial action was required for the Off-Property Portion;

WHEREAS, in 2014, Ecology and the Port entered into Agreed Order No. DE 11057 (the “2014 AO”) to conduct an RI/FS to address the Off-Property Portion of the Site, which is defined therein as a portion of the Site where dioxin contamination is found in soil of a residential neighborhood. The Off-Property Portion is depicted here on **Exhibit B**. The rights-of-way depicted on **Exhibit B** are areas for which the City possesses a property right, but does not necessarily own the property in fee (the “ROWS”);

WHEREAS, in 2016 and 2017, soil removal and replacement was completed in certain properties and associated ROWs in the Off-Property Portion of the Site, pursuant to the Pacific Wood Treating Off-Property Portion Interim Action Work Plan, dated April 4, 2016. This work is the “Interim Action”;

WHEREAS, the Port and City have negotiated a new Agreed Order No. DE 12769 with Ecology (the “2024 AO”) which will require implementation of the 2024 Off-Property Portion Cleanup Action Plan (the “2024 AO CAP”) attached to the 2024 AO as Exhibit A. The 2024 AO will be executed by the Parties concurrently with this Agreement;

WHEREAS, the 2024 AO provides that, to the extent permitted by law, the Port and City agree to indemnify, save, and hold the State of Washington, its employees, and agents harmless from any and all claims or causes of action for certain causes of action arising from or on account of the acts or omissions of the Port and City in entering into and implementing the 2024 AO (the “AO Indemnification”);

WHEREAS, the “Work to be Performed” described in the 2024 AO constitutes the “Work”;

WHEREAS, the Parties wish to enter into this Agreement in order to provide access for the Port to conduct the outstanding Work remaining, as well as to fairly contribute between themselves the cost of the Work;

WHEREAS, that prior to the execution of this Agreement, the Port had, at its own expense, and without contribution from the City, performed and completed the remediation activities described in the 1996 AO, 2001 AO, 2013 CD, and the 2014 AO; and

WHEREAS, the Parties have received reasonable assurances from the Ecology that Ecology has and will provide the grant funds necessary to complete the Work.

NOW, THEREFORE, in consideration of the foregoing, and the mutual promises and covenants contained herein, the Parties agree as follows:

1. **ACCESS.** The City grants its permission to the Port to have non-exclusive access to the ROWs to the extent the City has a property right in those ROWs to conduct the Work. The Port shall coordinate the Work to minimize impacts to the City.

1.1 **Waste Generation and Management.** The Port shall be the designated generator of any waste produced in performing the Work and shall be fully responsible for preparation and execution of any manifests required for the management of such waste.

1.2 **Performance of the Work.** The Port shall not permit any damage to the ROWs as a result of the performance of the Work, except as otherwise required to perform the Work. Except as otherwise provided, the Port shall repair, as soon as is reasonably practicable, any damage caused to the ROWs resulting from the performance of the Work, in accordance with the 2024 AO CAP. The Port shall have no duty to repair damage caused in performance of the Work unless the City provides written notice of damage to the Port within forty-five (45) days of completion of the Work. The notice shall describe the location and extent of the damage so that the Port can pursue legal remedies, including enforcing warranties against its contractors. For purposes of this Agreement, an ROW is not damaged if after completion of the Work, the ROW is in equal or better condition than it was before the Work started. Also, for purposes of this Agreement, the Port shall have no responsibility for the cost of repairing ROWs that are identified and scheduled in the City’s Five-Year Street Plan for maintenance, repair, or repaving.

1.3 **Cooperation with the Work.** The City shall reasonably cooperate with the Port's efforts to effectuate the Work and shall not unreasonably withhold permission to carry out, and shall not interfere with, such activities as may be necessary for the Port to exercise its rights or fulfill its obligations under the Agreement. The City does not have authority to direct the Work.

1.4 **Data Interpretation and Data Results.** The Port shall cause its environmental consultant to provide the City with copies of all data, data interpretations, and data reports generated from the Work performed at the ROWs.

2. **COSTS.** The City shall not be responsible for the costs of the Work or the costs of the Interim Action, which shall be fully borne by the Port. Provided the City's actions or inactions do not cause an increase in oversight costs or attorneys' fees or costs incurred in the performance of the Work, the City shall not be responsible for payment of any Ecology oversight costs or attorneys' fees, or costs incurred in the performance of the Work (the "Remediation Costs"). The Port hereby releases the City from liability for all Remediation Cost and costs of the Interim Action.

2.1 **Grant Cooperation.** The City shall reasonably cooperate with the Port's efforts to obtain remedial grant funding from Ecology or grants from other sources for the Work. The Port shall not charge the City for the Port's costs in seeking or obtaining such funding.

3. **PORT IS THE LEAD AGENCY.** The Port shall be responsible for completing the Work remaining to be conducted. The environmental consultant conducting the Work shall take direction regarding management and control of the Work from the Port.

4. **RECIPROCAL INDEMNIFICATION.** To the extent permitted by law, and as limited by Section 9 of this Agreement, the Port shall release, indemnify, save, defend, and hold harmless the City, its elected officials, employees, and agents from and against any and all claims, controversies, actions, causes of action, demands, judgments, orders, damages, costs, expenses, and liabilities (collectively, "Claims") for any bodily injury, including, without limitation death or property damage arising from the performance of the Work by the Port, its consultants, contractors, subcontractors, and agents, except to the extent caused by the negligent acts or omissions or willful misconduct of the City. Additionally, the Port shall release, indemnify, save, defend, and hold harmless the City, its elected officials, employees, and agents, from and against any Claims for which the State of Washington or Ecology seeks to trigger the AO Indemnification against the City, except to the extent such Claim arises from the negligent acts or omissions or willful misconduct of the City, its consultants, contractors, subcontractors, or agents.

Likewise, to the extent permitted by law, and as limited by Section 9 of this Agreement, the City shall release, indemnify, save, defend, and hold harmless the Port, its elected officials, employees, and agents, from and against any and all Claims for any bodily injury, including, without limitation death or property damage arising from the performance of any of the Work by the City, its consultants, contractors, subcontractors, and agents, except to the extent caused by the negligent acts or omissions or willful misconduct of the Port.

Additionally, the City shall release, indemnify, save, defend, and hold harmless the Port, its elected officials, employees and agents, from and against any Claims for which the State of

Washington or Ecology seeks to trigger the AO Indemnification against the Port, except to the extent such Claim arises from the negligent acts or omissions or willful misconduct of the Port's consultants, contractors, subcontractors, or agents. Moreover, the City shall release, indemnify, save, defend, and hold harmless the Port, its elected officials, employees, and agents, from and against any and all Claims arising from any future work performed by the City, its consultants, contractors, subcontractors, or agents, with the exclusion of Work defined under this Agreement, in the ROWs, including, but not limited to, the work identified and scheduled in the City's Five-Year Street Plan for maintenance, repair, or repaving.

5. RECIPROCAL LIMITED WAIVER OF TITLE 51. TO THE EXTENT AN EMPLOYEE, AGENT, OR CONTRACTOR OF THE PORT BRINGS ANY CLAIM AGAINST THE CITY FOR INJURIES OR DAMAGES ARISING OR RESULTING FROM THE WORK, THE PORT HEREBY WAIVES IMMUNITY FROM ANY ACTION OF THE CITY SEEKING INDEMNIFICATION FROM OR CONTRIBUTION FOR THE CLAIM, AND THE PORT SPECIFICALLY WAIVES IMMUNITY UNDER TITLE 51 RCW OR ANY SIMILAR WORKERS' COMPENSATION SCHEME FOR ANY SUCH INDEMNIFICATION OR CONTRIBUTION CLAIM OF THE CITY.

TO THE EXTENT AN EMPLOYEE, AGENT, OR CONTRACTOR OF THE CITY BRINGS ANY CLAIM AGAINST THE PORT FOR INJURIES OR DAMAGES ARISING OR RESULTING FROM THE WORK, THE CITY HEREBY WAIVES IMMUNITY FROM ANY ACTION OF THE PORT SEEKING INDEMNIFICATION FROM OR CONTRIBUTION FOR THE CLAIM, AND THE CITY SPECIFICALLY WAIVES IMMUNITY UNDER TITLE 51 RCW OR ANY SIMILAR WORKERS' COMPENSATION SCHEME FOR ANY SUCH INDEMNIFICATION OR CONTRIBUTION CLAIM OF THE PORT.

Port Initial

City Initial

6. ENVIRONMENTAL INDEMNIFICATION. To the extent permitted by law, the Port shall indemnify, save, defend (with legal counsel suitable to the City), and hold the City harmless from any and all Claims arising from the release of Hazardous Substances on the ROWs caused in whole or in part by the activity of the Port, and/or its contractors, in performing the Work. The term "Hazardous Substances," as used herein, shall mean any substance heretofore designated as hazardous under the Resource Conservation and Recovery Act, 42 USC Sec. 6901 *et seq.*; the Federal Water Pollution Control Act, 33 USC Sec. 1251 *et seq.*; the Clean Air Act, 42 USC Sec. 7401 *et seq.*; the Comprehensive Environmental Response Compensation and Liability Act of 1980, 42 USC Sec. 9601 *et seq.*; or the Hazardous Waste Cleanup-Model Toxics Control Act, RCW 70A.305 *et seq.*, all as enacted at the time of the Effective Date of this Agreement and subject to all regulations promulgated thereunder.

7. EFFECTIVE DATE. The Effective Date of this Agreement is the date that the following shall have occurred: (i) the Agreement has been executed by both Parties; and (ii) Ecology and the Parties have fully executed the 2024 Agreed Order.

8. DURATION. This Agreement shall remain in full force and effect until the completion of the Work. Regardless, all clauses of this Agreement which require performance beyond the termination date shall survive the termination of this Agreement until fully performed.

AGREED ORDER COOPERATION
AGREEMENT – 4

9. **NO AGENCY RELATIONSHIP.** This Agreement shall not be construed to create, either expressly or by implication, the relationship of agency or partnership between the Parties. No Party, including, without limitation, such Party's agents, employees, contractors, or attorneys, is authorized to act on behalf of the other Party in any manner related to the subject of this Agreement. No Party shall be liable for the acts, errors, or omissions of the officers, agents, employees, or contractors of the other Party entered into, committed, or performed with respect to or in the performance of this Agreement.

10. **GOVERNING LAW AND JURISDICTION.** This Agreement shall be construed under and in accordance with the laws of the State of Washington. In the event any action is brought to enforce any of the provisions of this Agreement, it shall be subject to the sole jurisdiction and venue in Clark County Superior Court.

11. **LIMITATION OF WAIVER.** No waiver of any term, provision, or condition of this Agreement, whether by conduct or otherwise, shall be deemed or construed to be a further continuing waiver of any such term, provision, or condition or any other term, provision, or condition of this Agreement.

12. **NON-WAIVER.** Nothing in this Agreement shall be construed to waive any rights, claims, privileges, or defenses that any Party shall have against any person or entity who is a non-participant in this Agreement. A failure to act on any default by any Party shall not be deemed a waiver to protest any future defaults.

13. **NOTICE.** All notices which may or are required to be given pursuant to this Agreement shall be in writing, and shall be delivered to the Parties at the following addresses:

To the City: Steve Stuart
City Manager
City of Ridgefield
230 Pioneer Street
P.O. Box 608
Ridgefield, WA 98642

Copy to: Holly M. Stafford
CSD Attorneys at Law P.S.
1500 Railroad Avenue
Bellingham, WA 98225

To the Port: Randy Mueller
Chief Executive Officer
Port of Ridgefield
P.O. Box 55
Ridgefield, WA 98642

Copy to: Bill Eling
The Law Office of William J. Eling
P.O. Box 698
Brush Prairie, WA 98606

Any such notices shall be either (i) sent by certified mail, return receipt requested, postage prepaid in the U.S. mail, in which case notice shall be deemed delivered the earlier of the date signed for or three (3) days after deposit; (ii) sent by a nationally recognized overnight courier, in which case notice shall be deemed delivered when actually delivered pursuant to the records of such courier; or (iii) hand delivered, in which case notice shall be deemed delivered when actually delivered.

14. **MODIFICATION.** No alteration, modification, amendment, or waiver of this Agreement shall be valid unless it is in writing and executed by all Parties hereto.

15. **NO THIRD-PARTY BENEFICIARIES.** This Agreement is for the sole and exclusive use of the Parties hereto, and none of the provisions of this Agreement shall be deemed to be for the benefit of any other person or entity.

16. **SUCCESSORS AND ASSIGNS.** This Agreement shall be binding upon the successors and assigns of the Parties. This Agreement shall not be assigned unless such assignment is in conformance with the Modification Section herein.

17. **NEUTRAL AUTHORSHIP.** Each of the provisions of this Agreement has been reviewed and negotiated and represents the combined work product of both Parties hereto. No presumption or other rules of construction which would interpret the provisions of this Agreement in favor or against the Party preparing the same shall be applicable in connection with the construction or interpretation of any of the provisions of this Agreement.

18. **CAPTIONS.** The captions of the Sections of this Agreement are only to assist the Parties in reading and understanding this Agreement, and shall have no effect upon the construction or interpretation of any part thereof.

19. **SEVERABILITY.** In case any one or more of the provisions contained in this Agreement shall for any reason be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provision thereof, and this Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.

20. **AUTHORITY.** Each person signing this Agreement represents and warrants that they have full power and authority to bind the Party on whose behalf they sign, and that upon execution and delivery of this Agreement by each of the Parties, this Agreement shall constitute as against each Party a valid and binding obligation, enforceable in accordance with its terms.

21. **ATTORNEYS' FEES.** Should any dispute commence between the Parties concerning the rights and duties arising out of this Agreement, the prevailing Party in such dispute, whether the dispute be resolved by litigation or other proceeding, shall be entitled to its attorneys' fees, costs, and expenses, in addition to such other relief as may be granted to it.

22. **COUNTERPARTS.** This Agreement may be executed in any number of counterparts, each of which shall be an original, and all of which shall constitute one (1) and the same Agreement. Any Party may execute and deliver this Agreement by transmitting an authorized signature via e-mail transmission, and copies of this Agreement executed and delivered by

AGREED ORDER COOPERATION
AGREEMENT – 6

means of e-mailed signatures shall have the same effect as copies executed and delivered with original signatures.

23. **ENTIRE AGREEMENT.** This Agreement constitutes the entire understanding of the Parties with respect to its subject matter.

IN WITNESS WHEREOF, the Parties hereto enter into this Agreement as of the date written below.

CITY OF RIDGEFIELD

DATE: _____

Departmental Approval:

City Manager
Print Name: _____

Department Head
Print Name: _____

Attest:

Approved as to form:

Finance Director
Print Name: _____

Office of the City Attorney
Name: _____

PORT OF RIDGEFIELD

Print Name: _____
Its: _____
Date: _____

**EXHIBIT A
SITE DIAGRAM**

EXHIBIT B
OFF-PROPERTY PORTION OF THE SITE



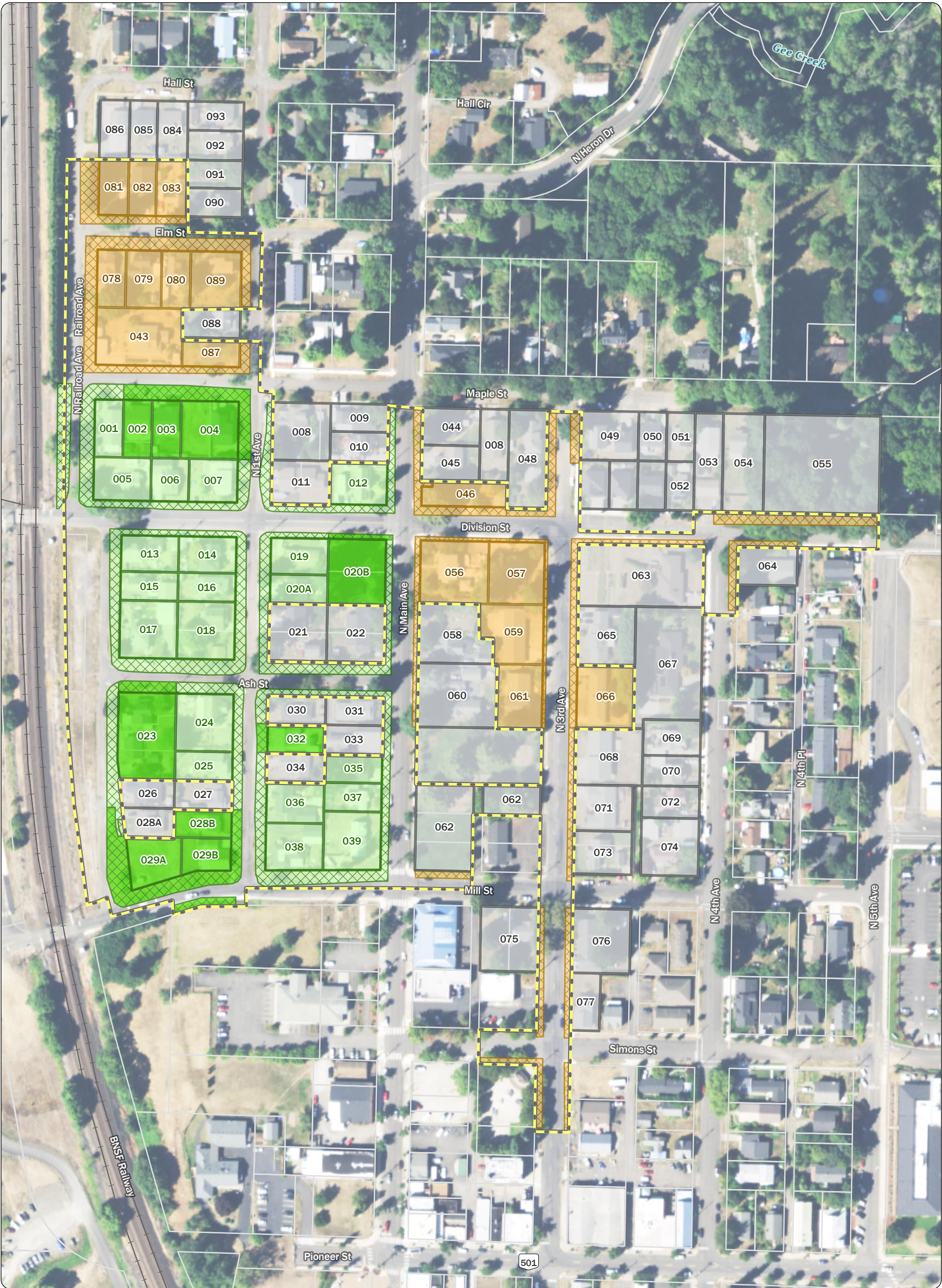
Source: Aerial photograph (2014), tax lots, and zoning data obtained from Clark County GIS.

Notes:
BNSF = Burlington Northern Sante Fe.
LRIS = Lake River Industrial Site.
Port = Port of Ridgefield.
PWT = Pacific Wood Treating.
RNWR = Ridgefield National Wildlife Refuge.
WWTP = Wastewater Treatment Plant.

- Area Designations**
- Clark County Tax Lots (2014)
 - Port Overpass Property
 - LRIS
 - City of Ridgefield WWTP

- Legend**
- Port Railroad Avenue Property
 - McCuddy's Marina Property
 - RNWR-Carty Unit
 - RNWR-River S Unit
 - BNSF Railroad Property
 - Off-Property Portion
 - Port Marina Property

Figure 1-2
Site Vicinity Diagram
Former PWT Site
Ridgefield, Washington



Note
ROW = right of way.

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

 **MAUL FOSTER ALONGI**
p. 971 544 2139 | www.maulfooster.com

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Property Cleanup Status

-  Cleanup Property (Not Completed)
-  2016 Cleanup Property (Completed)
-  2017 Cleanup Property (Completed)
-  No Cleanup Needed

Legend

Right of Way Cleanup Status

-  ROW Cleanup Area (Not Completed)
-  2016 ROW Cleanup Area (Completed)
-  2017 ROW Cleanup Area (Completed)

-  Off-Property Portion Site
-  Parcel
-  Railroad

Figure 4-2
Cleanup Status
Former Pacific
Wood Treating Site
Ridgefield, WA

