US Army Corps of Engineers®
Portland District

SEDIMENT QUALITY REPORT

BONNEVILLE DAM
COLUMBIA RIVER BASIN
COLUMBIA RIVER, OREGON AND WASHINGTON

Bonneville Dam

Sediment Quality Report
September 2020

EXECUTIVE SUMMARY

This report provides a detailed analysis of the existing conditions for the Bonneville Lock and Dam (Bonneville Dam) reach of the lower Columbia River. This reach encompasses the lower Columbia River, immediately downstream of Bonneville Dam, upstream to The Dalles Lock and Dam. The analysis of the existing conditions is limited to sediment. Both physical and chemical parameters associated with sediment quality are presented. In cases where biological data associated with sediment is available, a discussion of physical and chemical impacts to biological receptors is discussed.

CONTENTS

EXECUTIVE SUMMARY i
CONTENTS ii
ACRONYMS v

SECTION 1 - INTRODUCTION 1-1

1.1 STUDY AREA 1-1
1.2 RIVER SEGMENT DESCRIPTION 1-1
1.3 SEDIMENT EVALUATION FRAMEWORK GUIDANCE 1-1

SECTION 2 - SEDIMENT QUALITY 2-1

2.1 GENERAL DESCRIPTION 2-1
2.1.1 Geology and Soils 2-2
2.1.2 Sediment Loading in the Reservoir 2-4
2.1.3 Past Dredging 2-5
2.2 PAST STUDIES 2-6
2.2.1 Previous Studies 2-6
2.2.2 Existing 303(d) and 305(c) Status 2-9
2.2.3 Land Use Within the Segment 2-12
2.3 CHEMICALS OF CONCERN 2-12
2.3.1 Sources of Chemicals of Concern 2-13
2.4 SUMMARY OF EXISTING DATA 2-17
2.4.1 Physical Data 2-17
2.4.2 Chemical Data 2-19
2.4.3 Biological Data 2-24
2.4.4 Elutriate Data 2-35
2.4.5 Passive Sampler Data 2-35
2.5 RIVER SEGMENT DEVELOPMENT AND TRENDS 2-36
2.6 CONCEPTUAL SITE MODEL 2-36
2.6.1 Secondary Media and Release Mechanisms 2-37
2.6.2 Exposure Routes 2-37
2.6.3 Pathway Completeness 2-37

SECTION 3 - RECOMMENDATIONS AND CONCLUSIONS 3-1

3.1 RECOMMENDATIONS 3-1
3.1.1 Conceptual Site Model 3-1
3.1.2 Chemicals of Concern 3-1
3.2 CONCLUSIONS 3-1

SECTION 4 - TERMINOLOGY – CHEMISTRY AND CHEMICALS OF CONCERN 4-1

SECTION 5 - REFERENCES 5-1

SECTION 6 - SUPPLEMENTAL TABLE 6-1

TABLES

Table 2-1. Bonneville Reach Urban Areas 2-1
Table 2-2. Bonneville Reach Tributaries 2-2
Table 2-3. Wildfires within the Bonneville Reach Drainage Area 2-5
Table 2-4. Hanford Site Releases to the Columbia River Remedial Investigation, Data Summary Report – Data for Bonneville Reach Samples 2-7
Table 2-5. Washington State Water Quality Classifications and 303(d) Listings 2-10
Table 2-6. Oregon State water quality classifications and 303(d) listings 2-11
Table 2-7. General Chemistry and Grain Size Summary Statistics for Bradford Island Reference Area 2-17
Table 2-8. Organic Compounds Summary Statistics for Bradford Island Reference Area 2-20
Table 2-9. PCB Congener Summary Statistics for Bradford Island Reference Area 2-21
Table 2-10. Weighted Contaminant Concentrations and Percent TOC Detected in Sediments in a Reach of the Columbia River Near Skamania, Washington 2-22
Table 2-11. Metals Summary Statistics for Bradford Island Reference Area 2-23
Table 2-12. Concentration (mean ± SE) of Chlorinated Pesticides in Livers and Gonads of White Sturgeon from the Columbia River 2-24
Table 2-13. Concentration (mean ± SE) of PCBs in Livers and Gonads of White Sturgeon from the Columbia River 2-25
Table 2-14. Summary of 2004 Data for Nine Osprey Egg Samples Collected on the Columbia River (RM 146 – RM 286) 2-27
Table 2-15. Comparison of 1997–1998 and 2004 Data for Osprey Egg Samples Collected on the Columbia River (RM 29 – RM 286) 2-27
Table 2-16. The Incidence, Geometric Mean and Highest Concentration of PBDE Congeners Analyzed in Five Osprey Egg Samples from Lower Columbia River 2-28
Table 2-17. Least-Squares Geometric Mean Concentrations in Composite Samples of Whole Fish 2-29
Table 2-18. Contaminant Data for Larval Lamprey Collected in 2011 to 2012 2-30
Table 2-19. Contaminant Data for Surficial Sediments Collected from 2011 to 2012. 2-30
Table 2-20. Fish Fillet Data, Columbia Mainstem Probabilistic Sites 2-31
Table 2-21. Fish Fillet Data, Targeted Sites in Bonneville Reach 2-31
Table 2-22. PBDE Concentrations in Juvenile Chinook Salmon from the Lower Columbia River and Hatcheries 2-32
Table 2-23. Summary of Contaminant Concentrations in the Liver of Largescale Suckers on the Columbia River at Skamania, WA 2-33
Table 2-24 Chemical Concentrations (ng/g ww) in Composites of Male Fish Tissues Collected near Skamania, Washington 2-33
Table 2-25. Geometric Means of Major PBDE Congener Concentrations for Tissue Samples Collected near Skamania, Washington, in 2009 and Osprey Eggs 2-34
Table 2-26. Biota-Sediment Accumulation Factors and Biomagnification Factors Calculated for the Foodweb in the Columbia River near Skamania, Washington, in 2009 2-34
Table 2-27. Contaminant Concentrations in Liver of Male Largescale Sucker Collected from the Lower Columbia River near Skamania, Washington, in 2009 2-34

Table 2-28. Total Waste Indicator and Legacy Organic Contaminants Measured at Skamania, WA 2-35
Table 6-1. Significant Potential Contamination Sources Adjacent to the Bonneville Reach of the Columbia River 6-1
Table 6-2. Database Codes 6-25

FIGURES

Figure 2-1. Particle-Size Distribution of Bottom Sediments in Bonneville Reservoir 2-4
Figure 2-2. Significant Potential Contamination Sources Adjacent to the Bonneville Reach of the Columbia River 2-16
Figure 2-3. Average percent fines (i.e., particles <0.063 mm) and percent TOC in samples 2-18
Figure 2-4. White Sturgeon Liver and Gonad Tissue Concentrations (mean +/- SE) of Total DDT, Total Pesticides, and Total Detected PCBs Collected at Four Locations on the Columbia River 2-26
Figure 4-1 . Generalized Chemical Structure of PCBs 4-2

ACRONYMS

Acronym	Description
µg/kg	Micrograms Per Kilogram
ATL	Acceptable Tissue Level
ATSDR	Agency for Toxic Substances And Disease Registry
BD	Below Detection
BMF	Biomagnification Factor
BSAF	Biota-Sediment Accumulation Factor
Corps	U.S. Army Corps Of Engineers
DDT	Dichlorodiphenyltrichloroethane
dw	Dry Weight
Ecology	Washington State Department Of Ecology
EPA	U.S. Environmental Protection Agency
Gorge Commission	Columbia River Gorge Commission
HCB	Hexachlorobenzene
LOD	Limit of Detection
LSS	Largescale Sucker
m^3	Cubic Meters
MDL	Method Detection Limit
mg/kg	Milligrams Per Kilogram
mm	Millimeters
N/A	Not Applicable
NC	Not Calculated
ND	Not Detected
ng/kg	Nanograms Per Kilogram
ng/L	Nanograms Per Liter
NR	Not Reported
ODEQ	Oregon Department of Environmental Quality
PAH	Polycyclic Aromatic Hydrocarbon
PBDE	Polybrominated Diphenyl Ether
PCB	Polychlorinated Biphenyl
pg/g	Picograms Per Gram
POCIS	Polar Organic Chemical Integrative Sampler
RDL	Reported Detection Limit
RM	River Mile
SD	Standard Deviation
SE	Standard Error
SEF	Sediment Evaluation Framework
SOM	Sediment Organic Matter
SPMD	Semipermeable Membrane Device
TEQ	Toxic Equivalent
TMDL	Total Maximum Daily Load
TOC	Total Organic Carbon
USFS	U.S. Forest Service
USGS	U.S. Geological Survey
ww	Wet Weight

SECTION 1 - INTRODUCTION

1.1 STUDY AREA

This report provides a detailed analysis of the existing conditions for the Bonneville Lock and Dam (Bonneville Dam) reach of the lower Columbia River. This reach encompasses the lower Columbia River, immediately downstream of Bonneville Dam, upstream to The Dalles Lock and Dam. The analysis of the existing conditions is limited to sediment. Both physical and chemical parameters associated with sediment quality are presented. In cases where biological data associated with sediment is available, a discussion of physical and chemical impacts to biological receptors is discussed.

1.2 RIVER SEGMENT DESCRIPTION

The scope of this evaluation includes Bonneville Dam, located at River Mile (RM) 145 on the Columbia River, as well as the area immediately downstream of Bonneville Dam and upstream to The Dalles Lock and Dam at RM 192.

The western half of the Bonneville reach is located in the Cascade ecoregion; the majority of the eastern half is located in the Eastern Cascades Slopes and Foothills ecoregion; and the extreme eastern end of the reach is located in the Columbia Plateau ecoregion (EPA 2016). The mountainous Cascades ecoregion is located north and south of the Bonneville reach; to the west is the Willamette Valley, and to the east is the Columbia Plateau (EPA 2016; Thorson et al. 2003).

1.3 SEDIMENT EVALUATION FRAMEWORK GUIDANCE

The Sediment Evaluation Framework (SEF) for the Pacific Northwest (Northwest Regional Sediment Evaluation Team Agencies 2016) is a regional guidance manual produced by Federal and state agencies. It provides a framework for the consistent characterization and assessment of sediment. Specifically, the framework can be used to determine the suitability of the materials for unconfined aquatic placement and to predict water quality impacts during dredging operations. The framework is intended for use in the states of Washington, Oregon, and Idaho. It serves as an implementation manual for the *Evaluation of Dredged Material Proposed for Discharge in Waters of the U.S. – Testing Manual* (Inland Testing Manual) (1998) produced by U.S. Environmental Protection Agency (EPA) and U.S. Army Corps of Engineers (Corps) for satisfying Clean Water Act testing requirements.

Although the SEF was produced specifically for the evaluation of dredged materials for unconfined aquatic placement, the framework is also used for evaluating non-navigational projects and for anti-degradation evaluations. Because the purpose of the Columbia River System Operations Environmental Impact Statement is similar to an anti-degradation evaluation, the SEF provides a suitable approach for this report.

The SEF provides a “tiered” approach to make risk-based sediment assessments. Level 1 includes an evaluation of historically available data and the development of a

conceptual site model. Level 2 includes the physical, chemical, and biological evaluation of the sediment and is conducted if the information collected for Level 1 is insufficient to make a risk-based determination. This report focuses on a Level 1 evaluation; no additional sediment data will be collected at this time. This report does discuss data gaps and data needs for potential future project implementation and provides recommendations on future data collection.

SECTION 2 - SEDIMENT QUALITY

2.1 GENERAL DESCRIPTION

The Bonneville reach is defined as the stretch of the Columbia River beginning immediately downstream of Bonneville Dam at RM 145 upstream to The Dalles Lock and Dam at RM 192. The first powerhouse at Bonneville Dam, along with the spillway and original navigation lock, were completed in 1938 to improve navigation on Columbia River and provide hydropower to the Pacific Northwest. A second powerhouse was completed in 1981, and a larger navigation lock in 1993 (Corps 2019a). Construction of The Dalles Lock and Dam began in 1952 and was completed in 1957. The authorized primary purposes for The Dalles Lock and Dam are navigation and power generation (Corps 2019b).

Urban areas located along the Bonneville Reach include Stevenson, Carson, White Salmon, Bingen, Lyle, and Dallesport on the Washington side of the river and Cascade Locks, Hood River, Mosier, and The Dalles on the Oregon side (Table 2-1) (Columbia River Gorge Commission [Gorge Commission] and U.S. Forest Service [USFS] 2011).

Table 2-1. Bonneville Reach Urban Areas

City	County	State	Population[1/]
Stevenson	Skamania	WA	1,454
Carson	Skamania	WA	2,657
White Salmon	Klickitat	WA	2,025
Bingen	Klickitat	WA	708
Lyle	Klickitat	WA	472
Dallesport	Klickitat	WA	1,700
Cascade Locks	Hood River	OR	1,134
Hood River	Hood River	OR	7,476
Mosier	Wasco	OR	596
The Dalles	Wasco	OR	15,276

Note: 1/ Population estimates per 2016 American Community Survey 5-year estimates.
Source: U.S. Census Bureau (2018)

The Bonneville Reach spans an ecological transition from wet and temperate in the west and dry and greater temperature variation in the east. The Bonneville Reach can be divided roughly in thirds between the following three ecoregions (moving upstream from west to east): the western Cascades lowlands and valleys; the eastern Cascades slopes and foothills; and the Columbia Plateau Pleistocene lake basins.

There are numerous tributaries that enter the Bonneville reach from both the Oregon and Washington borders. Larger tributaries include Hood River (Oregon), Wind River (Washington), White Salmon River (Washington), and Klikitat River (Washington). The drainage area of these tributaries is approximately 2,375 square miles, which represents approximately 0.9% of the Columbia River Basin. Despite the relatively small

drainage area of these tributaries, the relatively high level of precipitation within the Bonneville reach allows these tributaries to contribute approximately 2.3 percent of the Columbia River's total average flow (Table 2-2). There are also several fish hatcheries associated with these tributaries on both the Washington and Oregon borders.

Table 2-2. Bonneville Reach Tributaries

Tributary	Length (miles)	Drainage Area (miles^2)	Average Discharge (cfs)	Columbia River Confluence
Klickitat River	96	1,350	1,572	RM 180
Hood River	25	279	1,390	RM 169
Big White Salmon River	44	386	1,560	RM 168
Little White Salmon River	19	136	547	RM 163
Wind River	30	224	1,199	RM 155

Source: Northwest Power and Conservation Council, 2004.

In the Bonneville reach, the Columbia River sits at an approximate elevation of 77 feet (immediately upstream of Bonneville Dam) to 81 feet (immediately downstream of the Dalles Lock and Dam) (U.S. Geological Survey [USGS] 2018b).

The Condit Dam on the Big White Salmon River was breached in October 2011, releasing approximately 1.6 million cubic meters (m^3) of impounded water within 90 minutes (Wilcox et al. 2014). Fifteen weeks after the breach and removal of the dam, an estimated more than 60 percent of the 1.8 million m^3 of retained reservoir sediment had eroded downstream (Wilcox, O'Connor, and Major 2014). The sediment consisted of mostly fine-grained material: 60 percent sand, 35 percent silt and clay, and 5 percent gravel (Wilcox, O'Connor, and Major 2014).

The Hemlock Dam on Trout Creek (a tributary of the Wind River) was removed in 2009 (Claeson and Coffin 2016). In contrast to the removal of Condit Dam, Hemlock Dam was removed by temporarily re-routing the flow of the creek and excavating sediments that had accumulated behind the dam (Claeson and Coffin 2016). Approximately 42,000 m^3 of fine sediments were excavated and a constructed river channel was installed in the former reservoir along the historic channel route in July and August 2009 (Claeson and Coffin 2016).

2.1.1 Geology and Soils

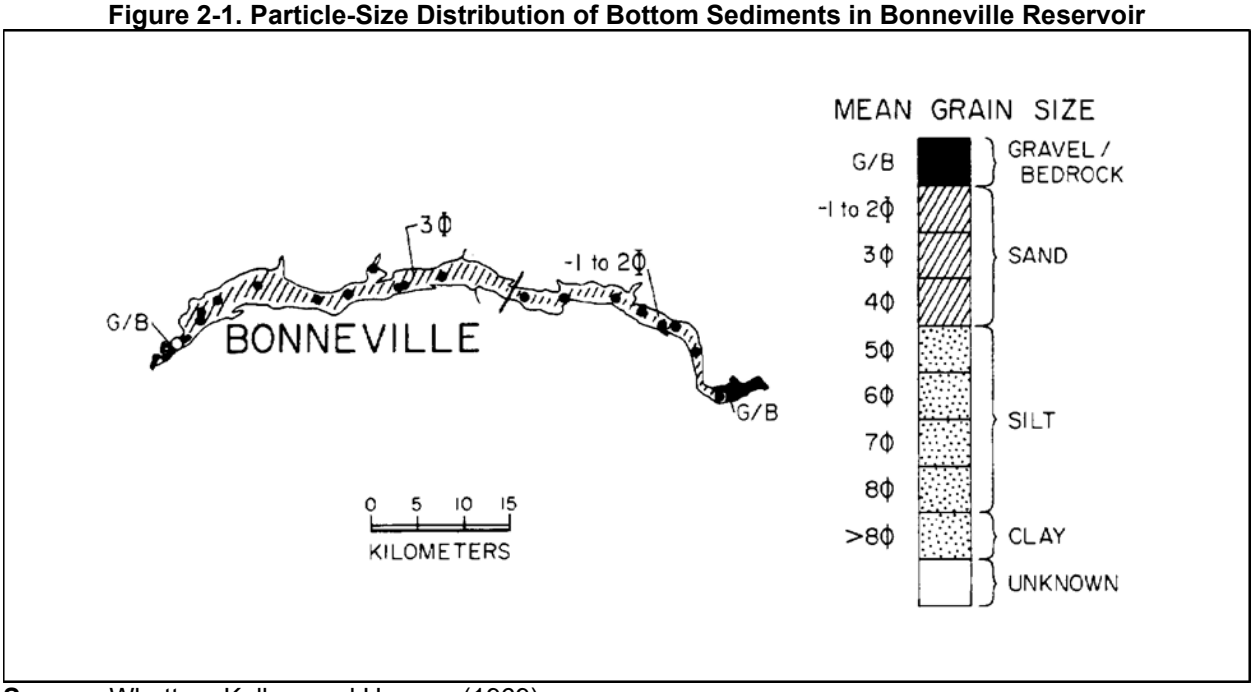
The geological formations through which the Columbia River passes in the Bonneville reach are primarily basalt and andesitic volcanic rock formations that were deposited at various times during the Cenozoic Era (Huntting et al. 1961; Walker and MacLeod 1991). In the eastern half of the reach, these are basalt flows of the Columbia River Basalt Group. In the western half of the reach, in addition to Columbia River basalt, there are also andesitic volcanic rocks associated with the volcanoes of the Cascades (Pierson et al. 2016). The current course of the river was carved out beginning approximately 3 million years ago as basalt flows gradually filled the old river course, shifting the river course to the north, and as tectonic uplift increased the hydraulic gradient in this reach of the river (Reidel and Tolan 2013).

Catastrophic failures of ice dams at glacial Lake Missoula during the Pleistocene sent a series of extreme floods through the Columbia River Gorge, enlarging, scouring, and reshaping the river channel and adjacent hills and cliff sides (Reidel and Tolan 2013). There are also areas of more recent sedimentary deposits along the shores of Bonneville reach. These sedimentary formations are unconsolidated fluvial deposits and mass wasting deposits formed by mudflows and landslides. Bonneville Dam is built at the southwestern edge of where the Bonneville landslide temporarily dammed the Columbia River approximately 600 years ago. The Bonneville landslide was a catastrophic landslide that contained an estimated volume of 1 cubic kilometer and spread debris across 6 to 7 kilometers and shifted the course of the river approximately 1 km to the south. The Bonneville landslide is one of hundreds of landslides that have occurred over the past 15,000 years along the Washington shore in the western portion of the Bonneville reach. The instability of this area is due to abundant rainfall, relatively high elevation (~900 meters), steep slopes, tectonic uplift, and erosion at the base of hillsides by the Columbia River. The instability is further due to the orientation of the rock sequence in this portion of the reach. Underlying the Pleistocene volcanic rocks and the Columbia River Basalt Group, there are Oligocene-era igneous layers derived from the ancestral Cascade volcanism. The rock layers dip to the south toward the river at 2 to 10 degrees. The Oligocene volcanic formations contain clay-rich weathered ash layers that act as failure planes. These weak rock layers together with the tilt of the rock sequence facilitate translational landslides along the north shore of the western portion of Bonneville reach (Pierson et al. 2016).

This portion of the lower Columbia River is notable for its commercial navigation and recreational activities, including fishing. Additionally, much of the upland on both banks of the Columbia River is designated as the Columbia River Gorge National Scenic Area (Gorge Commission and USFS 2011). Interstate 84 in Oregon and Highway 14 in Washington parallel the Columbia River throughout this segment of river.

Sediments in the Columbia River appear to be derived from two distinct sources (Whetten et al. 1969). Sediment from the Snake River and upstream tributaries is fine grained and derived from metamorphic, plutonic, and sedimentary rocks and is primarily transported in suspension. Sediment from downstream tributaries is coarser grained and derived from erosion of volcanic rock. This coarser sediment generally forms the bedload. Historically, little sediment accumulated on the bed of the Columbia River above the location of Bonneville Dam (Whetten, Kelley, and Hanson 1969). However, the construction of dams has increased the retention of coarse sediment at the head of reservoirs, as well as the retention of fine sediment behind the dams (Randle and Bountry 2017). Additionally, the presence of dams has generally slowed the flow of the river, increasing the level of sediment deposition in delta formations at tributary confluences (Figure 2-1) (Randle and Bountry 2017).

Figure 2-1. Particle-Size Distribution of Bottom Sediments in Bonneville Reservoir



Source: Whetten, Kelley, and Hanson (1969)

2.1.2 Sediment Loading in the Reservoir

Mean spring freshet flow (May to July) on the Columbia River prior to 1900 was approximately 13,610 m^3 per second; this has decreased in recent times to 7,060 m^3 per second (Naik and Jay 2011). The freshet flow reduction is primarily due to flow regulation by dams (~26 percent), irrigation depletion (~12 percent), and climate change (~11 percent) (Naik and Jay 2011). The timing of freshet flow is now approximately 2 weeks earlier, and maximum daily flow is 45 percent less than prior to 1900 (Naik and Jay 2011). These changes in freshet flow have had great consequences for sediment transport in the Columbia River system. Annual mean total sediment load is estimated to have decreased from 20.5 million tons prior to 1900 to ~8 million tons in recent times (Naik and Jay 2011). Sand transport is estimated to have decreased from ~14 million tons prior to 1900, to 2.1 million tons in recent times (Naik and Jay 2011).

Table 2-3 summarizes data from the USGS Geospatial Multi-Agency Coordination about wildfire size and frequency in the Bonneville Reach drainage area (USGS 2018a). Data for fires greater than 1,000 acres occurring over the past 10 years were included in the analysis. The size and frequency of fires appears to have increased over this period; however, Mann-Kendall trend analysis showed that the increases are not statistically significant. Further population increases and more extreme fire seasons due to climate change may drive increases in fire frequency in the future.

Table 2-3. Wildfires within the Bonneville Reach Drainage Area

Year	Name	Total Area Burned (acres)	Subbasin
2008	Cold Springs	8,021	Klickitat
2009	Microwave	1,415	Hood River
2009	Discovery	4,721	Klickitat
2010	Hiway 8	2,097	Klickitat
2011	Dollar Lake	6,287	Hood River
2012	Cascade Creek	20,040	Big White Salmon
2012	Highway 141	1,636	Big White Salmon
2013	Government Flats Complex	11,579	Columbia Gorge
2014	Rowena	3,680	Columbia Gorge
2015	Cougar Creek	53,514	Klickitat
2017	Eagle Creek	48,571	Columbia Gorge

Burned land is more erodible due to physical and chemical changes to the soil that occur during wildfire and due to removal of the vegetation that anchors soil and absorbs precipitation. Generally, an increase in land area affected by wildfire will result in increased sedimentation. However, the degree of erosion and increased sedimentation following fire events is variable and depends on characteristics of the burned area, such as slope, soil type, and the timing, intensity, and total amount of precipitation. As a result, the nature and rates of sedimentation from burned areas may not correspond directly to the size of area affected by wildfire.

The Eagle Creek fire is significant in that it was highly visible and disrupted transportation and power infrastructure in the area. The burned area has an estimated fire interval of 100- to 400 years (USFS 2018) and had not burned in historical times. The burn severity within the fire perimeter was not uniform; 55 percent of the area burned at low intensity or was unburned, 30 percent had moderate burn intensity, and 15 percent had a high burn intensity (USFS 2018). USFS policy for the Mark O. Hatfield Wilderness area (where most of the Eagle Creek fire occurred) is to allow reforestation only when the loss of wilderness resource was human caused and there is no expectation of natural reforestation (USFS 2018). No reforestation efforts are planned at this time; however, USFS has established erosion control measures to protect salmon and steelhead (USFS 2018). The Eagle Creek drainage, one of the most affected within the fire perimeter and which drains directly into the reservoir pool behind Bonneville Dam, was assessed to have a high risk of debris flow (USFS 2017). Post–fire flood flows on Eagle Creek were modeled for a 10-year, 24-hour precipitation event and are expected to increase by 412 percent (USFS 2017). The rate of soil erosion in the Eagle Creek watershed is projected to increase from near zero to 4.1 tons per acre (USFS 2017). Most of the eroded sediments from Eagle Creek are expected to be retained behind Bonneville Dam.

2.1.3 Past Dredging

There has been no notable navigation dredging in this portion of the Columbia River upstream of Bonneville Dam to The Dalles Dam. Dredging activities did occur in 2007 at Bradford Island, immediately upstream of the Bonneville Dam spillway, to remediate polychlorinated biphenyls (PCBs)-contaminated sediment (URS 2016).

Dredging activities for navigation purposes downstream of Bonneville Dam occur regularly. The Corps dredges shoaled portions of the Columbia River downstream of Bonneville Dam to maintain congressionally authorized navigation depths and support deep-draft vessels. (Corps 2014)

2.2 PAST STUDIES

2.2.1 Previous Studies

Previous studies conducted in the Bonneville reach are limited and isolated to small geographic areas within the Bonneville reach. A majority of the available data is greater than 10 years old. However, given the limited data available, data older than 10 years is included is this synopsis of previous studies and the summary of existing data presented in Section 2.5.

The Hanford Site is a former nuclear materials production complex, approximately 586 square miles in size, located on the Columbia River, approximately 220 river miles upstream of Bonneville Dam. Ongoing cleanup is occurring at the Hanford Site under the direction of the U.S. Department of Energy. A multi-agency study was conducted in 2003 to characterize sediment impacts from the Hanford Nuclear Site to include select metals and radionuclides. While radionuclides are not considered contaminants of interest under SEF guidance, given the potential influence of the Hanford Nuclear Site on downstream sediment in the Columbia River, data from this study was reviewed as part of the analysis for existing conditions. The study found low concentrations of radionuclides throughout the lower Columbia River. These sediment concentrations were found to be similar to background values measured upstream from the Hanford site. However, the study suggested additional sampling may need to be done to confirm these findings in the Bonneville reach where limited sediment was available for collection (DOH 2005).

The Hanford Site Releases to the Columbia River Remedial Investigation collected sediment from 0-4” below the sediment-water interface at two locations in the reservoir behind Bonneville Dam and analyzed these samples for select metals and radionuclides. None of the samples at Bonneville Dam exceeded Sediment Evaluation Framework freshwater benthic screening levels (Table 2-4).

Table 2-4. Hanford Site Releases to the Columbia River Remedial Investigation, Data Summary Report – Data for Bonneville Reach Samples

Constituent	Detects	Nondetects	Frequency of Detection (%)	Units	Maximum Detected	Median	SEF freshwater benthic SL[/1]
Aluminum	2	0	100	mg/kg	2.73E+04	1.84E+04	not defined
Antimony	0	2	0	mg/kg	ND	-	not defined
Arsenic	2	0	100	mg/kg	4.59E+00	4.53E+00	1.40E+01
Barium	2	0	100	mg/kg	2.29E+02	1.70E+02	not defined
Beryllium	2	0	100	mg/kg	5.04E-01	3.82E-01	not defined
Bismuth	2	0	100	mg/kg	1.90E+00	1.54E+00	not defined
Boron	2	0	100	mg/kg	5.91E+00	3.49E+00	not defined
Cadmium	2	0	100	mg/kg	6.15E-01	4.79E-01	2.10E+00
Carbon-14	0	2	0	pCi/g	ND	-	not defined
Cesium-137	2	0	100	pCi/g	1.12E-01	9.52E-02	not defined
Chromium	2	0	100	mg/kg	1.81E+01	1.70E+01	7.20E+01
Cobalt	2	0	100	mg/kg	1.12E+01	9.47E+00	not defined
Cobalt-60	0	2	0	pCi/g	ND	-	not defined
Copper	2	0	100	mg/kg	3.79E+01	2.67E+01	4.00E+02
Europium-152	0	2	0	pCi/g	ND	-	not defined
Europium-154	0	2	0	pCi/g	ND	-	not defined
Iron	2	0	100	mg/kg	3.02E+04	2.41E+04	not defined
Lead	1	1	50	mg/kg	1.06E+01	-	3.60E+02
Lithium	2	0	100	mg/kg	6.88E+00	6.51E+00	not defined
Manganese	2	0	100	mg/kg	4.10E+02	3.57E+02	not defined
Mercury	2	0	100	mg/kg	5.66E-02	4.09E-02	6.60E-01
Molybdenum	2	0	100	mg/kg	2.79E-01	2.39E-01	not defined
Nickel	2	0	100	mg/kg	1.36E+01	1.34E+01	2.60E+01
Phosphorus	2	0	100	mg/kg	5.38E+02	4.69E+02	not defined
Plutonium-238	0	2	0	pCi/g	ND	-	not defined
Plutonium-239/240	0	2	0	pCi/g	ND	-	not defined
Selenium	0	2	0	mg/kg	ND	-	11
Silver	0	2	0	mg/kg	ND	-	0.57
Technetium-99	0	2	0	pCi/g	ND	-	not defined
Thallium	0	2	0	mg/kg	ND	-	not defined

Constituent	Detects	Nondetects	Frequency of Detection (%)	Units	Maximum Detected	Median	SEF freshwater benthic SL/1
Tin	2	0	100	mg/kg	1.54E+01	1.30E+01	not defined
Total beta radiostrontium	0	2	0	pCi/g	ND	-	not defined
Uranium	0	2	0	mg/kg	ND	-	not defined
Uranium-233/234	1	1	50	pCi/g	7.15E-01	-	not defined
Uranium-235	0	2	0	pCi/g	ND	-	not defined
Uranium-238	2	0	100	pCi/g	7.16E-01	6.61E-01	not defined
Vanadium	2	0	100	mg/kg	8.18E+01	6.50E+01	not defined
Zinc	2	0	100	mg/kg	1.45E+02	1.12E+02	3.20E+03

Notes: Adapted from Washington Closure Hanford. 2011. mg/kg = milligrams per kilogram; pCi/g = picoCuries per gram. 1/ SEF freshwater screening levels from Northwest Regional Sediment Evaluation Team Agencies, 2016.

In 2008, the Corps conducted a sediment characterization study at the mouth of the Hood River. Sampling was precipitated by a 2006 runoff event that resulted in significant deposition of sediment from the Hood River at the confluence with the Columbia River. Sampling was conducted to characterize sediment for purposes of dredging and disposal. The sediment characterized for this study was subsequently dredged and is not considered representative of current conditions in the Bonneville reach (Corps 2008).

The most extensive dataset for the Bonneville Dam reach has been produced for the area immediately upstream of the Bonneville Dam spillway as part of an ongoing remediation action undertaken by the Corps. In 2012, the Corps published a Remedial Investigation (URS 2012) for Bradford Island, located within the Bonneville Lock and Dam complex. Historic disposal practices at the site led to sediment contamination in the forebay of Bonneville Dam. Subsequently, extensive data collection for various media, including sediment, water, and tissue, was performed to characterize the nature and extent of contamination around Bradford Island, as well as reference area sediment concentrations upstream of the impacted area. Reference area data from this study is summarized in Section 2.5.

2.2.2 Existing 303(d) and 305(c) Status

There is an established total maximum daily load (TMDL) for total dissolved gas for the lower Columbia River. The EPA approved this TMDL on November 18, 2002 (ODEQ and Ecology 2002). There is also a TMDL for dioxin discharges. The EPA approved this TMDL on February 25, 1991 (EPA 1991).

The most recent state water quality classifications for Washington and Oregon are shown in Table 2-5 and Table 2-6, respectively (Washington State Department of Ecology [Ecology] 2017; Oregon Department of Environmental Quality [ODEQ] 2017). Category 5 listings are those that are on the Clean Water Act 303(d) list; Category 4A listings are those that have an approved TMDL that is actively being implemented. This sediment evaluation considers Category 5 or 4A listings to be general indications that current or historical contaminant releases may have occurred in those respective waters and furthermore that sediment quality may be negatively affected by possible releases.

Table 2-5. Washington State Water Quality Classifications and 303(d) Listings

Assessment Unit ID	Listing ID	Category	Medium	Parameter	Initial Listing	Listing Sample Description
170701051105_01_01	4861	4C	Habitat	Invasive exotic species	2004, Category 4C	See Note 1.
170701051204_01_01	8793	4A	Biological tissue	Dioxin	2004, Category 4A	See Note 2.
170701051204_01_01	17551	3	Biological tissue	Antimony	2004, Category 1	See Notes 3, 4, 5, and 6.
170701051204_01_01	17555	3	Biological tissue	Mercury	2004, Category 1	See Notes 3, 4, 5, and 6.
170701051204_01_01	17559	3	Biological tissue	Nickel	2004, Category 1	See Notes 3, 4, 5, and 6.
170701051204_01_01	17563	3	Biological tissue	Thallium	2004, Category 1	See Notes 3, 4, 5, and 6.
170701051204_01_01	17896	3	Biological tissue	4-4'-DDD	2004, Category 1	See Note 7.
170701051204_01_01	17904	3	Biological tissue	4-4'-DDT	2004, Category 1	See Note 7.
170701051204_01_01	17962	3	Biological tissue	Heptachlor Epoxide	2004, Category 1	See Note 7.
170701051204_01_01	17900	2	Biological tissue	4,4'-DDE	2004, Category 2	See Note 8.
170701051204_01_01	17938	2	Biological tissue	Chlordane	2004, Category 2	See Notes 9, 10, 11, 12, and 13.
170701051204_01_01	17979	2	Biological tissue	PCBs	2004, Category 2	See Notes 9, 10, 11, 12, and 13.
170701051204_01_01	15189	1	Biological tissue	1,3-Dichlorobenzene	2004, Category 1	See Notes 9, 10, 11, 12, and 13.
170701051204_01_01	15193	1	Biological tissue	1,4-Dichlorobenzene	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	15197	1	Biological tissue	2,4,6-Trichlorophenol	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	15201	1	Biological tissue	2,4-Dichlorophenol	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	15205	1	Biological tissue	2,4-Dinitrotoluene	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17889	1	Biological tissue	1,2-Dichlorobenzene	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17893	1	Biological tissue	1,2-Diphenylhydrazine	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17908	1	Biological tissue	Anthracene	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17930	1	Biological tissue	Beta-BHC (beta-Lindane)	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17934	1	Biological tissue	Bis(2-chloroisopropyl)ether	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17942	1	Biological tissue	Endosulfan sulfate	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17946	1	Biological tissue	Fluoranthene	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17950	1	Biological tissue	Fluorene	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17954	1	Biological tissue	Hexachlorocyclohexane (Lindane)	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17958	1	Biological tissue	Heptachlor	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17963	1	Biological tissue	Hexachlorobenzene	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17967	1	Biological tissue	Hexachlorobutadiene	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17971	1	Biological tissue	Hexachloroethane	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17975	1	Biological tissue	Nitrobenzene	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17983	1	Biological tissue	Phenol	2004, Category 1	See Notes 14, 15, 16, an 17.
170701051204_01_01	17987	1	Biological tissue	Pyrene	2004, Category 1	See Notes 14, 15, 16, an 17.

Notes: 1/ Ecology survey found Eurasian water-milfoil (Myriophyllum spicatum) (Ecology 2001). 2/ Excursions beyond the criterion in white sturgeon, largescale sucker (Catostomus macrocheilus), and carp (Cyprinus carpio) at Study Site 3 (between RM 146 and RM 153) (Beak 1989). 3/ EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from white sturgeon (Acipenser transmontanus) composite of 1 fillet without skin collected in 1997 at station 6-C (RM 154.5), sample # 97080811. 4/ EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from white sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (RM 154.5), sample # 97080812. 5/ EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from white sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (RM 154.5), sample # 97080813. 6/ EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from white sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (RM 154.5), sample # 97080814. 7/ EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from white sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (RM 154.5), sample #97080811. 8/ EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from white sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (RM 154.5), sample #97080811. 9/ EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from white sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (RM 154.5), sample #97080811. 10/ EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from white sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (RM 154.5), sample #97080811. 11/ EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from white sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (RM 154.5), sample #97080812. 12/ EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from white sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (RM 154.5), sample #97080813. 13/ EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from white sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (RM 154.5), sample #97080814. 14/ EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from white sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (RM 154.5), sample #97080811. 15/ EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from white sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (RM 154.5), sample #97080812. 16/ EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from white sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (RM 154.5), sample #97080813. 17/ EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from white sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (RM 154.5), sample #97080814.

Table 2-6. Oregon State water quality classifications and 303(d) listings

USGS Hydrologic Unit Code	Record ID	River Miles	Category	Medium	Parameter	Initial Listing	Listing Sample Description
17070101; 17070105	26018	142 to 287.1	5	Biological tissue	Mercury	2012, Category 5	See Note 1.
17070101; 17070105	9284	142 to 287.1	5	Biological tissue	PCBs	2012, Category 5	See Note 2.

Notes: 1/ September 23, 2013: Fish consumption advisories issued jointly by the Oregon Health Authority and Washington Department of Health due to PCBs and mercury in resident fish. Oregon Fish Advisory: Limit consumption of all resident fish (including sturgeon) taken from Bonneville Dam to McNary Dam to 4 meals per month. 2/ September 23, 2013: Fish consumption advisories issued jointly by the Oregon Health Authority and Washington Department of Health due to PCBs and mercury in resident fish. Oregon Fish Advisory: Limit consumption of all resident fish (including sturgeon) taken at Bonneville Dam at Bradford Island extending one mile upstream to Ruckel Creek to 0 meals per month.
Source: ODEQ 2017 and ODEQ 2019.

2.2.3 Land Use Within the Segment

Bonneville Reach is home to a number of urban centers (Table 2-1) containing residential, commercial, and industrial development. The urban areas of Cascade Locks, Hood River, and The Dalles, Oregon, are significant in that their industrial centers contain maintained harbors and shoreline moorings. Both north and south shorelines contain significant road and rail transportation corridors. Highway S.R. 14 and the Burlington Northern Railroad is on the north shore; Interstate Highway 84 and the Union Pacific Railroad runs along the south shore. Protection of the transportation infrastructure from river current erosion is provided by extensive riprap revetments along the shoreline in much of the reach. The highways, bridges, and rail trestles also interrupt the natural hydrologic connection of smaller streams tributary to the Columbia River; these natural connections have been replaced in modern times by culverts and influenced by the increased amount of stormwater runoff caused by an increase in impervious surface area (i.e. roads and pavement). Agriculture is a significant land use in the reach, particularly on the south side of the river in the central and eastern portion of the reach. State and federal land ownership is also significant along the shore throughout Bonneville reach (Northwest Power and Conservation Council 2004).

The Columbia River Gorge National Scenic Area Act of 1986 established a national scenic area across the Bonneville Reach (as well as areas along the Columbia River extending downstream to the Sandy River confluence [near RM 123] and upstream past Miller Island [near RM 206]). The Scenic Area is divided into Urban Areas, General Management Area (GMA), and the Special Management Area (SMA). Urban Areas are exempt from the Columbia Gorge Scenic Area Management Plan, but are eligible to receive federal funds authorized to implement it. The Columbia Gorge Commission is authorized to prepare land use designations and guidelines for the GMA. The U.S. Forest Service prepares land-use plans for the SMA. SMA-designated land is located predominately in the western half of the scenic area, and in some cases are subject to more stringent land-use restrictions than in the GMA (Gorge Commission and USFS 2011).Management Areas

Due to the lack of sitewide data, it is difficult to identify sub management areas with distinct sediment characteristics within the Bonneville reach.

2.3 CHEMICALS OF CONCERN

There is limited sediment data available for the Bonneville reach. The only sediments known to be impacted by chemicals of concern which pose a risk to human health or the environment are in the immediate vicinity of Bradford Island at the Bonneville Dam complex. These sediments and the Bradford Island site are being investigated and remediated under a separate and standalone action with the Corps. The contaminant concentrations at this site do not represent the Bonneville reach as a whole.

Other limited sediment investigations, as summarized in Section 2.5, do provide quantification of various chemicals in isolated portions of the Bonneville reach, but it

should not be assumed that these contaminants constitute a risk to human health or the environment. Further characterization would be needed to determine such risk, which is outside the scope of this analysis.

2.3.1 Sources of Chemicals of Concern

There are known releases of contamination to the Bonneville reach of the Columbia River due to historical disposal of electrical equipment and debris associated with Bonneville Dam (URS 2016). Electrical debris was disposed of directly in the river on the north side of Bradford Island, contaminating the surrounding sediment with metals, polycyclic aromatic hydrocarbons (PAHs), and PCBs (URS 2016). The electrical equipment and debris were removed in 2000 and 2002 and PCB-contaminated sediment was removed in 2007 (URS 2016). There is residual PCB contamination at Bradford Island including sediment, biota, and potential PCB-containing oil in rock crevices. Additional contaminants of interest include semivolatile organic compounds, butyltins, organoclorine pesticides, and herbicides (URS 2016).

Many of the contaminants of concern in the Columbia River system are widely distributed and derive from a variety of point and non-point sources.

Mercury contamination is released to the environment through erosion of natural deposits, mining and smelting activities, agricultural activities, wastewater and stormwater discharges, and recirculation and redistribution of sediments (EPA 2009). Atmospheric deposition from sources within and outside of the Columbia River drainage is thought to be a major pathway for mercury (EPA 2009).

Dichlorodiphenyltrichloroethane (DDT) is an organochlorine pesticide that was banned in the United States in 1972. DDT and its breakdown products are legacy contaminants that are bound to soil particles in agricultural areas (EPA 2009). The main pathway to the Columbia River system is through erosion and runoff from agricultural areas that transport DDT-contaminated soil and sediment to the aquatic environment (EPA 2009).

PCBs are a class of chlorine-containing organic chemicals that were widely used in industrial process and electrical equipment until they were banned in the United States in 1976. Historical spills and improper disposal are important point-sources of PCBs. PCBs can be generated and spread by the incineration of trash and atmospherically deposited from distant sources (EPA 2009). PCBs (both point and non-point sources) are transported into the aquatic environment via erosion and stormwater runoff (EPA 2009).

Polybrominated diphenyl ethers (PBDEs) are a class of bromine-containing organic chemicals used as flame retardants in a variety of materials and consumer products, including electronics, plastics, foam padding, and fabrics (EPA 2009). Fate and transport of PBDEs in the environment is not fully understood, but possible pathways include atmospheric deposition and wastewater and stormwater discharges (EPA 2009). Manufacturers voluntarily phased out the use of Penta-BDE and Octa-BDE by the end of 2004 (Van Bergen et al. 2015). Washington State has enacted restrictions on

certain uses of Deca-BDE, and the three major producers of Deca-BDE reached an agreement with EPA halting production, importation, and sale of Deca-BDE by the end of 2012 (Van Bergen et al. 2015). Despite the recent phase-out of these forms of PBDEs, releases to the environment are likely to continue as there is a reservoir of these chemicals in materials and consumer goods currently in use in homes and businesses.

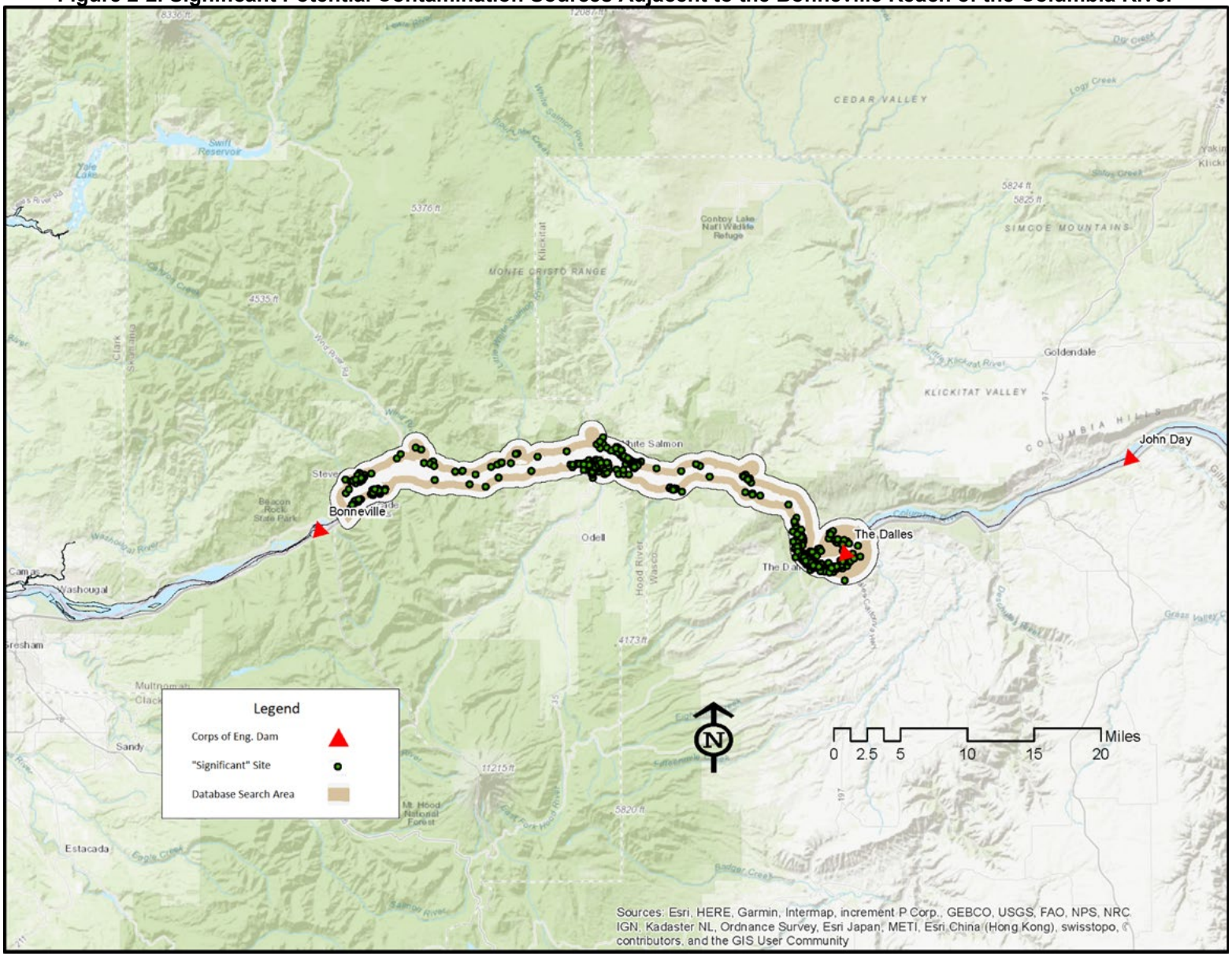
Metals enter the Columbia River via stormwater runoff from developed areas. Additionally, metals enter the reach by air and by wastewater discharges from mines and smelters upstream in Washington, British Columbia, and Idaho (EPA 2009).

Dioxins and dioxin-like compounds are byproducts of combustion and manufacturing processes, including bleaching of wood pulp with chlorine during paper production. Incomplete combustion of materials containing chlorine can under certain conditions generate dioxin and dioxin-like compounds (EPA 2006). Following formation during combustion, dioxins adsorbed to particulates deposit on waters and soil from the atmosphere. Dioxins do not appreciably volatilize; once they have deposited in soil, they are primarily transported by action of wind or erosion of soil particles (EPA 2006). The aquatic environment receives some dioxins by direct atmospheric deposition, but a more significant portion is received through transport of dioxin-contaminated soil particles by runoff and stormwater (EPA 2006). On the Columbia River, in addition to non-point atmospheric and stormwater deposition, dioxins enter the system from the industrial wastewater discharge from pulp and paper mills. Releases of dioxin were reduced in the early 1990s when the TMDL for dioxin on Columbia River was enacted and the mills changed their bleaching chemistry to reduce the generation of dioxin (EPA 2009).

A commercial database search was used to identify potential sources or other areas of contamination along the shore of the Bonneville reach of the Columbia River. The extent of the search included a half-mile extent either side of the high pool elevation line for the Bonneville reach of the Columbia River, from The Dalles Dam to Bonneville Dam. A separate 1-mile search radius was used at both dam locations. Figure 2-2 shows a summary of the locations of “significant” sites found; Table 6-1 contains a detailed list of the sites. In this study, “significance” is a matter of professional judgment and includes broad categories of sites that might be expected to have an environmental impact on sediment quality (such as National Pollution Discharge Elimination System [NPDES] point discharges, Resource Conservation and Recovery Act [RCRA]- or Comprehensive Environmental Response, Compensation, and Liability Act [CERCLA]-listed sites, non-compliant facilities regulated under state or Federal laws, landfills including historic landfills, and other large and discrete sites or potential contamination sources). Sites that generally are expected to have little or no impact or only transient impacts were not plotted (including minor spill reports, clandestine drug labs, schools and day-care facilities, and conditionally exempt small-quantity generators.) The database search results are being used for screening purposes only to identify appropriate chemical parameters or pollutants reflective of these potential sources that may affect sediment quality. The identification of the potential for sediment contamination from these sources does not imply that these are current sources or that

regulatory action is recommended or required. Any specific proposed project would require a site-specific Phase I environmental assessment to adequately characterize existing site conditions.

Figure 2-2. Significant Potential Contamination Sources Adjacent to the Bonneville Reach of the Columbia River



2.4 SUMMARY OF EXISTING DATA

2.4.1 Physical Data

A total of eight surface sediment samples were collected as part of three separate sediment investigations conducted between 2002 and 2008. This excludes work that has been done at Bradford Island near the Bonneville Dam complex as part of the ongoing investigation and remediation for contaminated sediments being conducted by the Corps.

Five of the eight samples were collected in the vicinity of Bonneville Dam, and the remaining three samples were collected at the confluence of the Columbia and Hood Rivers. Grain size and total organic carbon (TOC) were analyzed for all eight samples. However, given the limited representativeness of these samples for the Bonneville reach as a whole, the analytical results are omitted from this discussion of existing conditions.

As part of the investigation and remediation effort at Bradford Island, extensive sediment sampling was conducted to characterize contaminated sediment in the immediate vicinity of Bradford Island, as well as upstream at a reference location outside the zone of influence from the dam. Given that remediation activities are likely to occur in the near future for contaminated sediment in the immediate vicinity of Bradford Island, analytical results for those sediments are omitted from this discussion of existing conditions. However, upstream reference area sediment was characterized with 18 discrete surface sediment samples in 2008 as part of the Remedial Investigation for the Bradford Island project. The reference area for Bradford Island was selected based on modeling results characterizing the upstream extent of the river flow reversal caused by Bonneville Dam's powerhouses and the spillway that could transport impacted sediment from the Bradford Island site back upstream. The reference area is located upstream of Cascade Locks, Oregon (approximately RM 150).

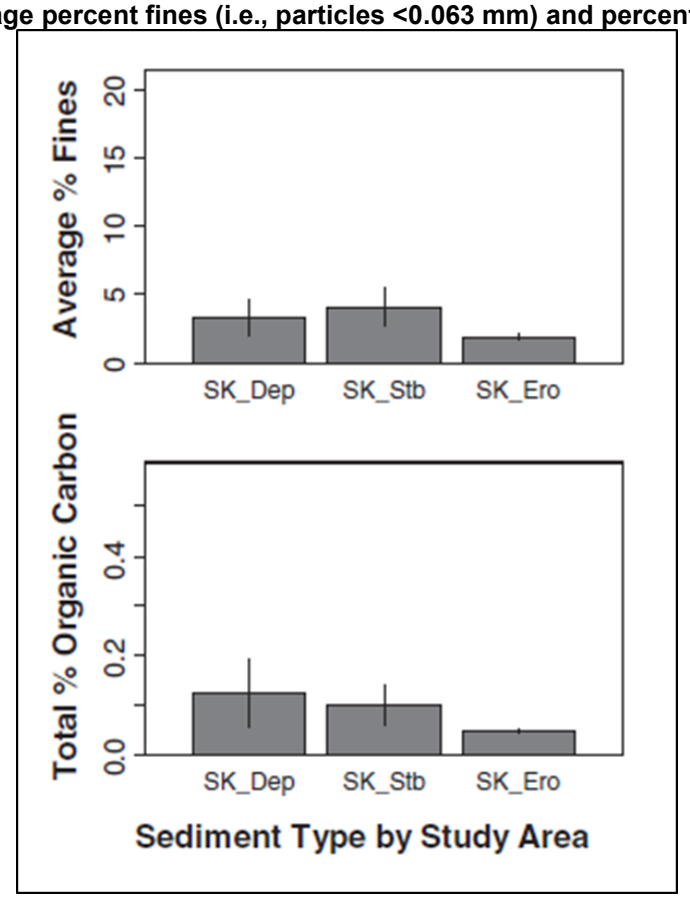
TOC and grain-size summary statistics for these 18 reference sediment samples are presented in Table 2-7 and Figure 2-3.

Table 2-7. General Chemistry and Grain Size Summary Statistics for Bradford Island Reference Area

TOC (mg/kg dry) and Grain Size (%)	n	Min	Max	Mean	Standard Deviation	Median	95% Upper Confidence Limit
TOC (mg/kg dry)	18	2,900	16,700	9,094	3,660	8,600	10595
% Clay (<0.039 mm)	18	1.65	7.39	4.48	1.53	4.22	5.102
% Silt (0.039–0.0625 mm)	18	7.31	64.90	38.21	15.59	37.35	44.6
% Sand, very fine (0.0625–0.125 mm)	18	3.87	33.40	19.80	7.93	19.20	23.05
% Sand, fine (0.125–0.25 mm)	18	4.66	49.00	23.85	18.60	12.95	42.96
% Sand, medium (0.25–0.50 mm)	18	1.11	47.90	9.23	12.61	5.33	15.59
% Sand, coarse (0.50–1.00 mm)	18	0.42	8.71	1.89	2.04	1.30	2.938
% Sand, very coarse (1.00–2.00 mm)	18	0.01	8.47	1.87	2.74	0.37	4.013
% Gravel (>2.00 mm)	18	0.00	36.40	4.73	9.36	0.95	14.34

Note: mg/kg = milligrams per kilogram; mm = millimeters.
Source: URS (2012).

Figure 2-3. Average percent fines (i.e., particles <0.063 mm) and percent TOC in samples



Notes: Samples were collected in erosional, depositional, and stable zones in the reach of the Columbia River near Skamania, washington. Ero = erosional; Dep = depositional; Stb = stable.
Source: Counihan et al. (2014).

Counihan et al. (2014) modeled the geomorphic processes of sediment erosion and deposition within three 16-kilometer-long reaches in the lower Columbia River, including a reach downstream of Bonneville Dam near Skamania, Washington. Counihan et al (2014) collected sediment samples at 45 locations representative of depositional, stable and erosional zones as indicated by the modeling effort. Samples were analyzed for TOC and wet sieved into three size classes: gravel (>2 mm); sand (0.063 to 2 mm) and mud (<0.063 mm). A summary of TOC and % Fines (i.e. the mud fraction <0.063 mm) present within depositional, stable and erosional zones within the reach of the Columbia River near Skamania are presented in Figure 2-3.

Relative to the Bradford Island sediment size distribution data, areas below the dam near Skamania have much more coarse sediment (~96 percent vs ~57 percent). This is consistent with the general expectation that areas immediately behind dams accumulate sediments over time and become enriched in fine sediments (the larger sediment fractions having already been dropped from active transport further upstream toward the head of the reservoir).

2.4.2 Chemical Data

A total of eight surface sediment samples were collected as part of three separate sediment investigations conducted between 2002 and 2008. This excludes work that has been done at Bradford Island near the Bonneville Dam complex as part of the ongoing investigation and remediation for contaminated sediments being conducted by the Corps.

Five of the eight samples were collected in the vicinity of Bonneville Dam and the remaining three samples were collected at the confluence of the Columbia River and Hood River. Chemical data was collected for each of these samples for a variety of analytes. However, given the limited representativeness of these samples for the Bonneville reach as a whole, the analytical results are omitted from this discussion of existing conditions.

As part of the investigation and remediation effort at Bradford Island, extensive sediment sampling was conducted to characterize contaminated sediment in the immediate vicinity of Bradford Island, as well as upstream at a reference location outside the zone of influence from the dam. Given that remediation activities are likely to occur in the near future for contaminated sediment in the immediate vicinity of Bradford Island, analytical results for those sediments are omitted from this discussion of existing conditions. However, upstream reference area sediment was characterized with 18 discrete surface sediment samples in 2008 as part of the Remedial Investigation for the Bradford Island project. The reference area for Bradford Island was selected based on modeling results characterizing the upstream extent of the river flow reversal caused by Bonneville Dam's powerhouses and the spillway that could transport impacted sediment from the Bradford Island site back upstream. The reference area is located upstream of Cascade Locks, Oregon (approximately RM 150).

2.4.2.1 *Organic compounds*

Summary statistics for organic compounds at the Bradford Island reference area are presented in Table 2-8 and Table 2-9.

Table 2-8. Organic Compounds Summary Statistics for Bradford Island Reference Area

Analyte	Unit	Basis	Number of Samples	Minimum MDL of NDs	Maximum MDL of NDs	Number of NDs (below MDL)	Min Detected Value	Max Detected Value	Number of Detections	Detection Rate
Diesel Range Organics	mg/kg	Dry	18	–	–	0	7.00	31.0	18	100%
Residual Range Organics	mg/kg	Dry	18	150	180	5	29.0	100	13	72%
Aroclor 1016	µg/kg	Dry	18	1.70	13.0	18	–	–	0	0%
Aroclor 1221	µg/kg	Dry	18	1.70	11.0	18	–	–	0	0%
Aroclor 1232	µg/kg	Dry	18	1.70	12.0	18	–	–	0	0%
Aroclor 1242	µg/kg	Dry	18	1.70	16.0	18	–	–	0	0%
Aroclor 1248	µg/kg	Dry	18	1.70	1.80	18	–	–	0	0%
Aroclor 1254	µg/kg	Dry	18	1.70	1.80	18	–	–	0	0%
Aroclor 1260	µg/kg	Dry	18	1.70	1.80	18	–	–	0	0%
Aroclor 1262	µg/kg	Dry	18	1.70	1.80	18	–	–	0	0%
Aroclor 1268	µg/kg	Dry	18	1.70	1.80	18	–	–	0	0%
Total PCBs As Aroclors (NDs at MDL)	µg/kg	Dry	18	–	–	–	–	–	0	0%
Bis(2-ethylhexyl) Phthalate	µg/kg	Dry	18	–	–	0	4.90	110	18	100%
Butyl Benzyl Phthalate	µg/kg	Dry	18	1.50	1.60	16	2.50	3.80	2	11%
Carbazole	µg/kg	Dry	18	1.30	1.40	18	–	–	0	0%
Di-n-butyl Phthalate	µg/kg	Dry	18	2.60	2.60	3	3.50	11.0	15	83%
Di-n-octyl Phthalate	µg/kg	Dry	18	1.20	1.30	18	–	–	0	0%
p-cresol (4-Methylphenol)	µg/kg	Dry	18	2.90	2.90	7	4.50	210	11	61%
Acenaphthene	µg/kg	Dry	18	1.00	1.10	18	–	–	0	0%
Anthracene	µg/kg	Dry	18	1.40	1.50	16	1.40	2.30	2	11%
Fluorene	µg/kg	Dry	18	1.70	1.80	18	–	–	0	0%
Phenanthrene	µg/kg	Dry	18	1.30	1.30	2	1.30	5.90	16	89%
Total LPAHs (KM, capped; NDs at MDL)	µg/kg	Dry	18	–	–	–	5.40	10.0	16	89%
Benzo(a)anthracene	µg/kg	Dry	18	1.40	1.40	4	1.60	10.0	14	78%
Benzo(a)pyrene	µg/kg	Dry	18	1.60	1.60	9	1.60	11.0	9	50%
Benzo(b)fluoranthene	µg/kg	Dry	18	2.50	2.50	5	2.70	17.0	13	72%
Benzo(g,h,i)perylene	µg/kg	Dry	18	2.30	2.30	8	2.30	7.90	10	56%
Benzo(k)fluoranthene	µg/kg	Dry	18	2.50	2.60	17	5.00	5.00	1	6%
Chrysene	µg/kg	Dry	18	1.40	1.40	3	1.90	9.80	15	83%
Dibenz(a,h)anthracene	µg/kg	Dry	18	2.20	2.30	18	–	–	0	0%
Fluoranthene	µg/kg	Dry	18	2.20	2.20	3	2.30	31.0	15	83%
Indeno(1,2,3-cd)pyrene	µg/kg	Dry	18	1.90	1.90	9	2.00	8.80	9	50%
Pyrene	µg/kg	Dry	18	–	–	0	1.50	23.0	18	100%
Total HPAHs (KM, capped; NDs at MDL)	µg/kg	Dry	18	–	–	–	16.4	125	18	100%
Total PAHs (KM, capped; NDs at MDL)	µg/kg	Dry	18	–	–	–	17.1	133	18	100%

Note: µg/kg = micrograms per kilogram; MDL = method detection limit; ND = not detected.
Source: Corps (2012)

Table 2-9. PCB Congener Summary Statistics for Bradford Island Reference Area

PCB Congener Number	Analyte	Unit	Basis	Number of Samples	Minimum Repoarted Detection Limit of NDs	Maximum RDL of NDs	Number of NDs Below Reported Detection Limit	Minimum Detected (not ND)	Maximum Detected (not ND)	Number of Detections (not ND)	Detection Rate
77	3,3',4,4'-Tetrachlorobiphenyl	pg/g	Dry	18	–	–	–	0.434	2.01	18	100%
81	3,4,4',5-Tetrachlorobiphenyl	pg/g	Dry	18	0.0556	0.0988	12	0.0580	0.143	2	11%
105	2,3,3',4,4'-Pentachlorobiphenyl	pg/g	Dry	18	–	–	–	2.96	27.5	18	100%
114	2,3,4,4',5-Pentachlorobiphenyl	pg/g	Dry	18	–	–	–	0.154	1.63	16	89%
118	2,3',4,4',5-Pentachlorobiphenyl	pg/g	Dry	18	–	–	–	8.31	70.5	18	100%
123	2,3',4,4',5'-Pentachlorobiphenyl	pg/g	Dry	18	0.309	0.446	7	0.272	1.22	9	50%
126	3,3',4,4',5-Pentachlorobiphenyl	pg/g	Dry	18	0.0583	0.139	2	0.0840	0.337	9	50%
156 + 157	2,3,3',4,4',5-Hexachlorobiphenyl + 2,3,3',4,4',5'-Hexachlorobiphenyl	pg/g	Dry	18	–	–	–	0.930	8.50	18	100%
167	2,3',4,4',5,5'-Hexachlorobiphenyl	pg/g	Dry	18	1.01	1.10	2	0.761	3.84	15	83%
169	3,3',4,4',5,5'-Hexachlorobiphenyl	pg/g	Dry	18	0.0542	0.200	17	–	–	0	0%
189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	pg/g	Dry	18	–	–	–	0.0720	0.573	14	78%
	Total PCBs as congeners (KM, capped)	µg/kg	Dry	18	–	–	–	0.161	1.20	18	100%

Notes: The PCB congeners listed in this table are the 12 PCB congeners with dioxin-like toxicity characteristics. pg/g = picograms per gram; RDL = reported detection limit.
Source: Corps (2012)

Counihan et al. (2014) collected and analyzed sediments from a 16-kilometer reach of the Columbia River downstream from Skamania, Washington (located approximately 15 miles downstream of Bonneville Dam). The weighted means reported in Table 2-10 were calculated using stratum weights consisting of the areal proportion of erosional, depositional, or stable areas of the river reach. These areas were characterized through hydrodynamic modeling of sediment deposition and erosion within this reach of the Columbia River.

Table 2-10. Weighted Contaminant Concentrations and Percent TOC Detected in Sediments in a Reach of the Columbia River Near Skamania, Washington

Contaminant (ng/g)	Weighted Mean (Standard Error)
Fragrances, surfactants, industrial, and personal care products	69.4 (21.6)
PAHs	42.5 (20.6)
Flame retardants (PBDEs and organophosphate-based)	0.36 (0.34)
PCBs	No detection
Pesticides	0.02 (0.02)
TOC	0.09 (0.02)

Note: ng/g = nanograms per kilogram.
Source: Counihan et al. (2014)

2.4.2.2 *Metals*

Summary statistics for metals at the Bradford Island reference area are presented in Table 2-11.

Table 2-11. Metals Summary Statistics for Bradford Island Reference Area

Analyte	Unit	Basis	Number of Samples	Minimum MDL of NDs	Maximum MDL of NDs	Number of NDs (below MDL)	Min Detected Value	Max Detected Value	Number of Detections	Detection Rate
Aluminum	mg/kg	Dry	18	–	–	0	7,380	33,500	18	100%
Antimony	mg/kg	Dry	18	–	–	0	0.150	0.520	18	100%
Arsenic	mg/kg	Dry	18	–	–	0	3.03	6.04	18	100%
Barium	mg/kg	Dry	18	–	–	0	86.3	312	18	100%
Beryllium	mg/kg	Dry	18	–	–	0	0.194	0.748	18	100%
Cadmium	mg/kg	Dry	18	–	–	0	0.262	0.748	18	100%
Chromium	mg/kg	Dry	18	–	–	0	12.8	27.3	18	100%
Cobalt	mg/kg	Dry	18	–	–	0	5.68	15.2	18	100%
Copper	mg/kg	Dry	18	–	–	0	8.22	47.8	18	100%
Lead	mg/kg	Dry	18	–	–	0	8.65	15.1	18	100%
Mercury	mg/kg	Dry	18	–	–	0	0.0410	0.225	18	100%
Nickel	mg/kg	Dry	18	–	–	0	9.87	25.6	18	100%
Thallium	mg/kg	Dry	18	–	–	0	0.145	0.360	18	100%
Vanadium	mg/kg	Dry	18	–	–	0	25.7	76.9	18	100%
Zinc	mg/kg	Dry	18	–	–	0	70.2	109	18	100%

Source: Corps (2012)

2.4.3 Biological Data

Biological data used to support the Washington water quality classification was not available for this analysis, although it can be inferred from the Washington water quality classification that bioaccumulative contaminants are present in the tissue of aquatic receptors (see Section 2.2.2).

Biological data collected as part of the Bradford Island project is not believed to be representative of the Bonneville reach, given the isolated contamination present at the site and the likely future remediation action that is assumed to reduce tissue concentrations in biological receptors.

White sturgeon (*Acipenser transmontanus*) are long lived, anadromous fish native to larger rivers of the west coast of North America including the Columbia River. White sturgeon live in estuaries and travel upstream to freshwater to spawn. In the Columbia River, dams present barriers to white sturgeon migration. Feist et al. (2005) collected liver and gonad tissue samples from 174 white sturgeon individuals from the Columbia River estuary, as well as the reservoir pools behind Bonneville, The Dalles, and John Day dams. Tissue samples were collected from February through April in 2000 and 2001. Samples represent harvestable fish under fishing regulations (110 to 137 fork length) for a total of 42 to 45 individuals (19 to 24 males and 21 to 23 females) collected at each location. Tissue samples were analyzed for chlorinated pesticides and PCBs (Table 2-12 and Table 2-13). White sturgeon from the Bonneville reach had significantly higher levels of total DDT, total pesticides, and PCBs than fish from the Columbia River estuary or The Dalles and John Day Reservoirs (Figure 2-4).

Table 2-12. Concentration (mean ± SE) of Chlorinated Pesticides in Livers and Gonads of White Sturgeon from the Columbia River

Pesticide	Number of Detections	Liver Lipid (µg/g)	Number of Detections	Gonad Lipid (µg/g)
Aldrin	2	0.002 ± 0.002	5	0.011 ± 0.006
Alpha-hexachlorocyclohexane (a-BHC)	19	0.039 ± 0.009	26	0.023 ± 0.005
Beta-hexachlorocyclohexane (b-BHC)	14	0.115 ± 0.046	11	0.023 ± 0.005
Lindane (Gamma-hexachlorocyclohexane or g-BHC)	8	0.024 ± 0.011	21	0.047 ± 0.014
Delta-hexachlorocyclohexane (d-BHC)	9	0.019 ± 0.007	15	0.154 ± 0.127
p,p´-DDD	86	1.863 ± 0.544	93	1.619 ± 0.400
p,p´-DDE	97	18.40 ± 7.313	98	10.60 ± 2.086
p,p´-DDT	28	0.274 ± 0.103	41	0.259 ± 0.073
Dieldrin	16	0.134 ± 0.045	15	0.031 ± 0.009
Endrin	10	0.114 ± 0.060	11	0.022 ± 0.007
Endrin aldehyde	16	0.108 ± 0.062	13	0.064 ± 0.032
Endrine ketone	8	0.038 ± 0.165	2	0.010 ± 0.007
Endosulfan I	34	0.161 ± 0.044	45	0.133 ± 0.025
Endosulfan II	9	0.108 ± 0.051	14	0.087 ± 0.047
Endosulfan sulfate	3	0.005 ± 0.003	8	0.008 ± 0.003

Pesticide	Number of Detections	Liver Lipid (µg/g)	Number of Detections	Gonad Lipid (µg/g)
Heptachlor	8	0.018 ± 0.008	13	0.037 ± 0.019
Heptachlor epoxide	15	0.081 ± 0.031	25	0.074 ± 0.024
p,p´-Methoxychlor	14	0.112 ± 0.044	5	0.027 ± 0.017

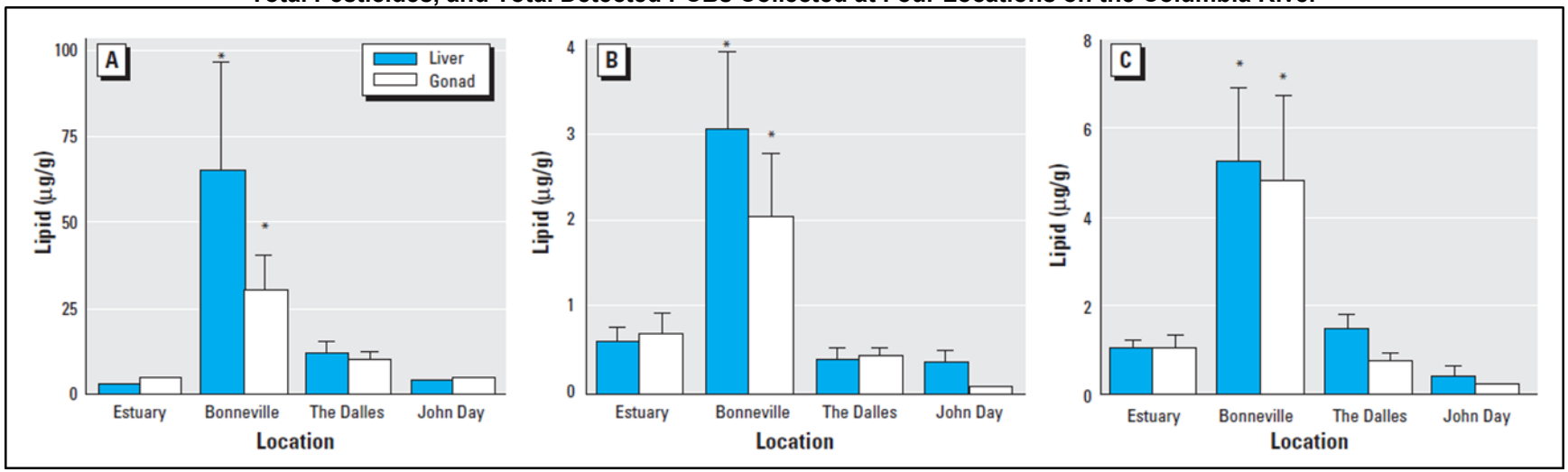
Note: Liver sample size = 97; gonad sample size = 98.
Source: Feist et al. (2005).

Table 2-13. Concentration (mean ± SE) of PCBs in Livers and Gonads of White Sturgeon from the Columbia River

PCB Congener	Number of Detections	Liver Lipid (µg/g)	Number of Detections	Gonad Lipid (µg/g)
28	3	0.020 ± 0.011	0	–
44	6	0.055 ± 0.042	4	0.004 ± 0.002
52	3	0.038 ± 0.024	3	0.024 ± 0.105
60	19	0.125 ± 0.033	11	0.163 ± 0.129
66	8	0.131 ± 0.066	2	0.025 ± 0.020
74	2	0.008 ± 0.006	4	0.037 ± 0.022
87	1	0.006 ± 0.006	2	0.008 ± 0.006
99	12	0.101 ± 0.036	12	0.077 ± 0.041
101	28	0.238 ± 0.088	24	0.217 ± 0.131
105	14	0.135 ± 0.051	9	0.033 ± 0.016
110/77	12	0.060 ± 0.019	17	0.128 ± 0.050
118	9	0.054 ± 0.020	10	0.152 ± 0.085
126	6	0.035 ± 0.016	5	0.024 ± 0.018
128	1	0.007 ± 0.007	6	0.043 ± 0.031
138	28	0.258 ± 0.071	28	0.233 ± 0.072
151	4	0.025 ± 0.015	7	0.032 ± 0.014
153	18	0.264 ± 0.101	20	0.157 ± 0.062
156	6	0.035 ± 0.018	7	0.013 ± 0.006
169	2	0.007 ± 0.005	0	–
170	3	0.006 ± 0.003	3	0.003 ± 0.001
180	3	0.030 ± 0.026	3	0.001 ± 0.001
183	9	0.042 ± 0.015	13	0.029 ± 0.010
187	20	0.163 ± 0.047	21	0.113 ± 0.032
194	4	0.018 ± 0.009	1	0.001 ± 0.001
199	10	0.022 ± 0.007	10	0.065 ± 0.030
203/170	10	0.043 ± 0.017	10	0.016 ± 0.008

Note: Liver n = 97; gonad n = 98.
Source: Feist et al. (2005)

Figure 2-4. White Sturgeon Liver and Gonad Tissue Concentrations (mean +/- SE) of Total DDT, Total Pesticides, and Total Detected PCBs Collected at Four Locations on the Columbia River



Notes: A = total DDT (DDD + DDE + DDT); B = total pesticides (all detected pesticides – total DDT); C = total detected PCBs. Each bar represents a sample size of 22–28. *Statistically different (Analysis of Variance [ANOVA] $p < 0.05$).
Source: Feist et al. (2005).

The osprey (*Pandion haliaetus*) is a fish-eating raptor that forages and nests throughout the Columbia River and its tributaries. Exposure to p,p'-DDE (one of the degradation products of the pesticide DDT) can cause eggshell thinning and subsequent reproductive failure in osprey. Henny et al. (2008) collected osprey eggs along the lower Columbia River (RM 29 to RM 286) in 1997, 1998, and 2004 and analyzed them for a suite of environmental contaminants including p,p'-DDE. Table 2-14 summarizes the data representing nine egg samples collected in 2004 along the Bonneville, Dalles, and John Day reaches (from RM 146 to RM 286). Table 2-15 compares the data from 1997 to 1998 and 2004 representing egg samples collected along the lower Columbia River (RM 29 to RM 286). DDT, DDD, and DDE levels in osprey eggs declined significantly over this time period. Most of the other environmental contaminants measured declined or declined significantly, with the exception of mercury, which increased significantly over this time period. Henny et al. (2008) notes that osprey reproductive success is negatively affected at DDE concentrations above 4,200 µg/kg or mercury concentrations above 0.50 µg/g. Henny et al. (2008) also reports that Columbia River osprey nesting success increased over this time period and concluded that contamination in the Columbia River had declined to levels that no longer adversely affect osprey reproduction.

Table 2-14. Summary of 2004 Data for Nine Osprey Egg Samples Collected on the Columbia River (RM 146 – RM 286)

Contaminant	Geometric Mean	Unit of Measure
Mercury	0.35	µg/g, dw
DDE	1705	µg/kg, ww
DDD	91.6	µg/kg, ww
DDT	7.56	µg/kg, ww
HCB	1.62	µg/kg, ww
Beta-hexachlorocyclohexane	0.25	µg/kg, ww
Total chlordanes[1/]	15.9	µg/kg, ww
Heptachlor epoxide	2.48	µg/kg, ww
Dieldrin	0.69	µg/kg, ww
Sum of 39 PCB congeners	492	µg/kg, ww
PCB TEQs[2/]	33.4	ng/kg ww
PCDD TEQs	6.07	ng/kg ww
PCDF TEQs	2.95	ng/kg ww
Combined TEQs[3/]	47.4	ng/kg ww

Notes: dw = dry weight; ww = wet weight; TEQ = toxic equivalent; µg/g = microgram per gram; µg/kg = microgram per kilogram; ng/kg = nanogram per kilogram. 1/ Total chordanes = sum of: trans-nonachlor, cis-nonachlor, oxychlordane, trans-chlordane, and cis-chlordane. 2/ Calculated by the method of Van den Berg et al. (1998). 3/ Includes PCB, PCDD, and PCDF TEQs. No-observed-adverse-effects level for ospreys, 136 ng/kg (ww) (Woodford et al. 1998).
Source: Henny et al. (2008).

Table 2-15. Comparison of 1997–1998 and 2004 Data for Osprey Egg Samples Collected on the Columbia River (RM 29 – RM 286)

Contaminant	Geometric Mean (1997–1998)	Unit	Geometric Mean (2004)	Unit	*P*
Mercury	**0.29**	**µg/g, dw**	**0.45**	**µg/g, dw**	**0.0028**
DDE	**4872**	**µg/kg, ww**	**1521**	**µg/kg, ww**	**<0.0001**
DDD	**199**	**µg/kg, ww**	**69.7**	**µg/kg, ww**	**<0.0001**
DDT	**19.8**	**µg/kg, ww**	**4.92**	**µg/kg, ww**	**0.0006**

Contaminant	Geometric Mean (1997–1998)	Unit	Geometric Mean (2004)	Unit	*P*
HCB	**3.66**	**µg/kg, ww**	**1.73**	**µg/kg, ww**	**0.0002**
Beta-hexachlorocyclohexane	0.43	µg/kg, ww	0.28	µg/kg, ww	0.1685
Total chlordanes[1/]	**26.8**	**µg/kg, ww**	**14.7**	**µg/kg, ww**	**0.0004**
Heptachlor epoxide	**7.21**	**µg/kg, ww**	**2.72**	**µg/kg, ww**	**<0.0001**
Dieldrin	**6.47**	**µg/kg, ww**	**1.44**	**µg/kg, ww**	**<0.0001**
Sum of 39 PCB congeners	**1435**	**µg/kg, ww**	**783**	**µg/kg, ww**	**0.0013**
PCB TEQs[2/]	50	ng/kg ww	36.7	ng/kg ww	0.0959
PCDD TEQs	**12.4**	**ng/kg ww**	**3.8**	**ng/kg ww**	**<0.0001**
PCDF TEQs	1.48	ng/kg ww	1.74	ng/kg ww	0.6838
Combined TEQs[3/]	**62.5**	**ng/kg ww**	**43.8**	**ng/kg ww**	**0.0385**

Notes: 29 egg samples were collected from 1997 to 1998; 40 egg samples were collected in 2004. Bolded values indicate significant differences between years (P<0.05). dw = dry weight; ww = wet weight; TEQ = toxic equivalent; µg/g = microgram per gram; µg/kg = microgram per kilogram; ng/kg = nanogram per kilogram. 1/ Total chordanes = sum of: trans-nonachlor, cis-nonachlor, oxychlordane, trans-chlordane, and cis-chlordane. 2/ Calculated by the method of Van den Berg et al. (1998). 3/ Includes PCB, PCDD, and PCDF TEQs. No-observed-adverse-effects level for ospreys, 136 ng/kg (ww) (Woodford et al. 1998).
Source: Henny et al. (2008).

Henny et al. (2011) performed follow up sampling in 2008–2009 to examine the incidence and concentration of PBDEs in osprey eggs on the lower Columbia River. PBDE data for osprey eggs collected in a reach of the Columbia River below Bonneville Dam near Skamania, Washington, (RM 124 to143) are presented in Table 2-16 below. Henny et al. (2011) found that PBDE egg concentrations peaked between 2005 and 2007 (roughly corresponding the voluntary cessation of penta- and octa-PBDE mixtures in the United States) and suggested that PBDE concentrations may continue to trend downward.

Table 2-16. The Incidence, Geometric Mean and Highest Concentration of PBDE Congeners Analyzed in Five Osprey Egg Samples from Lower Columbia River

PBDE Congener	Detections	Geometric Mean	High Concentration
BDE-119	2	Not calculated	1.54 ng/g, ww
BDE-155	5	0.8 ng/g, ww	1.33 ng/g, ww

Note: Samples were collected in 2009 along the Columbia River from RM 124 to RM 143, which corresponds to a section of river near Skamania, Washington, and downstream of the Bonneville reach as designated by this document. Thirty-two other PBDE congeners were analyzed but not detected.
Source: Henny et al. (2011).

Hinck et al. (2006) reported tissue contaminant concentrations for a variety of fish species in the Columbia River (Table 2-17). Of interest to Bonneville reach were tissue samples of carp (*Cyprinus carpio*), bass (*Micropterus dolomieu*), and northern pikeminnow (*Ptychocheilus oregonensis*) collected from 1970 to 1997 at one site approximately four miles downstream from Bonneville Dam (Warrendale, OR). Heavy metals, p,p'-DDE, and PCBs were detected in all species sampled. All species at all locations exceeded the SEF Target Tissue Levels (TTLs) for p,p'-DDE. Bass and northern pikeminnow collected at Warrendale exceeded the SEF TTL for total mercury.

Table 2-17. Least-Squares Geometric Mean Concentrations in Composite Samples of Whole Fish

Type	*Taxon*, Sample Station	Arsenic µg/g	Cadmium µg/g	Total Mercury µg/g	Weight-Adjusted Total Mercury µg/g/kg	Length-Adjusted Total Mercury µg/g/m	Selenium µg/g	Lead µg/g	Zinc µg/g	p,p′-DDE µg/g	Total PCBs µg/g
Carp	Ice Harbor Dam, WA	0.46	0.2	0.1	0.03	0.16	0.51	0.06	65.5	0.81	0.24
Carp	Vernita Bridge, WA	0.14	0.42	0.09	0.04	0.16	0.5	0.27	73.4	0.83	0.33
Carp	Pasco, WA	0.22	0.35	0.04	0.05	0.16	1	0.09	88.5	0.27	0.04
Carp	Granger, WA	0.28	0.03	0.16	0.1	0.32	0.36	0.05	78.4	0.72	0.1
Carp	Warrendale, OR	0.28	0.31	0.1	0.04	0.18	0.46	0.05	82.7	0.31	0.14
Largescale sucker	Ice Harbor Dam, WA	0.12	0.08	0.11	0.09	0.22	0.31	0.07	22.1	0.31	0.11
Bass	Ice Harbor Dam, WA	0.31	0.03	0.14	0.18	0.39	0.45	0.06	12.6	0.23	0.03
Bass	Vernita Bridge, WA	0.15	0.08	0.15	0.09	0.33	0.7	0.06	14.4	0.51	0.3
Bass	Pasco, WA	0.13	0.03	0.1	0.16	0.31	0.81	0.05	16.9	0.21	0.03
Bass	Granger, WA	0.14	0.03	0.18	0.43	0.6	0.42	0.06	14.9	0.82	0.39
Bass	Warrendale, OR	0.4	0.03	0.19	0.25	0.53	0.5	0.06	12.4	0.18	0.38
Northern pikeminnow	Vernita Bridge, WA	0.65	0.14	0.3	0.29	0.62	0.41	0.05	19.6	0.28	1.3
Northern pikeminnow	Granger, WA	0.09	0.04	0.48	0.8	1.16	0.32	0.05	16	0.8	0.17
Northern pikeminnow	Warrendale, OR	0.3	0.05	0.49	0.42	0.95	0.28	0.05	17.1	0.37	0.68

Notes: µg/g = microgram per gram; µg/g/kg = microgram per gram adjusted per kilogram body weight ; µg/g/m = microgram per gram adjusted per meter body length
Source: Hinck et al (2006).

Johnson et al. (2010) analyzed for PCBs, organochlorine pesticides (including DDTs), PAHs, and PBDEs in juvenile fall Chinook salmon (*Oncorhynchus tshawytscha*) hatchery fish prior to their release into the lower Columbia River. Both feed and fish from eight hatcheries were analyzed. Contaminant levels in the pre-release fish were below levels associated with adverse health effects in salmon. Contaminant levels in pre-release fish were also lower than levels detected in field-collected hatchery-reared juvenile fall Chinook salmon, suggesting that the river environment is a more important source of contamination than hatcheries or hatchery feed.

Nilsen et al. (2015) collected sediment and Pacific lamprey (Entosphenus tridentatus) tissue samples from several locations along major tributaries of the Columbia River. Results for larval lamprey tissue and sediment can be found in Table 2-18 and Table 2-19, respectively. Samples most relevant to the Bonneville reach were those collected from Hood River, Mill Creek, and Fifteenmile Creek. In larval lamprey tissue collected in Bonneville reach, total DDTs was the

contaminant with the highest concentration. In sediments collected in Bonneville reach, PAHs were the contaminant detected at the highest concentration.

Table 2-18. Contaminant Data for Larval Lamprey Collected in 2011 to 2012

Parameter (µg/kg)	Hood River 1	Hood River 2	Hood River 3	Mill Creek	Fifteenmile 1	Deschutes River Mouth	Lower Umatilla
Chlorpyrifos	2.4	BD	2.2	30	1.5	BD	BD
Cyhalothrin	1.7	BD	BD	BD	BD	BD	BD
Oxyfluorfen	BD	BD	BD	BD	120	BD	BD
PBDEs (sum of 10 congeners)	1.8	2.1	BD	20.7	8.9	1.7	37.74
Total chlordane (cis-chlordane, trans-chlordane, cis-nonachlor, trans-nonachlor)	BD	BD	BD	66.5	3.72	BD	2.91
Total DDTs (sum of DDD, DDE, DDT)	126	180	140	77	13	BD	81
Dieldrin	4.4	BD	BD	3.7	BD	BD	BD
Total endosulfans (I, II, and endosulfan sulfate)	17.6	8.4	10.9	11.9	1.8	BD	BD
Hexachlorobenzene (HCB)	1.2	BD	BD	4.3	1.8	BD	BD
Pentachloroanisole (PCA)	1.9	BD	BD	4.6	3.1	BD	BD
PCBs (sum of 15 congeners)	BD	BD	BD	BD	BD	BD	BD

Note: BD = below detection. **Source:** Nilsen et al. (2015).

Table 2-19. Contaminant Data for Surficial Sediments Collected from 2011 to 2012

Parameter (µg/kg)	Hood River 1	Hood River 2	Hood River. 3	Mill Creek	Fifteenmile 1	Deschutes River Mouth	Lower Umatilla
Chlorpyrifos	BD	BD	BD	1.2	0.34	BD	BD
Para-cresol	19	BD	22	114	27	91	49
Phenol	BD	BD	BD	427	BD	BD	BD
Triclosan	7.6	BD	BD	BD	BD	BD	BD
PAHs	50.8	BD	2.8	4,931	14.3	27.2	56.4
Cyhalothrin	BD	BD	BD	BD	0.31	BD	BD
Oxyfluorfen	BD	BD	BD	BD	BD	BD	BD
PBDEs (sum of 10 congeners)	BD	BD	BD	4.84	0.38	BD	BD
Total chlordane (cis-chlordane, trans-chlordane, cis-nonachlor, trans-nonachlor)	BD	BD	BD	4.34	BD	BD	BD
Total DDTs (sum of DDD, DDE, DDT)	1.1	1.98	0.92	4	BD	BD	0.4
dieldrin	BD	BD	BD	0.11	BD	BD	BD
Total endosulfans (I, II, and endosulfan sulfate)	0.23	0.21	0.5	1.32	0.28	BD	BD
Hexachlorobenzene (HCB)	BD	BD	BD	1.2	BD	BD	0.17
PCBs (sum of 18 congeners)	BD	BD	BD	0.3	BD	BD	BD

Source: Nilsen et al. 2015

Under a grant from EPA to establish a baseline study for the Regional Environmental Monitoring and Assessment Program (REMAP) characterizing the lower mid-Columbia River, ODEQ developed a probabilistic sampling design to characterize fish tissues collected from Bonneville Dam to just above McNary Dam (ODEQ 2012). Twenty-three probabilistic sites along the river mainstem were selected randomly, with approximately half being sampled from the Oregon shoreline and the other half being sampled from the Washington shoreline. A summary of tissue data from the probabilistic sites is presented in Table 2-20. Eight targeted sites were sampled including the mouths of major tributaries (Hood, Big White Salmon, Klickitat, John Day, Deschutes, and Umatilla Rivers) and near potential sources of pollution (downstream of the Portland General Electric Boardman coal-fired power plant, a potential mercury source; and downstream of The Dalles, a potential urban contaminant source). Data from the targeted locations within the Bonneville reach are presented in Table 2-21. Overall, 81 percent of tissue samples were smallmouth bass (*Micropterus dolomieu*) and 19 percent largescale sucker; the species distribution was similar among probabilistic and targeted site samples.

Table 2-20. Fish Fillet Data, Columbia Mainstem Probabilistic Sites

Analyte	Minimum	Maximum	Median	Mean	Standard Deviation	Percent Detects	Screening Values
Total mercury (mg/kg)	**0.11**	**0.5**	**0.19**	**0.22**	0.11	100%	0.04[1/]
Total 2,3,7,8 substituted dioxin-furans (ng/kg)	<LOD	**1.8**	NC	**0.23**	0.5	22%	0.0026[2/]
Total DDTs (ng/kg)	**3,338**	**134,312**	**12,309**	**33,086**	**41,501**	100%	1,200[3/]
Total chlordane[4/] (ng/kg)	62	**2,677**	242	655	794	100%	1,143
Dieldrin (ng/kg)	13	**714**	**53**	**134**	182	100%	25
Total PCBs (ng/kg)	**1,430**	**38,969**	**5,768**	**9,466**	10,531	100%	200[5/]
Total PBDEs (ng/kg)	800	15,746	3,226	4,600	4,416	100%	–

Notes: Bold values exceed the screening values. NC = not calculated; LOD = limit of detection. 1/ ODEQ's human health fish consumption criterion for total methylmercury (Matzke, Sturdevant, and Wigal 2011), is presented here as a Screening Value for total fillet mercury (i.e., assumes 100 percent of the fillet mercury is methylated). 2/ ODEQ human health screening value based on 175 grams per day fish consumption rate. 3/ Draft Washington Department of Health screening values based on the Oregon fish consumption rate. 4/ Total chlordane is the sum of cis-nonachlor, trans-nonachlor, cis-chlordane, trans-chlordane, and oxychlordane. 5/ ODEQ's total PCB water quality criterion for human health protection was converted to the equivalent tissue residue concentration by removing the bioaccumulation factor from the denominator (see also, p. 51). **Source:** ODEQ (2009).

Table 2-21. Fish Fillet Data, Targeted Sites in Bonneville Reach

Analyte	White Salmon River	Hood River	Klickitat River	Columbia River Downstream of The Dalles at RM 188	Screening Values
Total mercury (mg/kg)	**0.46**	**0.35**	**0.77**	**0.21**	0.04[1/]
Total 2,3,7,8 substituted dioxin-furans (ng/kg)	<LOD	**1.7**	<LOD	<LOD	0.0026[2/]
Total DDTs (ng/kg)	**4,706**	**229,720**	**5,712**	**16,062**	1,200[3/]

Analyte	White Salmon River	Hood River	Klickitat River	Columbia River Downstream of The Dalles at RM 188	Screening Values
Total chlordane[4/] (ng/kg)	132	**3,367**	136	450	1,143
Dieldrin (ng/kg)	**33**	**609**	**26**	**339**	25
Total PCBs (ng/kg)	**1,562**	**71,561**	**3,380**	**3,485**	200[5/]
Total PBDEs (ng/kg)	1,406	26,936	1,347	1,511	–

Notes: Bold values exceed the screening values. 1/ ODEQ's human health fish consumption criterion for total methylmercury (Matzke, Sturdevant, and Wigal 2011), is presented here as a SV for total fillet mercury (i.e., assumes 100 percent of the fillet mercury is methylated). 2/ ODEQ human health screening value based on 175 grams per day fish consumption rate. 3/ Draft Washington Department of Health screening values based on the Oregon fish consumption rate. 4/ Total chlordane is the sum of cis-nonachlor, trans-nonachlor, cis-chlordane, trans-chlordane, and oxychlordane. 5/ ODEQ's total PCB water quality criterion for human health protection was converted to the equivalent tissue residue concentration by removing the bioaccumulation factor from the denominator. **Source:** ODEQ (2012).

Sloan et al. (2010) sampled juvenile chinook salmon and analyzed whole fish tissue and stomach contents for PBDE content. Results for the Warrendale sample station (located approximately 4 miles downstream of Bonneville Dam) are assumed to be representative of potential exposure of juvenile chinook while transiting through the Bonneville reach (Table 2-22). Hatcheries sampled for this study are located both above and below Bonneville Dam. PBDE content of fish collected at Warrendale is statistically significantly lower than that for fish collected downstream of this sample station (data for other stations not shown). PBDE content of hatchery fish are statistically significantly lower than in Warrendale fish and lower than all other locations tested (data not show). A similar pattern for stomach contents is apparent, but statistics were not presented to determine the statistical significance.

Table 2-22. PBDE Concentrations in Juvenile Chinook Salmon from the Lower Columbia River and Hatcheries

Station Name	Sample Date	Sample Type	Number of samples	Number of fish per sample	Mean ± SD Fork Length (mm)	Mean ± SD Lipid Content	Range of Summed PBDEs[1/]	Mean ± SD Summed PBDEs[1/]
Warrendale	April to July 2005	Whole fish	9	2–3	84 ± 9	2.4 ± 1.1	<LOQ–550	160 ± 170
Warrendale	April–July 2005	Stomach contents	5	11–33	85 ± 7	NR	<LOQ–7.1	3.6 ± 3.5
Hatcheries	May 2005	Whole fish	8	10	79 ± 7	4.5 ± 1.2	<LOQ–27	6.0 ± 11
Hatcheries	May 2005	Hatchery feed	8	N/A	N/A	NR	<LOQ–2.9	1.1 ± 1.1

Notes: SD = standard deviation; NR = not reported; N/A = not applicable. 1/ Results for whole fish are in terms of PBDEs ng/g lipid weight; results for stomach contents/hatchery feed are in terms of ng/g wet weight.

Christiansen et al. (2014) collected largescale sucker liver tissue samples from several locations on the lower Columbia River, including at Skamania, Washington. Skamania is located approximately 5 miles downstream of Bonneville Dam, and water quality with respect to environmental contaminants at this location is assumed to be similar to that of water immediately upstream of the dam. Tissue sample results are reported in Table 2-23.

Table 2-23. Summary of Contaminant Concentrations in the Liver of Largescale Suckers on the Columbia River at Skamania, WA

Contaminant (µg/kg ww)	Mean
p,p'-DDE + p,p'-DDD	90
Cis-chlordane + cis- and trans-nonachlor	1.82
Dieldrin	ND
Hexachlorobenzene	ND
TOTAL PCBs (sum of 12 congeners)	40.94
TOTAL PBDEs (sum of 4 congeners)	30.12
Chlorpyrifos	0.72
Triclosan	26

Notes: Sample size = 8; µg/kg = micrograms per kilogram; ww = wet weight.
Source: Christiansen et al. (2014).

Nilsen et al. (2014) reported the results for fish tissue samples (Table 2-24 and Table 2-25), as well as sediment organic matter (SOM) and invertebrates collected near Skamania, Washington. Based on this data, Nilsen et al. (2014) were able to show that biomagnification for many of the contaminants of concern is occurring in the lower Columbia River. Nilsen et al. (2014) calculated biota-sediment accumulation factors (BSAFs) and biomagnification factors (BMFs) for contaminant dynamics in the foodchain near Skamania, Washington (Table 2-26).

Table 2-24 Chemical Concentrations (ng/g ww) in Composites of Male Fish Tissues Collected near Skamania, Washington

Type	Chlordane[1/]	Dieldrin	Hexachlorobenzene	Total DDT[2/]	Total PCB[3/]	Total PBDE[4/]
Brain	ND	ND	0.499	**33.2**	**5.11**	ND
Fillet	0.678	ND	0.300	**23.0**	4.61	0.426
Liver	1.26	**1.50**	1.37	**157**	**20.0**	21.0
Stomach	0.773	ND	0.540	**53.3**	**5.26**	0.507
Gonad	ND	ND	0.159	12.0	0.976	0.168
Average[5/]	0.542	0.3	0.574	**55.7**	**7.20**	4.42

Notes: ng/g = nanograms per gram; ww = wet weight; ND = not detected. Bold values indicate an ODEQ 2007 acceptable tissue level (ATL) exceedance; italicized values indicate no ATL has been established. Collection from 2009 (N=16) compared to ODEQ 2007 ATLs. 1/ Sum cis and trans. 2/ Total DDT includes p,p-DDE and p,p-DDD; p,p-DDT not detected. 3/ Total PCB includes congeners 110, 118, 138, 146, 149, 151, 170, 174, 177, 180, 183, 187,194, 206; 101 not detected. 4/ Total PBDE includes congeners 47, 100, 153, 154; 66, 71, 85, 99, 138, 183 not detected. 5/ Calculated average of the five tissue types analyzed. **Source:** Nilsen et al. (2014).

Table 2-25. Geometric Means of Major PBDE Congener Concentrations for Tissue Samples Collected near Skamania, Washington, in 2009 and Osprey Eggs

PBDE congener	Sediment Organic Matter	Invertebrate	Average Fish[1/]	Osprey Eggs
PBDE47	ND	ND	3.24	94.8
PBDE99	ND	ND	ND	15.2
PBDE100	0.17	0.13	0.784	42.7
PBDE153	ND	ND	0.306	12.6
PBDE154	ND	ND	0.0948	12.6

NoteS: Sample size = 16; ND = not detected; ng/g = nanograms per gram; ww = wet weight. 1/ Calculated mean of the five tissue types analyzed. **Source:** Henny et al. (2011); Nilsen et al. (2014).

Table 2-26. Biota-Sediment Accumulation Factors and Biomagnification Factors Calculated for the Foodweb in the Columbia River near Skamania, Washington, in 2009

SOM – Invertebrate[1/]	SOM – LSS[1/]	Invertebrate – LSS[2/]	LSS – Osprey[2/]
N/A	N/A	N/A	29.3
N/A	N/A	N/A	N/A
0.779	4.61	5.92	54.5
N/A	N/A	N/A	41.3
N/A	N/A	N/A	133

Notes: LSS = largescale sucker; N/A = indicates BSAF/BMF not calculated. 1/ Biota-Sediment Accumulation Factors. 2/ Biomagnification Factors.

Torres et al. (2014) collected additional fish tissue samples in 2010 (n = 15) in the same reach of the lower Columbia River below Bonneville Dam near Skamania, Washington, that Nilsen et al. sampled the previous year. A comparison between the 2009 and 2010 data is presented in Table 2-27. While there are some increases in contaminant levels between years, there is not a sufficient number of data points to establish the statistical significance (or non-significance) of these apparent trends.

Table 2-27. Contaminant Concentrations in Liver of Male Largescale Sucker Collected from the Lower Columbia River near Skamania, Washington, in 2009

	2009 (result of single composite sample)	2010 Mean (standard error)
Sample size (N)	16	15
Dimethyl tetrachloroterephthalate	0.9	2.1 (0.43–5.9)
p,p′-DDE	157	425.7 (4–1270)
Hexachlorobenzene	1.4	1.5 (0.5–4.6)
PCB-138	6.4	11.3 (0.25–44)
PCB-146	0.9	4.9 (0.4–22)
PCB-170	1.3	5.3 (0.45–23)
PCB-174	0.1	2.4 (0.45–11)
PCB-180	2.7	10.0 (0.81–44)
PCB-183	0.8	2.9 (0.24–12)
PCB-187	2.3	8.4 (0.94–33)
PCB-194	0.4	1.5 (0.42–6.5)
PBDE-47	16.2	69.8 (8.7–300)
PBDE-100	3.9	16.0 (1.7–95)
PBDE-153	0.2	0.8 (0.22–2.2)
PBDE-154	0.7	2.9 (0.35–15)

Notes: Values are in µg/kg ww (micrograms per kilogram wet weight); contaminants with more than 15 percent of non-detectable concentrations are not included. Only those contaminants included in the initial statistical analysis are shown. Values for 2009 were measured in a single composite sample; those for 2010 are mean (standard error) of individual fish values. **Sources:** Nilsen et al. (2014); Torres et al. (2014).

2.4.4 Elutriate Data

There is no existing elutriate data available for the Bonneville reach of the lower Columbia River.

2.4.5 Passive Sampler Data

Passive samplers are devices that approximate the uptake of contaminants from water by biological organisms over a period of time. Passive samplers are constructed of a polymer matrix such as plastic, either by itself, or as a membrane surrounding a lipophilic substance that mimics the behavior of lipids in organisms with respect to the diffusion and absorption of environmental contaminants. Depending on the materials and construction of the passive sampler, different classes of chemical contaminants may be targeted for sampling and analysis. For example, polar organic chemical integrative samplers (POCISs) are used to sample polar organic contaminants (i.e., those which have a molecular dipole) such as organophosphate based flame retardants and certain pesticides, such as chlorpyrifos. In contrast, semipermeable membrane devices (SPMDs) are used to sample non-polar environmental contaminants such as PAHs, PCBs, PBDEs, chlorinated pesticides, dioxins, and furans.

Alvarez et al. (2014) used POCISs and SPMDs to sample contaminants from the Columbia River water column during four sampling periods between 2008 and 2010. Skamania, a town located on the Washington shoreline about 5 miles downstream of Bonneville Dam, was a sample location. Water at this location is likely similar in quality to water immediately upstream from Bonneville Dam. Results for the Skamania sample station are reported in Table 2-28.

Table 2-28. Total Waste Indicator and Legacy Organic Contaminants Measured at Skamania, WA

Contaminant	Spring 2008 (ng/L)	Fall 2008 (ng/L)	Spring 2009 (ng/L)	Spring 2010 (ng/L)
Total PAHs	6.2	2.2	4	0.77
Total Industrial	14	ND	ND	0.2
Total Pesticides	0.45	ND	3.3	0.008
Total Alternative flame Retardants	ND	ND	ND	ND
Total Plasticizers	31	ND	270	17
Total Other	ND	ND	ND	ND
Estimated Estradiol Equivalents	0.16	2.5	ND	ND
Total PBDEs	0.04	0.019	0.013	1.1
Total PCBs	ND	0.47	ND	1
Total DDTs	0.19	0.17	0.11	0.58
Total Chlordanes	0.019	0.018	0.077	0.22
Total Pyrethroids	0.057	0.022	ND	0.47
Total Endosulfans	1.1	0.26	1.8	1.7
Total miscellaneous chlorinated organic pesticides	0.16	0.068	0.046	0.26
Chlorpyrifos	0.21	0.01	0.14	0.24

Notes: ND = not detected; ng/L = nanograms per liter. Alternative flame retardants are phosphate-based. For estimated estradiol equivalents, total estrogenicity is measured by the yeast estrogen screen.
Source: Alvarez et al. (2014).

2.5 RIVER SEGMENT DEVELOPMENT AND TRENDS

As stated previously, there is an ongoing investigation and remediation effort at Bradford Island being undertaken by the Corps for contaminated sediment.

The Columbia River Gorge National Scenic Area Act of 1986 designated lands along the Columbia Gorge, including the upland areas of Bonneville reach, as a National Scenic Area. The Act further directed the Columbia River Gorge Commission and the USFS to develop a plan for management of the scenic area. The Columbia Gorge Scenic Area Management Plan identifies resources in need of protection and enhancement, establishes land use designations and policies, and develops a program for economic and recreational development (Gorge Commission and USFS 2011). Development of new facilities and infrastructure within the Columbia River Gorge National Scenic Area are regulated by the plan and new land uses must be approved by the commission prior to construction. Of interest relative to sediments in the Columbia River, the plan restricts changes in topography and grading and requires new development to implement measures to minimize erosion and sedimentation.

There are no other known land use initiatives or activities identified for the Bonneville reach.

2.6 CONCEPTUAL SITE MODEL

There is a limited understanding of the conceptual site model for the Bonneville reach as a whole because of the lack of sitewide data.

Activities within the Bonneville reach, such as historic industrial operation and waste disposal at Bradford Island near the Bonneville Dam complex, have contributed to direct contamination of sediment in the immediate vicinity of those historical activities. It is unknown what other historical or current activities within the Bonneville reach could serve as a source of direct contamination to sediments. A commercial database search to identify potential sources the shore of the Bonneville reach of the Columbia River identified 1,230 properties that may represent sources of contamination (see Section 2.4.1 and Chapter 6). Further investigation of these sites would be needed to substantiate whether releases to the Columbia River from the respective sites are occurring or have occurred. Tributaries of the Bonneville reach could also serve as a source of contamination to surface water and sediment, although no known contributions have been found. Upstream sources of contaminants, both in surface water and sediment, could also contribute to the presence of contamination in the Bonneville reach.

Any potentially contaminated sediment could be distributed throughout the Bonneville reach through erosion and deposition processes. These mechanics are not well documented for the reach as a whole, but it could be assumed that there are sediments depositing in the Bonneville reach from tributaries, with exact quantities unknown. Sediment from upstream of the Bonneville reach could be assumed to be limited

(though not absent), given the number of dams upstream of this reach that likely entrain sediment and limit transport.

Water soluble contaminants are present within the Bonneville reach, as indicated by the TMDL and state water quality classifications (see Section 2.2.2). Bioaccumulative contaminants in tissue are also present in aquatic receptors throughout the Bonneville reach.

2.6.1 Secondary Media and Release Mechanisms

Both surface water and sediment can serve as secondary media. Tissues of aquatic receptors also serve as a secondary media source for bioaccumulative contaminants. Release mechanisms include hydraulically induced erosion as well as other physical disturbances from anthropogenic activity, such as navigation and recreational activities.

2.6.2 Exposure Routes

Primary exposure routes to human and biological receptors are through direct contact and ingestion of sediment and/or surface water, depending on the contaminant. Exposure routes to human receptors also includes fish consumption.

2.6.3 Pathway Completeness

Based on the TMDLs and Washington state water quality classifications (see Section 2.2.2), complete pathways are present for bioaccumulative contaminants in aquatic receptors based on the listings for fish tissue. Whether surface water or sediment serves as the primary or secondary source for these pathways is uncertain. However, for more hydrophobic contaminants, it can be assumed that those chemicals identified in the state water quality classifications are present to some degree in sediment.

SECTION 3 - RECOMMENDATIONS AND CONCLUSIONS

Sediment data for the Bonneville reach is limited, and sediment quality can only be characterized for isolated portions of the reach and for a limited suite of chemicals and parameters. Reference area sampling for the Bradford Island project at Bonneville Dam is the only data that provides a somewhat representative analysis of sediment quality for the Bonneville reach. This data may or may not be able to be extrapolated to the rest of the Bonneville reach depending upon the grain size and sediment deposition characteristics for this reference area.

3.1 RECOMMENDATIONS

Sediment data for the Bonneville reach is limited and does not provide an adequate sitewide characterization of sediment quality as a whole. To provide a full characterization of sediment quality in the Bonneville reach, further empirical data is needed for a full suite of chemicals, as well as physical parameters, including but not limited to grain size and organic carbon. Sediment data is needed in both biased sampling locations as well as throughout the reach to provide a sense of contaminant sources and sitewide characteristics. Sediment data is needed for both surface and subsurface. A characterization of erosional and depositional areas would also provide valuable information on the sediment dynamics for the reach.

3.1.1 Conceptual Site Model

The conceptual site model for the Bonneville reach is based on general assumptions related to river mechanics and limited existing data available for sediment. As such, no formal conclusions can be developed based on the summary of the conceptual site model for this reach.

3.1.2 Chemicals of Concern

Due to the limited availability of chemical data for sediment in the Bonneville reach, no formal conclusions can be developed based on the summary of sediment data for this reach.

3.2 CONCLUSIONS

As stated throughout the document, there is limited data for this reach of the lower Columbia River. Additional information is needed to provide an accurate characterization of the existing conditions within the Bonneville reach.

SECTION 4 - TERMINOLOGY – CHEMISTRY AND CHEMICALS OF CONCERN

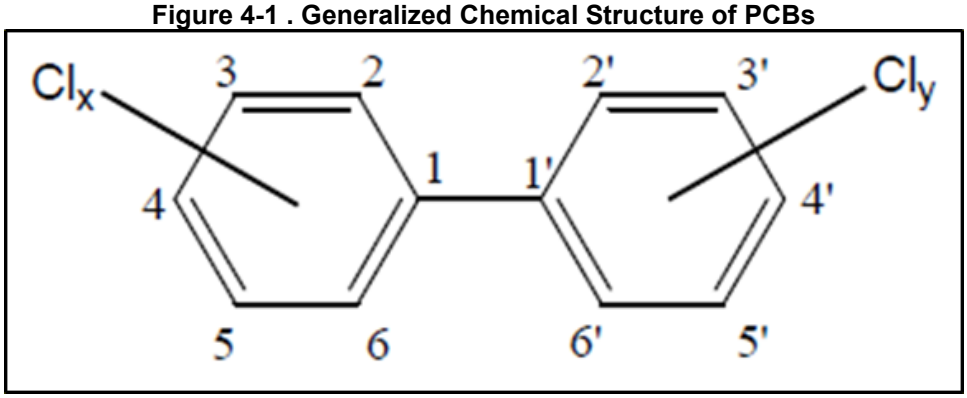
The following paragraphs and tables summarize information about chemicals of concerns described in the data cited in this appendix.

Most chemicals of concern cited in this report existed as chemical mixtures at the time of their release to the environment, rather than as pure substances. A chemical mixture is one where two or more different substances are physically combined, but the identities of the individual chemicals are retained. These mixtures usually become separated and changed in the environment over time. The degree and nature of separation and change depend on the physical and chemical characteristics of the individual chemicals in the mixture and their interaction with the physical and chemical characteristics of the local environment where they were released. Chemical mixtures often are composed of isomers, congeners, and/or isotopes.

An isomer of a chemical shares the same number and type of atoms but is arranged in a different configuration. Isomers have the same chemical formula but may or may not have similar chemical characteristics. For example, the pesticide lindane and its isomers (hexachlorocyclohexanes) all contain six atoms each of carbon, hydrogen, and chlorine. However, the orientation of how these elements are connected varies between isomers, affecting the chemical and physical properties of each isomer. Lindane (gamma-hexachlorocyclohexane) is toxic to insects and is the active insecticidal compound in technical lindane mixtures used as pesticides (Agency for Toxic Substances and Disease Registry [ATSDR] 2005). However, the other hexachlorocyclohexane isomers in technical lindane mixtures (primarily alpha- and beta-hexachlorocyclohexane) do not have insecticidal properties and are more toxic to humans in long-term exposure scenarios than lindane (gamma-hexachlorocyclohexane) (ATSDR 2005).

Congeners are related chemical substances that share similar structures and chemical properties, often created together in the same production process. Though congeners are similar to each other, they do not necessarily have the same number or type of atoms. For example, PCBs contain from 2, and up to 10 chlorine atoms and share similar chemical structure (e.g., biphenyl) (Figure 4-1). Of the major producer of PCBs in the United States, Monsanto Corporation produced commercial PCB mixtures under the trade name Aroclor. Each Aroclor mixture contained a varying amount of PCB congeners; the last two digits of the Aroclor number indicates the average chlorine content of that mixture. For example, Aroclor 1254 contained an average chlorine content of 54 percent. (The exception to this code is Aroclor 1016, which contained 41 percent chlorine).

Figure 4-1 . Generalized Chemical Structure of PCBs



Isotopes are variants of the same chemical element. An element's identity is defined by the number of protons contained in its nucleus. The isotopes of an element vary in the number of neutrons contained in the nucleus. For example, while all uranium isotopes contain 92 protons, the most common uranium isotope (^{238}U) has 146 neutrons. The sum of protons and neutrons is the element's mass number, and isotopes are specified by reference to their mass number. In the case of ^{238}U, 92 protons plus 146 neutrons equals a mass number of 238; hence this isotope is referred to as "uranium-238" or ^{238}U.

It is important for interpretation of chemical analytical data to understand the nature of the analytical procedure and type of information that is produced. Many analytical procedures can distinguish individual constituents and the results return the concentration of each constituents (metals analysis is a good example). In contrast, some analyses return concentrations representing the sum of several individual constituent chemicals (the analysis for PCB Aroclors is a good example).

SECTION 5 - REFERENCES

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SECTION 6 - SUPPLEMENTAL TABLE

Table 6-1. Significant Potential Contamination Sources Adjacent to the Bonneville Reach of the Columbia River

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,H,K,BO,	KLICKITAT COUNTY SHOP WHITE SALMON	1330 SW CHILDS RD	WHITE SALMON	WA	98672	
,BO,	DELLA & CHARLES HENDERSON PROPERTY	950 SW WINEBARGER RD	WHITE SALMON	WA	98672	
,BO,	MCCOYS WHITE SALMON DEVELOPMENT			WA		
,BO,	DUANE FORSBERG PROPERTY	103 SW EYRIE RD	WHITE SALMON	WA	98672	
,I,BO,U,	KLICKITAT COUNTY PUD NUMBER 1	110 W ESTES	WHITE SALMON	WA	98672-9998	KLICKITAT
,HE,I,	WHITE SALMON, CITY OF	100 N MAIN ST	WHITE SALMON	WA	98672	KLICKITAT
,IM,	JACKPOT 01-424	559 E JEWETT AVE	WHITE SALMON	WA		
,IL,	HEIDIS GAS & DELI	320 E JEWETT BLVD	WHITE SALMON	WA		
,IL,	PANELOG	JEWETT & ESTES	WHITE SALMON	WA		
,IL,	TOWN PUMP GAS STATION	521 EAST JEWETT BLVD	WHITE SALMON	WA		
,IL,	YODEL'S	320 E JEWETT BLVD	WHITE SALMON	WA		
,FM,BP,BO,	NORTHWEST PIPELINE GP WHITE SALMON & H	HWY 14 T3N R10E S25 NE	WHITE SALMON	WA	98672	KLICKITAT
,FM,I,HE,EA,AM,BO,	MID COLUMBIA DRY CLEANERS	80 NE ESTES	WHITE SALMON	WA	98672	KLICKITAT
,I,BO,U,	ICE INC	225 E JEWETT AVE	WHITE SALMON	WA	98672	KLICKITAT
,I,BO,	SPRINT COMMUNICATIONS CO WHITE SALMON	225 N MAIN ST	WHITE SALMON	WA	98672	KLICKITAT
,I,H,K,BO,SS,	TOWN PUMP GAS STATION	521 E JEWETT BLVD	WHITE SALMON	WA	98672	KLICKITAT
,DS,	MANAHANS UNION 76 STATION	320 E JEWETT	WHITE SALMON	WA	98672	KLICKITAT
,CT,	HEIDI'S GAS & DELI	320 E. JEWETT BLVD.	WHITE SALMON	WA	98672	KLICKITAT
,HE,I,	NORTHWEST PIPELINE GP WHITE SALMON & H	HWY 14 T3N R10E S25 NE	WHITE SALMON	WA	98672	KLICKITAT
,DR,	MID-COLUMBIA DRY CLEANERS	80 NE ESTES AVE	WHITE SALMON	WA	98672	KLICKITAT
,DR,	MID-COLUMBIA DRY CLEANERS	34 W ESTES	WHITE SALMON	WA	98672	KLICKITAT
,AM,BO,	KANE PROPERTY	121 E JEWETT BLVD	WHITE SALMON	WA	98672	KLICKITAT
,BO,	WHITE SALMON DENTAL CARE	331 E JEWETT BLVD	WHITE SALMON	WA	98672	
,IM,	TOWN PUMP GAS STATION	521 E JEWETT BLVD	WHITE SALMON	WA		
,IM,	TOWN PUMP STATION	520 EAST JEWETT BLVD	WHITE SALMON	WA		
,IL,	JACKPOT 01-424	559 E JEWETT AVE	WHITE SALMON	WA		
,IL,	PANELOG	320 E JEWETT BLVD	WHITE SALMON	WA		
,IL,	STARVIN JOHNS DBA HEIDIS GAS & DELI	320 E JEWETT BLVD	WHITE SALMON	WA		
,IL,	TOWN PUMP GAS STATION	521 E JEWETT BLVD	WHITE SALMON	WA		
,IL,	TOWN PUMP	520 E JEWETT BLVD	WHITE SALMON	WA		
,IL,	TOWN PUMP	521 EAST JEWETT BLVD	WHITE SALMON	WA		
,BO,U,	BMS INVESTMENTS	25 E JEWETT BLVD	WHITE SALMON	WA	98672	
,AM,BO,U,	WHITE SALMON DEPT OF PUBLIC WORKS	216 NE TAHOMISH ST	WHITE SALMON	WA	98672	
,U,	MAX E LOGAN DBA MID-COLUMBIA CLEANERS	80 NE ESTES	WHITE SALMON	WA	98672	KLICKITAT
,H,K,BO,BF,U,	PANELOG HEIDIS GAS & DELI	320 JEWETT BLVD	WHITE SALMON	WA	98672	KLICKITAT
,AM,BO,AX,U,	JACKPOT 01-424	559 E JEWETT AVE	WHITE SALMON	WA	98672	KLICKITAT
,BO,U,	BROWNING TIMBER INC	RTE 1 BOX 224	WHITE SALMON	WA	98672	
,U,	TOWN PUMP GAS STATION	521 EAST JEWETT BLVD	WHITE SALMON	WA	98672	KLICKITAT
,I,HE,	CARSON MINERAL HOT SPRINGS	372 SAINT MARTINS SPRINGS RD	CARSON	WA	98610	SKAMANIA
,BO,	CARSON MINERAL HOT SPRINGS	372 SAINT MARTINS SPRINGS RD	CARSON	WA	98610	
,AM,M,BO,	WAUBISH ST HEATING OIL TANK	725 SW WAUBISH ST	WHITE SALMON	WA	98672	
,BO,	ATLANTIC & PACIFIC FREIGHTWAYS SPILL	SR14 MP 64.4		WA		
,DA,	COLUMBIA GORGE HOT SPRING	MP #39 BERGE ROAD BERGE ROAD	HOME VALLEY	WA	0	SKAMANIA
,DS,	HALESTORM INC	65205 HWY 14	WHITE SALMON	WA	98672	KLICKITAT
,I,DY,BO,U,	BRIDGE MART	65205 HWY 14	WHITE SALMON	WA	98672	KLICKITAT
,BO,U,	BRIDGE HIGHWAY STORE	HWY 14 & DOCK RD	WHITE SALMON	WA	98672	
,I,AM,BO,AX,	NW PIPELINE ST WHITE SALMON	HWY 14	BINGEN	WA	98605	KLICKITAT
,I,AM,BO,AX,	NW PIPELINE ST HOOD RIVER	HWY 14	BINGEN	WA	98605	KLICKITAT

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,I,H,BO,SS,U,	BROUGHTON LUMBER CO	92 FIREHOUSE RD	UNDERWOOD	WA	98651	SKAMANIA
,HE,I,	UNDERWOOD FRUIT AND WAREHOUSE	65550 HIGHWAY 14	WHITE SALMON	WA	98672	KLICKITAT
,I,HE,	NORTH SHORE MEDICAL BUILDING	65371 HIGHWAY 14	WHITE SALMON	WA	98672	KLICKITAT COUNTY
,BO,DI,	NORTH SHORE MEDICAL BUILDING	65371 HIGHWAY 14	WHITE SALMON	WA	98672	KLICKITAT
,BO,	CII WHITE SALMON	65405 HWY 14	WHITE SALMON	WA	98672	
,HE,I,	INTERIOR, FISH & WILDLIFE	LITTLE WHITE SALMON NATL FISH	COOK	WA	98605	SKAMANIA
,BO,	LITTLE WHITE SALMON HATCHERY DAM			WA		
,DZ,	SKAMANIA CO PUD 1	MP 1.50R	CARSON	WA	98610	SKAMANIA
,BO,	UNDERWOOD FRUIT	6550 STATE RD 14	BINGEN	WA	98605	
,FM,I,HE,BO,	NORTHWEST AUTO PARTS	114 N OAK ST	BINGEN	WA	98605	KLICKITAT
,I,BO,U,	MILL A SCHOOL DISTRICT 31	111 R JESSUP RD	COOK	WA	98605	SKAMANIA
,I,BO,	INSITU	118 HWY 14	BINGEN	WA	98605	KLICKITAT
,I,HE,	KD POK BUILDING	HARBOR DR	BINGEN	WA	98605	KLICKITAT
,HE,I,	BINGEN POTW	208 MARINA RD	BINGEN	WA	98605	KLICKITAT
,DZ,	SDS LUMBER CO	WALNUT & STEUBEN ST	BINGEN	WA	98605	KLICKITAT
,DS,	BINGEN SHELL SERVICE	119 E STEUBEN	BINGEN	WA	98605	KLICKITAT
,DS,	HATTENHAUER DISTRIBUTING CO	204 W STEUBEN ST	BINGEN	WA	98605	KLICKITAT
,DI,	SDS LUMBER CO BINGEN PIT	SEC 29 T 3 N R 11 EWM	BINGEN	WA	98605-0266	KLICKITAT
,AM,BO,DI,	RK GARWOOD CO INC	W STEUBEN ST	BINGEN	WA	98605-0096	
,BO,	SDS LUMBER CO BINGEN PIT	SEC 29 T 3 N R 11 EWM	BINGEN	WA	98605-0266	
,BO,DI,	RAPID READY MIX BINGEN PLANT	900 E STEUBEN	BINGEN	WA	98605	KLICKITAT
,BO,	INSITU BINGEN POINT	118 E COLUMBIA RIVER WAY	BINGEN	WA	98605	
,HH,	J K SAND & GRAVEL COMPANY			WA		KLICKITAT
,I,BO,	CHRISS MUFFLER & AUTO	114 STEUBEN	BINGEN	WA	98605	KLICKITAT
,IM,	UNOCAL BULK PLANT 0046	217 E STEUBEN	BINGEN	WA		
,IM,	WILSON OIL II	117 E STEUBEN	BINGEN	WA		
,IL,	46	217 E. STEUBEN ST.	BINGEN	WA		
,IL,	HUNSAKER OIL COMPANY INC BINGEN	102 E STEUBEN	BINGEN	WA		
,IL,	HUNSAKER OIL COMPANY INC	102 E STEUBEN	BINGEN	WA		
,IL,	MT ADAMS TIMBER	WALNUT AND STEUBEN	BINGEN	WA		
,IL,	UNOCAL BULK PLANT 0046	217 E STEUBEN	BINGEN	WA		
,IL,	UNOCAL BULK PLANT	217 E. STEUBEN ST.	BINGEN	WA		
,IL,	WILSON OIL INC BINGEN	117 E STEUBEN	BINGEN	WA		
,BO,	BINGEN POINT BUSINESS PARK		BINGEN	WA	98605	
,BO,U,	OLD CITY HALL	301 E STEUBEN	BINGEN	WA	98605	
,DY,H,K,BO,U,	WILSON OIL II	117 E STEUBEN	BINGEN	WA	98605	
,G,B,BP,BQ,	SDS LUMBER CO.	S SIDE OF BNRR OF STATE HIGHYWAY 14	BINGEN	WA	98605	
,HE,I,	DICKEY FARMS INC	511 W STEUBEN STREET	BINGEN	WA	98605	KLICKITAT
,AF,FC,	PORT OF KLICKITAT	401 BINGEN POINT WAY	BINGEN	WA	98605	
,I,BO,U,	BINGEN FORD LAMPHIEAR AUTO	120 E STEUBIN ST	BINGEN	WA	98605	KLICKITAT
,I,H,BO,DI,	MID COLUMBIA ASPHALT CO BINGEN	1250 E HWY 14	BINGEN	WA	98605	KLICKITAT
,I,BO,	HATTENHAUER DISTRIBUTING COMPANY	204 W STEUBEN	BINGEN	WA	98605	KLICKITAT
,I,BO,U,	GADDIS FRANCIS & KRENZ DON	115 W STEUBEN	BINGEN	WA	98605	KLICKITAT
,S,	SDS LUMBER CO	123 INDUSTRIAL ROAD	BINGEN	WA	98605	KLICKITAT
,I,HE,	SDS LUMBER CO	123 INDUSTRIAL RD	BINGEN	WA	98605	KLICKITAT
,DS,	HUNSAKER OIL BINGEN STATION	102 E STEUBEN ST	BINGEN	WA	98605	KLICKITAT
,DS,	BRYAN SERVICE	STEUDEN & OAK	BINGEN	WA	98605	KLICKITAT
,DS,	76 PRODUCTS	217 E STEUBEUN	BINGEN	WA	98605	KLICKITAT
,DS,	GULER OIL INC	117 E STEUBEN	BINGEN	WA	98605	KLICKITAT
,BQ,	SDS LUMBER COMPANY	WALNUT & STUEBEN STREETS	BINGEN	WA	98605	KLICKITAT
,H,K,BO,CT,SS,	UNOCAL BULK PLANT 0046	217 E STEUBEN ST	BINGEN	WA	98605	
,BQ,	SDS LUMBER CO	P. O. BOX 266	BINGEN	WA	98605	KLICKITAT

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,ZM,	SDS LUMBER CO	WALNUT & STEUBEN ST	BINGEN	WA	98605	KLICKITAT
,I,HE,	INSITU SITE	901 E BINGEN POINT WAY	BINGEN	WA	98605	KLICKITAT
,JH,	EAGLE CRUSHER 1100CC	505 W. STUEBEN	BINGER	WA	98605	
,DZ,	SDS LUMBER COMPANY	HWY 14	BINGEN	WA	98605	KLICKITAT
,DZ,	SDS LUMBER CO	RIVERFRONT, S OF BN TRACKS, S OF HWY 14	BINGEN	WA	98605	KLICKITAT
,I,HE,	WILCOX & FLEGEL OIL BINGEN BULK PLANT	217 E STUBEN ST	BINGEN	WA	98605	KLICKITAT
,BQ,M,BO,DI,	SDS LUMBER COMPANY	123 INDUSTRIAL ROAD	BINGEN	WA	98605	
,BO,DI,	WILCOX & FLEGEL BINGEN PLANT	217 E STUBEN	BINGEN	WA	98605	KLICKITAT
,BO,L,	BINGEN POTW	208 MARINA RD	BINGEN	WA	98605-0607	
,DI,	BINGEN POTW	208 MARINA RD	BINGEN	WA	98605-0607	KLICKITAT
,BO,	KD POK BUILDING	HARBOR DR	BINGEN	WA	98605	
,BO,	INSITU SITE	901 E BINGEN POINT WAY	BINGEN	WA	98605	
,BO,	RAPID READYMIX CO MT ADAMS	900 E MARINA WAY	BINGEN	WA	98605	
,IM,	HUNSAKER OIL COMPANY INC BINGEN	102 E STEUBEN	BINGEN	WA		
,IM,	UNOCAL BULK PLANT 46	217 E STEUBEN	BINGEN	WA		
,IL,	HUNSAKER OIL COMPANY, INC.	102 E STEUBEN	BINGEN	WA		
,IL,	PACIFIC PRIDE (FKA R K GARWOOD)	217 E STEUBEN ST	BINGEN	WA		
,IL,	SDS LUMBER CO	WALNUT AND STEUBEN BOX 266	BINGEN	WA		
,IL,	SDS LUMBER CO	WALNUT AND STEUBEN	BINGEN	WA		
,IL,	UNOCAL BULK PLANT 0046	217 E STEUBEN ST	BINGEN	WA		
,IL,	UNOCAL BULK PLANT 0046	217 E. STEUBEN ST.	BINGEN	WA		
,IL,	UNOCAL BULK PLANT 0046	511 W STEUBEN ST	BINGEN	WA		
,IL,	WILSON OIL II	117 E STEUBEN	BINGEN	WA		
,IL,	WILSON OIL INC	117 E STEUBEN	BINGEN	WA		
,IL,	WILSON OIL, INC.	117 E STEUBEN	BINGEN	WA		
,BO,	INSITU - EAGLE POINT BUILDING	901 EAST BINGEN POINT WAY	BINGEN	WA	98605	
,DA,	PORT KLICKITAT	150 E BINGEN POINT WAY	BINGEN	WA	98605	KLICKITAT
,DA,	PORT KLICKITAT	150 E BINGEN POINT WAY	BINGEN	WA	98605	KLICKITAT
,BO,U,	CA COLLINS INC	411 STEUBEN	BINGEN	WA	98605	
,BQ,CT,	SDS LUMBER COMPANY	WALNUT & STUEBEN	BINGEN	WA	98605	KLICKITAT
,BO,U,	UNDERWOOD FRUIT & WAREHOUSE COMPANY	SR 14	BINGEN	WA	98605	
,U,	WILSON OIL INC BINGEN	217 E STEUBEN ST	BINGEN	WA	98605	KLICKITAT
,U,	HATT'S FUEL STOP	204 W STEUBEN	BINGEN	WA	98605	KLICKITAT
,BO,U,	COLUMBIA RIVER LOG SERVICESW	DIKE RD	BINGEN	WA	98605	
,H,K,BO,CT,SS,U,	HUNSAKER OIL COMPANY INC BINGEN	102 E STEUBEN	BINGEN	WA	98605	
,BO,U,	BNR BINGEN WHITE SALMON PRINT 371	LINE SEGMENT 047 MP 75	BINGEN	WA	98605	
,AM,BO,U,	SDS LUMBER COMPANY	WALNUT & STEUBEN	BINGEN	WA	98605	
,FM,AM,BO,	WA DOT BINGEN UST	SR 14 MP 65.88 S SIDE	BINGEN	WA	98605	KLICKITAT
,BO,	PORT OF KLICKITAT		BINGEN	WA		
,HE,I,	WA DOT BINGEN MAINTENANCE SITE	SR 14 MP 65.88 S SIDE	BINGEN	WA	98605	KLICKITAT
,U,	WA DOT BINGEN MAINTENANCE	SR 14 MP 65 88 SOUTH SIDE	BINGEN	WA	98605	KLICKITAT
,HE,DZ,I,	US FISH AND WILDLIFE SERVICE - SPRING CREEK NATIONAL FISH HA	61552 STATE ROAD 14	UNDERWOOD	WA	98651	SKAMANIA
,I,HE,	SKAMANIA CO PUD 1	MILE POST 1.50R WIND RIVER HIGHWAY	CARSON	WA	98610	SKAMANIA
,FM,U,	HOOD RIVER FORD MERCURY	4TH & CASCADE	HOOD RIVER	OR	97031	HOOD RIVER
,FM,BP,K,U,	CLIFF SMITH MOTORS INC	3100 CASCADE AVE	HOOD RIVER	OR	97031-9780	HOOD RIVER
,I,HE,FM,	CLARK DOOR CO	405 PORTWAY DR	HOOD RIVER	OR	97031	HOOD RIVER
,K,	HOOD RIVER, CITY OF	FRONT & STATE AVENUE	HOOD RIVER	OR	97031	
,AF,FC,	HOOD RIVER CO SD	11 EUGENE ST	HOOD RIVER	OR	97031	
,FM,I,HE,	FISHER KEIR DRUG	209 OAK ST	HOOD RIVER	OR	97031	HOOD RIVER
,I,H,O,BF,AH,CG,	NICHOLS BOAT WORKS CO.	N 2ND ST EXTENDED	HOOD RIVER	OR	97031	HOOD RIVER
,I,K,	OAK STREET EQUITES	704 OAK ST	HOOD RIVER	OR	97031-1814	HOOD RIVER
,HE,I,	JC COMPTON CONSTRUCTION	489 N 8TH ST	HOOD RIVER	OR	97031	HOOD RIVER

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,HE,I,	WESTERN POWER PRODUCTS	900 PORTWAY AVE	HOOD RIVER	OR	97031	HOOD RIVER
,HE,I,	WALMART STORES INCORPORATED	2700 WASCO AVENUE	HOOD RIVER	OR	97031-1049	HOOD RIVER
,HE,I,	D & S FRAME & BODY INC	2755 W CASCADE	HOOD RIVER	OR	97031-9720	HOOD RIVER
,I,HE,	SHEPPARDS	RIVERSIDE DR. & N. 2ND ST.	HOOD RIVER	OR	97031	HOOD RIVER COUNTY
,DS,	RIVERS EDGE BP	101 2ND ST	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	LARSON JAMES G	2727 W CASCADE	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	HARVEYS TEXACO INC	3450 CASCADE AVE	HOOD RIVER	OR	97031	HOOD RIVER
,M,EC,BB,	FULL SAIL BREWING	506 COLUMBIA	HOOD RIVER	OR	97031	HOOD RIVER
,EC,BB,	HOOD RIVER CHEVRON	2555 CASCADE AVE	HOOD RIVER	OR	97031	HOOD RIVER
,DI,	MT. HOOD RAILROAD COMPANY	110 RAILROAD AVE.	HOOD RIVER	OR	97031-2336	HOOD RIVER
,K,	HEATING OIL TANK	315 OAK STREET	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	811 OAK STREET	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	905 COLUMBIA ST	HOOD RIVER	OR	97031	
,H,	WESTSIDE LAUNDROMAT (FORMER)	1911 W CASCADE AVE	HOOD RIVER	OR	97031	
,H,	HOOD RIVER GRANGE SUPPLY (FORMER)	1027 W INDUSTRIAL ST	HOOD RIVER	OR	97031	
,H,	SPAULDING CLEANERS (FORMER)	415 OAK ST.	HOOD RIVER	OR	97031	
,H,	MOBIL OIL BULK PLANT (FORMER) - HOOD RIVER	2680 DOCK RD.	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	802 OAK ST	HOOD RIVER	OR	97031	
,H,	CASCADE AVE. SERVICE STATION NORTH (FORMER)	1810 CASCADE AVE.	HOOD RIVER	OR	97031	
,EC,DI,BB,	HOOD RIVER STP	818 RIVERSIDE DR	HOOD RIVER	OR	97031-1179	HOOD RIVER
,H,	HOOD RIVER - WASTE OIL RELEASE	12TH ST.	HOOD RIVER	OR	97031	
,DI,	NICHOLS BOAT WORKS	1 NICHOLS PARKWAY	HOOD RIVER	OR	97031	HOOD RIVER
,H,	HUOTTE'S MACHINE SHOP	OAK & FRONT STS.	HOOD RIVER	OR	97031	
,DI,	WATERFRONT BUSINESS PARK & HALYARD BUILDING	N. 2ND ST. & PORTWAY AVE.	HOOD RIVER	OR		HOOD RIVER
,DI,	HOOD RIVER CROSSING	3135 CASCADE AVE.	HOOD RIVER	OR		HOOD RIVER
,L,	HOOD RIVER 1-84 ON-RAMP	EASTBOUND ON-RAMP, EXIT 64	HOOD RIVER	OR	97031	HOOD RIVER
,DA,	PORT OF HOOD RIVER	489 N. 8TH STREET	HOOD RIVER	OR		HOOD RIVER
,H,	SELF SERVE LAUNDRY	1114 JUNE ST.	HOOD RIVER	OR	97031	
,DA,	WASCO TERRACE	1530 WASCO STREET	HOOD RIVER	OR		HOOD RIVER
,EC,	COLUMBIA GORGE PRESS	419 STATE AVE	HOOD RIVER	OR	970310103	HOOD RIVER
,EC,	HOOD RIVER CITY OF	207 2ND ST	HOOD RIVER	OR	97031	HOOD RIVER
,K,	HEATING OIL TANK	728 STATE ST	HOOD RIVER	OR	97031	
,IM,	ATLANTIC-RICHFIELD BULK PLANT - HOOD RIVER	1218 W INDUSTRIAL ST	HOOD RIVER	OR		
,IM,	CASCADE AVE - FORMER SERVICE STATION	1825 CASCADE AVE	HOOD RIVER	OR		
,IM,	HOOD RIVER - WASTE OIL RELEASE	12TH ST	HOOD RIVER	OR		
,IM,	HUOTTE'S MACHINE SHOP	OAK ST & FRONT ST	HOOD RIVER	OR		
,IM,	MEYER'S CLEANERS - STATE ST	115 STATE ST	HOOD RIVER	OR		
,DZ,I,HE,	HOOD RIVER, CITY OF	818 RIVERSIDE DR	HOOD RIVER	OR	970311179	HOOD RIVER
,IM,	MURRAY WRECKING YARD - TLS 802 & 900	2625 CASCADE AVE	HOOD RIVER	OR		
,IM,	MURRAY WRECKING YARD TL 700	CASCADE AVE & RAND	HOOD RIVER	OR		
,IM,	MURRAY WRECKING YARD	2579 CASCADE AVE	HOOD RIVER	OR		
,IM,	MURRAY WRECKING YARD	2579 CASCADE ST	HOOD RIVER	OR		
,IM,	PETROLEUM - 4TH & OAK	403 OAK ST	HOOD RIVER	OR		
,IM,	SPAULDING CLEANERS (FORMER)	415 OAK ST	HOOD RIVER	OR		
,IM,	TEXACO BULK PLANT - HOOD RIVER (FORMER)	1210 W INDUSTRIAL ST	HOOD RIVER	OR		
,IL,	DUNLEAVY, JOHN	905 COLUMBIA ST	HOOD RIVER	OR		
,IL,	FRANZ HARDWARE	116 OAK ST	HOOD RIVER	OR		
,IL,	GUDOR, ROBERT	802 OAK ST	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	1722 SHERMAN AVE	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	305 OAK ST	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	321 PINE ST	HOOD RIVER	OR		

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,IL,	HEATING OIL TANK	621 STATE ST	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	817 SHERMAN AVE	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	905 COLUMBIA ST	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	925 COLUMBIA ST	HOOD RIVER	OR		
,IL,	KELTER, JIM	1215 CASCADE AVENUE	HOOD RIVER	OR		
,IL,	KIRBY, CHRIS	424 EUGENE ST	HOOD RIVER	OR		
,IL,	OAK STREET (THE STATION) GAS STOP	403 OAK	HOOD RIVER	OR		
,IL,	PARIS FAIR BUILDING	315 OAK STREET	HOOD RIVER	OR		
,IL,	RHYLICK, BRAD	1204 STATE ST	HOOD RIVER	OR		
,IL,	UNKNOWN	216 CASCADE STREET - 416 CASCADE ST	HOOD RIVER	OR		
,IL,	UNOCAL 5412	202 N 2ND	HOOD RIVER	OR		
,IL,	WALL, WYATT	921 OAK ST	HOOD RIVER	OR		
,IL,	YASUI BUILDING	109 1ST ST	HOOD RIVER	OR		
,IL,	ZWEERTS, ARNOLD	817 SHERMAN AVE	HOOD RIVER	OR		
,K,	KATY & JOHN HUBBARD	823 CASCADE AVE.	HOOD RIVER	OR	97031	
,K,	GAULKE TRUST	414 EUGENE ST	HOOD RIVER	OR	97031	
,BP,	SAFEWAY STORE NO 1123	2249 CASCADE AVE	HOOD RIVER	OR		
,DI,	SHEPPARDS	RIVERSIDE DR. & N. 2ND ST.	HOOD RIVER	OR	97031	HOOD RIVER
,K,	HEATING OIL TANK	715 STATE ST	HOOD RIVER	OR	97031	
,K,U,	MORRISON,G./CASCADE COMMONS	2335 CASCADE	HOOD RIVER	OR	97031	
,K,U,	HARVEY'S TEXACO	3450 CASCADE DR	HOOD RIVER	OR	97031	
,U,	HOOD RIVER BOTTLING	1813 CASCADE ST	HOOD RIVER	OR	97031	
,U,	I D JOHNSON & CO	1016 INDUSTRIAL ST	HOOD RIVER	OR	97031	
,U,	LESTER BROTHERS	2640 CASCADE ST	HOOD RIVER	OR	97031	
,U,	PORT OF HOOD RIVER	489 N 8TH ST	HOOD RIVER	OR	97031	
,U,	PORT OF HOOD RIVER	500 INDUSTRIAL ST	HOOD RIVER	OR	97031	
,K,U,	VILLAGE TEXACO	I84 & HWY 35	HOOD RIVER	OR	97031	
,U,	WESTERN POWER PRODUCTS INC	900 PORTWAY AVE	HOOD RIVER	OR	97031	
,U,	CARSON OIL CO INC	2555 CASCADE AVE	HOOD RIVER	OR	97031	
,U,	HOOD RIVER CHEVRON	949 E MARINA WAY	HOOD RIVER	OR	97031	
,K,U,	YASUI BUILDING	109 1ST ST	HOOD RIVER	OR	97031	
,K,U,	UNOCAL 5412	202 N 2ND	HOOD RIVER	OR	97031	
,FM,I,HE,	UNOCAL BULK PLT 0285	1200 INDUSTRIAL ST	HOOD RIVER	OR	97031	HOOD RIVER
,I,HE,FM,H,BP,O,	LJS MANUFACTURING, INC.	400 PORTWAY	HOOD RIVER	OR	97031	HOOD RIVER
,HE,I,FM,	UNOCAL SS 5412	202 N 2ND AVE	HOOD RIVER	OR	97031	HOOD RIVER
,K,	HOOD RIVER SAND GRAVEL & READY MIX INC	2630 OLD COLUMBIA DR	HOOD RIVER	OR	97031	
,I,HE,FM,	J B HUNT TRANSPORT INC	2250 CASCADE AVE	HOOD RIVER	OR	97031	HOOD RIVER
,AF,FC,	DECKER AIR AG	305 CASCADE ST	HOOD RIVER	OR	97031	
,I,FM,HE,BP,	DILL SAILBOARDS INC	1020 WASCO ST	HOOD RIVER	OR	97031	HOOD RIVER
,FM,I,HE,BP,DI,	LJS MANUFACTURING, INC.	550 RIVERSIDE DR	HOOD RIVER	OR	97031	HOOD RIVER
,I,HE,FM,	PACIFIC FRAMING SUPPLY INC	616 INDUSTRIAL STE 202	HOOD RIVER	OR	97031-6003	HOOD RIVER
,G,BP,	WALMART STORE #1876	2700 WASCO AVE	HOOD RIVER	OR	97031	HOOD RIVER
,DZ,I,HE,	HOOD RIVER CHEVRON	949 E MARINA WAY	HOOD RIVER	OR	97031	HOOD RIVER
,I,HE,DZ,	THE STATION	403 OAK ST	HOOD RIVER	OR	97031	HOOD RIVER
,I,K,	HOOD RIVER COUNTY LIBRARY	502 STATE ST	HOOD RIVER	OR	97031	HOOD RIVER
,I,H,AX,	TEXACO BULK PLANT - HOOD RIVER (FORMER)	1210 INDUSTRIAL ST	HOOD RIVER	OR	97031	HOOD RIVER
,I,H,O,	CASCADE AVE URBAN RENEWAL PROJECT	CASCADE AVE (BTWN 3RD ST & 4TH ST)	HOOD RIVER	OR	97031	HOOD RIVER
,HE,DZ,I,H,EC,BB,	CARSON OIL COMPANY - BULK FUEL PLANT FACILITY	2660 DOCK ROAD	HOOD RIVER	OR	97031	HOOD RIVER
,I,K,	AKIYAMA, SAB	1419 W SHERMAN AVE	HOOD RIVER	OR	97031	HOOD RIVER
,I,K,	KELTER, JIM	621 STATE ST	HOOD RIVER	OR	97031	HOOD RIVER
,I,H,	MURRAY WRECKING YARD	2579 CASCADE AVE	HOOD RIVER	OR	97031	HOOD RIVER
,HE,I,	MT. HOOD RAILROAD COMPANY	110 RAILROAD AVE.	HOOD RIVER	OR	97031	HOOD RIVER

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,I,K,	DOROTHEA YOUNG	13TH & WASCO STREET	HOOD RIVER	OR	97031	HOOD RIVER
,HE,I,	HOOD RIVER FORD MERCURY	4TH & CASCADE	HOOD RIVER	OR	97031	HOOD RIVER
,HE,I,DZ,	HOOD RIVER TEXACO MARINA MART	1046 E MARINA WAY	HOOD RIVER	OR	97031	HOOD RIVER
,I,HE,	HOMESHIELD	910 PORTWAY AVE	HOOD RIVER	OR	97031	HOOD RIVER
,AF,FC,	WINDERMERE GLEN TAYLOR ASSOCIATES	504 CASCADE	HOOD RIVER	OR	97031	
,CC,	HOOD RIVER SPRAY FACTORY (FORMER)	928 W INDUSTRIAL ST.	HOOD RIVER	OR		HOOD RIVER
,DS,	TERRYS UNION 76 SERVICE	202 N 2ND	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	WACH LAWRENCE S	3450 CASCADE DR	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	BUDS SHELL SERVICE	FRONT & STATE	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	DOWNTOWN SHELL & TIRE SERVICE	4TH & OAK STS	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	HOOD RIVER FAST SERV INC	202 2ND ST	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	HOOD RIVER TEXACO	1046 E MARINA WAY	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	BAUMER DONALD V	2335 CASCADE ST	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	CARSON OIL CO	2660 DOCK RD	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	HOOD RIVER TEXACO	1100 E MARINA WAY	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	PASSPORT PUB & CAFE	403 OAK ST	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	COLUMBIA ROOM INC	1108 E MARINA WAY	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	WSCO PETROLEUM CORP	214 FRONT ST	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	HOOD RIVER TRANSMISSION	2645 CASCADE AVE	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	RIVERFRONT 76	101 N 1ST ST	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	OIL CAN HENRYS	2498 CASCADE AVE	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	CARSON CHEVRON	2555 CASCADE AVE	HOOD RIVER	OR	97031	HOOD RIVER
,DS,	FAST SERV HOOD RIVER INC	949 E MARINA WAY	HOOD RIVER	OR	97031	HOOD RIVER
,H,AX,	PORT OF HOOD RIVER - UTS PORTSITE	PORTWAY AVE	HOOD RIVER	OR	97031	
,H,M,	WESTERN POWER PRODUCTS (FORMER)	900 PORTWAY AVE	HOOD RIVER	OR	97031	
,H,	JUCHO BUILDING	N 2ND ST	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	720 PROSPECT AVE	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	313 EUGENE ST	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	911 COLUMBIA ST	HOOD RIVER	OR	97031	
,H,	CASCADE AVE. SERVICE STATION (FORMER)	1825 CASCADE AVE.	HOOD RIVER	OR	97031	
,H,	ANTLER AUTO PARK SERVICE STATION	1809 CASCADE AVE	HOOD RIVER	OR	97031	
,H,	CASCADE AVE. & 18TH ST. SERVICE STATION	CASCADE AVE. & 18TH ST. (SE CORNER OF)	HOOD RIVER	OR	97031	
,H,	SMITH AUTO CAMP SERVICE STATION	1787 CASCADE AVE	HOOD RIVER	OR	97031	
,EC,DI,BB,	HOOD RIVER SAND & GRAVEL	2630 OLD COLUMBIA RIVER DR	HOOD RIVER	OR	97031	HOOD RIVER
,H,	MT. HOOD RAILROAD MAINTENANCE YARD	FRONT & E STATE STS. (NE CORNER OF)	HOOD RIVER	OR	97031	
,H,EC,O,AX,BF,BB,	CENTURYLINK - WAUCOMA CENTER	902 WASCO ST.	HOOD RIVER	OR	97031	HOOD RIVER
,EC,	HATTENHAUER DISTRIBUTING CO	101 N FIRST	HOOD RIVER	OR	97031	HOOD RIVER
,K,	HEATING OIL TANK	1504 SHERMAN AVE	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	1019 COLUMBIA STREET	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	1215 CASCADE AVENUE	HOOD RIVER	OR	97031	
,H,AO,	12TH ST. LAUNDROMAT & DRY CLEANING	1503 12TH ST.	HOOD RIVER	OR	97031	
,H,AX,	ATLANTIC-RICHFIELD BULK PLANT - HOOD RIVER	1218 W INDUSTRIAL ST	HOOD RIVER	OR	97031	
,H,AX,	UNOCAL BULK PLANT NO. 307838 (FORMER) - HOOD RIVER	1200 W INDUSTRIAL ST	HOOD RIVER	OR	97031	
,H,AX,	SHELL OIL BULK PLANT (FORMER) - HOOD RIVER	1016 W INDUSTRIAL ST	HOOD RIVER	OR	97031	
,H,AO,	MID-COLUMBIA DRY CLEANERS	1313 BELMONT DR.	HOOD RIVER	OR	97031	
,3,EC,	WAL-MART	2700 WASCO AVE	HOOD RIVER	OR	97031	HOOD RIVER
,K,	HEATING OIL TANK	1337 COLUMBIA ST	HOOD RIVER	OR	97031	
,H,	HOOD RIVER SPRAY MANUFACTURING CO. (FORMER)	HOOD RIVER (EAST BANK)	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	1204 STATE ST	HOOD RIVER	OR	97031	
,H,	12TH ST. & BELMONT RD. SERVICE STATION (FORMER)	1502 12TH ST.	HOOD RIVER	OR	97031	

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,H,	HEIGHTS SERVICE (FORMER)	1403 12TH ST.	HOOD RIVER	OR	97031	
,H,	12TH & WILSON STS. SERVICE STATION - NW (FORMER)	1316 12TH ST.	HOOD RIVER	OR	97031	
,H,	INDUSTRIAL ST. GAS STATION (FORMER)	1000 W INDUSTRIAL ST.	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	1722 SHERMAN AVE	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	915 COLUMBIA ST	HOOD RIVER	OR	97031	
,HE,I,FM,	HEELSIDE	489 N 8TH ST	HOOD RIVER	OR	97031	HOOD RIVER
,HE,I,	NORTHWEST VACU TECH INC	1237 STATE ST	HOOD RIVER	OR	97031	HOOD RIVER
,I,HE,	RITE AID 5328	2049 CASCADE AVE	HOOD RIVER	OR	97031	HOOD RIVER
,I,HE,	PORT OF HOOD RIVER STORAGE YARD	423 PORTWAY AV	HOOD RIVER	OR	97031	HOOD RIVER
,I,HE,	CLIFF SMITH MOTORS INC	3100 W CASCADE	HOOD RIVER	OR	97031	HOOD RIVER
,I,HE,	DIAMOND FRUIT GROWERS INC	4TH & COLUMBIA ST	HOOD RIVER	OR	97031	HOOD RIVER
,DZ,I,HE,	SAFEWAY STORE NO 1123	2249 CASCADE AVE	HOOD RIVER	OR	97031-1001	HOOD RIVER
,HE,I,	LOWER CLIFTON SITE	2879 CASCADE AVE.	HOOD RIVER	OR	97031	HOOD RIVER COUNTY
,DR,	HENDERSON FLOYD	902 WASCO ST STE 200	HOOD RIVER	OR	97031	HOOD RIVER
,DR,	MID COLUMBIA DRY CLEANERS	115 STATE ST	HOOD RIVER	OR	97031	HOOD RIVER
,K,	HEATING OIL TANK	1316 CASCADE AVE	HOOD RIVER	OR	97031	
,DA,	CITY OF HOOD RIVER	307 OAK ST (PO BOX 27)	HOOD RIVER	OR		HOOD RIVER
,K,	HEATING OIL TANK	522 E 3RD ST	HOOD RIVER	OR	97031	
,DI,	LOWER CLIFTON SITE	2879 CASCADE AVE.	HOOD RIVER	OR	97031	HOOD RIVER
,K,	HEATING OIL TANK	822 OAK ST	HOOD RIVER	OR	97031	
,EC,	CLOUD CAP TECHNOLOGIES	205 WASCO LOOP STE 103	HOOD RIVER	OR	97031	HOOD RIVER
,3,K,	RIVERFRONT STATION	101 N 1ST STREET	HOOD RIVER	OR	97031	
,3,H,AX,	UPTOWN TEXACO (FORMER)	1103 12TH ST.	HOOD RIVER	OR	97031	HOOD RIVER
,DI,	HOOD RIVER WATERFRONT PARK	800 PORTWAY AVE.	HOOD RIVER	OR		HOOD RIVER
,K,	HEATING OIL TANK	116 OAK ST	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	925 COLUMBIA ST	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	305 OAK ST	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	307 OAK ST	HOOD RIVER	OR	97031	
,H,	HAL'S RICHFIELD (FORMER)	12TH & MAY STS. (SW CORNER OF)	HOOD RIVER	OR	97031	
,H,AX,	COMFORT SUITES - HOOD RIVER	2625 CASCADE AVE	HOOD RIVER	OR	97031	
,H,	MURRAY WRECKING YARD TL 700	CASCADE AVE & RAND	HOOD RIVER	OR	97031	
,H,	MEYER'S CLEANERS - STATE ST.	115 STATE ST.	HOOD RIVER	OR	97031	
,H,AX,	KNOLL MOTOR CO. (FORMER)	1111 12TH ST.	HOOD RIVER	OR	97031	
,H,	CHADNEY SHELL (FORMER)	12TH ST & MAY ST (SE CORNER OF)	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	3185 CASCADE AVE	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	817 SHERMAN AVE	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	921 OAK ST	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	614 EUGENE ST	HOOD RIVER	OR	97031	
,H,	JAYMAR LUMBER MILL	JAYMAR RD.	HOOD RIVER	OR	97031	
,H,	HEIGHTS COIN-OP DRY CLEANERS (FORMER)	924 12TH ST.	HOOD RIVER	OR	97031	
,H,	CITY CLEANERS (FORMER) - HOOD RIVER	1212 C ST.	HOOD RIVER	OR	97031	
,H,	HOOD RIVER LAUNDRY (FORMER)	1231 STATE ST.	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	424 EUGENE ST	HOOD RIVER	OR	97031	
,DA,	RESIDENCE	716 MONTELLO AVENUE	HOOD RIVER	OR		HOOD RIVER
,DA,	MIKE JABLOUSCI (RESIDENCE)	515 E 4TH STREET	HOOD RIVER	OR		HOOD RIVER
,EC,	NEW CINGULAR WIRELESS PCS LLC	601 STATE ST	HOOD RIVER	OR	97031	HOOD RIVER
,EC,	CM & WO SHEPPARD INC	440 RIVERSIDE DR	HOOD RIVER	OR	97031	HOOD RIVER
,3,EC,	HOOD RIVER DISTILLERS INC	660 RIVERSIDE DR	HOOD RIVER	OR	97031	HOOD RIVER
,EC,	LES SCHWAB TIRE CENTER	3140 W CASCADE	HOOD RIVER	OR	970319780	HOOD RIVER
,EC,BB,	OIL CAN HENRYS	2498 W CASCADE AVE	HOOD RIVER	OR	97031	HOOD RIVER
,H,	DOCK ROAD BULK PLANT (FORMER)	DOCK RD.	HOOD RIVER	OR	97031	
,H,AX,	HOOD RIVER I-84 ON-RAMP	EASTBOUND ONRAMP, EXIT 64, I-84	HOOD RIVER	OR	97031	

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,K,	HEATING OIL TANK	321 PINE ST	HOOD RIVER	OR	97031	
,DI,	COUNTRY CLUB ROAD RE-ALIGNMENT	CASCADE AVE. AND MT. ADAMS AVE.	HOOD RIVER	OR		HOOD RIVER
,K,	HEATING OIL TANK	115 OAK ST	HOOD RIVER	OR	97031	
,IM,	ANTLER AUTO PARK SERVICE STATION	1809 CASCADE AVE	HOOD RIVER	OR		
,IM,	ATLANTIC-RICHFIELD BULK PLANT - HOOD RIVER	1218 INDUSTRIAL ST	HOOD RIVER	OR		
,IM,	CARSON OIL - HOOD RIVER	2660 DOCK RD	HOOD RIVER	OR		
,IM,	CARSON OIL BULK PLANT - HOOD RIVER	2660 DOCK RD	HOOD RIVER	OR		
,IM,	CASCADE AVE FORMER SERVICE STATION NORTH	1810 CASCADE AVE	HOOD RIVER	OR		
,IM,	CASCADE AVE FORMER SERVICE STATION	1825 CASCADE AVE	HOOD RIVER	OR		
,IM,	CASCADE AVE. SERVICE STATION (FORMER)	1825 CASCADE AVE.	HOOD RIVER	OR		
,IM,	CASCADE AVE. SERVICE STATION NORTH (FORMER)	1810 CASCADE AVE.	HOOD RIVER	OR		
,IM,	HOOD RIVER LAUNDRY (FORMER)	1231 STATE ST	HOOD RIVER	OR		
,IM,	HOOD RIVER SPRAY FACTORY (FORMER)	902 WASCO ST	HOOD RIVER	OR		
,IM,	HUOTTE'S MACHINE SHOP	OAK & FRONT STS.	HOOD RIVER	OR		
,IM,	LUHR JENSEN & SONS - PORTWAY AVE.	400 PORTWAY AVE.	HOOD RIVER	OR		
,IM,	LUHR JENSEN & SONS - PORTWAY AVE	400 PORTWAY AVE	HOOD RIVER	OR		
,IM,	MOBIL OIL BULK PLANT (FORMER) - HOOD RIVER	2680 DOCK RD	HOOD RIVER	OR		
,IM,	PETROLEUM - 4TH & OAK	4TH ST & OAK AVE	HOOD RIVER	OR		
,IM,	SMITH AUTO CAMP SERVICE STATION	1787 CASCADE AVE	HOOD RIVER	OR		
,IM,	SMITH OIL BULK PLANT (FORMER) - HOOD RIVER	2680 DOCK RD	HOOD RIVER	OR		
,IM,	TEXACO BULK PLANT (FORMER) - HOOD RIVER	1210 W INDUSTRIAL ST	HOOD RIVER	OR		
,IM,	TEXACO BULK PLANT - HOOD RIVER (FORMER)	1210 INDUSTRIAL ST	HOOD RIVER	OR		
,IM,	TEXACO BULK PLANT NO. 308080 (FORMER) - HOOD RIVER	1210 W INDUSTRIAL ST	HOOD RIVER	OR		
,IM,	UNOCAL BULK PLANT (FORMER) - HOOD RIVER	1200 W INDUSTRIAL ST	HOOD RIVER	OR		
,IM,	UNOCAL BULK PLANT NO. 307838 (FORMER) - HOOD RIVER	1200 W INDUSTRIAL ST	HOOD RIVER	OR		
,IM,	WESTERN POWER PRODUCTS (FORMER)	900 PORTWAY AVE	HOOD RIVER	OR		
,IM,	WESTSIDE LAUNDROMAT (FORMER)	1911 W CASCADE AVE	HOOD RIVER	OR		
,IL,	AKIYAMA, SAB	1419 W SHERMAN AVE	HOOD RIVER	OR		
,IL,	BAUTCH, JIMMY	911 COLUMBIA ST	HOOD RIVER	OR		
,IL,	BMP, LLC PROPERTY	109 1ST STREET	HOOD RIVER	OR		
,IL,	BRYANT, BOB	313 EUGENE ST	HOOD RIVER	OR		
,IL,	CLIFF SMITH MOTORS	3100 W CASCADE	HOOD RIVER	OR		
,IL,	CORCORAN, SEAN	1337 COLUMBIA ST	HOOD RIVER	OR		
,IL,	DOROTHEA YOUNG	13TH & WASCO STREET	HOOD RIVER	OR		
,IL,	FORMER TIME OIL STATION	1534 CASCADE AVENUE	HOOD RIVER	OR		
,IL,	GAYLORD, JANICE	915 COLUMBIA ST	HOOD RIVER	OR		
,IL,	GRACE RESIDENCE	720 PROSPECT AVE	HOOD RIVER	OR		
,IL,	HARVEY'S TEXACO	3450 CASCADE DR	HOOD RIVER	OR		
,IL,	HAVE FAST MART	403 OAK	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	1019 COLUMBIA STREET	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	116 OAK ST	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	1204 STATE ST	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	1215 CASCADE AVENUE	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	1337 COLUMBIA ST	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	1419 W SHERMAN AVE	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	1504 SHERMAN AVE	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	307 OAK ST	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	313 EUGENE ST	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	315 OAK STREET	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	3185 CASCADE AVE	HOOD RIVER	OR		

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,IL,	HEATING OIL TANK	424 EUGENE ST	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	502 STATE ST	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	614 EUGENE ST	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	704 OAK STREET	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	720 PROSPECT AVE	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	802 OAK ST	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	811 OAK STREET	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	911 COLUMBIA ST	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	915 COLUMBIA ST	HOOD RIVER	OR		
,IL,	HEATING OIL TANK	921 OAK ST	HOOD RIVER	OR		
,IL,	HIDELY, GARY	614 EUGENE ST	HOOD RIVER	OR		
,IL,	HOOD RIVER COUNTY LIBRARY	502 STATE ST	HOOD RIVER	OR		
,IL,	HOOD RIVER COUNTY P W	3185 CASCADE AVE	HOOD RIVER	OR		
,IL,	HOOD RIVER, CITY OF	FRONT & STATE AVENUE	HOOD RIVER	OR		
,IL,	KELTER, JIM	621 STATE ST	HOOD RIVER	OR		
,IL,	KENT, JACK	811 OAK STREET	HOOD RIVER	OR		
,IL,	KEVIN TANK	1019 COLUMBIA STREET	HOOD RIVER	OR		
,IL,	KOESTER, JANELLE	925 COLUMBIA ST	HOOD RIVER	OR		
,IL,	MCREYNOLDS, ED	1722 SHERMAN AVE	HOOD RIVER	OR		
,IL,	MORRISON,G./CASCADE COMMONS	2335 CASCADE	HOOD RIVER	OR		
,IL,	NO NAME (TIME OIL) '75	1534 CASCADE AVENUE	HOOD RIVER	OR		
,IL,	OAK STREET EQUITES	704 OAK STREET	HOOD RIVER	OR		
,IL,	OAK STREET EQUITES	704 OAK STREET	HOOD RIVER	OR		
,IL,	SMITH, DICK	307 OAK ST	HOOD RIVER	OR		
,IL,	TWIGS	305 OAK ST	HOOD RIVER	OR		
,IL,	UNKNOWN	216 CASCADE STREET - 416 CASCADE STREET	HOOD RIVER	OR		
,IL,	UNKNOWN	216 CASCADE STREET - 416 CASCADE	HOOD RIVER	OR		
,IL,	WALDEN, MYLENE	1504 SHERMAN AVE	HOOD RIVER	OR		
,IL,	WALDEN, SENATOR	1504 SHERMAN AVE	HOOD RIVER	OR		
,K,	HEATING OIL TANK	1714 SHERMAN AVE	HOOD RIVER	OR	97031	
,3,EC,	PFRUEN FAMILY BREWERS	707 PORTWAY AVE STE 100	HOOD RIVER	OR	97031	HOOD RIVER
,DA,	NICHOLS LANDING HOTEL (TAX LOT 03N10E25DB100)	E HOOD RIVER FRONTAGE ROAD	HOOD RIVER	OR		HOOD RIVER
,DA,	NICHOLS LANDING COMMERCIAL BUILDING (TAX LOT 03N10E25DB200)	E HOOD RIVER FRONTAGE ROAD	HOOD RIVER	OR		HOOD RIVER
,K,	HEATING OIL TANK	910 OAK ST	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	318 9TH ST	HOOD RIVER	OR	97031	
,K,	HEATING OIL TANK	1605 SHERMAN AVE	HOOD RIVER	OR	97031	
,U,	APPLE CITY DISTRIBUTORS	2645 CASCADE AVE	HOOD RIVER	OR	97031	
,U,	ASTRO #266	214 FRONT ST	HOOD RIVER	OR	97031	
,U,	CITY OF HOOD RIVER	620 COLUMBIA ST	HOOD RIVER	OR	97031	
,K,U,	FORMER TIME OIL STATION	1534 CASCADE AVENUE	HOOD RIVER	OR	97031	
,U,	HOOD RIVER SAND GRAVEL & READY MIX INC	2630 OLD COLUMBIA RIVER DR	HOOD RIVER	OR	97031	
,U,	COFFEE SPOT	12 OAK STREET	HOOD RIVER	OR	97031	
,H,K,U,	PETROLEUM - 4TH & OAK	403 OAK ST	HOOD RIVER	OR	97031	
,U,	DM STEVENSON RANCH/SHELL	1046 E MARINA WAY	HOOD RIVER	OR	97031	
,K,U,	AERO SPRAY	PORT MARINA PARK	HOOD RIVER	OR	97031	
,U,	LUHR JENSEN & SONS INC	400 PORTWAY AVE	HOOD RIVER	OR	97031	
,U,	MT. HOOD RAILROAD CO.	110 RAILROAD AVE.	HOOD RIVER	OR	97031	
,U,	MURRAY AUTO PARTS TOWING & WRECKING	2579 CASCADE AVE	HOOD RIVER	OR	97031	
,U,	RIVERFRONT STATION	101 N 1ST STREET	HOOD RIVER	OR	97031	
,I,BO,DI,	HOME VALLEY S&G WILSON BARNES PIT	ERICKSON RD	STEVENSON	WA	98648	SKAMANIA

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,BO,	SKAMANIA CNTY HOME VALLEY PIT	MP 22 L WIND MTN RD	CARSON	WA	98648	
,I,H,BO,SS,	WA DOT FRONTAGE ROAD RIGHT OF WAY	N OF SR 14 MP 50 & MP 50.36	STEVENSON	WA	98648	SKAMANIA
,HH,	S D S LUMBER COMPANY			WA		KLICKITAT
,BO,U,	TWIN FIRS	3.75 L COOK UNDERWOOD RD	COOK	WA	98605	
,BO,U,	ZONE 11 ENGINEER	T4N R9E S35 SE1/4	COOK	WA	98651	
,BO,U,	NIELSENS EVERGREEN GROCERY	RURAL STATION	COOK	WA	98605	
,BO,	HIGH CASCADE VENEER INC HOME VALLEY	32 HOME VALLEY CUT OFF RD	HOME VALLEY	WA	98648-6532	
,BO,	HOWARDS WRECKING YARD	KELCHNER RD	UNDERWOOD	WA	98651	
,HE,I,	HENDERSON LOT	152 COUNTRY CLUB RD.	HOOD RIVER	OR	97031	HOOD RIVER COUNTY
,U,	KIYOKAWA, YOSH	4140 WESTCLIFF DR	HOOD RIVER	OR	97031	
,FM,HE,I,	RIVER'S EDGE TOWING	125 COUNTRY CLUB RD	HOOD RIVER	OR	97031	HOOD RIVER
,DI,	HENDERSON LOT	152 COUNTRY CLUB RD.	HOOD RIVER	OR	97031	HOOD RIVER
,IN,	STATE BIOSOLIDS LLC	486 HIGHWAY 8	LYLE	WA		
,BO,	WA DOT SR 14 DOG CREEK CULVERT			WA		
,IL,	HOME VALLEY GROCERY 110	50151 SR 14	STEVENSON	WA		
,FM,BP,	HOME VALLEY GROCERY	50151 SR 14	STEVENSON	WA	98648	SKAMANIA
,IL,	TIME OIL #01-110	50151 SR 14	STEVENSON	WA		
,DA,	TIMER OIL FACILTIY, FORMER, 01-110	50150 STATE ROUTE 14 SR 14	STEVENSON	WA	98648	SKAMANIA
,AM,BO,AX,U,	TIME OIL 01-110	50151 SR 14	STEVENSON	WA	98648	SKAMANIA
,AM,BO,	CLARK PROPERTY	7401 ST HWY 14	LYLE	WA	98635	KLICKITAT
,AM,BO,	BNSF RR SR 14 @ MP 54.5	MP 54.5 SR 14	STEVENSON	WA		SKAMANIA
,B,	FRANKTON SCHOOL	455 FRANKTON ROAD	HOOD RIVER	OR	97031-9704	
,BO,	SDS LUMBER CO BARNEDT PIT	.5 MILES E OF BINGEN ON HWY 141	BINGEN	WA	98605-0266	
,DI,	SDS LUMBER CO BARNEDT PIT	.5 MILES E OF BINGEN ON HWY 141	BINGEN	WA	98605-0266	KLICKITAT
,DS,	OGAWA INC	534 HIGHLINE RD	HOOD RIVER	OR	97031	HOOD RIVER
,DA,	OP&R - MOSIER TWIN TUNNELS STATE PARK	I-84, EXIT 65		OR		HOOD RIVER
,I,H,AX,	HOOD RIVER POLE BARN SITE	MAY ST & 17TH	HOOD RIVER	OR	97031	HOOD RIVER
,DI,	OPRD - MARK O. HATFIELD WEST TRAILHEAD	HISTORIC COLUMBIA RIVER HWY MP 68.2	HOOD RIVER	OR	97207-0500	HOOD RIVER
,DA,	OPRD- MARK HATFIELD TRAIL HEAD	HISTORIC COLUMBIA RIVER HWY MP68.2	HOOD RIVER	OR		HOOD RIVER
,DA,	OP&R - KOBERG STATE PARK	I-84, 3 MI E. OF HOOD RIVER, WESTBOUND ONLY	HOOD RIVER	OR		HOOD RIVER
,H,O,	LUHR JENSEN & SONS - MAY ST.	2508 MAY ST.	HOOD RIVER	OR	97031	
,HH,	HOWELL TRUCK SERVICE			WA		SKAMANIA
,HH,	HOWELL TRUCK SERVICE			WA		SKAMANIA
,H,	MITCHELL POINT TEXACO (FORMER)	OLD HWY. 30		OR		
,HH,	WILKINS & LUNDY			WA		SKAMANIA
,BO,	LITTLE WHITE SALMON NFH	56961 STATE ROAD 14	BINGEN	WA	98605	
,DZ,HE,I,	US FISH AND WILDLIFE SERVICE - LITTLE WHITE SALMON NATIONAL	56961 SR-14	COOK	WA	98605	SKAMANIA
,EC,BB,	TUM A LUM LUMBER CO	408 HWY 35	HOOD RIVER	OR	97031	HOOD RIVER
,K,	HEATING OIL TANK	678 HIGHLINE RD	HOOD RIVER	OR	97031	
,I,HE,	NORTHWEST PIPELINE GP STEVENSON 2 M/S	58 KANAKA CREEK RD	STEVENSON	WA	98648	SKAMANIA
,HE,I,	STEVENSON CARSON SCHOOL BUS GARAGE	350 BULLDOG DR	STEVENSON	WA	98648	SKAMANIA
,IM,	NORTHWEST PIPELINE GP STEVENSON 2 M/S	58 KANAKA CREEK RD	STEVENSON	WA		
,AM,BP,BO,AX,	NORTHWEST PIPELINE GP STEVENSON 2 M/S	58 KANAKA CREEK RD	STEVENSON	WA	98648	
,I,HE,	STEVENSON CARSON SCHOOL DIST STEVENSON	MP .51R GROPPER RD	STEVENSON	WA	98648	SKAMANIA
,M,BO,DI,	STEVENSON CARSON SCHOOL BUS GARAGE	350 BULLDOG DR	STEVENSON	WA	98648	
,IM,	STEVENSON 2 METER STATION NW PIPELINE	58 KANAKA CREEK RD	STEVENSON	WA		
,DA,	FIRST BAPTIST CHURCH	252 ROOSEVELT ST	STEVENSON	WA	98648	SKAMANIA
,BO,	SKAMANIA COVE RESORT	45932 STATE HWY 14	STEVENSON	WA	98648	
,HH,	J ARLIE BRYANT INC			OR		HOOD RIVER
,BO,	WA DOT SR 14 1.5 MI E OF BERGEN RD	SR14 E DOG MTN TRAIL MP 53.80-54.1	STEVENSON	WA	98648	
,DI,	KOBERG BEACH STATE RECREATION SITE	HWY I-84 3 MILES EAST OF HOOD RIVER	HOOD RIVIER	OR	97031	HOOD RIVER

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,I,HE,FM,BO,	DANS AUTO BODY INC	333 HWY 14	STEVENSON	WA	98648	SKAMANIA
,FM,I,HE,BO,	BEVANS DRUMS	240 SW CASCADE	STEVENSON	WA	98648	SKAMANIA
,I,FM,HE,BO,	WILLAMETTE INDUSTRIES INC STEVENSON	20 CASCADE AVE	STEVENSON	WA	98648	SKAMANIA
,FM,BO,	CHEVRON USA INC STEVENSON BULK	CASCADE AVE	STEVENSON	WA	98648	SKAMANIA
,FM,HE,I,BO,	DYNAFIBER INC	28 SE CASCADE	STEVENSON	WA	98648	SKAMANIA
,AF,FC,	THERMAL LAMINATES CORP	26 SE CASCADE AVE	STEVENSON	WA	98648	
,I,BO,U,	JDAR CORPORATION	2ND ST EXT	STEVENSON	WA	98648-9704	SKAMANIA
,I,HE,BO,DI,	STEVENSON STP	686 SW ROCK CRK DR	STEVENSON	WA	98648	SKAMANIA
,I,HE,	CHEVRON USA INC STEVENSON BULK	CASCADE AVE	STEVENSON	WA	98648	SKAMANIA
,BT,	HEGEWALD TIMBER SITE (FORMER)--SKAMANIA COUNTY	880 SW ROCK CREEK ROAD	STEVENSON	WA	98684	
,DS,	HUNSAKER OIL CO INC	91 NW SECOND ST	STEVENSON	WA	98648	SKAMANIA
,DS,	HATS FUEL 2	326 HGWY 14	STEVENSON	WA	98648	SKAMANIA
,DS,	J D AR LIMITED	330 ROCK CREEK DR	STEVENSON	WA	98648	SKAMANIA
,DS,	J D AR LIMITED	2ND ST & ROCK CREEK RD	STEVENSON	WA	98648	SKAMANIA
,CT,	HUNSAKER OIL	91 NW SECOND ST.	STEVENSON	WA	98648	SKAMANIA
,AM,BO,	STEVENSON COMMERCE SITE	167 NW 2ND ST	STEVENSON	WA	98648	SKAMANIA
,BO,DI,	CHINIDERE MOUNTAIN ESTATES	LUTHERAN CHURCH RD N OF HWY 14	STEVENSON	WA	98648	
,BO,	ROCK CREEK COMMUNITY CENTER	710 SW ROCK CREEK DR	STEVENSON	WA	98648	
,I,BO,	ROCK CREEK SEDIMENT REMOVAL	600 SW ROCK CREEK DRIVE	STEVENSON	WA	98648	SKAMANIA
,IM,	STEVENSON TEXACO	326 HWY 14	STEVENSON	WA		
,IL,	SKAMANIA ROAD DISTRICT 2	575 ROCK CREEK DR	STEVENSON	WA		
,DA,	ROCK CREEK COMM CENTER			WA		SKAMANIA
,DA,	ROCK CREEK COMM CENTER			WA		SKAMANIA
,BO,U,	UNITED TELEPHONE CO	1ST ST	STEVENSON	WA	98648-9756	
,HE,I,FM,	NORTHWEST PIPELINE GP STEVENSON 1 M/S	78 RYAN ALLEN RD	STEVENSON	WA	98648	SKAMANIA
,FM,H,BO,SS,	UNOCAL BULK PLANT 0761	LEAVENS ST & CASCADE AV	STEVENSON	WA	98648	SKAMANIA
,FM,HE,I,BP,M,BO,	MOLDED FIBER GLASS CO NW	30 SE CASCADE AVE	STEVENSON	WA	98648	SKAMANIA
,FM,BO,	SKAMANIA CNTY SHERIFF OFFICE	200 VANCOUVER AVE	STEVENSON	WA	98648	SKAMANIA
,I,BO,	SPRINT COMMUNICATIONS CO STEVENSON	170 SW 1ST ST	STEVENSON	WA	98648	SKAMANIA
,I,H,K,BO,	HUNSAKER OIL STEVENSON STATION	2ND & COLUMBIA	STEVENSON	WA	98648	SKAMANIA
,I,BO,	CASCADE AVENUE BOAT LAUNCH	CASCADE AVE	STEVENSON	WA	98648	SKAMANIA
,AF,FC,	WIND RIVER NURSERY - SKAMANIA COUNTY	240 VANCOUVER AVE #35 PO BOX 790	STEVENSON	WA	98648	
,AF,FC,	WINDERMERE GLENN TAYLOR & ASSOC	220 SW 2ND ST	STEVENSON	WA	98648	
,DS,	J D AR LIMITED	333 ROCK CREEK DR	STEVENSON	WA	98648	SKAMANIA
,DS,	JOES TEXACO STATION	326 S W 2ND AVENUE	STEVENSON	WA	98648	SKAMANIA
,AM,BP,BO,AX,	NORTHWEST PIPELINE GP STEVENSON 1 M/S	78 RYAN ALLEN RD	STEVENSON	WA	98648	
,CT,	SKAMANIA ROAD DISTRICT #2	575 ROCK CREEK DR.	STEVENSON	WA	98648	SKAMANIA
,CT,	FOSTER/MIDSTATE LAND COMPANY	2ND & COLUMBIA ST.	STEVENSON	WA	98648	SKAMANIA
,I,HE,	CHINIDERE MOUNTAIN ESTATES	LUTHERAN CHURCH RD NORTH OF HW	STEVENSON	WA	98648	SKAMANIA
,HE,I,	SKAMANIA CNTY SHERIFF OFFICE	200 VANCOUVER AVENUE	STEVENSON	WA	98648	SKAMANIA
,HE,I,	SKAMANIA COUNTY ROAD DEPARTMENT	575 SW ROCK CREEK DRIVE	STEVENSON	WA	98648	SKAMANIA
,I,HE,	UNOCAL BULK PLANT 0761	LEAVENS ST & CASCADE AV	STEVENSON	WA	98648	SKAMANIA
,HE,	CASCADE AVE IMPROVEMENTS	RUSSELL AVE & CASCADE AVE	STEVENSON	WA	98648	SKAMANIA
,BO,	SKUNK BROTHERS SPIRITS INC.	40 SW CASCADE AVE	STEVENSON	WA	98648	
,AT,	LIGHTRECYCLE WASHINGTON ORGANIZATION	24 NE 2ND ST	STEVENSON	WA	98648	
,BO,	CASCADE AVE IMPROVEMENTS	RUSSELL AVE & CASCADE AVE	STEVENSON	WA	98648	
,BO,	CHINIDERE MOUNTAIN ESTATES REGAL	LUTHERAN CHURCH RD N OF HWY 14	STEVENSON	WA	98648	
,L,	STEVENSON WWTP	686 SW ROCK CREEK DR	STEVENSON	WA	98648	SKAMANIA
,IM,	MIDSTATE LAND CO	70 NE 2ND ST	STEVENSON	WA		
,IM,	NORTHWEST PIPELINE CORP STEVENSON 1 MS	78 RYAN ALLEN RD	STEVENSON	WA		
,IM,	NORTHWEST PIPELINE GP STEVENSON 1 M/S	78 RYAN ALLEN RD	STEVENSON	WA		
,IM,	UNOCAL BULK PLANT 0761	LEAVENS ST & CASCADE AV	STEVENSON	WA		

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,IN,	STEVENSON WWTP	686 SW ROCK CREEK DR	STEVENSON	WA		
,IL,	SKAMANIA ROAD DISTRICT 2	575 ROCK CREEK DRIVE	STEVENSON	WA		
,IL,	SKAMANIA ROAD	575 ROCK CREEK	STEVENSON	WA		
,IL,	WILLIAM WILSON	70 NW SECOND ST	STEVENSON	WA		
,DA,	ROCK CREEK COMM CENTER			WA		SKAMANIA
,DA,	ROCK CREEK COMM CENTER			WA		SKAMANIA
,BO,U,	PIERCE NATIONAL WILDLIFE REFUGE	MP 36 06R STATE HWY 14	STEVENSON	WA	98648	
,AM,BO,U,	SKAMANIA ROAD DISTRICT 2	575 ROCK CREEK DR	STEVENSON	WA	98648	
,BO,U,	SKAMANIA COUNTY PORT	CASCADE AVE & LEAVENS ST	STEVENSON	WA	98648-0413	
,AM,BO,BF,U,	MIDSTATE LAND CO	70 NE 2ND ST	STEVENSON	WA	98648	
,BO,U,	DELMAR INC 609	30 NE 2ND ST	STEVENSON	WA	98648	
,U,	HUNSAKER OIL - STEVENSON STATION	2ND & COLUMBIA	STEVENSON	WA	98648	SKAMANIA
,BO,U,	HOME VALLEY VENEER PLANT	SR 14 HOME VALLEY MP 50R	STEVENSON	WA	98648	
,I,BO,	HUNSAKER OIL COMPANY INC UST 8853	6TH ST & HWY 14	LYLE	WA	98672	KLICKITAT
,I,BO,U,	UST 8160	501 STATE ST	LYLE	WA	98635	KLICKITAT
,AF,FC,	LYLE SD 406	7TH & KEASEY STS	LYLE	WA	98635	
,DS,	HAMMS CHEVRON SERVICE	5TH & STATE STS	LYLE	WA	98635	KLICKITAT
,DY,BO,U,	MURDOCK MINI MART	8196 HWY 14	LYLE	WA	98635	
,U,	CURL PROPERTY	608 HWY 14	LYLE	WA	98635	KLICKITAT
,I,BO,	SPRINT COMMUNICATIONS CO LYLE	511 STATE ST	LYLE	WA	98635	KLICKITAT
,I,AM,BO,U,	LYLE SCHOOL DIST BUS GARAGE	HWY 14 & 5TH ST	LYLE	WA	98863	KLICKITAT
,I,BO,	AT&T WIRELESS LYLE	7TH & KEASEY	LYLE	WA	98635	KLICKITAT
,DS,	R&K AUTOMOTIVE	519 STATE ST	LYLE	WA	98635	KLICKITAT
,DS,	GORGE MOBIL MEDICAL SERVICES	25 BRYAN WAY	LYLE	WA	98635	KLICKITAT
,DS,	KANGAS GERRY ARCO	6TH & STATE	LYLE	WA	98635	KLICKITAT
,AM,BO,	CURL PROPERTY	608 HWY 14	LYLE	WA	98635	
,BO,	LYLE TRAILHEAD	SR 142 & SR 14	LYLE	WA	98635	
,BO,	CENTERVILLE HWY LYLE PATH PH 2	CENTERVILLE HWY	LYLE	WA	98635	
,IM,	LYLE SCHOOL DIST BUS GARAGE	HWY 14 & 5TH ST	LYLE	WA		
,BO,	SIXTH STREET SIDEWALKS	SIXTH ST FROM SR14 TO LYLE AVE	LYLE	WA	98635	
,DA,				WA		KLICKITAT
,U,	HUNSAKER OIL COMPANY INC	6TH ST & HWY 14	LYLE	WA	98672	KLICKITAT
,DA,	OP&R - MEMALOOSE STATE PARK	I-84, EXIT 76 EASTBOUND, 11MI W. OF THE DALLES	THE DALLES	OR		WASCO
,DA,	OP&R - VIENTO STATE PARK	I-84, 8MI W. OF HOOD RIVER.	HOOD RIVER	OR		HOOD RIVER
,H,HT,	HEIGHTS LAUNDROMAT (THE)	1771 12TH DR.	HOOD RIVER	OR	97031	
,HE,I,	STEVENSON WTP	97 NW RUELLEN	STEVENSON	WA	98648	SKAMANIA
,BO,DI,	STEVENSON WTP	97 NW RUELLEN	STEVENSON	WA	98648	SKAMANIA
,H,O,AX,BF,CG,	WYETH TIE-TREATING PLANT (FORMER)	I-84 MILEPOST 51 (VICINITY OF)	WYETH	OR		HOOD RIVER
,I,AM,BO,U,	KLICKITAT COUNTY SHOP OF LYLE	20300 STATE ST	LYLE	WA	98635	KLICKITAT
,CT,	KLICKITAT COUNTY PUBLIC WORKS	20300 STATE ST.	LYLE	WA	98635	KLICKITAT
,I,BO,	WA DOT STEVENSON	10001 SW HWY 14	STEVENSON	WA	98648	SKAMANIA
,I,BO,	AT&T SKAMANIA WAK039 SKMAWAQ3390	SKAMANIA TD2	SKAMANIA	WA	98648	SKAMANIA
,H,	UNDERWOOD TANKER ROLLOVER - LINDSEY POND	OLD COLUMBIA RIVER HWY NEAR LINDSEY CREEK		OR		
,DA,	OP&R - STARVATION CREEK STATE PARK	I-84, 10MI W. OF HOOD RIVER, EAST BOUND ACCESS ONLY	HOOD RIVER	OR		HOOD RIVER
,B,	MOSIER COMMUNITY SCHOOL	1204 FIRST AVE	MOSIER	OR	97040	
,BT,	MOSIER GAS STATION	1202 1ST AVE	MOSIER	OR	97040	
,DA,EC,	NORTH WASCO CO SCHOOL DIST 21	1204 1ST AVE	MOSIER	OR	97040	WASCO
,DY,L,	MOSIER TIRE/SOIL BERM	PO BOX 456	MOSIER	OR	97040	WASCO
,H,	DERRY PROPERTY - HEATING OIL AST	1206 3RD AVE	MOSIER	OR	97040	
,IM,	MOSIER GAS STATION (FORMER)	1202 1ST AVE	MOSIER	OR		

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,IM,	MOSIER MOTEL (FORMER)	206 CENTER ST	MOSIER	OR		
,H,K,AH,U,	H & H AUTO SERVICE	1202 1ST AVE	MOSIER	OR	97040	
,U,	RAPID WELDING & FABRICATION	1100 1ST AVE	MOSIER	OR	97040	
,HE,I,	MOSIER CITY WELLS	MOSIER CREEK RD	MOSIER	OR	97040	WASCO
,DS,	WARDS TEXACO	204 RIVERSIDE	MOSIER	OR	97040	WASCO
,DI,	MOSIER STP	1505 ROCK CREEK RD.	MOSIER	OR	97040	WASCO
,BT,	MOSIER MOTEL FORMER	206 CENTER ST	MOSIER	OR	97040	
,BT,I,	MOSIER BIKE HUB	NW CORNER OF OREGON ST. & 2ND AVE.	MOSIER	OR	97040	WASCO
,HE,I,	TANAWASHEE SUBDIVISION	4TH AND CENTER	MOSIER	OR	97040	WASCO COUNTY
,H,	MOSIER UPRR DERAILMENT	NEAR ROCK CREEK RD.	MOSIER	OR	97040	
,K,	HEATING OIL TANK	300 CENTER ST	MOSIER	OR	97040	
,H,AX,	MOSIER WWTP - EXPANSION PROJECT	HWY 30 (NORTH OF) & UPRR TRACKS (SOUTH OF)	MOSIER	OR	97040	
,H,	HWY 30 & ROCK CREEK PETROLEUM CONTAMINATION	HWY 30 & ROCK CREEK (SE CORNER OF)	MOSIER	OR	97040	
,DA,	MOSIER COMMUNITY SCHOOL	1204 FIRST AVENUE	MOSIER	OR		WASCO
,H,AH,	MOSIER MOTEL (FORMER)	206 CENTER ST	MOSIER	OR	97040	
,EC,	CENTURYLINK	1102 1ST AVE	MOSIER	OR	97040	WASCO
,H,AH,	GAS STATION (FORMER)	BOUNDED BY OREGON ST., 2ND AVE., AND OLD US HWY. 30	MOSIER	OR	97040	
,IL,	H & H AUTO SERVICE	1202 1ST AVE	MOSIER	OR		
,IL,	MOSIER GAS	1202 1ST AVE	MOSIER	OR		
,DI,	TANAWASHEE SUBDIVISION	4TH AND CENTER	MOSIER	OR	97040	WASCO
,I,HE,	CASCADE LOCKS STP	105 NE HERMAN CREEK LN	CASCADE LOCKS	OR	97014	HOOD RIVER
,HH,	HOOD RIVER SAND & GRAVEL			OR		HOOD RIVER
,I,HE,	OREGON DEPARTMENT OF FISH& WILDLIFE	1200 SE FRONTAGE RD.	CASCADE LOCKS	OR	97014	HOOD RIVER
,EC,	BPA TFVG CNTR	1420 SE FRONTAGE RD	CASCADE LOCKS	OR	97014	HOOD RIVER
,IM,	CASCADE LOCKS LUMBER CO.	2N/8E/S12	CASCADE LOCKS	OR		
,DA,	WINDSONG TERRACE	WINDSONG DR	CASCADE LOCKS	OR		HOOD RIVER
,I,H,O,AX,AH,	CASCADE LOCKS BULK PLANT (FORMER)	2N/8E/S12BA	CASCADE LOCKS	OR	97014	HOOD RIVER
,M,DI,	CASCADE LOCKS STP	105 HERMAN CREEK LANE	CASCADE LOCKS	OR	97014	HOOD RIVER
,H,EC,DI,BB,	ODFW - HERMAN CREEK REARING PONDS	1200 SE FRONTAGE RD	CASCADE LOCKS	OR	97014	HOOD RIVER
,H,	GREENHILL LUMBER CO.	INDUSTRIAL PARK	CASCADE LOCKS	OR	97014	
,H,	BEAR MOUNTAIN LUMBER	1415 FOREST LN	CASCADE LOCKS	OR	97014	
,H,AX,	CASCADE WOOD COMPONENTS	15 HERMAN CREEK RD.	CASCADE LOCKS	OR	97014	
,HE,I,ZM,	BEAR MOUNTAIN FOREST PRODUCTS, INC.	1415 NW FOREST LANE	CASCADE LOCKS	OR	97014	HOOD RIVER
,I,HE,	ODFW - HERMAN CREEK REARING PONDS	1200 SE FRONTAGE RD	CASCADE LOCKS	OR	97014	HOOD RIVER COUNTY
,HE,I,	ODFW - OXBOW HATCHERY	1200 SE FRONTAGE RD	CASCADE LOCKS	OR	97014	HOOD RIVER COUNTY
,H,	CHINOOK SAILING PRODUCTS	190 NE HERMAN CREEK LANE	CASCADE LOCKS	OR	97014	
,H,AX,	CASCADE LOCKS WASTEWATER & STORAGE FACILITY	90 HERMAN CREEK LANE	CASCADE LOCKS	OR	97014	
,H,AX,AH,	PORT OF CASCADE LOCKS BUSINESS PARK	INDUSTRIAL PARK WAY & CRAMBLETT WAY	CASCADE LOCKS	OR	97014	HOOD RIVER
,M,DI,	BEAR MOUNTAIN FOREST PRODUCTS	5 NE INDUSTRIAL PARK RD.	CASCADE LOCKS	OR	97014	HOOD RIVER
,DI,	CASCADE LOCKS LUMBER CO		CASCADE LOCKS	OR		HOOD RIVER
,H,	PYRAMID METALS (FORMER)	1400 FOREST LN.	CASCADE LOCKS	OR	97014	
,DA,	FOREST PARK DEVELOPMENT	19455 FOREST PARK DRIVE	CASCADE LOCKS	OR		HOOD RIVER
,IM,	BEAR MOUNTAIN LUMBER	1415 FOREST LN	CASCADE LOCKS	OR		
,IM,	CASCADE WOOD COMPONENTS	15 HERMAN CREEK RD	CASCADE LOCKS	OR		
,IM,	PORT OF CASCADE LOCKS BUSINESS PARK SITE	INDUSTRIAL PARK WAY & CRAMBLETT WAY	CASCADE LOCKS	OR		
,IM,	PORT OF CASCADE LOCKS BUSINESS PARK	INDUSTRIAL PARK WAY & CRAMBLETT WAY	CASCADE LOCKS	OR		
,U,	CASCADE LOCKS LUMBER CO.	FOREST LANE	CASCADE LOCKS	OR	97014	
,U,	GORGE LUMBER-CASCADE LOCKS	UP DEPOT	CASCADE LOCKS	OR	97074	

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,BT,I,	CASCADE LOCKS INDUSTRIAL PARK	ALONG COLUMBIA RIVER, WEST OF GVMT COVE	CASCADE LOCKS	OR	97014	
,DA,	HERMAN CREEK WORK CENTER - USFS	FRONTAGE RD	CASCADE LOCKS	OR		HOOD RIVER
,IL,	STEVENSON	SR14, MP 43.2,	STEVENSON	WA		
,CT,	WDOT STEVENSON MAINT.	SR 14 MP 43.2 NORTHSIDE	STEVENSON	WA	98648	SKAMANIA
,IL,	STEVENSON MAINTENANCE SITE	SR14, MP 43.2, NORTHSIDE	STEVENSON	WA		
,IL,	WDOT STEVENSON MAINTENANCE SITE	SR 14 MP 43.2 N	STEVENSON	WA		
,AM,BO,U,	WA DOT STEVENSON MAINTENANCE SITE	SR 14 MP 43.2 N	STEVENSON	WA	98648	
,H,	HAMBLIN PROPERTY	STATE RD & DRY CREEK RD	MOSIER	OR	97040	
,DA,	WEST MAYER STATE PARK	I-84 10MI W. OF THE DALLES	THE DALLES	OR		WASCO
,I,H,BO,SS,	STEVENSON CO PLY MILL	42882 STATE HWY 14	STEVENSON	WA	98648	SKAMANIA
,CC,	STEVENSON COMPANY PLY MILL	42882 STATE HWY 14	STEVENSON	WA	98648	SKAMANIA
,U,	STEVENSON CO-PLY INC	MP 42.970 SR 14	STEVENSON	WA	98672	SKAMANIA
,DA,	UPRR ROWENA	6125 ROWENA RIVER RD	ROWENA	OR		WASCO
,H,AX,	UPRR DIESEL SPILL - ROWENA	I-84, EXIT 76 (ROWENA)		OR		
,DA,	OP&R - EAST MAYER STATE PARK	I-84 10MI W. OF THE DALLES	THE DALLES	OR		WASCO
,DS,	HUDGINS AUTO SERVICE	437 N WA-NA-PA ST	CASCADE LOCKS	OR	97014	HOOD RIVER
,DS,	BIG DS	716 S WANAPA ST	CASCADE LOCKS	OR	97014	HOOD RIVER
,EC,BB,	ODOT	60 NE FOREST LN	CASCADE LOCKS	OR	97014	HOOD RIVER
,EC,	CENTURYLINK	718 SE WANAPA ST	CASCADE LOCKS	OR	97014	HOOD RIVER
,H,AX,	GORGE LUMBER	NW PORTAGE RD.	CASCADE LOCKS	OR	97014	
,IL,	CASCADE LOCKS, CITY OF	140 WANAPA	CASCADE LOCKS	OR		
,IL,	GORGE MARKET	101 NW WANAPA STREET	CASCADE LOCKS	OR		
,U,	PORT OF CASCADE LOCKS	CASCADE LOCKS	CASCADE LOCKS	OR	97014	
,K,U,	TIM'S TEXACO, INC.	101 NW WANAPA ST,	CASCADE LOCKS	OR	97014	
,DS,	CASCADE LOCKS TEXACO	101 NW WANAPA ST	CASCADE LOCKS	OR	97014	HOOD RIVER
,DS,	CASCADE LOCKS CHEVRON	437 WANAPA ST	CASCADE LOCKS	OR	97014	HOOD RIVER
,DS,	CLARKS ARCO	HWY 30 & LAKESIDE AVENUE	CASCADE LOCKS	OR	97014	HOOD RIVER
,3,M,EC,BB,	CARSON OIL CO INC	425 WANAPA ST	CASCADE LOCKS	OR	97014	HOOD RIVER
,B,	CASCADE LOCKS ELEMENTARY	300 WA-NA-PA STREET	CASCADE LOCKS	OR	97014-0279	
,HE,I,	CITY OF CASCADE LOCKS PUBLIC WORKS	340 WA NA PA ST	CASCADE LOCKS	OR	97014	HOOD RIVER
,K,	GORGE MARKET	101 NW WANAPA STREET	CASCADE LOCKS	OR	97014	
,H,	CASCADE LOCKS TEXACO (FORMER)	WA NA PA ST.	CASCADE LOCKS	OR	97014	
,K,	HEATING OIL TANK	2 SE BELLE ST	CASCADE LOCKS	OR	97014	
,H,AX,	STANDARD OIL BULK PLANT (FORMER)	NW PORTAGE RD.	CASCADE LOCKS	OR	97014	
,IL,	CASCADE LOCKS CHEVRON	437 WANAPA	CASCADE LOCKS	OR		
,IL,	GORGE MARKET	101 NW WANAPA STREET	CASCADE LOCKS	OR		
,IL,	HENSGEN, DONALD/ BIG D'S SERVICE	706 SE WANAPA	CASCADE LOCKS	OR		
,IL,	OR STATE HWY 1 - 2C CASCADE LOCKS	60 NE FORREST LANE	CASCADE LOCKS	OR		
,IL,	TIM'S TEXACO, INC.	101 NW WANAPA ST,	CASCADE LOCKS	OR		
,U,	CASCADE LOCKS SHELL	425 WANAPA ST	CASCADE LOCKS	OR	97014	
,K,U,	CASCADE LOCKS, CITY OF	140 WANAPA	CASCADE LOCKS	OR	97014	
,K,U,	HENSGEN, DONALD/ BIG D'S SERVICE	706 SE WANAPA	CASCADE LOCKS	OR	97014	
,K,U,	CASCADE LOCKS CHEVRON	437 WANAPA	CASCADE LOCKS	OR	97014	
,K,U,	OR STATE HWY 1 - 2C CASCADE LOCKS	60 NE FORREST LANE	CASCADE LOCKS	OR	97014	
,H,	UPRR DUNE COVERAGE	RR TRACKS	THE DALLES	OR		
,U,	THE DALLES CONCRETE PRODUCTS COMPANY	4540 FRANTZ-TAYLOR RD	THE DALLES	OR	97058	
,B,	MICHAEL CRAUSE TRKG	4405 HWY 30# 504	THE DALLES	OR	97058	
,I,HE,	COLUMBIA GORGE DISCOVERY CENTER WATER SYSTEM	4490 HIGHWAY 30 SOUTH	THE DALLES	OR	97058	WASCO COUNTY
,HH,	MUNSEN PAVING LLC			OR		WASCO
,D,	3840 CRATES WAY	3840 CRATES WAY	Celilo	OR	97058	WASCO

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,H,	THE DALLES INDUSTRIAL CENTER	CHENOWETH CREEK INDUSTRIAL SUBDIVISION	THE DALLES	OR	97058	
,DA,	BPA CHENOWETH SUBSTATION	RIVER ROAD	THE DALLES	OR		WASCO
,EC,	LINCARE INC	3729 KLINDT DR	THE DALLES	OR	97058	WASCO
,IM,	MOUNTAIN FIR CHIP CO. - THE DALLES	3636 KLINDT DR	THE DALLES	OR		
,IM,	MT. FIR CHIP CO. - THE DALLES	3636 KLINDT DR	THE DALLES	OR		
,J,	DESIGN LLC	4200 COLUMBIA RD	THE DALLES	OR	97058	
,I,H,	THE DALLES DREDGE DISPOSAL SITE	RIVER RD& CRATES WAY (NORTH OF)	THE DALLES	OR	97058	WASCO
,D,	3840 CRATES WAY	3840 CRATES WAY	The Dalles	OR	97058	WASCO
,H,O,AX,BF,CG,	THE DALLES DISPOSAL SITE	2652 RIVER RD.	THE DALLES	OR	97058	WASCO
,H,M,L,	BERNERT BARGE LINES	2649 RIVER RD.	THE DALLES	OR	97058	
,H,M,AX,	MOUNTAIN FIR CHIP CO. - THE DALLES	3636 KLINDT DR	THE DALLES	OR	97058	WASCO
,HE,I,	DESIGN LLC	4200 COLUMBIA ROAD	THE DALLES	OR	97058	WASCO
,I,HE,	SKY'S CLLISN RPR INC DBA FIX AUTO THE DA	3425 CRATES WAY	CITY OF THE DALLES	OR	97058	WASCO
,I,HE,	HOMESHIELD	250 STEELHEAD WAY	THE DALLES	OR	97058	WASCO
,I,HE,	MUNSEN ASPHALT PLANT	120 STEELHEAD WAY	CITY OF THE DALLES	OR	97058	WASCO COUNTY
,DI,	THE WHITING-TURNER CONTRACTING COMPANY - THE DALLES	NORTH END OF RIVER TRAIL WAY	THE DALLES	OR	97058	WASCO
,EC,	BPA CHENOWETH SUBSTATION	4300 RIVER RD	THE DALLES	OR	97058	WASCO
,L,	DIRT HUGGER, LLC	4350 RIVER TRAIL WAY	THE DALLES	OR	97058	WASCO
,EC,DI,BB,	DESIGN LLC	4200 COLUMBIA RD	THE DALLES	OR	97058	WASCO
,EC,DI,BB,	MUNSEN ASPHALT PLANT	120 STEELHEAD WAY	CITY OF THE DALLES	OR	97058	WASCO
,EC,BB,	PRECISION LUMBER CO	3800 CRATES WAY	THE DALLES	OR	97058	WASCO
,EC,BB,	THE DALLES CONCRETE INC	4120 RIVER RD	THE DALLES	OR	97058	WASCO
,EC,BB,	CRESTLINE CONSTRUCTION CO LLC	3500 CRATES WAY	THE DALLES	OR	97058	WASCO
,BP,	HOMESHIELD	250 STEELHEAD WAY	THE DALLES	OR	97058	
,IM,	BERNERT BARGE LINES	2649 RIVER RD.	THE DALLES	OR		
,IM,	BERNERT BARGE LINES	2649 RIVER RD	THE DALLES	OR		
,IN,		2649 RIVER ROAD	THE DALLES	OR		
,IN,	DIRT HUGGER, LLC	4350 RIVER TRAIL WAY	THE DALLES	OR		
,IN,	WASCO COUNTY LANDFILL BARGE UNLOADING FACILITY	2649 RIVER RD	THE DALLES	OR		
,IN,	WASCO COUNTY LANDFILL BARGE UNLOADING FACILITY	2649 RIVER ROAD	THE DALLES	OR		
,HH,	GRANITE CONSTRUCTION COMPANY			WA		KLICKITAT
,IN,	DALLESPORT TRANSFER STATION	136 TIDYMAN RD	DALLESPORT	WA		
,IN,	GRANITE NORTHWEST INC. - DALLESPORT	135 TIDYMAN RD	DALLESPORT	WA		
,BO,	KERR CONTRACTORS INC DALLESPORT SMITH PIT			WA		
,HE,I,FM,AT,BP,BO,L,	DALLESPORT TRANSFER STATION	136 TIDYMAN RD	DALLESPORT	WA	98617	KLICKITAT
,I,HE,BP,DI,	GRANITE NORTHWEST INC	135 TIDYMAN RD	DALLESPORT	WA	98617	KLICKITAT
,BO,DI,L,	HOOD RIVER SAND & GRAVEL DALLESPORT	135 TIDYMAN	DALLESPORT	WA	98617	
,DI,	HOOD RIVER SAND & GRAVEL DALLESPORT PIT	HWY 197 & TIDYMAN RD	DALLESPORT	WA	98617	KLICKITAT
,IN,	DALLESPORT	135 TIDYMAN RD	DALLESPORT	WA		
,IN,	GRANITE CONSTRUCTION CO. - DALLESPORT	135 TIDYMAN RD	DALLESPORT	WA		
,IN,	MID COLUMBIA ASPHALT CO DALLESPORT	135 TIDYMAN RD	DALLESPORT	WA		
,H,O,AX,	CHENOWETH QUARRY	HWY 30, MILEPOST 71.8	THE DALLES	OR	97058	WASCO
,AT,	LIGHTRECYCLE WASHINGTON ORGANIZATION	126 TIDYMAN RD	DALLESPORT	WA	98617	
,FM,BO,	PELLISSIER TRUCKING INC	HWY 197 & DOW RD	DALLESPORT	WA	98617	KLICKITAT
,HH,	JIM RILEY EXCAVATING			WA		KLICKITAT
,HH,	HOOD RIVER SAND & GRAVEL REDI MIX, INC.			OR		HOOD RIVER
,AM,BO,AX,	DOW ROAD SITE DALLESPORT INDUSTRIAL PARK	T2N R13E S26	DALLESPORT	WA	98617	KLICKITAT
,HE,I,	PELLISSIER TRUCKING INC	HWY 197 & DOW RD	DALLESPORT	WA	98617	KLICKITAT
,BO,	ROSS ISLAND SAND & GRAVEL CO	HWY 197 & DOW RD	DALLESPORT	WA	98605	

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,BO,DI,	JAMES DEAN CONST BIG FISH QUARRY	401 DOW RD	DALLESPORT	WA	98617	
,FM,I,HE,	RECYCLED ALUMINUM METALS CO	104 PARALLEL ST	DALLESPORT	WA	98617	KLICKITAT
,FM,HE,I,BP,BO,	IMPACT ALLOYS FOUNDRY	102 PARALLEL AVE	DALLESPORT	WA	98617	KLICKITAT
,AF,FC,	IMPACT ALLOYS FOUNDRY	102 PARALLEL AVE PO BOX 209	DALLESPORT	WA	98817	
,BP,AM,BO,BF,	RECYCLED ALUMINUM METALS CO	104 PARALLEL ST	DALLESPORT	WA	98617	
,BS,	THE DALLES FRUIT COMPANY	111 PARALLEL AVENUE	DALLESPORT	WA	98617	
,I,HE,	THE DALLES FRUIT COMPANY	111 PARALLEL AVE	DALLESPORT	WA	98617	KLICKITAT
,BO,DI,	THE DALLES FRUIT CO LLC	111 PARALLEL AVE	DALLESPORT	WA	98617	KLICKITAT
,BO,	RAPID READY MIX CO DALLESPORT PLANT	310 PARALLEL AVE	GOLDENDALE	WA	98620	
,IM,	RECYCLED ALUMINUM METALS CO	104 PARALLEL ST DALLESPORT INDUST PARK	DALLESPORT	WA		
,IM,	RECYCLED ALUMINUM METALS CO	104 PARALLEL ST	DALLESPORT	WA		
,DZ,	RAMCO	E END OF F ST	DALLESPORT	WA	98617	KLICKITAT
,H,K,U,	DOUG'S AFFORDABLE MUFFLER	3838 W 6TH ST	THE DALLES	OR	97058	
,IM,	MARTIN MARIETTA REDUCTION FACILITY (MMRF)	3313 W 2ND ST	THE DALLES	OR		
,IM,	NORTHWEST ALUMINUM COMPANY SITE	3313 W 2ND ST	THE DALLES	OR		
,IM,	MARTIN MARIETTA REDUCTIO FAC. RCRA/CERCLA LANDFILL	3313 W 2ND ST	THE DALLES	OR		
,IM,	NORTHWEST ALUMINUM PLANT	3313 W 2ND ST	THE DALLES	OR		
,BO,DI,	DALLESPORT LOG YARD	1100 DOCK ROAD	DALLESPORT	WA	98617	KLICKITAT
,K,U,	DG MOTORS LLC, DBA GRIFFITH MOTORS	523 E 3RD ST	THE DALLES	OR	97058	
,U,	ARCO SS #4018	222 W 3RD ST	THE DALLES	OR	97058	
,FL,B,	NORTH WASCO COUNTY SD NO 21	2000 W 2ND ST	THE DALLES	OR	97058	WASCO
,I,HE,FL,3,BP,EC,	GRIFFITH MOTORS	523 E 3RD ST	THE DALLES	OR	97058	WASCO
,I,HE,FM,	FRED MEYER THE DALLES	1215 W 6TH ST	THE DALLES	OR	97058	WASCO
,AF,FC,	HUGHES FEED & GRAIN INC	723 E THIRD ST	THE DALLES	OR	97058	
,HE,I,	TEMPLE DISTRIBUTING, INC.	212 TERMINAL AVE	THE DALLES	OR	97058	WASCO
,HE,I,DZ,	THE DALLES STP	105 LAUGHLIN ST	THE DALLES	OR	97058	WASCO
,AF,FC,	WASCO ELECTRIC COOP	105 E 4TH ST	THE DALLES	OR	97058	
,Q,BP,	AMERITIES WEST LLC	100 TIE PLANT ROAD	THE DALLES	OR	97058	WASCO
,AF,FC,	FADNESS REALTY INC	503 E 2ND ST	THE DALLES	OR	97058	
,BS,	OREGON CHERRY GROWERS, INC- RIVERSIDE	801 WEST FIRST STREET	THE DALLES	OR	97058	
,I,DZ,	AIRGAS NOR PAC INC.	2007 W 2ND ST	THE DALLES	OR	97058	WASCO
,I,HE,	THE DALLES SEWAGE DISTRICT 12 CONSOLIDATION POINT	2000 WEST 2ND STREET	THE DALLES	OR	97058-2546	WASCO
,I,S,HE,	AMERITIES WEST, LLC	100 TIE PLANT RD	THE DALLES	OR	97058	WASCO COUNTY
,DZ,	OREGON CHERRY GROWERS, INC.	FIRST & MADISON ST	THE DALLES	OR	97058	WASCO
,I,HE,	A & P RECYCLING	280 WEBBER ST	THE DALLES	OR	97058	WASCO
,DR,	WALKER HAROLD THEODORE	314 1/2 E THIRD	THE DALLES	OR	97058	WASCO
,DS,	MILTS ARCO	222 W 3RD	THE DALLES	OR	97058	WASCO
,DS,	WALTERS OIL CO	230 TERMINAL AVE	THE DALLES	OR	97058	WASCO
,DS,	BEETLE HOUSE	825 EAST 2ND	THE DALLES	OR	97058	WASCO
,DS,	BOOTHS OIL CO	819 W 6TH	THE DALLES	OR	97058	WASCO
,DS,	HILCO SERVICE	703 E 2ND ST	THE DALLES	OR	97058	WASCO
,DS,	RINEHART JACK	101 W 2ND ST	THE DALLES	OR	97058	WASCO
,DS,	HATTENHAUER DISTRIBUTING CO	110 UNION ST	THE DALLES	OR	97058	WASCO
,D,		1515 WEST 1ST STREET	THE DALLES	OR		WASCO
,EC,BB,	AMERITIES WEST LLC	100 TIE PLANT RD	THE DALLES	OR	97058	WASCO
,K,	ARCO #4018	222 W THIRD	THE DALLES	OR	97058	
,K,	FORMER UNOCAL SERVICE STATION	102 E 2ND	THE DALLES	OR	97058	
,EC,	HATTS 76 FUEL STOP	301 W 3RD	THE DALLES	OR	97058	WASCO
,H,EC,BB,	HATTENHAUER ENERGY COMPANY LLC	413 W 1ST	THE DALLES	OR	97058	WASCO
,EC,	TUM A LUM LUMBER CO	240 TERMINAL AVE	THE DALLES	OR	97058	WASCO
,H,	PAULSON PROPERTY	UNION ST. & 2ND AVE.	THE DALLES	OR	97058	

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,H,	QUALITY ONE-HOUR MARTINIZING (FORMER)	301 E 12TH ST.	THE DALLES	OR	97058	
,H,	WALKER CLEANERS - E 3RD ST. (FORMER)	214 E 3RD ST.	THE DALLES	OR	97058	
,H,	FARM CHEMICAL & FERTILIZER CO. - E 2ND ST.	1008 E 2ND ST.	THE DALLES	OR	97058	
,K,	WEST SECOND FOOD MART	1433 W 2ND STREET	THE DALLES	OR	97058	
,K,	HEATING OIL TANK	501 E 7TH ST	THE DALLES	OR	97058	
,H,	BOOTH OIL - THE DALLES	820 E 3RD ST.	THE DALLES	OR	97058	
,DI,	RIVERSIDE PLANT	1035 BARGEWAY RD.	THE DALLES	OR	97058	WASCO
,K,	HEATING OIL TANK	810 E 7TH ST	THE DALLES	OR	97058	
,H,	CENTRAL CLEANERS (FORMER)	404 WASHINGTON ST.	THE DALLES	OR	97058	
,EC,BB,	SAPA EXTRUSIONS INC	2929 W 2ND	THE DALLES	OR	97058	WASCO
,K,	HEATING OIL TANK	901 LIBERTY ST	THE DALLES	OR	97058	
,DI,	LEWIS & CLARK FESTIVAL PARK	UNION ST. AND E. 1ST ST.	CITY OF THE DALLES	OR		WASCO
,EC,	SAWYERS HARDWARE LLC	500 E 3RD ST	THE DALLES	OR	97058	WASCO
,EC,	THE DALLES IRON WORKS LLC	720 E 2ND ST	THE DALLES	OR	97058	WASCO
,K,	HEATING OIL TANK	221 E SECOND ST	THE DALLES	OR	97058	
,IM,	ASTRO BULK PLANT #268 (FORMER)	1500 W 1ST ST	THE DALLES	OR		
,IM,	BOOTH OIL - THE DALLES	820 E 3RD ST.	THE DALLES	OR		
,IM,	CARPENTERS UNION BUILDING	207 W 3RD ST	THE DALLES	OR		
,IM,	CENTRAL CLEANERS (FORMER)	404 WASHINGTON ST	THE DALLES	OR		
,IM,	DON'S DRY CLEANERS & LAUNDRY (FORMER)	620 E 3RD ST.	THE DALLES	OR		
,IM,	FARM CHEMICAL & FERTILIZER CO. - E 2ND ST	1008 E 2ND ST	THE DALLES	OR		
,IM,	HATTENHAUER DISTRIBUTING - THE DALLES	413 W 1ST ST.	THE DALLES	OR		
,BS,	CASCADE FRUIT COMPANY	1035 BARGEWAY ROAD	THE DALLES	OR	97058	
,BS,	OREGON CHERRY GROWERS, INC - THE DALLES	EAST FIRST AND MADISON	THE DALLES	OR	97058	
,BS,	OREGON CHERRY GROWERS, INC. - THE DALLES	101 MADISON (EAST FIRST & MADISON)	THE DALLES	OR	97058	
,BS,	OREGON CHERRY GROWERS, INC.- RIVERSIDE	801 WEST FIRST STREET	THE DALLES	OR	97058	
,IM,	NAPA AUTO PARTS BLDG.	101 E 2ND ST.	THE DALLES	OR		
,IM,	NAPA AUTO PARTS BLDG	101 E 2ND ST	THE DALLES	OR		
,IM,	NORTHERN WASCO COUNTY PUD SERVICE CENTER	2000 W 2ND ST	THE DALLES	OR		
,IM,	OREGON NATIONAL GUARD - THE DALLES ARMORY	713 WEBBER ST	THE DALLES	OR		
,IM,	SHELL OIL BULK PLANT (FORMER) - THE DALLES	1315 W 2ND ST	THE DALLES	OR		
,IM,	SUNSHINE MILL	901 E 2ND ST.	THE DALLES	OR		
,IM,	UNION OIL BULK PLANT (FORMER)	215 TERMINAL AVE	THE DALLES	OR		
,IM,	WALKER CLEANERS - E 3RD ST. (FORMER)	214 E 3RD ST.	THE DALLES	OR		
,IM,	WEST 2ND FUEL MART	1433 W 2ND ST	THE DALLES	OR		
,IN,	THE DALLES TRANSFER STATION	1317 W 1ST ST	THE DALLES	OR		
,IL,	1ST CHOICE USED CARS	1014 WEST 6TH	THE DALLES	OR		
,IL,	ARCO SS #4018	222 W 3RD	THE DALLES	OR		
,IL,	BAUSCH, STEVE	1230 E 8TH ST	THE DALLES	OR		
,IL,	BP TRUCK STOP	1206 W 2ND	THE DALLES	OR		
,IL,	CLIFFORD, JEFF	810 E 7TH ST	THE DALLES	OR		
,IL,	COURTESY HOME FURNISHINGS	1407 WEST 6TH ST	THE DALLES	OR		
,IL,	FADNESS, ELTON	800 TREVITT ST	THE DALLES	OR		
,IL,	HALTON TRACTOR COMPANY	1238 W SECOND STREET	THE DALLES	OR		
,IL,	HEATING OIL TANK	1124 E 5TH ST	THE DALLES	OR		
,IL,	HEATING OIL TANK	1230 E 8TH ST	THE DALLES	OR		
,IL,	HEATING OIL TANK	1407 WEST 6TH ST	THE DALLES	OR		
,IL,	HEATING OIL TANK	311 E 2ND ST	THE DALLES	OR		
,IL,	HEATING OIL TANK	501 E 7TH ST	THE DALLES	OR		
,IL,	HEATING OIL TANK	507 W 7TH	THE DALLES	OR		
,IL,	HEATING OIL TANK	800 TREVITT ST	THE DALLES	OR		
,IL,	HILCO FOOD MART	703 E 2ND	THE DALLES	OR		

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,IL,	JACK IN THE BOX, INC.	1407 W 6TH	THE DALLES	OR		
,IL,	LUTZ, LUTZ & GEOCKEL INC	311 E 2ND ST	THE DALLES	OR		
,IL,	MILT'S EXXON	206 W 3RD STREET	THE DALLES	OR		
,IL,	OBRIAN, MIKE	500 W 7TH	THE DALLES	OR		
,IL,	THOMAS MOTORS, INC.	523 E 3RD ST	THE DALLES	OR		
,IL,	WASCO ANNEX	501 E 7TH ST	THE DALLES	OR		
,IL,	WASCO COUNTY COURT HOUSE	511 WASHINGTON ST	THE DALLES	OR		
,IL,	WEST SECOND FOOD MART	1430 W 2ND ST	THE DALLES	OR		
,IL,	WEST SECOND FOOD MART	1433 W 2ND STREET	THE DALLES	OR		
,IL,	ZUKIN, CHRIS	507 W 7TH	THE DALLES	OR		
,H,AX,	FORREST MOTORS (FORMER)	102 W 3RD ST.	THE DALLES	OR	97058	
,K,	DOWNTOWN TEXACO	301 W 3RD ST	THE DALLES	OR	97058	
,EC,	LEVEL 3 COMMUNICATIONS	313 COURT ST	THE DALLES	OR	97058	WASCO
,K,	HEATING OIL TANK	1501 E 10TH ST	THE DALLES	OR	97058	
,K,	HEATING OIL TANK	1521 E 9TH ST	THE DALLES	OR	97058	
,U,	ADKISSON, GENE	111 W 1ST ST	THE DALLES	OR	97058	
,H,K,U,	ASTRO PLANT #268	1500 W 1ST	THE DALLES	OR	97058	
,U,	FORT DALLES NISSAN	816 W 6TH ST	THE DALLES	OR	97058	
,3,K,U,	HILCO FOOD MART	703 E 2ND	THE DALLES	OR	97058	
,U,	QWIK CHANGE OIL	700 E 2ND	THE DALLES	OR	97058	
,K,U,	JACK IN THE BOX, INC.	1407 W 6TH	THE DALLES	OR	97058	
,EC,U,	UPS	1515 W 1ST ST	THE DALLES	OR	97058	WASCO
,K,U,	WEST SECOND FOOD MART	1430 W 2ND ST	THE DALLES	OR	97058	
,U,	THE DALLES RECYCLE	406 W 1ST	THE DALLES	OR	97058	
,U,	BARRY RENTS	333 CHERRY HEIGHTS RD	THE DALLES	OR	97058	
,U,	CFN CARDLOCK	1025 W 8TH PL	THE DALLES	OR	97058	
,U,	J.D. HATTENHAUER DIST.	413 W 1ST	THE DALLES	OR	97058	
,U,	TUM-A-LUM LEASE UST	723 E 2ND ST	THE DALLES	OR	97058	
,U,	HATT'S DOWNTOWN 76	301 W 3RD STREET	THE DALLES	OR	97058	
,HE,I,Q,DA,BP,M,EC,U,BB,	UNION PACIFIC RAILROAD TIE TREATMENT PLANT	2443 TIE PLANT RD	THE DALLES	OR	97058	WASCO
,CV,DH,C,RR,N,FM,BP,	UNION PACIFIC RAILROAD CO. TIE-TREATING PLANT	TIE PLANT RD-IN CITY LIMITS	THE DALLES	OR	97058	WASCO
,FM,I,HE,	SHERWIN-WILLIAMS CO - THE DALLES	405 E 2ND ST	THE DALLES	OR	97058	WASCO
,FM,U,	NORTHERN WASCO COUNTY PUD	401 COURT ST	THE DALLES	OR	97058	WASCO
,U,	NORTHERN WASCO COUNTY PUD	2000 W 2ND ST	THE DALLES	OR	97058	
,EE,ZM,DZ,HE,I,H,BP,EC,O,AX,BF,CG,BB,	NORTHWEST ALUMINUM CO	3313 W 2ND ST	THE DALLES	OR	97058	WASCO
,HE,FM,I,K,	HALTON CO THE THE DALLES	1238 W 2ND	THE DALLES	OR	97058	WASCO
,EC,U,BB,	OREGON CHERRY GROWERS INC	1ST & MADISON	THE DALLES	OR	97058	WASCO
,I,HE,FM,	WESTERN STATIONS CO DBA ASTRO 263	900 E 3RD	THE DALLES	OR	97058	WASCO
,HE,FM,I,K,U,	TEMPLE DISTRIBUTING INC LAUGHLIN CARDLOC	206 LAUGHLIN	THE DALLES	OR	97058-2424	WASCO
,FL,I,HE,	RITE AID 5334	1400 W 6TH ST	THE DALLES	OR	97058	WASCO
,FL,I,HE,	DONS CLEANERS AND LAUNDRY	412 WASHINGTON ST	THE DALLES	OR	97058	WASCO
,I,HE,FM,	BOB FISHER AUTO BODY	107 E 2ND ST	THE DALLES	OR	97058	WASCO
,FL,I,HE,BP,M,	UNION PACIFIC RAILROAD YARD	1000 E 1ST ST	THE DALLES	OR	97058	WASCO
,I,DZ,HE,	OREGON CHERRY GROWERS INC	101 MADISON ST	THE DALLES	OR	97058	WASCO
,I,FL,DZ,HE,	WASCO ELECTRIC COOPERATIVE INC	105 E 4TH ST	THE DALLES	OR	97058	WASCO
,I,HE,FM,	C H URNESS MOTOR COMPANY	200 UNION ST	THE DALLES	OR	97058	WASCO
,HE,I,FM,	BOB FISHER AUTO BODY	2400 W 2ND ST	THE DALLES	OR	97058	WASCO
,HE,I,FL,	C H URNESS MOTOR COMPANY	505 CHERRY HEIGHTS RD	THE DALLES	OR	97058	WASCO
,I,FM,HE,	MEDI MECH CORP	1424 W 2ND ST	THE DALLES	OR	97058	WASCO
,I,H,	DON S DRY CLEANERS & LAUNDRY (FORMER) - W 6TH	1252 W 6TH ST	THE DALLES	OR	97058	WASCO
,I,H,	SHELL OIL BULK PLANT (FORMER) - THE DALLES	1315 W 2ND ST	THE DALLES	OR	97058	WASCO
,I,H,	WALTERS OIL BULK PLANT (FORMER)	230 TERMINAL AVE	THE DALLES	OR	97058	WASCO

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,I,H,EC,AX,	UNION OIL BULK PLANT (FORMER) - THE DALLES	215 TERMINAL AVE	THE DALLES	OR	97058	WASCO
,I,H,M,	THE DALLES MARINA	BOAT BASIN RD	THE DALLES	OR	97058	WASCO
,I,HE,	THE DALLES TRANSFER STATION	1317 W 1ST ST	THE DALLES	OR	97058-3591	WASCO
,I,L,	THE DALLES TRANSFER STATION	2400 W 2ND ST	THE DALLES	OR	97058	WASCO
,I,H,	CARPENTERS UNION BUILDING	207 W 3RD ST	THE DALLES	OR	97058	WASCO
,I,H,	MAUSER PROPERTY	2ND & TERMINAL	THE DALLES	OR	97058	WASCO
,H,	WEST 2ND FUEL MART	1433 W 2ND ST	THE DALLES	OR	97058	
,HE,I,	PACIFIC NORTHWEST MILLING CO	901 E 2ND AVE	THE DALLES	OR	97058	WASCO
,H,	CARSON OIL BULK PLANT - THE DALLES	212 TERMINAL AVE.	THE DALLES	OR	97058	
,I,HE,	HATTENHAUER DISTRIBUTING COMPANY	201 W 1ST ST	THE DALLES	OR	97058	WASCO
,DS,	FIRST CHOICE USED CARS	1014 W 6TH ST	THE DALLES	OR	97058	WASCO
,DS,	MUFFLER FACTORY THE	822 E 2ND ST	THE DALLES	OR	97058	WASCO
,DS,	WOOLSEY HAROLD E	601 E SECOND AVE	THE DALLES	OR	97058	WASCO
,DS,	GREEN ROBERT L	1206 W 2ND ST	THE DALLES	OR	97058	WASCO
,DS,	EXXON	309 E 3RD ST	THE DALLES	OR	97058	WASCO
,DS,	HATTENHAUER DISTRIBUTING CO	413 W 1ST	THE DALLES	OR	97058	WASCO
,DS,	JERSEY DEVELOPMENT CORP	801 E 3RD ST	THE DALLES	OR	97058	WASCO
,DS,	VAN METRE JOHN R	1322 W 2ND	THE DALLES	OR	97058	WASCO
,DS,	FRIENDLY SHELL SERVICE	900 E 3RD ST	THE DALLES	OR	97058	WASCO
,DS,	HATTENHAUER DISTRIBUTING CO	413 E 1ST ST	THE DALLES	OR	97058	WASCO
,DS,	CHEVRON CHATEAU INC	1200-1222 W 2ND ST	THE DALLES	OR	97058	WASCO
,DS,	MILTS ARCO	206 W 3	THE DALLES	OR	97058	WASCO
,DS,	CERTIFIED AUTO & TRANSMISSION	1800 W 2ND ST	THE DALLES	OR	97058	WASCO
,DS,	VICS AMERICAN SERVICE	801 W 2ND	THE DALLES	OR	97058	WASCO
,DS,	4SEUFERT ENTERPRISES LLC	518 E 2ND ST	THE DALLES	OR	97058	WASCO
,DS,	BUTCHS EXXON SERVICE STATION	1100 W 6TH	THE DALLES	OR	97058	WASCO
,DS,	DICKS HIGHWAY 66 SERVICE	1433 W 2ND	THE DALLES	OR	97058	WASCO
,HE,	RICHMAN HYND STORAGE FACILITY	211 WEBBER ST.	CITY OF THE DALLES	OR	97058	
,H,AX,	NORTHWEST ALUMINUM - SECTION 2 PROPERTY	RIVER RD	THE DALLES	OR	97058	
,K,	HEATING OIL TANK	500 W 7TH	THE DALLES	OR	97058	
,H,	BOWDEN HEATING OIL (FORMER)	208 LAUGHLIN ST.	THE DALLES	OR	97058	
,H,	ATLANTIC RICHFIELD BULK PLANT - TERMINAL AVE.	224 TERMINAL AVE.	THE DALLES	OR	97058	
,K,	HEATING OIL TANK	1413 E 12TH ST	THE DALLES	OR	97058	
,K,	HEATING OIL TANK	507 W 7TH	THE DALLES	OR	97058	
,DI,	OREGON CHERRY GROWERS, INC.	FIRST & MADISON ST	THE DALLES	OR	97058	WASCO
,DY,L,	BRAUN ENTERPRISES	PO BOX 969	THE DALLES	OR	97058	WASCO
,K,	HEATING OIL TANK	1407 WEST 6TH ST	THE DALLES	OR	97058	
,D,	1298 BARGEWAY ROAD	1298 BARGEWAY ROAD	THE DALLES	OR		WASCO
,D,	1515 WEST 1ST STREET	1515 WEST 1ST STREET	The Dalles	OR	97058	WASCO
,D,		1515 W 1ST STREET	THE DALLES	OR		WASCO
,K,	OREGON CHERRY GROWERS, INC.	1ST & MADISON ST	THE DALLES	OR	97058	
,K,	HEATING OIL TANK	100 W SECOND STREET	THE DALLES	OR	97058	
,K,	1ST CHOICE USED CARS	1014 WEST 6TH	THE DALLES	OR	97058	
,H,AO,	DON'S DRY CLEANERS & LAUNDRY	412 WASHINGTON ST.	THE DALLES	OR	97058	
,EC,L,	WASTE CONNECTIONS OF OREGON INC	1317 W 1ST ST	THE DALLES	OR	97058	WASCO
,K,	HEATING OIL TANK	201 WASHINGTON ST	THE DALLES	OR	97058	
,EC,	AIRGAS USA LLC	2007 W 2ND ST	THE DALLES	OR	97058	WASCO
,K,	HEATING OIL TANK	800 TREVITT ST	THE DALLES	OR	97058	
,K,	HEATING OIL TANK	1230 E 8TH ST	THE DALLES	OR	97058	
,H,	SMITH OIL - THE DALLES	3020 W 2ND ST.	THE DALLES	OR	97058	
,H,	WASH'N'SHOP (FORMER)	1256 W 6TH ST	THE DALLES	OR	97058	
,H,	2ND & WEBBER AREA - THE DALLES	W 2ND & WEBBER STS.	THE DALLES	OR	97058	

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,H,AX,	OREGON NATIONAL GUARD - THE DALLES ARMORY	713 WEBBER ST.	THE DALLES	OR	97058	
,M,EC,DI,BB,	THE DALLES CITY OF	105 LAUGHLIN ST	THE DALLES	OR	97058	WASCO
,K,	HEATING OIL TANK	901 E SECOND ST	THE DALLES	OR	97058	
,K,	HEATING OIL TANK	503 E SECOND ST	THE DALLES	OR	97058	
,H,	SHELL SERVICE STATION - THE DALLES	1431 W 2ND ST.	THE DALLES	OR	97058	
,H,	RIVER TERMINALS - THE DALLES	RIVER RD	THE DALLES	OR	97058	
,H,	TIDEWATER OIL BULK PLANT - THE DALLES	RIVER RD	THE DALLES	OR	97058	
,H,	DON'S DRY CLEANERS & LAUNDRY (FORMER)	620 E 3RD ST.	THE DALLES	OR	97058	
,H,	WALKER CLEANERS (FORMER)	314(1/2) E 9TH ST.	THE DALLES	OR	97058	
,H,	SPARKLE CLEANERS (FORMER)	508 W 9TH ST.	THE DALLES	OR	97058	
,H,	HUMBLE OIL BULK PLANT (FORMER)	2812 W 2ND ST.	THE DALLES	OR	97058	
,H,	PHILLIPS ONE-HOUR MARTINIZING (FORMER)	308 E 12TH ST.	THE DALLES	OR	97058	
,H,	FARM CHEMICAL & FERTILIZER CO. - PORT DOCK	UNION ST & PORT DOCK	THE DALLES	OR	97058	
,H,	COLUMBIA MARINE SHIPYARD (FORMER)	2N/33E/S33D	THE DALLES	OR	97058	
,3,K,	HEATING OIL TANK	511 WASHINGTON ST	THE DALLES	OR	97058	
,H,EC,BB,	SUNSHINE MILL	901 E 2ND ST.	THE DALLES	OR	97058	
,HE,I,	BRAUN ENTERPRISES	1206 W 2ND ST.	CITY OF THE DALLES	OR	97058	WASCO
,BS,	OREGON CHERRY GROWERS, INC. - THE DALLES	101 MADISON (EAST FIRST & MADISON)	THE DALLES	OR	97058	
,BS,	OREGON CHERRY GROWERS, INC.- RIVERSIDE	801 WEST FIRST STREET	THE DALLES	OR	97058	
,HE,I,	NORTHERN WASCO COUNTY PUD	401 COURT ST	THE DALLES	OR	97058	WASCO
,HE,I,	SPRINT TELEPHONE CENTER	203 EAST 4TH STREET	THE DALLES	OR	97058-2205	WASCO
,FL,I,HE,	OREILLY AUTO PARTS STORE NO 2535	1413 W 6TH ST	CITY OF THE DALLES	OR	97058-3519	WASCO
,HE,I,	OREGON CHERRY GROWERS, INC.- RIVERSIDE	801 W 1ST ST	THE DALLES	OR	97058	WASCO
,I,S,G,HE,	SAPA EXTRUSIONS INC - THE DALLES CAST	2929 W 2ND ST	THE DALLES	OR	97058	WASCO
,I,HE,	SAFEWAY STORE NO 1489	520 MT HOOD ST	THE DALLES	OR	97058	WASCO
,DR,	WEBBERS CLEANERS	412 WASHINGTON ST	THE DALLES	OR	97058	WASCO
,DS,	ECONOMY GAS	806 E 2ND	THE DALLES	OR	97058	WASCO
,BP,	SAFEWAY STORE NO 1489	520 MOUNT HOOD ST	CITY OF THE DALLES	OR		
,L,	A&P RECYCLING	280 WEBBER	THE DALLES	OR	97058	KLICKITAT
,K,	HEATING OIL TANK	913 LAUGHLIN ST	THE DALLES	OR	97058	
,H,	JONES AUTO WRECKING	747 W SNIPES	THE DALLES	OR	97058	
,EC,	THE DALLES CITY OF	1215 W FIRST ST	THE DALLES	OR	97058	WASCO
,H,EC,	NAPA AUTO PARTS	101 E 2ND ST	THE DALLES	OR	97058	WASCO
,3,K,	HEATING OIL TANK	526 W 3RD PL	THE DALLES	OR	97058	
,EC,BB,	OIL CAN HENRYS	1011 W 8TH PL	THE DALLES	OR	97058	WASCO
,K,	HEATING OIL TANK	311 E 2ND ST	THE DALLES	OR	97058	
,K,	HEATING OIL TANK	309 E 2ND ST	THE DALLES	OR	97058	
,H,	ALL FOREIGN & DOMESTIC AUTO SALVAGE	707 W SNIPES ST.	THE DALLES	OR	97058	
,DI,	NORCOR UTILITY & GRADING PROJECT	201 WEBBER RD.	THE DALLES	OR		WASCO
,EC,	O'REILLY AUTO ENTERPRISES, LLC	1413 W 6TH	THE DALLES	OR	97058	WASCO
,H,	A & P RECYCLING	280 WEBBER ST.	THE DALLES	OR	97058	
,EC,	NEW CINGULAR WIRELESS PCS LLC	999 NW 6TH ST	DUFUR	OR	97021	WASCO
,EC,BB,	OREGON CHERRY GROWERS INC	801 W 1ST ST	THE DALLES	OR	97058	WASCO
,EC,BB,	C H URNESS MOTORS	505 CHERRY HEIGHTS RD	THE DALLES	OR	97058	WASCO
,EC,BB,	CASCADE PROPANE	1400 BARGE WAY	THE DALLES	OR	97058	WASCO
,EC,DI,	AUTOZONE #4185	801 W. 2ND ST.	THE DALLES	OR	97058	WASCO
,EC,BB,	GILL'S POINT S	1116 W 2ND ST	THE DALLES	OR	970583506	WASCO
,H,EC,AX,BB,	NORTH WASCO CO SCHOOL DIST 21	2000 W 2ND	THE DALLES	OR	97058	WASCO
,EC,BB,	QWIK CHANGE LUBE CENTER INC	700 E 2ND ST	THE DALLES	OR	97058	WASCO
,EC,	SHERWIN WILLIAMS CO	541 MT HOOD ST	THE DALLES	OR	97058	WASCO
,EC,	THE DALLES AUTO PARTS INC	110 E 3RD ST	THE DALLES	OR	97058	WASCO
,EC,BB,	VERIZON WIRELESS	180 RIVER RD	THE DALLES	OR	97058	WASCO

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,EC,	VERIZON WIRELESS	500 E 6TH ANNEX B	THE DALLES	OR	97058	WASCO
,K,	HEATING OIL TANK	1304 E 9TH ST	THE DALLES	OR	97058	
,K,	HEATING OIL TANK	1124 E 8TH ST	THE DALLES	OR	97058	
,DI,	GOODWILL THE DALLES	1218 W. 5TH ST.	CITY OF THE DALLES	OR		WASCO
,EC,	MID COLUMBIA PRODUCERS INC	1475 BARGEWAY RD	THE DALLES	OR	97058	WASCO
,K,	HEATING OIL TANK	420 W 7TH ST	THE DALLES	OR	97058	
,IM,	A & P RECYCLING	280 WEBBER ST.	THE DALLES	OR		
,IM,	A & P RECYCLING	280 WEBBER ST	THE DALLES	OR		
,IM,	ASTRO BULK PLANT #268	1500 W 1ST ST	THE DALLES	OR		
,IM,	ATLANTIC RICHFIELD BULK PLANT - TERMINAL AVE.	224 TERMINAL AVE.	THE DALLES	OR		
,IM,	ATLANTIC RICHFIELD BULK PLANT - TERMINAL AVE	224 TERMINAL AVE	THE DALLES	OR		
,IM,	BOOTH OIL - THE DALLES	820 E 3RD ST	THE DALLES	OR		
,IM,	BOWDEN HEATING OIL (FORMER)	208 LAUGHLIN ST.	THE DALLES	OR		
,IM,	BOWDEN HEATING OIL (FORMER)	208 LAUGHLIN ST	THE DALLES	OR		
,IM,	CARPENTERS UNION BUILDING	207 W 3RD ST.	THE DALLES	OR		
,IM,	CARSON OIL BULK PLANT - THE DALLES	212 TERMINAL AVE	THE DALLES	OR		
,IM,	CENTRAL CLEANERS (FORMER)	404 WASHINGTON ST.	THE DALLES	OR		
,IM,	DON'S DRY CLEANERS & LAUNDRY (FORMER) - W 6TH	1252 W 6TH ST	THE DALLES	OR		
,IM,	DON'S DRY CLEANERS & LAUNDRY (FORMER)	620 E 3RD ST	THE DALLES	OR		
,IM,	DON'S DRY CLEANERS & LAUNDRY	412 WASHINGTON ST.	THE DALLES	OR		
,IM,	DON'S DRY CLEANERS & LAUNDRY	412 WASHINGTON ST	THE DALLES	OR		
,IM,	FARM CHEMICAL & FERTILIZER CO. - E 2ND ST.	1008 E 2ND ST.	THE DALLES	OR		
,IM,	FRED MEYER - DIESEL RELEASE	1215 W 6TH ST	THE DALLES	OR		
,IM,	HATTENHAUER DISTRIBUTING - THE DALLES	413 W 1ST ST	THE DALLES	OR		
,IM,	JOHNSON & CO. BULK PLANT (FORMER)	1433 W 2ND ST	THE DALLES	OR		
,IM,	MAUSER PROPERTY	2ND & TERMINAL	THE DALLES	OR		
,IM,	OREGON NAT. GUARD - THE DALLES ARMORY	713 WEBBER ST	THE DALLES	OR		
,IM,	OREGON NATIONAL GUARD - THE DALLES ARMORY	713 WEBER ST	THE DALLES	OR		
,IM,	PAULSON PROPERTY	UNION ST & 2ND AVE	THE DALLES	OR		
,IM,	PAULSON PROPERTY	UNION ST. & 2ND AVE.	THE DALLES	OR		
,IM,	SHELL SERVICE STATION - THE DALLES	1430 W 2ND ST	THE DALLES	OR		
,IM,	SHELL SERVICE STATION - THE DALLES	1431 W 2ND ST	THE DALLES	OR		
,IM,	STANDARD OIL BULK PLANT (FORMER) - THE DALLES	208 LAUGHLIN ST	THE DALLES	OR		
,IM,	SUNSHINE MILL	901 E 2ND ST	THE DALLES	OR		
,IM,	TEMPLE DISTRIBUTING - THE DALLES	212 TERMINAL AVE	THE DALLES	OR		
,IM,	UNION OIL BULK PLANT (FORMER) - THE DALLES	215 TERMINAL AVE	THE DALLES	OR		
,IM,	WALKER CLEANERS - E 3RD ST (FORMER)	214 E 3RD ST	THE DALLES	OR		
,IM,	WALTERS OIL BULK PLANT (FORMER)	230 TERMINAL AVE	THE DALLES	OR		
,IM,	WASH'N'SHOP (FORMER)	1256 W 6TH ST	THE DALLES	OR		
,IN,	THE DALLES TRANSFER STATION + TRI-COUNTY HHHW COLLECTION FAC	1317 W 1ST ST	THE DALLES	OR		
,IN,	THE DALLES TRANSFER STATION	2400 W 2ND ST	THE DALLES	OR		
,IN,	THE DALLES TRANSFER STATION	2400 W 2ND	THE DALLES	OR		
,IL,	ARCO #4018	222 W THIRD	THE DALLES	OR		
,IL,	ASTRO #263	900 E 3RD ST	THE DALLES	OR		
,IL,	ASTRO PLANT #268	1500 W 1ST	THE DALLES	OR		
,IL,	C.H. URNESS MOTOR CO.	200 UNION ST	THE DALLES	OR		
,IL,	CASCADE ORTHOPEDICS/K & H ENTERPRISES	1424 W 2ND ST	THE DALLES	OR		
,IL,	CASCADE ORTHOPEDICS/K & H	1424 W 2ND ST	THE DALLES	OR		
,IL,	COOK & DOBBIN	1206 W 2ND	THE DALLES	OR		
,IL,	DG MOTORS LLC, DBA GRIFFITH MOTORS	523 E 3RD ST	THE DALLES	OR		

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,IL,	FADNESS REAL ESTATE	503 E SECOND ST	THE DALLES	OR		
,IL,	FORMER UNOCAL SERVICE STATION	102 E 2ND	THE DALLES	OR		
,IL,	FORREST PONT-BU-GMC,INCORPORATED	315 W 3RD ST	THE DALLES	OR		
,IL,	GILL, MARTY	309 E 2ND ST	THE DALLES	OR		
,IL,	GUIDERA, ROBERT & SHARON	901 LIBERTY ST	THE DALLES	OR		
,IL,	GUIDERA, ROBERT	901 LIBERTY ST	THE DALLES	OR		
,IL,	HEATING OIL TANK	1304 E 9TH ST	THE DALLES	OR		
,IL,	HEATING OIL TANK	1413 E 12TH ST	THE DALLES	OR		
,IL,	HEATING OIL TANK	201 WASHINGTON ST	THE DALLES	OR		
,IL,	HEATING OIL TANK	309 E 2ND ST	THE DALLES	OR		
,IL,	HEATING OIL TANK	500 W 7TH	THE DALLES	OR		
,IL,	HEATING OIL TANK	503 E SECOND ST	THE DALLES	OR		
,IL,	HEATING OIL TANK	511 WASHINGTON ST	THE DALLES	OR		
,IL,	HEATING OIL TANK	526 W 3RD PL	THE DALLES	OR		
,IL,	HEATING OIL TANK	810 E 7TH ST	THE DALLES	OR		
,IL,	HEATING OIL TANK	901 E SECOND ST	THE DALLES	OR		
,IL,	HEATING OIL TANK	901 LIBERTY ST	THE DALLES	OR		
,IL,	JOHNSON, TROY	1304 E 9TH ST	THE DALLES	OR		
,IL,	JOSEPH WILSON SCHOOL	1413 E 12TH ST	THE DALLES	OR		
,IL,	LAUGHLIN CARD LOCK CITY OF THE DALLES	206 LAUGHLIN	THE DALLES	OR		
,IL,	LAUGHLIN CARD LOCK CITY OF THE	206 LAUGHLIN	THE DALLES	OR		
,IL,	MCCARTHY, CHARLES	526 W 3RD PL	THE DALLES	OR		
,IL,	OLD SUNSHINE MILL	901 E SECOND ST	THE DALLES	OR		
,IL,	OREGON CHERRY GROWERS, INC.	1ST & MADISON ST	THE DALLES	OR		
,IL,	PEE WEE'S PIT STOP	819 W 6TH ST	THE DALLES	OR		
,IL,	THE DALLES C O (010282) UNITED TELEPHONE	203 E 4TH	THE DALLES	OR		
,IL,	THE DALLES C O (010282) UNITED	203 E 4TH	THE DALLES	OR		
,IL,	THE DALLES TIRE & AUTO CENTER	601 E SECOND STREET	THE DALLES	OR		
,IL,	THE DALLES URBAN RENEWAL	201 WASHINGTON ST	THE DALLES	OR		
,IL,	U.S. POST OFFICE	100 W SECOND STREET	THE DALLES	OR		
,EC,BB,	CHARTER COMMUNICATIONS	409 UNION ST	THE DALLES	OR	97058	WASCO
,DI,	THOMPSON PARK POOL & RELATED FACILITIES	602 W. SECOND ST.	CITY OF THE DALLES	OR		WASCO
,K,	C.H. URNESS MOTOR CO.	200 UNION ST	THE DALLES	OR	97058	
,H,	THE DALLES COLUMBIA RIVER SEDIMENTS	INTERSECTION OF FIRST & UNION STREETS	THE DALLES	OR	97058	
,DI,	RICHMAN HYND STORAGE FACILITY	211 WEBBER ST.	CITY OF THE DALLES	OR	97058	WASCO
,K,	HEATING OIL TANK	214 E 7TH PLACE	THE DALLES	OR	97058	
,BP,	SAPA EXTRUSIONS INC THE DALLES CAST	2929 W 2ND ST	THE DALLES	OR	97058-4125	
,K,EC,U,	ASTRO #263	900 E 3RD ST	THE DALLES	OR	97058	
,U,	COCA COLA	2100 W 2ND ST	THE DALLES	OR	97058	
,U,	DECKA ENTERPRISE INC	1014 W 6TH	THE DALLES	OR	97058	
,K,U,	FORREST PONT-BU-GMC,INCORPORATED	315 W 3RD ST	THE DALLES	OR	97058	
,H,3,EC,U,BB,	FRED MEYER STORES INC	1215 W 6TH ST	THE DALLES	OR	97058	WASCO
,U,	FUN COUNTRY INC.	1318 W 2ND	THE DALLES	OR	97058	
,U,	GORDION, KENNETH C.	702 E 6TH	THE DALLES	OR	97058	
,U,	HUGHES FEED & GRAIN, INC.	723 E 3RD ST	THE DALLES	OR	97058	
,U,	LUMBERMENS	240 TERMINAL AVE	THE DALLES	OR	97058	
,U,	SHORTY'S ELECTRIC	1102 W 2ND ST	THE DALLES	OR	97058	
,K,EC,U,	THE DALLES C O (010282) UNITED TELEPHONE	203 E 4TH	THE DALLES	OR	97058	
,K,U,	THE DALLES TIRE & AUTO CENTER	601 E SECOND STREET	THE DALLES	OR	97058	
,U,	YOUR RENTAL CENTER	285 WEBBER ST	THE DALLES	OR	97058	
,U,	VELTEX - NORM WILSON	801 W 2ND ST	THE DALLES	OR	97058	
,U,	MARTIN MARIETTA CORP.	3313 W 2ND ST	THE DALLES	OR	97058	

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,U,	THE DALLES POTW	E 1ST & LAUGHLIN	THE DALLES	OR	97058	
,U,	MINT BUILDING	710 E 2ND	THE DALLES	OR	97058	
,U,	COLUMBIA GORGE BEVERAGE, INC.	2200 W 2ND	THE DALLES	OR	97058	
,U,	THE DALLES FUEL STOP	801 E 3RD STREET	THE DALLES	OR	97058	
,U,	JONES EXXON	1322 W 2ND	THE DALLES	OR	97058	
,3,K,U,	CASCADE ORTHOPEDICS/K & H ENTERPRISES	1424 W 2ND ST	THE DALLES	OR	97058	
,EC,U,	NORCO INC	333 CHERRY HEIGHTS RD	THE DALLES	OR	97058	WASCO
,U,	C.A. COLLINS, INC.	825 E 2ND ST	THE DALLES	OR	97058	
,K,U,	COOK & DOBBIN	1206 W 2ND	THE DALLES	OR	97058	
,K,U,	MILT'S EXXON	206 W 3RD STREET	THE DALLES	OR	97058	
,U,	HALTON TRACTOR COMPANY	1238 W 2ND ST	THE DALLES	OR	97058	
,K,U,	PEE WEE'S PIT STOP	819 W 6TH ST	THE DALLES	OR	97058	
,U,	WASCO COUNTY COURTHOUSE	5TH & WASHINGTON ST	THE DALLES	OR	97058	
,U,	SAFEWAY FUEL STATION #1489	540 MOUNT HOOD ST	THE DALLES	OR	97058	
,H,	US ARMY COE - THE DALLES DAM	I-84 EXIT 88	THE DALLES	OR	97058	
,DZ,	US ARMY CORPS OF ENGINEERS THE DALLES DAM	INTERSTATE 84	THE DALLES	OR	97058	WASCO
,I,HE,	FLEX HANGAR PROJECT	135 AIRPORT WAY	DALLESPORT	WA	98617	
,BO,DI,L,	DALLESPORT POTW	440 DOCK RD	DALLESPORT	WA	98620	
,BO,	DALLESPORT MINI STORAGE	201 3RD AVE	DALLESPORT	WA	98617	
,BO,	COLUMBIA GORGE DALLES AIRPORT	45 AIRPORT WAY	DALLESPORT	WA	98617	
,BO,DI,	FLEX HANGAR PROJECT	135 AIRPORT WAY	DALLESPORT	WA	98617	KLICKITAT
,H,AX,	NORTHWEST ALUMINUM - TAX LOT 200	2650, 2652 AND 2625 RIVER RD.	THE DALLES	OR	97058	
,BO,	GLOBAL DIVING AND SALVAGE SPILL	COLUMBIA RIVER	THE DALLES	WA		
,BO,DI,	BOULDER RIDGE SUBDIVISION	W OF D ST BETWEEN 3RD AVE &	DALLESPORT	WA	98617	
,I,HE,	BOULDER RIDGE SUBDIVISION	W OF D ST BETWEEN 3RD AVE &	DALLESPORT	WA	98617	KLICKITAT
,BO,	DALLESPORT TREATY FISHING ACCESS SITE			WA		
,BO,	BOULDER RIDGE - KIM	W OF D ST BETWEEN 3RD AVE &	DALLESPORT	WA	98617	
,H,	FIFTEENMILE CREEK HERBICIDE SPILL	I-84 MILEPOST 89 & FIFTEENMILE CREEK BRIDGE	THE DALLES	OR	97058	
,H,AX,	ODOT - FIFTEENMILE CREEK BRIDGE	I-84 MILEPOST 89	THE DALLES	OR	97058	
,BO,DI,	TYRELL G ROSS DALLESPORT MATERIALS LANDING	451 OLD FERRY RD	DALLESPORT	WA	98617	KLICKITAT
,BO,DI,L,	LYLE POTW	919 OLD FERRY RD	LYLE	WA	98635	
,IM,	COOPERATIVE OIL & SUPPLY (FORMER)	1035 SE FRONTAGE RD	THE DALLES	OR		
,H,K,AH,U,	WASCO COUNTY ROAD DEPARTMENT	1819 W 10TH	THE DALLES	OR	97058	
,EC,BB,	ODOT	3313 BRETCLODFELTER WAY	THE DALLES	OR	97058	WASCO
,IM,	BPA - BIG EDDY SUBSTATION	3920 COLUMBIA VIEW DR	THE DALLES	OR		
,IL,	THE DALLES SUBSTATION	3920 COLUMBIA VIEW RD E	THE DALLES	OR		
,FL,DZ,BP,	USDOE BPA THE DALLES MAINT HEADQUARTERS	3920 COLUMBIA VIEW DR	THE DALLES	OR	97058	WASCO
,K,M,EC,BB,	BPA	3920 COLUMBIA VIEW DR E	THE DALLES	OR	97058	WASCO
,DA,H,M,EC,DI,AX,	BPA THE DALLES DIST COMPLEX	3920 COLUMBIA VIEW DR E	THE DALLES	OR	97058	WASCO
,GJ,	CELILO CONVERTOR SUBSTATION	3920 COLUMBIA VIEW DRIVE EAST	THE DALLES	OR	97058	
,FL,I,CC,HE,	USDOE BPA CELILO CONVERTER	3920 COLUMBIA VIEW DR E	THE DALLES	OR	97058	WASCO
,JM,	BPA-CELILO CONVERTER STATION	3920 COLUMBIA VIEW DRIVE E	THE DALLES	OR	97058	
,IM,	BPA - CELILO CONVERTER STATION - VALVE HALL	3920 COLUMBIA VIEW DR	THE DALLES	OR		
,IM,	BPA - CELILO CONVERTER STATION	3920 COLUMBIA VIEW DR	THE DALLES	OR		
,U,	THE DALLES SUBSTATION	3920 COLUMBIA VIEW DR	THE DALLES	OR	97058	
,I,H,	THE DALLES AREA GROUNDWATER CONTAMINATION	1N/13E/S1	THE DALLES	OR	97058	WASCO
,DA,	CELILO RIDGE SUBDIVISION	3723 COLUMBIA VIEW DRIVE	THE DALLES	OR		WASCO
,I,HE,	CELILO RIDGE SUBDIVISION	3723 COLUMBIA VIEW DRIVE	CITY OF THE DALLES	OR	97058	WASCO COUNTY
,I,HE,	WORSHIP FACILITY FOR THE DALLES SEVENTH-DAY ADVENTIST CHURC	COLUMBIA VIEW DR. AND VETERANS DR.	CITY OF THE DALLES	OR	97058	WASCO COUNTY

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,DI,	WORSHIP FACILITY FOR THE DALLES SEVENTH-DAY ADVENTIST CHURC	COLUMBIA VIEW DR. AND VETERANS DR.	CITY OF THE DALLES	OR	97058	WASCO
,DI,	CELILO RIDGE SUBDIVISION	3723 COLUMBIA VIEW DRIVE	CITY OF THE DALLES	OR	97058	WASCO
,EC,	THE DALLES CITY OF	200 LONE PINE DR	THE DALLES	OR	97058	WASCO
,IL,	WILLIAM VAN NUYS /OLD RIVERVIEW SHELL	335 US HWY 197	THE DALLES	OR		
,IL,	WILLIAM VAN NUYS /OLD RIVERVIEW	335 US HWY 197	THE DALLES	OR		
,K,U,	JACK'S MINI MARKET #2	3213 NE FRONTAGE RD	THE DALLES	OR	97058	
,FL,HE,I,	JACKS MINI MARKET	3213 BRET CLODFELTER WAY	THE DALLES	OR	97058	WASCO
,DS,	DAVIS RICHARD JR	353 US HWY 197	THE DALLES	OR	97058	WASCO
,DS,	VAN NUYS WILLIAM & JUDITH	335 HWY 197	THE DALLES	OR	97058	WASCO
,DS,	BEERS PAT	3213 BRET CLODFELTER WAY	THE DALLES	OR	97058	WASCO
,H,	THE DALLES TRAP & SKEET CLUB (FORMER)	1N/13E/S1B	THE DALLES	OR	97058	
,FM,I,HE,	ODOT THE DALLES MAINTENANCE YARD	3313 BRET CLODFELTER WAY	THE DALLES	OR	97058	WASCO
,JH,	DISTRICT 9 WEST	3313 BRET CLODFELTER WAY	THE DALLES	OR	97058	
,DI,	LONE PINE VILLAGE PUD	I-195 AND LONE PINE DRIVE	CITY OF THE DALLES	OR		WASCO
,K,U,	WILLIAM VAN NUYS /OLD RIVERVIEW SHELL	335 US HWY 197	THE DALLES	OR	97058	
,I,H,	RIVERFRONT PARK - SEDIMENTS CLEANUP	1N/13E/S3	THE DALLES	OR	97058	WASCO
,OO,	CHAMBERLIN DISTRIBUTING	3026 E 2ND ST	THE DALLES	OR	97058	
,K,	HEATING OIL TANK	2651 E 10TH	THE DALLES	OR	97058	
,DA,	CELILO GARDEN APARTMENTS	3120 OLD DUFUR ROAD	THE DALLES	OR		WASCO
,U,	WASCO COUNTY ROAD DEPT	2705 E 2ND ST	THE DALLES	OR	97058	
,AF,FC,	UAP NORTHWEST THE DALLES	3026 E SECOND ST	THE DALLES	OR	97058	
,OO,	NORTHWEST CHEMICAL CORP.	3026 EAST 2ND ST.	THE DALLES	OR	97058	
,OO,	UAP PACIFIC	3026 E 2ND ST.	THE DALLES	OR	97058	
,I,H,	FULL CIRCLE - THE DALLES	3023 E 2ND ST	THE DALLES	OR	97058	WASCO
,OO,	UAP NORTHWEST	3026 E 2ND ST	THE DALLES	OR	97058	
,DS,	MILTS TOWING & SERVICE	2843 OLD DUFUR RD	THE DALLES	OR	97058	WASCO
,DS,	SRUB-A-DUB	2702 E 2ND ST	THE DALLES	OR	97058	WASCO
,DS,	FULL CIRCLE INC	3023 E 2ND	THE DALLES	OR	97058	WASCO
,HE,	VIEW POINT TRAILER CT/INN AT THE DALLES WELL	3564 E 2ND ST	THE DALLES	OR	97058	WASCO
,3,H,EC,	CHAMBERLIN AGRICULTURE CO INC	3026 E 2ND ST	THE DALLES	OR	97058	WASCO
,K,	EASTSIDE VELTEX - TRAPP'S	2702 E SECOND	THE DALLES	OR	97058	
,H,O,CG,	UPRR TIE TREATING PLANT - THE DALLES	TIE PLANT RD.	THE DALLES	OR	97058	WASCO
,HE,I,	AL BERG RECYCLING	2937 E 2ND ST # 1	CITY OF THE DALLES	OR	97058-4085	WASCO
,I,HE,	WASCO COUNTY PUBLIC WORKS ROAD DIVISION	2705 EAST 2ND STREET	THE DALLES	OR	97058	WASCO
,EC,	LES SCHWAB TIRE CENTER	2645 E 2ND ST	THE DALLES	OR	97058	WASCO
,IM,	FULL CIRCLE - THE DALLES	3023 E 2ND ST	THE DALLES	OR		
,IM,	UAP - THE DALLES	3026 E 2ND ST.	THE DALLES	OR		
,IM,	UAP - THE DALLES	3026 E 2ND ST	THE DALLES	OR		
,IL,	DENNEE, JOHN	2651 E 10TH	THE DALLES	OR		
,IL,	EASTSIDE VELTEX - TRAPP'S	2702 E SECOND	THE DALLES	OR		
,IL,	HEATING OIL TANK	2651 E 10TH	THE DALLES	OR		
,EC,	MID COLUMBIA PRODUCERS INC	2702 E 2ND ST	THE DALLES	OR	97058	WASCO
,U,	MCP EAST SIDE CFN	2702 E 2ND	THE DALLES	OR	97058	
,EC,BB,	WASCO COUNTY RD DEPT	2705 E 2ND ST	THE DALLES	OR	97058	WASCO
,DS,	WOSTEL CHARLOTTE	3454 ROYAL CREST DR E	THE DALLES	OR	97058	WASCO
,H,AX,	HI DOLLAR JOHN'S (FORMER)	2365 E 2ND ST	THE DALLES	OR	97058	
,H,	THE DALLES ROUNDHOUSE (FORMER)	THE DALLES RAILYARD	THE DALLES	OR	97058	
,H,	HANCOCK SERVICE STATION (FORMER)	2401 E 2ND ST	THE DALLES	OR	97058	
,H,	COLUMBIA AUTO REPAIR & SALES	2311 E 2ND ST.	THE DALLES	OR	97058	
,EC,	FEED SHACK THE	2315 E 2ND ST	THE DALLES	OR	97058	WASCO
,IM,	COLUMBIA AUTO REPAIR & SALES	2311 E 2ND ST	THE DALLES	OR		
,IM,	HANCOCK SERVICE STATION (FORMER)	2401 E 2ND ST	THE DALLES	OR		

Database in which site is listed	Site Name	Address	City	State	ZIP	County
,IM,	HI DOLLAR JOHN'S (FORMER)	2365 E 2ND ST	THE DALLES	OR		
,IM,	HI DOLLAR JOHN'S	2365 E 2ND ST	THE DALLES	OR		
,IL,	RENTAL PROPERTY: THE DALLES	2311 E. 2ND ST.	THE DALLES	OR		
,K,U,	RENTAL PROPERTY: THE DALLES	2311 E. 2ND ST.	THE DALLES	OR	97058	
,K,	HEATING OIL TANK	1200 QUINTON ST	THE DALLES	OR	97058	
,H,	QUICK CLEAN CENTER (FORMER)	1712 E 12TH ST	THE DALLES	OR	97058	
,HE,I,	THE DALLES SCHOOL DISTRICT NO. 12 PHYSICAL PLANT	2525 E 14TH ST	THE DALLES	OR	97058	WASCO
,H,	MAY'S HEATING OIL CO. (FORMER)	2120 E 14TH ST.	THE DALLES	OR	97058	
,IM,	MAY'S HEATING OIL CO. (FORMER)	2120 E 14TH ST.	THE DALLES	OR		
,H,	SHEARER SPRAYERS - LAMBERT RD.	2020 LAMBERT RD.	THE DALLES	OR	97058	

Table 6-2. Database Codes

Code	Database Name/Code Meaning
3	Hazmat/Incidents
AF	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
AH	Brownfields Site Listing
AM	Confirmed and Contaminated Sites - No Further Action
AO	Drycleaner Listing
AT	Recycling Facility List
AX	Voluntary Cleanup Program Sites
B	PCB Activity Database System
BB	Above Ground Storage Tanks
BF	Institutional Control Site List
BF	Sites with Institutional Controls Restricting Use
BO	Facility/Site Identification System Listing
BP	Hazardous Waste Manifest Data
BQ	Permitted Sources & Emissions Listing
BS	Risk Management Plans
BT	A Listing of Brownfields Sites
C	Superfund Enterprise Management System
CC	Superfund Enterprise Management System Archive
CG	Engineering Controls Recorded at ESCI Sites
CT	Independent Cleanup Reports
CV	Engineering Controls Sites List
DA	Underground Injection Wells Database Listing
DH	Sites with Institutional Controls
DI	Wastewater Permits Database
DR	Drycleaner Listing
DS	EDR propieritary database of gas stations/automotive maintenance sites
DY	Financial Assurance Information Listing
DZ	Integrated Compliance Information System
EA	Inactive Drycleaners
EC	Hazardous Substance Information Survey
EC	Tier 2 Data Listing
FC	FIFRA/TSCA Tracking System Administrative Case Listing
FL	RCRA - Conditionally Exempt Small Quantity Generators
FM	RCRA - Non Generators / No Longer Regulated
G	RCRA - Small Quantity Generators
GJ	PCB Transformer Registration Database
H	Environmental Cleanup Site Information System
H	CECRA (Non-NPL) Priority Sites List

Code	Database Name/Code Meaning
H	Confirmed and Suspected Contaminated Sites List
H	This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.
HE	Enforcement & Compliance History Information
HH	Mines Master Index File
HT	SPILLS90 data from FirstSearch
I	Facility Index System/Facility Registry System
IL	Recovered Government Archive Leaking Underground Storage Tank
IM	Recovered Government Archive State Hazardous Waste Facilities List
IN	Recovered Government Archive Solid Waste Facilities List
JH	Abandoned Mines
K	Leaking Underground Storage Tanks Site List
L	Solid Waste Facility Database
M	Hazardous Material Spills Report
N	National Priority List
O	Confirmed Release List and Inventory
OO	Section 7 Tracking Systems
Q	RCRA - Large Quantity Generators
RR	Records Of Decision
S	Toxic Chemical Release Inventory System
SS	Hazardous Sites List
U	Underground Storage Tank Database
ZM	Aerometric Information Retrieval System Facility Subsystem (AFS)