COWLITZ INDIAN TRIBE
TRUST ACQUISITION AND CASINO PROJECT

FINAL EIS EVALUATION OF ADEQUACY

APRIL 2013

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ATTACHMENTS

1.0 INTRODUCTION

The Record of Decision (ROD) for the "Trust Acquisition of, and Reservation Proclamation for the 151.87-acre La Center Interchange Site in Clark County, Washington, for the Cowlitz Indian Tribe" (Proposed Action) was issued by the U.S. Department of the Interior on December 17, 2010 (2010 ROD; BIA, 2010). The 2010 ROD was based in part upon thorough review and consideration of the May 2008 Final Environmental Impact Statement (2008 FEIS; BIA, 2008) prepared in accordance with the National Environmental Policy Act (NEPA) under the direction and supervision of the Bureau of Indian Affairs (BIA) Northwest Regional Office (NWRO). To comply with a court order issued by a U.S. District Judge on March 13, 2013, the Department plans to issue an updated ROD for the Proposed Action. Section 8.5.4 of the BIA's NEPA Guidebook requires that FEISs be reviewed to determine if they need to be revised or supplemented if an FEIS is more than five years old for an action not yet taken (BIA, 2012). Although the 2008 FEIS is not more than five years old, this memorandum evaluates its adequacy to meet NEPA compliance requirements for the Proposed Action.

2.0 BACKGROUND

The Proposed Action, analyzed in the 2008 FEIS as Alternative A – Preferred Casino-Resort Project, includes (1) placing 8 parcels totaling approximately 151.87 acres (Proposed Trust Property or Cowlitz Property) into federal trust status for the benefit of the Tribe; (2) issuance of a reservation proclamation by the Department; (3) approval of a gaming development and management contract; and (4) development of a casino-resort, tribal headquarters, tribal elder housing, a tribal cultural center, and other ancillary facilities on the Proposed Trust Property.

No changes to the footprint and scope of the Proposed Project have occurred since the 2008 FEIS and 2010 ROD. With respect to enforceability of certain mitigation measures, as described in Section 1.5 of the 2008 FEIS, due to the uncertainty regarding the final legal status of the 2004 Memorandum of Understanding (MOU; Appendix C of the 2006 DEIS) between the Tribe and Clark County because of ongoing litigation, the Tribe enacted two ordinances to serve as enforceable legal mechanisms that would ensure the same mitigation of impacts that was provided in the MOU. In April 2009, after the publication of the 2008 FEIS, the Tribe and Clark County entered into a new agreement to rescind the 2004 MOU and to rely instead on the Tribe's Environment, Public Heath, and Safety (EPHS) Ordinance and Gaming Ordinance Amendment (Appendix U of the 2008 EIS) to provide the same mitigation of impacts as was provided in the MOU. The rescission agreement confirms the Tribe's limited waiver of sovereign immunity which allows Clark County to enforce the Tribe's obligations. As a result, the MOU is no longer in effect, the lawsuit challenging the MOU has been dismissed, and mitigation of impacts is provided for in the tribal ordinances. With respect to the land use classification of the Cowlitz Property, after publication of the 2008 FEIS the Clark County Superior Court issued a decision reversing a 2008 Western Washington Growth Management Hearings Board (GMHB) decision that the Cowlitz Property was not properly included in the La Center Urban Growth Area (UGA) boundary, effectively returning

the property to the UGA. Since issuance of the 2010 ROD, the Washington Court of Appeals agreed with the GMHB decision, which resulted in the removal of several properties, including the Cowlitz Property from the La Center UGA and the rezoning by the County as Agriculture 20 District (AG-20) with an Industrial Urban Reserve Overlay (UR-20). This outcome was anticipated in the 2010 ROD. Further discussion is provided in **Section 3.6**.

A site investigation of the Proposed Trust Property was conducted by B.J. Howerton of the BIA NWRO and a representative of Analytical Environmental Services on March 26, 2013. The results of the site visit and research indicate that no significant physical changes to the Proposed Trust Property have occurred since the publication of the 2008 FEIS. A discussion of changes to the environmental and regulatory setting of the surrounding area that have occurred since the 2008 FEIS, and how these changes may affect the conclusions within the 2008 FEIS, is provided in **Section 3.0**.

3.0 REVIEW OF ENVIRONMENTAL AND REGULATORY CONDITIONS

3.1 WATER RESOURCES

BENEFICIAL USES AND WATER QUALITY OBJECTIVES FOR THE EAST FORK LEWIS RIVER

Section 3.3.3 of the 2008 FEIS provided information on the regulatory setting regarding surface water quality including the beneficial uses and corresponding water quality objectives of the East Fork Lewis River, which is the primary surface water within the vicinity of the Cowlitz Property. At the time of publication of the 2008 FEIS, the East Fork Lewis River was classified by the Washington Department of Ecology (DOE) as General Water Use and Criteria Class AA (Extraordinary Waters) within Chapter 173-201A of the Washington Administrative Code (WAC): Water Quality Standards for Surface Waters of the State of Washington (Water Quality Standards). Accordingly, the beneficial uses and water quality objectives for Class AA waters were summarized within Section 3.3 of the 2008 FEIS. Several amendments have been made to WAC Chapter 173-201A since the release of the 2008 FEIS, the most recent of which occurred on May 9, 2011 (2011 Water Quality Standards; DOE, 2011). One of the amendments to the WAC Chapter 173-201A was to eliminate the use of General Water Use and Criteria Classes. The amendments resulted in new defined designated uses and criteria for fresh and marine waters. However, the new designated beneficial uses of the East Fork Lewis River are essentially the same to those designated for the Class AA waters described within the 2008 FEIS. **Table 1** compares the beneficial uses listed in the 2008 FEIS and 2011 Water Quality Standards, respectively.

Table 2 provides a comparison of the water quality standards applicable at the time the 2008 FEIS was completed to those contained in the current 2011 Water Quality Standards (DOE, 2011). As shown in Table 2, the water quality objectives in the 2011 Water Quality Standards are equal to or less stringent than those analyzed within the 2008 FEIS. As described in the 2008 FEIS, the wastewater from Alternative A would be treated at an on-site wastewater treatment plant according to Washington State

Department of Health (DOH) and DOE standards for Class A Reclaimed Water. Additionally, the Tribe will obtain and comply with a National Pollutant Discharge Elimination System (NPDES) waste discharge permit from the US Environmental Protection Agency (USEPA), which will take into account the 2011 Water Quality Standards and existing conditions when defining conditions for discharge. Therefore, with the implementation of mitigation measures provided in Section 5.2.2 of the 2008 FEIS, including compliance with all provisions of the NPDES program for wastewater and stormwater discharges, the Proposed Project would continue to have a less than significant impact, and in some cases beneficial impact, on surface water quality.

TABLE 1
EAST FORK LEWIS RIVER BENIFICIAL USE DESIGNATIONS

2006 Water Quality Standards (Included in 2008 FEIS)	2011 Water Quality Standards
Water Supply ▪ Domestic water ▪ Industrial water ▪ Agricultural water Stock Watering Fish and Shellfish Habitat ▪ Salmonid migration, rearing, spawning, and harvesting ▪ Other fish migration, rearing, spawning, and harvesting ▪ Clam, oyster, and mussel rearing, spawning, and harvesting ▪ Crustaceans and other shellfish rearing, spawning, and harvesting Wildlife Habitat Recreation ▪ Primary Contact Recreation ▪ Sports Fishing ▪ Boating ▪ Aesthetic enjoyment Commerce and Navigation	Water Supply ▪ Domestic water ▪ Industrial water ▪ Agricultural water Stock Watering Aquatic Life Uses ▪ Salmonid migration, rearing, and spawning Recreation ▪ Primary Contact Recreation Miscellaneous Uses ▪ Wildlife Habitat ▪ Harvesting ▪ Commerce and Navigation ▪ Boating ▪ Aesthetic enjoyment

Source: BIA, 2008, DOE, 2011.

EXISTING SURFACE WATER QUALITY

Section 3.3.3 of the 2008 FEIS stated that the East Fork Lewis River and McCormick Creek were listed by the DOE as Category 5 impaired waters based on fecal coliform numbers and Category 2 impaired waters based on temperature issues. Since the publication of the 2008 FEIS, DOE has updated the impaired waters list. While the East Fork Lewis River upstream of the project site and McCormick Creek continue to be listed as Category 5 for bacteria and Category 2 for temperature, the portion of East Fork Lewis River nearest the outfall from the seasonal unnamed stream on the Cowlitz Property is listed as Category 5 for temperature concerns and is not listed at any level for bacteria (DOE, 2013a). As described in the 2008 FEIS, the Category 5 designation is the highest priority ranking given by the State to recognize the need for implementation of a Total Maximum Daily Load (TMDL). To date, no TMDLs have been assigned for the East for Lewis River or McCormick Creek (DOE, 2013b). DOE has

scheduled the TMDL process for Water Resource Inventory Area 27 (WRIA 27 – Lewis), which encompasses the East Fork Lewis River watershed, to begin in 2014; however, TMDLs are in progress for the East Fork Lewis River and may be submitted within the next assessment cycle (2012- July 2014) to the USEPA (DOE, 2010).

TABLE 2
EAST FORK LEWIS RIVER WATER QUALITY OBJECTIVES

Constituent	2006 Water Quality Standards (Included in 2008 FEIS)	2011 Water Quality Standards
Fecal Coliform	Fecal coliform levels shall both not exceed a geometric mean value of 50 colonies/100mL and not have more than 10% of all samples obtained for calculating the geometric mean value exceeding 100 colonies/100mL.	Fecal coliform organism levels must not exceed a geometric mean value of 100 colonies /100 mL, with not more than 10% of all samples (or any single sample when less than ten sample points exist) obtained for calculating the geometric mean value exceeding 200 colonies /100 mL.
Dissolved Oxygen	Dissolved oxygen shall exceed 9.5 mg/L.	The 1-day minimum dissolved oxygen shall not be lower than 8.0 mg/L. When natural conditions is lower than 8.0 mg/L, then human actions considered cumulatively my not cause the dissolved oxygen to decrease more than 0.2 mg/L.
Total Dissolved Gas	Total dissolved gas shall not exceed 110% of striation at any point of sample collection.	Total dissolved gas shall not exceed 110% of striation at any point of sample collection.
Temperature	Temperature shall not exceed 16 degrees Celsius (ºC) (freshwater) for core summer salmonid habitats. No temperature increase will be allowed which will raise the receiving waters temperature by 0.3ºC.	7-DADMax Temperature shall not exceed 17.5 ºC (freshwater) due to human activities. When natural conditions exceed 17.5 ºC, then human actions considered cumulatively may not cause the 7-DADMax to increase more than 0.3 ºC. When natural conditions result in the 7-DADMax to be less than 17.5 ºC, incremental temperature increases resulting from the combined effect of all nonpoint source activities in the water body must not exceed 2.8 ºC.
pH	pH shall be within the range of 6.5 to 8.5 (freshwater) with a human-caused variation within the above range of less than 0.2 units.	pH shall be within the range of 6.5 to 8.5, with a human-caused variation within the above range of less than 0.5 units.
Turbidity	Turbidity shall not exceed 5 NTU over background turbidity when the background turbidity is 50 NTU or less, or have more than a 10% increase in turbidity when the background turbidity is more than 50 NTU.	Turbidity shall not exceed 10 NTU over background turbidity when background turbidity is 50 NTU or less, or shall not exceed a 20% increase in turbidity when background turbidity is more than 50 NTU.
Toxicity	Toxic, radioactive, or deleterious material concentrations shall be below those that have the potential either singularly or cumulatively to adversely affect characteristic water uses, cause acute or chronic conditions to the most sensitive biota dependent upon those waters, or adversely affect public health as determined by the department.	Toxic, radioactive, or deleterious material concentrations must be below those which have the potential, either singularly or cumulatively, to adversely affect characteristic water uses, cause acute or chronic conditions to the most sensitive biota dependent upon those waters, or adversely affect public health, as determined by the department.
Aesthetics	Aesthetic values shall not be impaired by the presence of materials or their effects, excluding those of natural origin, which offend the senses of sight, smell, touch, or taste.	Aesthetic values must not be impaired by the presence of materials or their effects, excluding those of natural origin, which offend the senses of sight, smell, touch, or taste

NOTES: mL = milliliters; mg/L = milligrams per liter; NTU = Nephelometric Turbidity Units, 7-DADMax = 7-day average of the daily maximum temperatures.
Source: BIA, 2008. DOE, 2011.

The 2008 Final EIS provided a detailed analysis of the Proposed Project's potential effects on surface water temperature. In addition to requiring compliance with all provisions of the NPDES program for wastewater and stormwater discharges, which would take into account any established TMDLs, the 2008 FEIS recommended the utilization of an underground heat transfer pipe field specifically to reduce potential impacts from the increased temperature of treated wastewater. As described in detail in a memorandum included within Exhibit 3 of Section 2.0 of the 2010 ROD (JG&A, 2008), implementation of this mitigation would reduce treated wastewater temperatures to 16ºC, which is below the current East Fork River water quality objective of 17.5ºC. Therefore, no adverse impact would occur to the ambient temperature of receiving waters downstream from the discharge point of treated wastewater. A beneficial impact may occur by discharging cooler water into the East Fork Lewis River helping maintain ambient temperatures below the water quality criterion. Therefore, with the implementation of mitigation measures provided in Section 5.2.2 of the 2008 FEIS the Proposed Project would continue to have a less-than-significant impact, and in some cases beneficial impact, on surface water quality.

FINDINGS

No additional impacts to water resources beyond those identified within the 2008 FEIS would occur. No additional mitigation measures beyond those recommended in the 2008 FEIS are warranted.

3.2 AIR QUALITY

Section 3.3 of the May 2008 FEIS provides information regarding National Ambient Air Quality Standards (NAAQS). Since 2008, changes have been made to the NAAQS. The changes include the reduction of the 8-hour ozone standard from 0.08 parts per million (ppm) to 0.075 ppm and the propagation of the 1-hour nitrogen oxides standard of 0.10 ppm in January 2011. As stated in Section 3.3.2 of the 2008 FEIS, Northern Clark County was designated attainment for all NAAQS criteria pollutants. The designation of attainment for all NAAQS criteria pollutants is still applicable (USEPA, 2012a).

The 2008 FEIS provides an estimate of project-related emissions in Section 4.4 and 4.15. The emissions were estimated using the USEPA approved Mobile6.2 air quality model, which used emission factors from the 2002 EMFAC model. The USEPA introduced a new recommended air quality model, MOVES, in 2012. MOVES was required for use by the USEPA after March 2, 2013 (USEPA, 2012b). Emissions factors incorporated in the MOVES model are lower than those used in the Mobile6.2 air quality model because fleet gas mileage has increased due to greater use of fuel efficient vehicles and new technological advances. Federal legislation has also required that fleet gas mileage increase. One such piece of Federal legislation is the Corporate Average Fuel Economy (CAFE) standard, which requires an increase in the national fleet gas mileage. Enacted in 1975 and amended in 2012, the CAFE standard requires that vehicles have a set fuel economy based on their footprint, thereby increasing gas mileage and reducing emissions. MOVES accounts for the increase in the national fleet gas mileage by using lower emissions

factors to model emissions. The Proposed Project components have not changed; therefore, if the MOVES air quality model were used in 2013 to estimate project-related emissions, the emission estimates would be lower than those provided in the Sections 4.4 and 4.15 of the 2008 FEIS; therefore, project-related emissions estimates provided in the 2008 FEIS are conservative and may overstate the impacts of the Proposed Project. Section 4.4 of the 2008 FEIS shows that project-related emissions would have a significant and unavoidable impact on regional air quality and that mitigation measures provided in Section 5.2.3 of the 2008 FEIS would reduce project-related emissions; however, not to a less-than-significant level.

The 2008 FEIS included an analysis of effects related to climate change in Section 4.15. In 2007, the State of Washington, Climate Advisory Team provided 46 GHG reduction strategies. The climate change analysis provided in the 2008 FEIS quantifies project-related GHG emissions, provides a regulatory background, and mitigation measures consistent with the State of Washington, Climate Advisory Team's 2007 reduction strategies. Additionally, a threshold of significance consistent with the State of Washington's reduction goals was established in Section 3.4 of the 2008 FEIS (Executive Order 07-02 (EO 07-02)). In February 2010 The Council on Environmental Quality (CEQ) Chair released a memorandum, Draft NEPA Guidance on *Consideration of the Effects of Climate Change and Greenhouse Gas Emission*s. The memorandum provides guidance on how project-related GHG emission should be analyzed in NEPA documents. The Draft Guidance provides that a NEPA climate change analysis shall provide quantification of project-related GHG emissions and mitigation measures to reduce GHG emissions. The guidance does not provide a threshold of significance; however, it is recommended that the lead agency develop a threshold of significance based on state or local policies. Since the climate change analysis provided in the 2008 FEIS provides a quantification of project-related GHG emissions, mitigation measures to reduce project-related GHG emissions, and a threshold of significance consistent with state policies, then it is consistent with the most recent NEPA guidance for analyzing project-related climate change impacts. Therefore, the climate change analysis provided in the 2008 FEIS adequately addresses climate change in accordance with recent guidance.

FINDINGS

No additional impacts beyond those identified within the FEIS would occur. No additional mitigation measures beyond those recommended in the FEIS are warranted.

3.3 BIOLOGICAL RESOURCES

SPECIAL STATUS SPECIES AND WILDLIFE

As described above, the site has not been developed or significantly altered since the 2008 FEIS. Based on review of a list of potentially occurring species issued by the U.S. Fish and Wildlife Service (USFWS; USFWS, 2012; **Attachment A**), no new federal listed threatened or endangered species have been documented as occurring in Clark County since the publication of the 2008 FEIS. Additionally, the

project site does not occur within designated critical habitat for any species. Therefore, no additional consultation with the USFWS beyond that described in the 2008 FEIS is warranted. However, the following three species have either been added or their status have been revised on the 2012 USFWS list of candidate and species of concern: Clackamas corydalis (*Corydalis aquae-gelidae*), North American wolverine (*Gulo gulo luteus*)-contiguous U.S. Distinct Population Segment (DPS), and Aleutian Canada goose (*Branta canadensis leucopareia*). Clackamas corydalis is a newly added plant species of concern on the 2012 USFWS list. This species occurs primarily in the western hemlock (*Tsuga heterophylla*) and Pacific silver fir (*Abies amabilis*) zone, at elevations ranging from 2,500 to 3,800 feet (WDNR, 1998). The project site does not provide habitat for this species. This species does not occur within the project site. The North American wolverine was previously designated a species of concern on the 2004 USFWS list, but is designated as a candidate species on the 2012 USFWS list. This species inhabits subalpine and alpine landscapes (Aubry et al., 2007). The project site does not provide habitat for this species. This species does not occur within the project site. The Aleutian Canada goose is a newly designated animal species of concern on the 2012 USFWS list. This species breeds on remote islands off of the Oregon Coast or the northwest California coast. During migration and on wintering grounds, the geese are commonly found in marshes, pastures and grass crops, harvested agriculture fields and flood-irrigated and nonirrigated land (USFWS, 1991). Aleutian geese roost on offshore vegetated islands during winter along the Oregon Coast and during spring staging in northwest California (NatureServe, 2012). The project site occurs outside of the known geographic range for this species. This species does not occur within the project site.

Given the absence of newly listed federally threatened or endangered species, the lack of habitat for newly listed candidate and species of concern, and the lack of change in scope of the Proposed Project, impacts to federally listed species continue to be less than significant under current conditions. No effects to newly-listed candidate or species of concern would occur as a result of the Proposed Action.

WETLANDS

There have been no changes to the wetland features occurring on the project site. As stated in the 2008 FEIS, the La Center Interchange Site would affect approximately 0.038 acres of jurisdictional waters of the U.S. The impacted waters of the U.S. include a roadside ditch adjacent to and south of NW 319th Street that would be removed with the construction of the casino-resort complex and the rerouting of NW 319th Street. Obtaining and complying with all the terms and conditions (e.g. compensatory mitigation for loss of waters of the U.S.) of a Nationwide 39 or Nationwide 18 permit from the USACE, and implementation of the minimization and avoidance measures identified in Section 5.2.4 of the 2008 FEIS, would mitigate the potential for adverse effects to waters of the U.S. Given the lack of change in scope of the Proposed Project, no new effects to jurisdictional wetlands and waters of the U.S. would occur as a result of the Proposed Action.

FINDINGS

No additional impacts beyond those identified within the 2008 FEIS would occur. No additional mitigation measures beyond those recommended in the 2008 FEIS are warranted.

3.4 SOCIOECONOMIC CONDITIONS

A detailed evaluation of the adequacy of the socioeconomic analysis within the 2008 FEIS is contained in **Attachment B** (E.D. Hovee, 2013). As described therein, the most significant, and previously unanticipated, changes since the publication of the 2008 FEIS relate to the economic recession of 2007-09 and ensuing slow recovery. Since the 2008 FEIS was released:

- The population in the vicinity of the Cowlitz Property has increased.
- Unemployment rates have increased in from 7.4 percent in 2004 to 12.4 percent in 2011 in Clark County and from 8.5 percent to 12.1 percent in Cowlitz County. While unemployment rates are now in decline in Clark and Cowlitz counties from their peaks in 2010 (14 percent) and 2009 (13.4 percent), respectively, it will likely be some time before unemployment returns to pre-recession levels. Commute travel time has also increased in the area with 60 percent of the resident work force commuting more than 20 minutes in 2010, up from 55 percent in 2000.
- After a substantial 48 percent increase in two-county median household incomes from 1990-2000, median incomes increased by only 9 percent in the most recent decade of 2000-10 (below the rate of inflation). The proportion of secondary study area households with incomes below poverty level increased from 9 percent to 13 percent from 2000-10.
- Rising housing costs have slowed to approximately 2 percent per year, while apartment rental rates remain generally the same. Due to loss of jobs and home foreclosures, the rate of home ownership dropped while rental occupied housing increased.

DIRECT ECONOMIC EFFECTS

As described in Section 4.7 of the 2008 FEIS, the thousands of new jobs resulting from construction and operation of the Proposed Project would result in a significant, beneficial impact to the economics of the region. The high levels of unemployment and increased poverty caused by the recession indicate an increased beneficial impact to current economic conditions (E.D. Hovee, 2013).

The effect of the changes to the socioeconomic climate described above creates added opportunity for the Proposed Project to hire more of its personnel across a wide range of positions from the local area. This would reduce the potential for growth induced impacts associated with new in-migrants to the area considered within the 2008 FEIS. Due to the lower housing costs and increase in available single family housing, those personnel who do move to the area would likely locate in incorporated, build-up portions versus rural portions of the area. In inflation adjusted dollars, wage and resulting income levels are not expected to be appreciably different than what was estimated in the 2008 FEIS (E.D. Hovee, 2013).

Therefore, the impacts to housing and growth would be equal to or less than what was anticipated in the 2008 FEIS (E.D. Hovee, 2013).

As discussed in **Section 2.0**, after the publication of the 2008 FEIS, the Tribe and Clark County entered into a new agreement to rescind the 2004 MOU and to rely instead on the Tribe's EPHS Ordinance and Gaming Ordinance Amendment (Appendix U of the 2008 FEIS) to provide the same mitigation of impacts as was provided in the MOU. Section 3(H) of the EPHS requires the Tribe to compensate Clark County on a biannual basis in lieu of property taxes for the removal of the property from the tax rolls, to collect and remit sales taxes on all non-Indian sales, and to make annual payments equivalent to the transient occupancy tax from non-Tribal members. Therefore, potential impacts to Clark County revenues would be equal to those anticipated in the 2008 FEIS (E.D. Hovee, 2013).

IMPACTS TO EXISTING GAMING MARKETS

As described in detail in **Attachment B**, the recession affected gaming revenues both nationally and regionally. However, reported tribal casino revenues in Oregon now exceed pre-recession levels. To the extent that the most proximate tribal casino to the proposed Cowlitz Casino benefits disproportionately from location closer to the Portland metro area, revenue gains may be even greater for the Spirit Mountain operation than for other Oregon casinos further removed from the state's major metro market. In effect, the current baseline is essentially the same as what was earlier estimated for the 2005 baseline described in the FEIS. Assuming a continued (if not accelerated) economic recovery, the assumptions provided within the 2008 FEIS can be carried forward to 2013 with no apparent substantive change. Therefore, the conclusions within the 2008 FEIS remain accurate (E.D. Hovee, 2013).

For the La Center cardrooms, conditions may have changed as the card rooms have yet to return to pre-recession revenues (estimated in FEIS as of 2005). However, the fact that one La Center cardroom has experienced substantial revenue gains while others have lost revenues suggests that there are also may be other competitive or customer preference factors involved in addition to changes in overall economic conditions. Because the City of La Center is collecting fewer tax revenues from the cardrooms now than what was assumed in the 2008 FEIS, the impact of the Proposed Project to City revenues would be less than or equal to that described in the EIS. No new or increased effect would occur (E.D. Hovee, 2013).

FINDINGS

No additional impacts beyond those identified within the 2008 FEIS would occur. No additional mitigation measures beyond those recommended in the 2008 FEIS are warranted.

3.5 TRANSPORTATION/CIRCULATION

A detailed evaluation of the adequacy of the transportation analysis within the 2008 FEIS is contained in **Attachment C** (KAI, 2013). As described therein, since issuance of the 2008 FEIS, all traffic

improvements assumed in the 2008 EIS have been completed. Additionally the traffic growth observed since the issuance of the 2008 FEIS has been lower than the growth rates assumed in the 2008 FEIS; therefore, the growth rates within the 2008 FEIS remain conservative and capture additional developments consistent with the comprehensive plan that have been approved since 2008. While some performance standards have changed since the issuance of the 2008 FEIS, none would change the conclusions of the 2008 FEIS.

FINDINGS

As concluded within **Attachment C**, the assumptions made, standards employed, and methods used to develop the conclusions within the traffic analysis remain adequate and, as a result, no additional transportation impacts nor any additional improvements beyond those previously addressed in the 2008 FEIS are needed.

3.6 LAND USE

As discussed in detail in the 2010 ROD, on May 14, 2008 the Western Washington Growth Management Hearings Board (GMHB) found that the County's 2007 update to its Comprehensive Growth Management Plan (GMP), which resulted in the expansion of La Center's UGA boundary to include the entirety of the Cowlitz Property, was not completed in accordance with Washington State Growth Management Act. The Clark County Superior Court subsequently partially reversed the GMHB decision. At the time of the publication of the 2010 ROD, an appeal of the Superior Court's decision was pending.

On December 18, 2012 Clark County approved Ordinance Number 2012-12-20 (Clark County, 2012) which removed several properties, including the Cowlitz Property, from the La Center UGA and re-zoned them as Agriculture 20 District (AG-20) with an Industrial Urban Reserve Overlay (UR-20). In 2011, the Washington Court of Appeals determined that the Clark County GMP update was not in accordance with state law, and affirmed the GMHB decision that the Cowlitz Property was not properly included within the La Center UGA. This outcome was anticipated in the 2010 ROD. As discussed therein, although the analysis in the 2008 FEIS reflected the update to the Clark County GMP and associated Industrial Urban Holding land use designation for the project site, the analysis of land use impacts within the 2006 Draft Environmental Impact Statement (2006 DEIS) was completed under the assumption that the project site was designated for agricultural purposes. The BIA determined in both the 2006 DEIS and the 2008 FEIS that the Proposed Action would not be consistent with local land designations and intended uses for the Cowlitz Property, but that environmental impacts associated with this inconsistency would be reduced through the implementation of specific mitigation measures identified for traffic, noise, aesthetics, air quality, and public services. Thus, impacts have been evaluated and disclosed under both scenarios and the significance conclusions of the 2008 FEIS are not affected. Mitigation measures identified for the Proposed Action in Section 5.0 of the 2008 FEIS will reduce the potential for adverse environmental effects resulting from land use inconsistencies.

Additionally, in September 2011, La Center's city limits were extended to be adjacent to the eastern boundary of the Cowlitz Property across I-5. The properties directly across I-5 to the east are zoned commercial community and properties to the southeast are zoned light industrial/employment campus. This expansion of La Center's city limits and the designated land uses were considered in the 2008 FEIS. The commercial nature of the Proposed Project would be consistent with land uses within the La Center city limits to the east of the Cowlitz Property. Mitigation measures identified for the Proposed Action in Section 5.0 of the 2008 FEIS will further reduce the potential for adverse environmental effects resulting from land use inconsistencies.

FINDINGS

No additional impacts beyond those identified within the 2008 FEIS would occur. No additional mitigation measures beyond those recommended in the 2008 FEIS are warranted.

3.7 PUBLIC SERVICES

As described in **Section 2.0** of this memorandum, after the publication of the 2008 FEIS, the Tribe and Clark County entered into a new agreement to rescind the 2004 MOU and to rely instead on the Tribe's EPHS Ordinance and Gaming Ordinance Amendment (Appendix U of the 2008 EIS) to provide the same mitigation of impacts as was provided in the MOU. The following is a discussion of changes to the environmental and regulatory setting of the surrounding area that have occurred since the 2008 FEIS of each public services issue area, and how these changes may affect the conclusions within the 2008 FEIS.

WATER SUPPLY

The Tribe shall provide water supply through connection to the existing Clark Public Utilities (CPU) system in accordance with Section 3(F) of the Tribe's EPHS Ordinance. As discussed within the 2008 FEIS, the Tribe has expressed its intent to contract with CPU for water supply and pay the expenses associated with delivery of services to the Proposed Project; CPU has consented through service agreement letters to enter into negotiations and to contract with the Tribe (Appendix BB of the DEIS). Since 2008, CPU has increased its pumping capacity from 27 million gallons a day (mgd) to 34.5 mgd while peak water demand has decreased from approximately 25 mgd to 22 mgd (CPU, 2012 and 2013). At peak demand the Proposed Action would account for approximately 6.2 percent of the current remaining capacity of the CPU water supply system, compared to 11 percent estimated in the 2008 FEIS. Therefore, CPU's system continues to be capable of providing the water necessary to meet all service demands in the foreseeable future, including water demands for the Proposed Action. This estimate does not include the use of recycled water from the proposed on-site wastewater treatment plant, which could supply up to 67 percent of demand. Implementation of mitigation measures provided in Section 5.0 of the 2008 FEIS would reduce any potential impacts to the service provider.

WASTEWATER SERVICE

In accordance with Section 3(F) of the Tribe's EPHS Ordinance, the Tribe would provide sewage conveyance, treatment, and disposal through development of a new independent sewage treatment plant constructed by the Tribe on the Proposed Trust Property. Use of an on-site sewage treatment plant would have no impacts to public wastewater service providers.

Alternatively, the EPHS Ordinance also allows for connection to a local wastewater treatment service provider as suggested as optional mitigation in Section 5.2.8 of the 2008 FEIS. Proposed improvements needed to service the Proposed Project were discussed under Alternative D in Section 4.10 of the 2008 FEIS. Should the connection to a local wastewater treatment service provider be determined to be the most appropriate means of wastewater treatment for the Proposed Project, implementation of mitigation measures provided in Section 5.0 of the 2008 FEIS would reduce any potential impacts to the service provider.

SOLID WASTE SERVICE

As described in the 2008 FEIS, solid waste generated during the construction and operation would be collected by Waste Connections, Inc, or a similar company, and disposed of at the Finley Buttes Landfill in Boardman, Oregon. As described in the 2008 FEIS, the landfill has a life expectancy of at least 200 years and has approximately 180 million cubic yards permitted capacity. The Finley Buttes Landfill continues to have no permitted limits on the amount of intake the landfill can receive (Large, 2013). Implementation of mitigation measures provided in Section 5.0 of the 2008 FEIS would reduce any potential impacts to the solid waste service provider.

ELECTRICITY, NATURAL GAS, AND TELECOMMUNICATIONS

As described in the 2008 FEIS, the Tribe has expressed its intent to contract with CPU for delivery of electricity and pay the expenses associated with delivery of services to the Proposed Project; CPU has consented through service agreement letters to enter into negotiations and to contract with the Tribe (Appendix BB of the DEIS). CPU has indicated that it continues to have extra generation capacity available for the Proposed Project; however, as was anticipated in the 2008 FEIS, a new substation would be needed near the site as well as new transmission and feeder lines (McNeal, 2013). A substation is currently being planned for development, with or without the development of the Proposed Project, near the site to serve existing and potential future customers. The substation is currently anticipated to be constructed in 2015 or 2016, but could be constructed earlier to meet future demands (McNeal, 2013). Implementation of mitigation measures, including energy conservation measures, provided in Section 5.0 of the 2008 FEIS would reduce any potential impacts to CPU. Additionally, in accordance with Section 3(G) of the Tribe's EPHS Ordinance, the Proposed Project will be developed consistent with the Clark County Energy Code (Chapter 14.28A of the Clark County Codes) and Chapter 14.04 of the Building Code. These measures would increase the electrical and economic efficiency of the Proposed Project, ensuring that impacts regarding electricity use are reduced.

The Proposed Project would obtain natural gas from NW Natural via a proposed 6,000-foot, 6-inch diameter gas line that would be constructed along NW 31st Avenue from an existing 4-inch diameter gas line along NW 299th Street to the Cowlitz Property. NW Natural has indicated that it continues to have the capacity to serve the Proposed Project and that the proposed gas line remains a feasible option for supplying the site (Binns, 2013). Implementation of mitigation measures provided in Section 5.0 of the 2008 FEIS would reduce any potential impacts relating to use of natural gas.

Telephone and cable service was previously provided to the residences that were located on the Cowlitz Property. In 2010 Qwest Communications was acquired by Century Link, which continues to provide service to the La Center Area. The Tribe would contract with telephone/cable/internet service providers as needed. As described in the 2008 FEIS, no significant effects to local service would occur.

PUBLIC HEALTH AND SAFETY

In February 2008 Clark County Fire Districts (CCFD) 11 and 12 were consolidated to form the Clark County Fire and Rescue District (CCFRD) (CCFRD, 2013). The CCFRD operates out of seven fire stations and a boat house. Additionally, CCFD 2 and City of Woodland have contracted with CCFRD adding one staffed station and 2 stations staffed with volunteers. The closest station is Station 23 (identified as La Center Station #12-3 in the 2008 FEIS) located approximately 2 miles east of the Cowlitz Property. Station 23 is currently staffed with two full time firefighters at all times with occasional volunteers. Station 23 houses two fire engines and a brush rig. The next closest station is the recently constructed Station 21 (identified as the CCFD main station in the 2008 FEIS) located approximately 3.5 miles southeast of the Cowlitz Property. Station 21 is currently staffed with volunteers and houses one fire engine, one water tender, one rescue vehicle, and one brush rig. The CCFRD is experiencing longer response times due to budget cuts instigated during the recession. American Medical Response continues to be the sole provider for emergency and non-emergency response in Clark County (Yager, 2013).

The Cowlitz Property and vicinity continues to be served by the Clark County Sheriff's West Precinct. The area continues to be patrolled by a single officer for two out of three shifts; service is still provided during the graveyard shift; however, the area is not patrolled. Service response times continue to be based on priority (Shea, 2013). Therefore, no substantial changes to law enforcement services have occurred since the release of the 2008 FEIS.

As determined in the 2008 FEIS, the Proposed Project would increase demands for law enforcement, fire protection, and emergency medical services. Adverse effects resulting from the increased demand would be reduced by the implementation of the mitigation included in Section 5.0 of the 2008 FEIS and compliance with Sections 3(A) through 3(D) of the Tribe's EPHS Ordinance.

FINDINGS

No additional impacts beyond those identified within the 2008 FEIS would occur. No additional mitigation measures beyond those recommended in the 2008 FEIS are warranted.

3.8 HAZARDOUS MATERIALS

As noted in the 2008 FEIS, a Phase I Environmental Site Assessment (Phase I ESA) of the La Center Interchange site was prepared in February 2004 (K&S Environmental, Inc., 2004), with an additional site visit by AES hazardous materials specialists in March 2005. An update to the Phase I ESA was prepared in October 2008 (AES, 2008). These assessments indicated that no documented hazardous materials sites were located on the La Center Interchange Site and documented hazardous materials sites in the vicinity do not pose a significant threat to the environmental quality of the La Center Interchange site.

To verify that conditions on the La Center Interchange site mirror the previously documented conditions, a site visit and an updated database search (EDR, 2013; **Attachment D**) were completed in March 2013. The updated database search and the March 26, 2013 site visit were conducted in accordance with BIA guidelines and the American Society for Testing and Materials (ASTM) Standard Practice E1527-05, which specifies the appropriate inquiry requirements for the innocent landowner defense under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

As previously described, the site has not been developed or significantly altered since the release of the 2008 FEIS. The 2013 database search and site reconnaissance revealed no evidence of Recognized Environmental Conditions (RECs) that may affect future uses of the project site. The project site was not listed on any regulatory agency database as having current or past hazardous materials use or release. Additionally, there were no adjacent sites identified in the database report that would affect surface and subsurface conditions on the site (**Attachment D**).

FINDINGS

Because no RECs have been identified in the vicinity of the project site and there is no indication of hazardous materials involvement on the project site, no significant impacts with regard to hazardous materials contamination are anticipated. No additional impacts beyond those identified within the 2008 FEIS would occur. With the implementation of mitigation measures provided in Section 5.2.10 of the 2008 FEIS to reduce the potential for inadvertent spills or other contamination during construction of the Proposed Project, and limited handling of hazardous materials during its operation, the Proposed Project would have a less-than-significant impact associated with hazardous materials.

3.9 OTHER ISSUE AREAS

The development footprint, components, and the size of the Proposed Project are identical to that described in the 2008 FEIS. The current site conditions and land uses of the Proposed Trust Property and

nearby properties have not changed or been altered significantly since 2008. Potential impacts to issue areas not detailed above, including geology and soils, cultural and paleontological resources, noise, and aesthetics, would be the same as those discussed in the 2008 FEIS. Therefore, no additional impacts beyond those identified within the 2008 FEIS would occur and no additional mitigation measures beyond those recommended in the 2008 FEIS are warranted.

4.0 CONCLUSION

The current conditions of the project site remain largely unchanged from the time of the preparation of the 2008 FEIS. As discussed above in detail, the few changes that have occurred were either anticipated within the 2008 FEIS or were insignificant to the analysis. Therefore, the conclusions and mitigation measures set forth in the 2008 FEIS remain applicable to the Proposed Project. There is no significant new information or new impacts; therefore, no additional mitigation is warranted. The 2008 FEIS is adequate to meet NEPA compliance requirements for the Proposed Project.

5.0 SIGNATURE

By my signature, I certify that the BIA NWRO has conducted an independent analysis of all available information. Based on the findings outlined above, it has been determined that the 2008 FEIS is adequate to meet NEPA compliance requirements for the Proposed Project.

NW Regional Director _____ Date 4/11/2013

6.0 PREPARERS

LEAD AGENCY

Bureau of Indian Affairs

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ATTACHMENT A

SPECIAL STATUS SPECIES LISTS

LISTED AND PROPOSED ENDANGERED AND THREATENED SPECIES AND CRITICAL HABITAT; CANDIDATE SPECIES; AND SPECIES OF CONCERN IN CLARK COUNTY AS PREPARED BY THE U.S. FISH AND WILDLIFE SERVICE WASHINGTON FISH AND WILDLIFE OFFICE

(Revised December 11, 2012)

LISTED

Bull trout *(Salvelinus confluentus)* – Coastal-Puget Sound DPS
Gray wolf *(Canis lupus)*
Northern spotted owl *(Strix occidentalis caurina)*

Major concerns that should be addressed in your Biological Assessment of project impacts to listed animal species include:

1. Level of use of the project area by listed species.

2. Effect of the project on listed species' primary food stocks, prey species, and foraging areas in all areas influenced by the project.

3. Impacts from project activities and implementation (e.g., increased noise levels, increased human activity and/or access, loss or degradation of habitat) that may result in disturbance to listed species and/or their avoidance of the project area.

Castilleja levisecta (golden paintbrush) [historic]
Howellia aquatilis (water howellia)
Lomatium bradshawii (Bradshaw's lomatium)

Major concerns that should be addressed in your Biological Assessment of project impacts to listed plant species include:

1. Distribution of taxon in project vicinity.

2. Disturbance (trampling, uprooting, collecting, etc.) of individual plants and loss of habitat.

3. Changes in hydrology where taxon is found.

DESIGNATED

Critical habitat for bull trout

PROPOSED

None

CANDIDATE

North American wolverine *(Gulo gulo luteus)* – contiguous U.S. DPS
Oregon spotted frog *(Rana pretiosa)* [historic]

SPECIES OF CONCERN

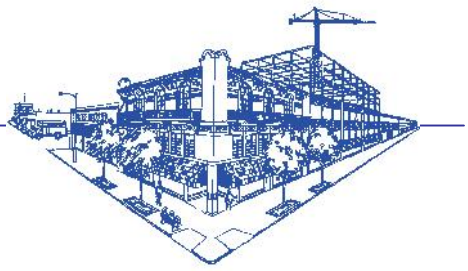
Aleutian Canada goose (Branta canadensis leucopareia)
Bald eagle *(Haliaeetus leucocephalus)*
Cascades frog *(Rana cascadae)*
Coastal cutthroat trout *(Oncorhynchus clarki clarki)* [southwest Washington DPS]
Larch Mountain salamander *(Plethodon larselli)*
Long-eared myotis *(Myotis evotis)*
Long-legged myotis *(Myotis volans)*
Northern goshawk *(Accipiter gentilis)*
Northwestern pond turtle *(Emys (= Clemmys) marmorata marmorata)*
Olive-sided flycatcher *(Contopus cooperi)*
Pacific lamprey *(Lampetra tridentata)*
Pacific Townsend's big-eared bat *(Corynorhinus townsendii townsendii)*
Peregrine falcon *(Falco peregrinus)*
River lamprey *(Lampetra ayresi)*
Slender-billed white-breasted nuthatch *(Sitta carolinensis aculeata)*
Tailed frog *(Ascaphus truei)*
Van Dyke's salamander *(Plethodon vandykei)*
Western gray squirrel *(Sciurus griseus griseus)*
Western toad *(Bufo boreas)*
Cimicifuga elata (tall bugbane)
Corydalis aquae-gelidae (Clackamas corydalis)
Lathyrus torreyi (Torrey's peavine) [historic]

ATTACHMENT B

SOCIOECONOMIC UPDATE REPORT

E. D. Hovee & Company, LLC

Economic and Development Services



MEMORANDUM

To:	Bibiana Alvarez, Associate Analytical Environmental Services
From:	Eric Hovee
Subject:	Statement of Adequacy for Cowlitz Casino FEIS Socioeconomic Documentation
Date:	April 10, 2013

At the request of Analytical Environmental Services (AES), this preliminary memorandum addressing adequacy of FEIS socioeconomic documentation has been prepared by the economic and development consulting firm E. D. Hovee & Company, LLC (EDH) over a time period from early 2005 to year-end 2008. With this report, the adequacy of previously provided EIS documentation is considered in terms of: a) changes in socioeconomic conditions in recent years; and b) resulting potential changes in observations and conclusions regarding affected socioeconomic environment and competitive effects to existing card room and tribal casino operations.

This update assumes that the proposed scope of the Cowlitz Casino remains substantially as described with the FEIS and associated documentation (including the subsequent Record of Decision – currently not in effect).[1]

The remainder of this memorandum is organized to address the following topics:

- Summary of adequacy of Cowlitz Casino FEIS socioeconomic documentation
- Socioeconomic analyses prepared in conjunction with the Cowlitz Casino EIS process
- Updated study area socioeconomic conditions
- Potential changes in affected socioeconomic environment
- Potential changes in competitive effects

Included as an Appendix to this memorandum are detailed data tables, as supplemental documentation for much of the discussion in this memorandum.

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SUMMARY ADEQUACY OF FEIS SOCIOECONOMIC DOCUMENTATION

As described with the introduction to this memorandum, the adequacy of previously provided EIS documentation is considered in terms of changes in socioeconomic conditions in recent years and resulting potential changes related to affected socioeconomic environment and competitive effects. Observations from this preliminary analysis are summarized as follows.

Changes in Socioeconomic Conditions. With this preliminary update, five initial data indicators are identified as useful to characterize socioeconomic conditions that may have changed in recent years since earlier analyses for the FEIS were prepared. These indicators are changes in population, housing costs, unemployment, incomes, and commute travel times.

The most significant (and previously unanticipated) changes since completion of EIS documentation are related to the economic recession and ensuing slow recovery. While regional population growth has been substantial, especially in primary study area communities closest to the proposed site of the Cowlitz Casino, the recession has served to moderate housing costs, increase unemployment, and reduce household income growth. Work commute times for area residents are also continuing to increase.

The effect of these changes should be to create added opportunity for the Cowlitz Casino to hire more of its personnel across a wide range of positions from the local area. While the degree to which this happens has not been estimated with this preliminary review, the result could be to reduce impacts that were previously estimated with documentation prepared for the FEIS.

Potential Changes in Affected Socioeconomic Environment. Changes to the affected socioeconomic environment flow directly from unanticipated economic conditions as described above. Population and housing effects may be reduced if more individuals are hired locally than previously anticipated. Income effects of the casino in real (inflation adjusted) dollars are not expected to be appreciably different from what was estimated in 2006.

While the Memorandum of Understanding (MOU) regarding compensation for public service costs and in lieu replacement of revenues associated with casino activities is no longer in effect, its provisions remain in place with the Environmental, Public Health and Safety (EPHS) tribal ordinance referenced by the FEIS, and subsequently, formally included as part of a new agreement between Clark County and the Cowlitz Tribe in 2009. Fiscal effects, land ownership and cumulative effects and mitigation measures remain similar to what were estimated before.

Potential Changes in Competitive Effects. National and regional gaming revenues were affected by the economic recession. Revenues associated with Oregon tribal casino have recovered to exceed pre-recession levels.[2] La Center card room revenues have not yet fully recovered and may continue to be impacted with or without the Cowlitz Casino.

No new entrants or departures of gaming operations in the market area that would be served by the Cowlitz Casino have been identified since the FEIS. With continued economic recovery and based on available gaming revenue data, conclusions regarding potential impacts and mitigation provided with the FEIS can be carried forward to 2013 with no apparent substantive change.

SOCIOECONOMIC ANALYSES WITH COWLITZ CASINO EIS PROCESS

As noted, EDH analyses conducted on behalf of AES and the U.S. Bureau of Indian Affairs (BIA) occurred over the early 2005 to year-end 2008 time frame. Primary documents included directly as part of or as referenced by the FEIS include:

- *Cowlitz Casino Project: Socioeconomic Assessment (Final Draft),* January 2006.
- *Cowlitz Casino Project: Post Development Review of Regional Gaming Facility Impacts,* December 2006.
- *Vader Site Market Viability & Market Competition Effects Study,* February 2007.
- *Spirit Mountain Market Competition Effects of the Proposed Cowlitz Tribe Casino (Final Draft),* March 2007.

EDH also prepared a variety of other draft memoranda and reports over the course of this time period including preliminary drafts of the socioeconomic assessment and other reports, review of updated growth management allocations, and response to public comments received as related to socioeconomics with respect to DEIS and FEIS documentation.

This review of adequacy is focused on those documents deemed most relevant and in the most complete form. As noted, this review also is organized to address questions regarding updated socioeconomic conditions followed by affected socioeconomic environment, potential changes in competitive effects, and summary observations regarding current adequacy of Cowlitz Casino FEIS socioeconomic documentation.

UPDATED STUDY AREA SOCIOECONOMIC CONDITIONS

As part of the January 2006 *Socioeconomic Assessment,* considerable data was compiled to portray existing socioeconomic conditions. While this updated review of adequacy focuses primarily on potential changes to the affected socioeconomic environment (or impacts), it is useful to briefly update information as to more current socioeconomic conditions. Items covered are those identified as potentially relevant and for which updated data is readily available.

These quantitative data points include study area conditions related to:

- Population
- Housing Costs
- Unemployment
- Incomes
- Commute Travel Time

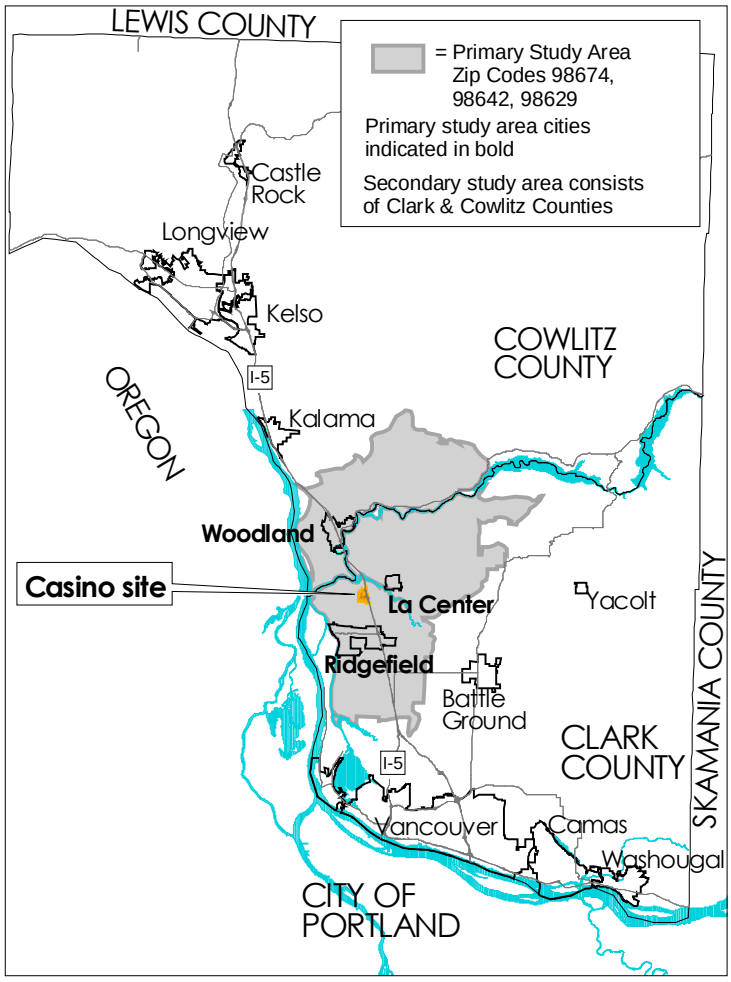
Updated information includes results of the now completed 2010 Census and corresponding American Community Survey (ACS), together with other more recent data sources as noted.

Primary & Secondary Study Areas. Before considering current conditions related to the above noted socioeconomic factors, it is useful to first describe the study areas for which socioeconomic data was compiled with the 2006 Socioeconomic Assessment. Primary and secondary study areas were defined as follows:

- *Primary study area* – comprising the La Center junction location of the proposed Casino Project together with the Cities of La Center and Ridgefield (both in Clark County), and Woodland (part Clark, primarily Cowlitz County), plus associated rural areas. The primary study area was intended to represent the area of most immediate impact.
- *Secondary study area* – encompassing all of Clark and Cowlitz Counties (including the primary study area). The radius of the secondary study area extends from the proposed project site to between 25 and 35 miles within the state of Washington. The bulk of the casino's labor force is expected to come from the secondary study area.

As defined, neither study area relates to casino customer draw, but rather to other topics of socioeconomic significance including casino employment and the casino's impact on housing and public service demand.

Socioeconomic Primary & Secondary Study Areas



Source: E. D. Hovee & Company, LLC, *Cowlitz Casino Project: Socioeconomic Assessment,* 2006.

With this overview update, population data is reported for the primary and secondary market areas as was the case with the 2006 Socioeconomic Assessment. For other data variables, the focus is on updating readily available information for the secondary study area of Clark and Cowlitz Counties. Primary study area information could also be updated, but as a more substantial undertaking beyond the scope of this initial update assessment.

What now follows are overview notes related to selected indicators of population, housing costs, unemployment, incomes, and commute travel times. Detailed supporting data tables are provided by the Appendix to this memorandum.

Population. At the time of the 2006 Socioeconomic Assessment, population estimates were provided for 1980, 1990, 2000, and 2004 for the primary study area communities of La Center, Ridgefield and Woodland, as well as for the two-county secondary study area. A 2023 forecast consistent with state-required Growth Management Act (GMA) planning was also provided for each of these geographies.

Three primary observations are of note with both actual population and GMA planning experience post-2004:

- Population growth from 2004 to 2010 (as the most recent decennial census) increased for the primary study area geographies at annual growth rates more rapidly than predicted with GMA planning to 2023. Overall secondary study area population increased at about the same rate as anticipated with then in place GMA and local jurisdiction comprehensive planning. *Note:* population growth was generally greater in the early part of this period than later, as population related effects of the recession were experienced.
- In September 2007 (after completion of the Socioeconomic Assessment), Clark County adjusted its GMA growth targets from an end year of 2023 to 2024. Population growth allocated for the primary study area communities in Clark County of La Center and Ridgefield was increased substantially, with lesser percentage increases in anticipated population growth countywide. No similar adjustments were made for Cowlitz County. Higher baseline growth means that added households associated with the Cowlitz Casino would represent a smaller percentage share of the resident population than was previously indicated through the EIS process.
- Due to the recession, the Washington State Legislature postponed the time frame for required Comprehensive Plan updates. Currently, Clark County is scheduled to update its Comprehensive Plan in 2016. Cowlitz County is exempt from full GMA requirements, mandated to conduct critical areas and resource lands planning only.

Housing Costs. While population has increased above what was previously anticipated – especially in primary study area incorporated communities, housing prices have slowed well below levels previously experienced. From 2000-04, the median sales price for the secondary study area was increasing at an average rate of 5.7% per year. Due to the effects of the subsequent recession, the average price increase for the full 2000-10 decade came in at the much lower pace of 2.0% per year, reflecting housing price reductions in the latter part of the decade.

Due to loss of jobs and home foreclosures, the rate of homeownership dropped from 2000-10, while renter-occupied housing increased as a percentage of the total. Homeownership still represents the majority (62%) of all housing in the two-county secondary study area, with rental occupancy at 32% and vacant units remaining relatively constant at 6% as of 2010.

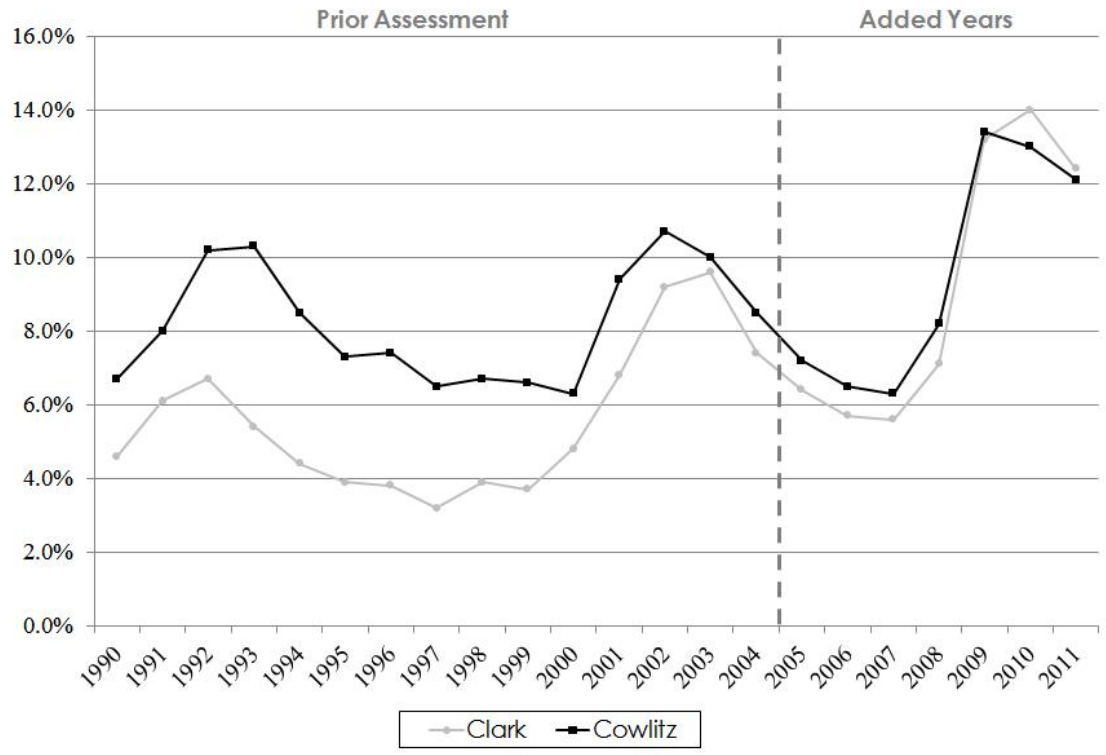
Apartment rental rates have not changed appreciably in recent years. While overall rents have declined somewhat in the Vancouver area, typical unit sizes have also shrunk, with per square foot rents rising by a modest 4-6%. Due to shifting demand toward rental properties, rental vacancies are somewhat lower in 2012 than they were in 2004, but still at vacancy levels indicating reasonable availability and unit turnover.

Socioeconomic implications of these changes for the Cowlitz Casino are essentially two-fold:

- For potential casino workers interested in owning a home, housing affordability is improved over what was anticipated pre-recession.
- For those workers seeking to rent, rental options are still reasonably available at affordable rates.

Unemployment. A major change both nationally and regionally that has occurred since the Socioeconomic Assessment and FEIS is the economic recession of 2007-09. For Clark and Cowlitz Counties, the economic effects were somewhat delayed, with unemployment rising rapidly in 2009. As illustrated by the following graph, annual average unemployment rates peaked for Cowlitz County in 2009 at 13.4% and for Clark County in 2010 at 14.0%.

Unemployment Trends in Clark and Cowlitz Counties (1990-2004)



Source: U.S. Department of Labor, Bureau of Labor Statistics.

While unemployment rates are now on the decline, it may be some time before unemployment gets back to pre-recession levels. If the Cowlitz Casino were to open while unemployment remains at high levels, there may be greater opportunity to hire locally for a wider range of

positions than was previously anticipated. More local hires would reduce the need for added housing and further reduce added demands for local service providers.

Incomes. After a substantial 48% increase in two-county median household incomes from 1990-2000, median incomes increased by only 9% in the most recent decade of 2000-10 (below the rate of inflation). The proportion of secondary study area households with incomes below poverty level increased from 9% to 13% from 2000-10. This provides another indicator of the importance of providing added employment opportunity at a wide range of job and salary levels as would be possible with the proposed Cowlitz Casino Project.

Commute Travel Time. A final indicator of changing workforce needs is indicated by Census Bureau data on commuting patterns and travel times. In 1990, a majority (51%) of workers residing in Clark and Cowlitz Counties commuted less than 20 minutes to work, with 49% experiencing commute times of 20+ minutes.

By 2000, the proportion commuting 20+ minutes had increased to 55% of resident workers. The most recent Census data indicates that the proportion of those experiencing long travel times again increased, to 60% of the resident workforce as of 2010.

This change in commute provides a larger potential supply of resident workers, than was previously the case, who may have an interest in shifting jobs to work closer to home. This would be a particular benefit for those workers currently facing long commutes, which can range up to an hour or more for those traveling from north Clark County or Cowlitz County across the Columbia River to an Oregon work location.

POTENTIAL CHANGES IN AFFECTED SOCIOECONOMIC ENVIRONMENT

Based on the review of existing conditions at the time, the 2006 *Socioeconomic Assessment* addressed potential socioeconomic effects of the proposed Cowlitz Casino Project for each of five project alternatives. Effects were considered for the following topics:

- Population & Demographics
- Housing
- Employment
- Incomes
- Community & Public Services
- Fiscal Conditions
- Land Ownership & Values

For each of the project alternatives, an evaluation was made for:

> *Direct Effects* – impacts created directly by the construction and/or operations as applicable.
>
> *Indirect Effects* – impacts caused by the action; these are later in time or further removed in distance, but foreseeable. For example, indirect employment could equal the number of jobs in non-casino related activities (e.g. retail and services) generated by increased employment, purchases and incomes resulting from the casino operation.

Total Effects – the sum of *direct* and *indirect* effects.

Whenever possible, effects were identified in quantitative or numerical terms (such as number of jobs, housing units or school students). Also covered was discussion of potential *cumulative effects* – defined as effects resulting from the incremental impact of an action when added to other past, present and reasonable foreseeable future actions, regardless of what entity (federal or non-federal) or person undertakes such other actions.

All effects were based on assumed building components of Cowlitz Casino alternatives – covering such items as building square footage by program feature and associated on-site parking. Assuming that the Alternatives remain essentially as described with the 2006 Socioeconomic Assessment and subsequent FEIS, the primary reasons for potential changes in effects from what was previously estimated would be attributable to changes in:

- *Direct effects* – involving potential changes since 2006 in construction or operating budgets or labor productivity affecting on-site employment (after adjusting for inflation), the extent to which local versus non-resident labor is utilized, location of new residents in or outside the primary and secondary study areas, and average family size (including children of affected employees).
- *Indirect (including induced) effects* – resulting from changes in economic multipliers that could arise if there is more or less spending by the Casino and/or its employees within the primary and secondary study areas than projected as a proportion of direct spending. Greater local spending impact could occur if a higher proportion of these business and household expenditures are made locally within the project study areas; lesser spending to the extent that the Casino and/or employees spend more outside the local area (as on the Oregon side of the Columbia River).

No appreciable changes in affected environment are indicated for any of the direct and indirect (including induced) effect categories noted. A summary overview of minor variations and topic-specific effects is provided as follows:

Population & Demographics. Population and demographics characteristics of casino construction and subsequent operational workers are not expected to materially change from what was anticipated with the FEIS.

Due to the recession and increases in study area unemployment, it is possible that a higher proportion of the labor force would be hired locally than was previously anticipated. If this were the case, it would reduce impacts associated with new in-migrants to the area. It is also possible that new residents could locate in different incorporated versus rural portions of the two-county study area, though there is no clear evidence to indicate that the residence location of new workers would change materially from what was previously estimated.

Housing. As was noted with the 2006 Socioeconomic Assessment: "Predicting the types and locations of housing needed is problematic because little relevant data is available to document the experience of existing casinos." The major change noted since 2006 has occurred with recessionary effects on housing vacancies and values.

Particularly for single-family housing, there may now be more vacancy (including with properties in foreclosure) coupled with greater affordability than was the case previously. This could mean that for at least the near-term future, more of the demand associated with in-migrants could be accommodated by existing housing rather than requiring new residential construction.

Labor Force & Employment. As previously noted, it is not expected that employment associated with the Casino alternatives would change appreciably from previous estimates, assuming that the development program associated with the Cowlitz Casino as previously proposed does not change significantly. Wage income would be greater than previously indicated due to inflation, but not substantially different in terms of wages adjusted for inflation (as real incomes).

As noted, higher unemployment in the two-county study area could result in greater opportunity for more local hiring, though this would be offset by previously noted assumptions for specialized personnel that may be expected to relocate from other areas with casino-related experience.

Incomes. In real (inflation adjusted) dollars, wage and resulting income levels are not expected to be appreciably different than what was estimated in 2006. This assumes that the occupational mix of on-site casino and related employment remains approximately as was previously estimated with each of the casino alternatives.

Community & Public Services. With the 2006 Socioeconomic Assessment and subsequent FEIS, it was noted that community and public service impacts could be largely mitigated due to the then in place Memorandum of Understanding (MOU) between the Cowlitz Indian Tribe and Clark County. As stated, the Agreement would "compensate the county law enforcement; prosecuting attorney, courts and schools and fire districts; and others who provide public services on the Tribe's trust lands."

The Socioeconomic Assessment noted that a potential effect of development on trust land would be increased school enrollment. This remains mitigated, in part, by school impact fees associated with new development and an MOU with the Ridgefield School District in the event that the Tribe constructs housing within the School District's geographic service area.

By the time of the 2008 FEIS, the Clark County MOU had been replaced by an Environmental, Public Health and Safety (EPHS) tribal ordinance which, among its provisions, obligated the Tribe to perform the mitigation measures included in the MOU, even if the MOU were be ultimately invalidated in litigation continuing at the time of the FEIS. Of greatest relevance to community and public services, the Tribe agreed to compensate Clark County on a biannual basis in lieu of property taxes for the removal of the property from the tax rolls, to collect and remit sales taxes on all non-Indian sales, and to make annual payments equivalent to the transient occupancy tax from non-Tribal members.

Subsequently, in April 2009, Clark County and the Cowlitz Tribe entered into a new agreement to formally rescind the 2004 MOU and to instead rely on the Tribe's EPHS Ordinance and Gaming Ordinance Amendment providing equivalent payments as envisioned by the MOU. At

this time, there is no agreement in place for the Tribe to provide mitigation to the City of La Center for potential lost tax revenue in that jurisdiction.

It is possible that enrollment effects could be somewhat less than previously estimated due to the continued overall aging of the population locally as well as nationally, with a trend in Clark County districts toward fewer students per household. The degree to which this trend is realized with the Casino will likely be related to the mix of younger versus older workforce hired.

Fiscal Effects. Two overall types of fiscal impact were noted with the 2006 Socioeconomic Assessment – effects on La Center card room related gaming taxes (considered with discussion of competitive effects later in this memorandum) and on other property, sales and hotel/motel taxes to affected local jurisdictions (considered here).

Property, sales and hotel/motel taxes would be generated in approximately the same amounts (or more with subsequent year inflation). This assumes that the MOU or similar agreement would continue to provide for payment of such revenues to affected state, county and local jurisdictions. Because the recession has affected local jurisdiction revenues and curtailed public services, the effect of this added tax revenue could be of greater significance to these jurisdictions now than would have otherwise been the case (in the absence of a recession not anticipated in 2006).

Land Ownership & Values. The passage of time since the FEIS is not expected to materially affect the value increase associated with redevelopment of properties acquired by the Cowlitz Tribe or effects of the Casino on land value increases to other properties in the surrounding area. However, as described with fiscal effects, the dollar value of added property value and resulting property taxes may be viewed as a more significant addition to state, county and other local jurisdiction revenues than previously, due to negative effects of the recession and slow recovery for government revenues.

Cumulative Effects. Cumulative effects were based on projects that, as of 2006, derived from the proposed alternatives together with known projects in planning and development phases. Major transportation projects identified with the Socioeconomic Assessment included a new interchange at I-5 and SR 502/219th Street and interchange modifications at the I-5 Ridgefield interchange including ramp widening and signalization. Both projects have now been completed.

Development projects identified included the Union Ridge 360-acre mixed industrial/commercial development located on both sides of the Ridgefield interchange, Timm Road Industrial Park/Ridgefield Commerce center west of the same interchange, and Bellwood Estates 35-acre single-family residential subdivision west of I-5 along Pioneer Street in Ridgefield. These development projects are in varied stages of implementation, even in the absence of Cowlitz Casino development to date.

Because development in the vicinity of the Ridgefield junction (as for the projects noted above) has occurred at a slower pace due to the recession than originally anticipated, the effect of the Cowlitz Casino Project coming on-line in the near-term could be to facilitate renewed development more in line with what was previously planned.

POTENTIAL CHANGES IN COMPETITIVE EFFECTS

As earlier noted, analysis was conducted in the the late 2006 to early 2007 time period to evaluate the potential competitive effects of the proposed Cowlitz Tribe Casino on other casinos in Southwest Washington and Northwest Oregon. A separate report was prepared to more specifically address potential effects to the Spirit Mountain casino in Grande Ronde, Oregon.

Affected Casino Baseline Revenues. A specific challenge that was noted with these late 2006 and early 2007 analyses related to the limited availability and lack of casino-specific information available for the tribal casino properties:

- For four operating card rooms in La Center, Washington (within the primary study area), revenue data has been available annually from the Washington State Gaming Commission. Gross receipts of $37.3 million for 2005 were noted from this public agency data source, with revenue data also reported for individual card room properties.
- Because public agency data is not available for tribal casino revenues in Oregon, information was obtained from two private sources. Data compiled by ECONorthwest indicated that nine tribal casinos generated $419.6 million in gaming revenues in 2004 and $459.7 million in 2005. A second source used with EDH estimates comes from Meetings West, indicating tribal gaming revenue at an estimated $495.0 million for 2005.

  Note: 2005 estimates from ECONorthwest were not yet available during the time frame that the Socioeconomic Assessment and competitive effects analyses were prepared. Also noted is that this data does not appear to be readily subject to independent verification of audited results.
- No published data source was identified to provide estimates of gaming revenue specific to each individual Oregon tribal casino. As noted in EDH documentation, casino specific revenue estimates were based on Meetings West data indicating that 80% of revenues are derived from video lottery terminals (VLTs), pro-rated across all VLTs in the state.

Consistent with the data issues noted above, the gaming revenue data for affected card room facilities in Washington state was viewed as highly reliable. The estimates for Oregon tribal casinos remain subject to a potentially greater range of variability – both in terms of total statewide and individual facility revenues.[3]

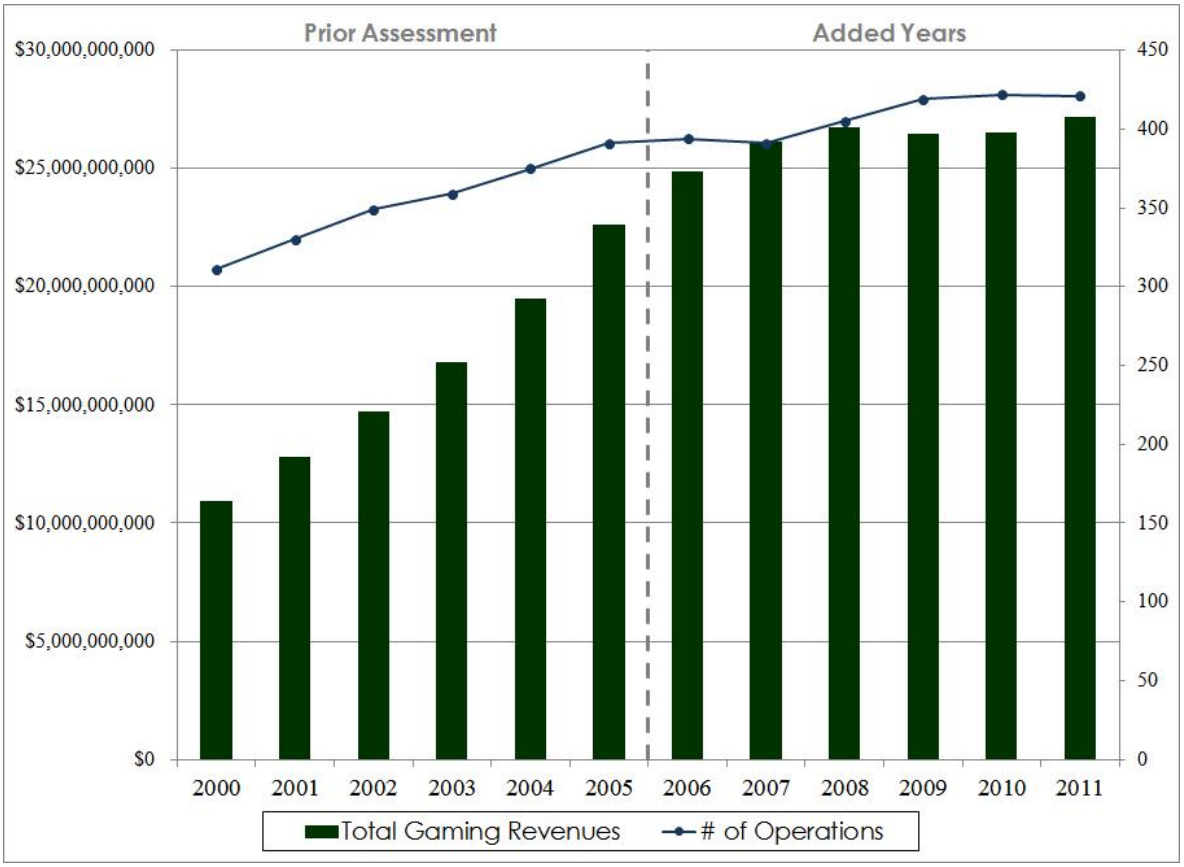
However, even with variability in Oregon tribal casino revenue estimates, the overall assessment about the types and ranges of impacts remains a reasonable indicator of potential effects. A more precise estimate of impacts would be dependent on voluntary reporting of casino specific revenues which has not occurred to date. This added disclosure would be particularly useful to better refine estimates of potential effects to the Spirit Mountain facility which is in closest proximity to the proposed Cowlitz Tribal Casino.

Recent Changes in Tribal Gaming Revenues Nationwide. A pivotal part of this update review is to identify changes in conditions since the time of the 2006 Socioeconomic Assessment

and related gaming documents and gauge whether the conclusions reached then remain reasonable expectations in 2013. Of particular importance has been the effect of the recession and prolonged recovery, affecting gaming revenues both nationally and regionally.

Data regarding trends in national tribal gaming operations and revenues were provided with the late 2006/early 2007 Spirit Mountain competitive effects reports covering the 2000-05 time period. This dataset has been updated through 2011, as depicted by the following graph.

National Tribal Gaming Operations & Revenues (2000-2011)



Source: National Indian Gaming Commission.

This chart illustrates tribal gaming revenues nationally increased at a relatively fast pace in the first half of the last decade – more than doubling from 2000-05. The number of tribal casinos in operation across the U.S. also increased, by more than 25% during this time period.

From 2006-11, tribal gaming revenues have continued to increase, but at a much lower rate than earlier in the decade. With the recession, gaming revenues actually declined by about 1% from 2008-09, but revenues have increased in all other years.

Overall, tribal gaming revenues nationally have increased by 20% from 2005-11. The number of casino operations has also increased by about 8% during this time period. As revenue gains have outpaced openings of new facilities, average revenues per casino have also increased since 2005.

Changes in Oregon Tribal Casino Revenues. While facility-specific data remains unavailable, ECONorthwest has published updated estimates of Oregon Indian gaming revenues, most recently for 2011. Tribal casino revenues are estimated at $467.0 million for 2011. This represents a less than 2% increase in ECONorthwest's 2005 estimate of $459.7 million in statewide tribal casino revenues.

While the growth in tribal casino revenues statewide has been below that experienced nationally, the number of VLTs within Oregon's casinos has continued to increase at a fairly rapid rate. As of 2011, nine Oregon tribal casinos had 7,469 VLTs, an increase of 25% from the number of VLTs indicated with prior EDH reports for 2005.

Reasons for slower tribal casino revenue growth in Oregon than what has been experienced nationally are not entirely clear. Factors that appear to be involved include depth and duration of the recession in Oregon (especially outside the Portland metro area) and competition from other gaming options including the Oregon lottery.

The most recent ECONorthwest report notes that Oregon's protracted recession led to the "worst string of high unemployment in nearly 30 years" which particularly affected rural counties outside the Portland metro area.[4] Also noted is that the tribal casino share of the Oregon gaming market in 2011 was somewhat below that indicated for 2005, though this market share can vary from year to year.

There is no data to definitively determine the degree to which casinos such as Spirit Mountain, which are closer to the Portland metro area, have been affected as compared with tribal casinos in more remote parts of the state. However, as the metro area has fared better than the rest of the state through the recession and subsequent recovery, casinos more proximate to Portland such as Spirit Mountain (at Grand Ronde) and Chinook Winds (in Lincoln City) would appear to have better opportunity for stronger revenue growth than casinos situated elsewhere statewide.

Changes for La Center Card Room Revenues. Washington State Gambling Commission data indicates that gross receipts for four La Center card rooms totaled $31.6 million as of 2011. This represents an approximately 15% reduction from the $37.3 million in gross receipts experienced as of 2005.

As with Oregon tribal casinos, detailed reasons for this change are not immediately apparent. Reasons could include the economic downturn, which was more severe for Clark and Cowlitz Counties than the Oregon side of the metro region, competition from other gaming alternatives, and changing patron preferences.

As the State of Washington provides facility specific revenue figures, it is also noted that card room revenues have not changed uniformly for all four operators. One card room (The Palace) experienced a nearly 35% revenue gain between 2005 and 2011, while the other three operators have reported declining revenues.

Competitive Effects of the Proposed Cowlitz Casino. Major observations as to potential effects from the two pertinent reports prepared in 2006/07 can be summarized as follows:

- From a 2006 review of four tribal casinos and one community with card rooms (noted with the *Post Development Review of Regional Gaming Facility Impacts)*, it appeared that land use, development and demographic effects of opening gaming operations have been relatively modest based on experience observed as of the time of the FEIS. Job, income and housing effects tend to be relatively dispersed, and community facility and service needs (including law enforcement) related to gaming operations do not appear to have been a major issue for any of the five communities surveyed.
- Since the metro region has market potential to support at least one added casino (as concluded by the report *Spirit Mountain Market Competition Effects of the Proposed Cowlitz Tribe Casino),* the proposed Cowlitz casino would not be expected to significantly affect long-term operations of existing gaming facilities serving the Southwest Washington/Northwest Oregon gaming market – including the existing Spirit Mountain facility.

  Short-term revenue effects could be possible – specifically including a potential 13% loss of gross revenue compared to the then current (2005) Spirit Mountain revenues – as measured in 2005 dollars and assuming a 2011 Cowlitz Casino opening date. However, assuming appropriate re-positioning of existing properties, "the size of the current and anticipated market indicates that there is and should be room to absorb the proposed Cowlitz Casino without substantial long-term adverse effects to existing gaming operations serving Southwest Washington and Northwest Oregon including Spirit Mountain."[5]

Potential Changes in Competitive Effects. Based on this review of EIS related documentation, it is possible to now more directly address the question of whether prior conclusions about competitive effects change materially from what was concluded with the 2006/07 analyses. There are two primary factors that could be considered as possible reasons to alter the substantive conclusions of the prior analyses:

- *Potential change in the competitive gaming operations deemed as most likely to be affected by the proposed Cowlitz Casino.* This does not appear to be the case as there have been no exits of existing gaming facilities or entries of new casino operations since these earlier analyses were completed – on either side of the Columbia River. And no change is suggested for the market area that would be most likely served by a Cowlitz Casino.
- *Potential change due to effects of the recession and subsequent economic recovery.* As this update report documents, the recession clearly affected gaming revenues nationally and regionally. However, reported tribal casino revenues in Oregon now exceed pre-recession levels. To the extent that the tribal casino most proximate to the proposed Cowlitz Casino benefits disproportionately from a location closer to the Portland metro area, revenue gains may be even greater for the Spirit Mountain operation than for other Oregon casinos further removed from the state's major metro market.

  In effect, the new baseline of estimated Oregon statewide tribal casino revenues (as of 2011) appears to be back to about what was earlier estimated as of 2005. Assuming a continued (if not accelerated) economic recovery, the assumptions provided with the FEIS can be carried forward to 2013 with no apparent substantive change.

The most significant remaining question on the table relates to estimation of baseline revenues directly attributable to the Spirit Mountain casino. This outstanding question could be most effectively resolved with a mutually agreed mechanism for revenue disclosure; otherwise, there is no readily apparent reason to change the analysis methodology as previously applied.

For the La Center card rooms, conditions may have changed as the card rooms have yet to return to pre-recession revenues (estimated as of 2005). However, the fact that one La Center card room has experienced substantial revenue gains while others have lost revenues suggests that there are also may be other competitive or customer preference factors involved, in addition to changes in overall economic conditions. As was considered through the EIS process, a potential remedy would be for mitigation of potential lost tax revenues. Because the City of La Center is now collecting less tax revenue than what was earlier anticipated, the impact of a new Cowlitz Casino project could be expected to be no greater if not less that what was earlier estimated and described with EIS documentation.

APPENDIX. SUPPLEMENTAL DATA TABLES

With the following tables, data items indicated by gray shading represent updates to information that was initially provided by previous socioeconomic and gaming analyses conducted by EDH over the 2005-2008 time period.

Population Trends and Forecast (1980-2024)

Year(s)	La Center	Ridgefield	Woodland	Primary Area	Secondary Area
1980	439	1,062	2,415	NA	271,775
1990	451	1,297	2,500	17,761	320,172
2000	1,654	2,147	3,780	28,663	438,186
2004	1,990	2,195	4,140	34,517	478,600
2023 GMA/Plan	3,440	11,477	7,959	NA	650,150
2010	2,800	4,763	5,509	NA	527,773
2024 Adj GMA	8,008	26,032	NA	NA	See note
Average Annual Growth Rate					
1980-1990	0.3%	2.0%	0.3%	NA	1.7%
1990-2000	13.9%	5.2%	4.2%	4.9%	3.2%
2000-2004	4.7%	0.6%	2.3%	4.8%	2.2%
Forecast 2004-2023	2.9%	9.1%	3.5%	NA	1.6%
2004-2010	5.9%	13.8%	4.9%	NA	1.6%
Forecast 2004-2024	7.2%	13.2%	NA	NA	NA

Notes: Census data was not collected at the zip code level prior to 1990. Forecasts for La Center and Ridgefield are for Urban Growth Areas rather than city boundaries (as are current and past population counts); therefore growth rates reported are higher than projected for the city itself. City projections are not calculated within Clark County. Population forecasts were adjusted to 2024 for Clark but not Cowlitz County. The revised 2007 GMA projection for Clark County is 584,310 residents by 2024, as compared with the earlier GMA projection for Clark County of 517,741 residents by 2023.

Source: U.S. Census Bureau, Washington Office of Finance and Management, *Clark County Comprehensive Plan 2004-2024* adopted September 2007, E.D. Hovee & Company, LLC.

Average Home Sales Price (December 2004, December 2012)

	December 2004				
Area	Median Sales Price	New Listings	Closed Sales	Census 2000 Median Value	Average Annual Appreciation
Clark County	$189,000	11,444	8,474	$156,600	4.8%
Cowlitz County	$145,000	514	244	$129,900	2.8%
	$187,769	11,958	8,718	$150,703	5.7%
	December 2012				
Area	Median Sales Price	New Listings	Closed Sales	Census 2000 Median Value	Average Annual Appreciation
Clark County	$194,500	7,353	5,462	$156,600	1.8%
Cowlitz County	$136,500	661	310	$129,900	0.4%
	$191,385	8,014	5,772	$150,703	2.0%

Source: RMLS Market Action, December 2004 & 2012. Price appreciation is calculated from 2000 U.S. Census base figures.

Secondary Study Area Housing Occupancy (2000-2010)

			2000-2010	
	2000	2010	Net Growth	Chg % Distrib
Total Housing Units:	172,654	210,863	38,209	
Occupied	94%	94%	35,285	0%
Owner-occupied	64%	62%	20,677	-2%
Renter-occupied	31%	32%	14,608	1%
Vacant	6%	6%	2,924	0%

Source: U.S. Census Bureau.

Vancouver Apartment Statistics (Summer 2004, Spring 2012)

		Survey Average			
Date	Location	Rent	Square Feet (SF)	Rent/SF	Vacancy
Summer 2004	Vancouver	$818	998	$0.82	5.70%
Spring 2012	West Vancouver	$785	938	$0.85	3.48%
	East Vancouver	$798	933	$0.87	4.67%

Source: The Millette Rask Report Spring/Summer 2004; Metro Multifamily Housing Association, *The Apartment Report - Spring 2012*.

Unemployment Trends in Clark & Cowlitz Counties (1990-2012)

Year	Clark	Cowlitz
1990	4.6%	6.7%
1991	6.1%	8.0%
1992	6.7%	10.2%
1993	5.4%	10.3%
1994	4.4%	8.5%
1995	3.9%	7.3%
1996	3.8%	7.4%
1997	3.2%	6.5%
1998	3.9%	6.7%
1999	3.7%	6.6%
2000	4.8%	6.3%
2001	6.8%	9.4%
2002	9.2%	10.7%
2003	9.6%	10.0%
2004	7.4%	8.5%
2005	6.4%	7.2%
2006	5.7%	6.5%
2007	5.6%	6.3%
2008	7.1%	8.2%
2009	13.2%	13.4%
2010	14.0%	13.0%
2011	12.4%	12.1%

Source: U.S. Department of Labor, Bureau of Labor Statistics.
Annual average date not yet available for 2012.

Secondary Study Area Household Income Trends (1990-2010)

Household Income Range	1990	2000	2010
<$15,000	22%	12%	12%
$15,000-$24,999	18%	11%	9%
$25,000-$34,999	18%	12%	10%
$35,000-$49,999	21%	19%	15%
$50,000-$74,999	16%	23%	22%
>$75,000	7%	22%	31%
Total	100%	100%	100%
Median HH Income	$29,833	$44,087	$47,989
Households Below Poverty Level	10%	9%	13%

Source: U.S. Census Bureau.

Secondary Study Area Travel Time to Work (1990-2010)

				Net Change	
Travel Time to Work	**1990**	**2000**	**2010**	**1990-2000**	**2000-2010**
Less than 20 minutes	51%	45%	40%	16,725	-3,772
20 - 40 minutes	35%	37%	39%	24,211	9,409
More than 40 minutes	11%	14%	16%	13,706	5,627
Worked at home	3%	4%	5%	3,730	3,419

Source: U.S. Census Bureau.

National Tribal Gaming Operations & Revenues (2000-2011)

Year	Total Gaming Revenues	# of Operations	% Change from Prior Yr
2000	$10,958,690,000	311	
2001	$12,822,346,000	330	17.0%
2002	$14,717,662,000	349	14.8%
2003	$16,826,382,000	359	14.3%
2004	$19,479,134,000	375	15.8%
2005	$22,629,575,000	391	16.2%
2006	$24,889,022,000	394	10.0%
2007	$26,143,472,000	391	5.0%
2008	$26,738,826,000	405	2.3%
2009	$26,482,447,000	419	-1.0%
2010	$26,502,533,000	422	0.1%
2011	$27,153,807,000	421	2.5%

Source: U.S. Census Bureau.

END NOTES

[1] Information for this report has been obtained from sources generally deemed to be reliable. However, E. D. Hovee & Company, LLC (EDH) does not guarantee the accuracy of information from third party sources. All information is subject to change without notice.

All findings, opinions and conclusions contained in this memorandum are those of EDH. They should not be construed as representing the opinion of any other party without their express approval, whether in whole or part.

[2] Source is Robert Whelan and Carsten Jensen, ECONorthwest, *The Contributions of Indian Gaming to Oregon's Economy in 2011 and 2010,* prepared for the Oregon Tribal Gaming Alliance, December 14, 2012.

[3] Application of statewide average revenues per VLT mean that casino-specific revenues would be underestimated for casinos experiencing above average VLT productivity (in terms of revenues per VLT) while revenues would be overestimated for casinos with below average VLT productivity.

[4] Source is Robert Whelan and Carsten Jensen, ECONorthwest, *The Contributions of Indian Gaming to Oregon's Economy in 2011 and 2010,* prepared for the Oregon Tribal Gaming Alliance, December 14, 2012.

[5] From E. D. Hovee & Company, LLC, *Spirit Mountain Market Competition Effects of the Proposed Cowlitz Tribe Casino,* March 2007.

ATTACHMENT C

TRAFFIC UPDATE REPORT

KITTELSON & ASSOCIATES, INC.
TRANSPORTATION ENGINEERING / PLANNING
610 SW Alder Street, Suite 700, Portland, OR 97205 P 503.228.5230 F 503.273.8169

MEMORANDUM – STATEMENT OF ADEQUACY

Date: April 9, 2013

Project #: 13497

To: Bibiana Alvarez
Analytical Environmental Services
1801 7th Street, Suite 100
Sacramento, CA 95811

From: Marc Butorac, P.E., PTOE, Hermanus Steyn, P.E., Chris Brehmer, P.E.
Project: Cowlitz Reservation Development
Subject: Statement of Adequacy for Transportation Elements of Final Environmental Impact Statement (EIS) – May 2008

This memorandum was prepared to serve as the Statement of Adequacy for the transportation elements of the Final Environmental Impact Statement (EIS), submitted in May 2008 for the Cowlitz Indian Tribe Trust Acquisition and Casino Project. The Bureau of Indian Affairs (BIA) is seeking reissuance for the Record of Decision (ROD), which was previously established for the project in December 2010. The reissuance of the ROD requires a review of adequacy of technical material, for which the original ROD was based upon. This memorandum summarizes the review that was conducted by Kittelson & Associates, Inc. (KAI) of the cited technical materials to determine if a reissued ROD can adequately rely on this information to support the transportation elements of the Final EIS.

EIS TRANSPORTATION REVIEW MATERIAL

There are five sections in the EIS that address transportation and circulation. These sections document existing transportation conditions, assumptions used in developing future conditions analysis, evaluation of the project's impacts to the surrounding transportation network, and recommended mitigation measures. Documentation for these transportation sections of the EIS were developed from the traffic studies entitled:

- Final Cowlitz Indian Tribe Casino Project Traffic Impact Study (included in Appendix T in the Draft EIS), dated February 2006.
- Cowlitz Indian Tribe Casino Project Traffic Impact Study – Supplemental Report (included in Appendix O of the Final EIS), dated December 2006.

- Draft Interchange Justification Report (IJR), prepared for the Interstate 5 (I-5) interchange with La Center Road (included in Appendix P of the Final EIS) dated December 2006.

The bullets below overview key transportation elements of the 2008 EIS:

- Section 3.8 – Affected Environment – Transportation/Circulation
  - Describes local roadways surrounding the project site.
  - Provides assessment of the existing conditions and operations of local roadways and 22 study intersections.
  - Provides a description of transportation policies for Washington Department of Transportation (WSDOT) and Clark County. Level-of-service (LOS) D or better is cited as the performance requirement for all study intersections.
  - Presents applicable design requirements for WSDOT and Clark County, including access management requirements and roadway standards. The WSDOT requirements are based on the 2003 WSDOT Design Manual.
- Section 4.15 – Environmental Consequences – Cumulative Effects
  - Evaluates the environmental impacts resulting from the incremental effect of the Proposed Action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes such actions. One of the resources requiring specific attention within the EIS is traffic and the transportation network.
  - Provides a list of planned or in-process transportation and development projects that could cause cumulative impacts. Several of the planned public infrastructure improvement projects have since been constructed, including the recently completed I-5/Ridgefield interchange and multiple roundabouts along Pioneer Street (SR 501) in Ridgefield.
- Section 4.16 – Environmental Consequences – Unavoidable Adverse Effects
  - This section summarizes the unavoidable adverse environmental effects that would result from the development of the project alternatives on transportation/circulation.
- Section 4.8 – Environmental Consequences – Transportation/Circulation
  - This section identifies and discusses impacts to the transportation network anticipated under each alternative.
  - Summarizes and highlights the detailed traffic studies.
- Section 5.2.7 – Mitigation Measures – Transportation/Circulation
  - Summarizes mitigation measures for each Alternative, as recommended in the traffic studies.

TRAFFIC STUDY REVIEW MATERIAL

The February 2006 traffic study titled *Final Cowlitz Indian Tribe Casino Project Traffic Impact Study* was prepared to evaluate the traffic impacts of the various site alternatives on the surrounding road system for the build-out year 2010, and recommend mitigation measures. A separate analysis for the planning horizon year 2030 was undertaken as part of the draft IJR.

The supplemental December 2006 traffic study titled *Cowlitz Indian Tribe Casino Project Traffic Impact Study – Supplemental Report* comprehensive information responded to comments received on the Draft EIS and sought to provide a conservative, "worst case" analysis of the potential impacts. Additional data was collected and meetings conducted to ensure the supplemental report was addressing all comments and concerns.

The *Draft IJR for the I-5/La Center Road Interchange* was prepared to provide documentation of the assessment and results of long-term traffic growth and potential solutions at the interchange. A horizon year of 2030 was selected to satisfy Federal Highway Administration (FHWA) requirements that the design year be 20 years after the planned opening or completion of improvements. The IJR recommends six improvements for the interchange area, including lengthening/widening the ramps, widening the bridge structure to four lanes, and eventually adding an additional travel lane on I-5 between the La Center interchange and Ridgefield interchange.

TRAFFIC STUDIES' KEY ASSUMPTIONS, STANDARDS, AND METHODS

This section provides a general description of the traffic studies' standards employed in evaluation, methods used for analysis, and key assumptions used to develop future traffic conditions; and whether they remain adequate. These are organized four major categories as discussed below:

Development Assumptions

- The traffic was premised on a build-out year of 2010.
- Trip generation methodology: The traffic studies apply a casino trip rate that was developed based on a study of twelve other casinos and empirical data collected at three additional casinos. The studies also account for additional trips from a hotel, retail, event center, and RV park under the preferred alternative.
- The trip distribution used assumes the majority of trips arriving from and going to the south. One percent of trips were distributed to La Center and northeast Clark County, and another one percent to the Pekin Ferry area.

Performance Standards

- The traffic impact studies were required to meet Clark County Guidelines for Traffic Impact Studies (*Clark County Traffic Impact Study Guidelines*, January 25, 1995) as well as the Cowlitz Casino Traffic Impact Study Methodology (Parsons Brinckerhoff, April 2005).
- The *Clark County Concurrency Administrative Manual* (March 2001) was consulted for applicable traffic impact analysis procedures. There were no County-modeled concurrency corridors within the immediate vicinity of the Build alternatives. Consequently, impacted intersections of regional significance were evaluated as required per County Concurrency review practice. The only location that is being studied that is part of concurrency corridor is the SR-502 (219th Street) intersection with NE 10th Avenue.
- A minimum LOS D intersection standard was applied to all study intersections pursuant to the Memorandum of Understanding (MOU) between the Tribe and Clark County, dated March 2, 2004.
    - A minimum LOS D is consistent with today's standards for the City of La Center.
    - Clark County Code (CCC) section 40.350.020.G.c: currently requires all signalized intersections of regional significance located outside of designated transportation corridors to achieve LOS D standards or better, except the intersections of SR-500/Falk Road and SR-500/NE 54th Avenue which shall achieve LOS E standards or better. CCC Section 40.350.020.G.d stipulates all unsignalized intersections of regional significance in the unincorporated County shall achieve LOS E standards or better (if warrants are not met). If warrants are met, unsignalized intersections of regional significance shall achieve LOS D standards or better.
    - Based on RCW 47.06.140(2), current WSDOT standards for state highways of significant (HSS) are LOS C for rural facilities and LOS D for urban facilities. Due to expected future growth, WSDOT currently is requiring LOS C in the near-termand LOS D in the long-term on the I-5 mainline.
- Traffic software was used to track project-related trips and the level-of-service and mitigation analysis used a Synchro model with Highway Capacity Manual (HCM) (2000) reporting. Freeway operations were analyzed using Corism and Synchro/SimTraffic.
    - Current WSDOT standards require HCM 2010 be appliedwhich generates relatively similar level of magnitude results to the previous HCM 2000.
- FHWA procedures under the National Environmental Policy Act (NEPA) require studying proposed transportation improvements for a horizon year 20 years beyond completion and opening of the proposed improvements. Analysis was provided for a 2030 horizon year for Alternatives A and D as they generate the highest trip generation at the I-5/La Center interchange.

- The Cowlitz Indian Tribe Casino Project Traffic Impact Study – Supplemental Report evaluated 23 intersections for each build alternative and one no-build alternative.
- For the Cowlitz Indian Tribe Casino Project Traffic Impact Study – Supplemental Report, traffic conditions were assessed for the weekday AM and PM peak hours, and the Saturday peak hour based on the traffic counts collected in 2005. For the draft IJR, the AM and Saturday peak hours are not reported; instead the study focuses on the weekday PM peak hour.

Growth Assumptions

- **Background Traffic Growth**: Growth projections were developed for arterials and collectors using then-current Southwest Washington Regional Transportation Council (RTC) model data based on the adopted comprehensive plan. Two percent growth per year was used for I-5.
    - The use of RTC model data to develop background traffic volume projections is a standard industry practice for projects in the study area.
    - Traffic growth since the preparation of the FEIS in the vicinity of the interchange as measured at the interchange terminals has been approximately 1.0 to 1.5 percent per year which equal or less than the 2.0 to 2.5 percent growth rate assumed in the FEIS (shown in the table below). As such, the project growth rates within the FEIS remain adequate.

Count Year	AM Peak Hour TEV	PM Peak Hour TEV
2005[A]	960	1067
2012[B]	1058	1144
Average Annual Growth Rate (2005-2012)	1.5%	1.0%

A – Based on the traffic counts in Figures 3.8-4 and 3.8-6 of the FEIS.
B – Based on year 2012 traffic counts

- **In-process Developments:** developments accounted for in the studies include Union Ridge Development, Specht Development, Bellwood Heights.
    - Subsequent to the TIS and IJR report preparation, additional developments consistent with the comprehensive plan have been approved since 2008 including the KWRL Bus Facility in La Center and multiple developments in Ridgefield. For long-term analysis purposes, these developments are consistent with the annual background growth assumptions in the FEIS.

Improvement Assumptions

- Transportation Improvements assumed include a new interchange at I-5 and SR-502/NE 219th Street; a new improvement at the I-5/Ridgefield interchange; roundabout on SR-501 (Pioneer Street) in Ridgefield; and the extension of Pioneer Street from 65th Avenue east into the Union Ridge project with a new traffic signal at the Pioneer Street/65th Avenue intersection.
    - The assumed improvements have been constructed, though with a roundabout constructed at Pioneer Street/65th Avenue in lieu of a traffic signal. The roundabout provides capacity and safety provisions consistent with the future improvement assumptions in the FEIS.

ADEQUACY OF REVIEW MATERIAL

The technical material used to inform the EIS on transportation and circulation related topics were developed in accordance with all applicable standards and policies at the time of its preparation. The traffic impact studies relied upon in the FEIS addressed the requirements of Clark County, WSDOT, and the FHWA Guidelines. In addition, a Cowlitz Casino Traffic Impact Study Methodology and a Memorandum of Understanding was developed prior to preparation of the Traffic Impact Study in coordination with Clark County.

Table 1 provides a summary of the key elements associated with the EIS and related traffic studies compared to the current conditions and requirements within the project area.

Table 1 Summary of Comparison

	EIS and Related Traffic Studies	Current Requirements	Comments/Key Differences
Development Assumptions	Build-out year is 2010 Trip generation for casino based on square footage.	N/A	As long as the level of site development proposed remains less than or equivalent to the original FEIS assumptions, the FEIS findings should remain adequate.
Performance Standards	20-year horizon year is 2030 LOS D or better used for all study intersections. Traffic study includes weekday AM peak hour, weekday PM peak hour, and Saturday peak hour. Interchange Justification Report includes weekday PM peak hour.	LOS C or better required on freeway mainline and merge/diverge locations per WSDOT for short-term analysis, LOS D for long-term analysis.	EIS and related traffic studies used on a LOS D or better performance requirement for the I-5 mainline, while current WSDOT standards require LOS C for the I-5 mainline operations in the near term (build-out year). These differences will not change the findings of the FEIS mainline segment analyses
Growth Assumptions	RTC model data used to develop future traffic volume projections. In-process developments include Union Ridge Development, Specht Development, Bellwood Heights.	Subsequently approved developments consistent with the comprehensive plan include the KWRL Bus Facility in La Center and additional in-process developments in Ridgefield.	The Supplemental Traffic Impact Study documented efforts made to be conservative with assumptions used in developing future conditions analysis. Since the assumed FEIS in-process development and subsequent development since the preparation of the FEIS is consistent with the comprehensive plan and the projected growth is equal or greater than that experienced today, the Supplemental Traffic Impact Study can be adequately relied upon in the reissuance of the ROD.
Improvement Assumptions	New interchange at I-5 and SR-502/NE 219th Street; Interchange modification at the I-5/Ridgefield interchange; Roundabout on SR-501 (Pioneer Street) in Ridgefield; Extension of Pioneer Street from 65th Avenue into Union Ridge with signal at Pioneer/65th Avenue	All improvements assumed in EIS complete (with substitution of a roundabout at the Pioneer/65th Avenue intersection in lieu of a traffic signal).	The traffic study documents relied upon in the FEIS incorporate then-known transportation improvement projects which have been built and thus remain adequate to rely upon.. No additional improvements are now planned.

CONCLUSIONS

Based on our review the *May 2008 FEIS for the Cowlitz Indian Tribe Trust Acquisition and Casino Project* and understanding of current transportation system in the vicinity of the project area, we have determined that the key assumptions made, standards employed, and methods used to develop the findings within the Final EIS remain adequate. For these reasons, the technical material cited herein and used to inform the transportation elements of the FEIS remain adequate for reissuance. As a result, no additional transportation impacts nor any additional improvements beyond those previously addressed in the FEIS are needed.

ATTACHMENT D

EDR REPORT

Cowlitz FTT
3500 NW 319th St
Ridgefield, WA 98642

Inquiry Number: 3558997.1s
March 27, 2013

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

3500 NW 319TH ST
RIDGEFIELD, WA 98642

COORDINATES

Latitude (North):	45.8519000 - 45° 51' 6.84''
Longitude (West):	122.7081000 - 122° 42' 29.16''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	522663.4
UTM Y (Meters):	5077416.5
Elevation:	265 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	45122-G6 RIDGEFIELD, WA
Most Recent Revision:	1990

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2011
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL---------- National Priority List

EXECUTIVE SUMMARY

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

CERCLIS ---------- Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls
LUCIS ---------- Land Use Control Information System

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Facility Database

State and tribal leaking storage tank lists

LUST ---------- Leaking Underground Storage Tanks Site List
INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST ---------- Aboveground Storage Tank Locations
INDIAN UST ---------- Underground Storage Tanks on Indian Land
FEMA UST ---------- Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

INST CONTROL ---------- Institutional Control Site List

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

VCP ---- Voluntary Cleanup Program Sites
ICR ---- Independent Cleanup Reports

State and tribal Brownfields sites

BROWNFIELDS ---- Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI ---- Open Dump Inventory
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
SWRCY ---- Recycling Facility List
SWTIRE ---- Solid Waste Tire Facilities
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ---- Clandestine Drug Labs
CDL ---- Clandestine Drug Lab Contaminated Site List
HIST CDL ---- List of Sites Contaminated by Clandestine Drug Labs
US HIST CDL ---- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
SPILLS ---- Reported Spills

Other Ascertainable Records

RCRA NonGen / NLR ---- RCRA - Non Generators
DOT OPS ---- Incident and Accident Data
DOD ---- Department of Defense Sites
FUDS ---- Formerly Used Defense Sites
CONSENT ---- Superfund (CERCLA) Consent Decrees
ROD ---- Records Of Decision
UMTRA ---- Uranium Mill Tailings Sites
US MINES ---- Mines Master Index File
TRIS ---- Toxic Chemical Release Inventory System
TSCA ---- Toxic Substances Control Act
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
SSTS ---- Section 7 Tracking Systems
ICIS ---- Integrated Compliance Information System

PADS PCB Activity Database System
MLTS Material Licensing Tracking System
RADINFO Radiation Information Database
FINDS Facility Index System/Facility Registry System
RAATS RCRA Administrative Action Tracking System
RMP Risk Management Plans
UIC Underground Injection Wells Listing
MANIFEST Hazardous Waste Manifest Data
DRYCLEANERS Drycleaner List
NPDES Water Quality Permit System Data
AIRS Washington Emissions Data System
Inactive Drycleaners Inactive Drycleaners
INDIAN RESERV Indian Reservations
SCRD DRYCLEANERS State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR Financial Assurance Information
EPA WATCH LIST EPA WATCH LIST
PRP Potentially Responsible Parties
US AIRS Aerometric Information Retrieval System Facility Subsystem
2020 COR ACTION 2020 Corrective Action Program List
PCB TRANSFORMER PCB Transformer Registration Database
COAL ASH DOE Steam-Electric Plant Operation Data
COAL ASH EPA Coal Combustion Residues Surface Impoundments List
COAL ASH Coal Ash Disposal Site Listing
Financial Assurance Financial Assurance Information Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS

sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 02/05/2013 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CIRCLE C LDFL	31313 PARADISE PARK RD	ESE 1/4 - 1/2 (0.357 mi.)	B4	12

State- and tribal - equivalent NPL

HSL: The Hazardous Sites List is a subset of the CSCSL Report. It includes sites which have been assessed and ranked using the Washington Ranking Method (WARM).

A review of the HSL list, as provided by EDR, and dated 08/23/2012 has revealed that there is 1 HSL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KOCH TRACTOR	***3000 NW 309TH ST***	***SE 1/2 - 1 (0.636 mi.)***	***5***	***13***
Facility Type: Hazardous Sites List				

State- and tribal - equivalent CERCLIS

CSCSL: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Ecology's Confirmed & Suspected Contaminated Sites List.

A review of the CSCSL list, as provided by EDR, and dated 01/22/2013 has revealed that there is 1 CSCSL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KOCH TRACTOR	***3000 NW 309TH ST***	***SE 1/2 - 1 (0.636 mi.)***	***5***	***13***

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Ecology's Statewide UST Site/Tank Report.

A review of the UST list, as provided by EDR, and dated 02/08/2013 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
STEENSON BOATS	*3306 NW 319TH ST*	*E 1/8 - 1/4 (0.162 mi.)*	*A1*	*7*

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

ALLSITES: Information on facilities and sites of interest to the Department of Ecology.

A review of the ALLSITES list, as provided by EDR, and dated 11/06/2012 has revealed that there are 3 ALLSITES sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CIRCLE C LANDFILL	*31313 PARADISE PARK RD*	*ESE 1/4 - 1/2 (0.357 mi.)*	*B3*	*10*

Lower Elevation	Address	Direction / Distance	Map ID	Page
STEENSON BOATS	*3306 NW 319TH ST*	*E 1/8 - 1/4 (0.162 mi.)*	*A1*	*7*
UNITED SALVAGE	*3306 NW 319TH ST*	*E 1/8 - 1/4 (0.162 mi.)*	*A2*	*9*

CSCSL NFA: The data set contains information about sites previously on the Confirmed and Suspected Contaminated Sites list that have received a No Further Action (NFA) determination. Because it is necessary to maintain historical records of sites that have been investigated and cleaned up, sites are not deleted from the database when cleanup activities are completed. Instead a No Further Action code is entered based upon the type of NFA determination the site received.

A review of the CSCSL NFA list, as provided by EDR, and dated 01/22/2013 has revealed that there are 2 CSCSL NFA sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CIRCLE C LANDFILL	*31313 PARADISE PARK RD*	*ESE 1/4 - 1/2 (0.357 mi.)*	*B3*	*10*

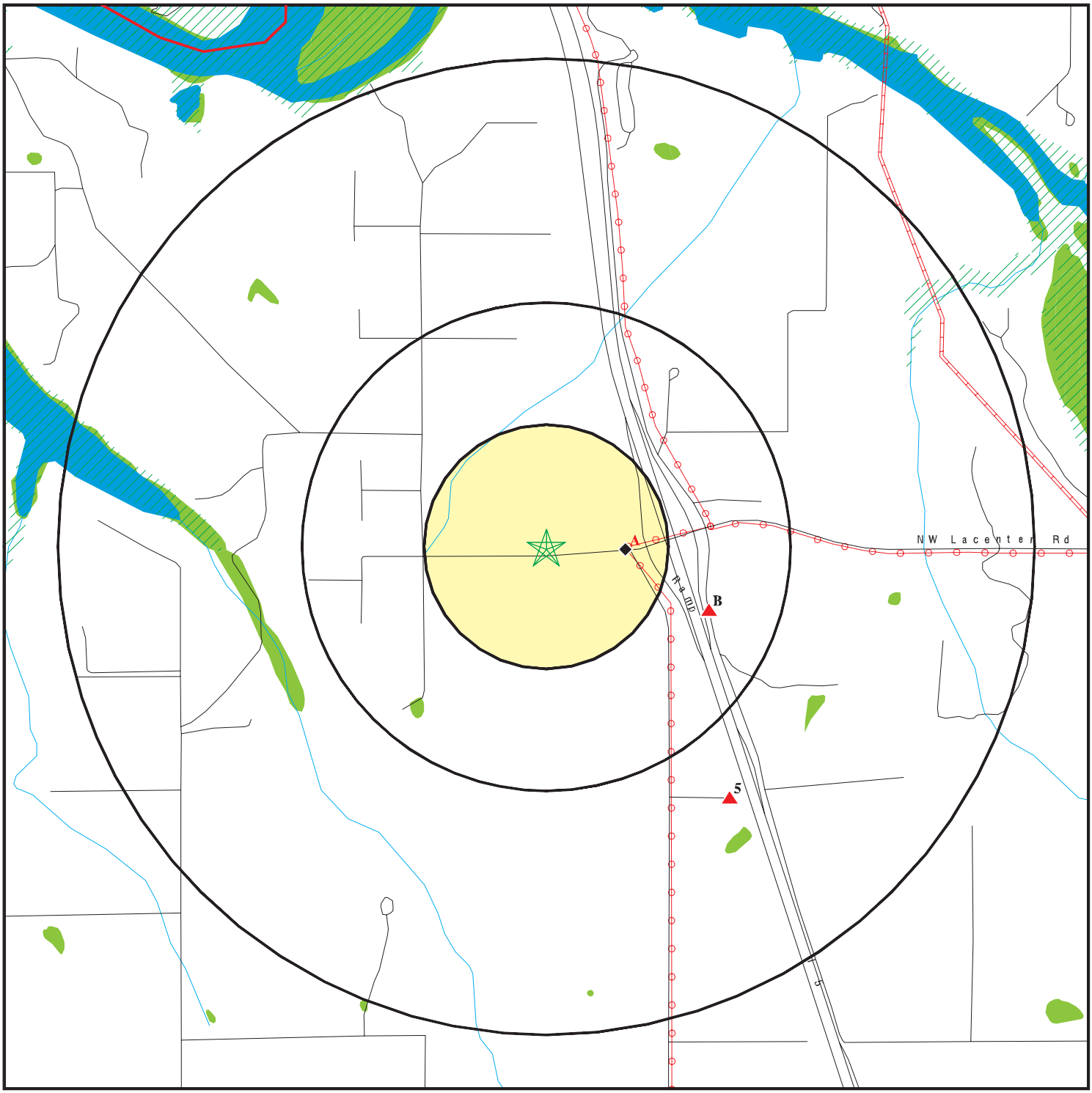
Lower Elevation	Address	Direction / Distance	Map ID	Page
UNITED SALVAGE	*3306 NW 319TH ST*	*E 1/8 - 1/4 (0.162 mi.)*	*A2*	*9*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
WSDOT I5 LEWIS RIVER BRIDGE	ALLSITES
CAMP BONNEVILLE FORMER BRAC SITE	CERCLIS

OVERVIEW MAP - 3558997.1s



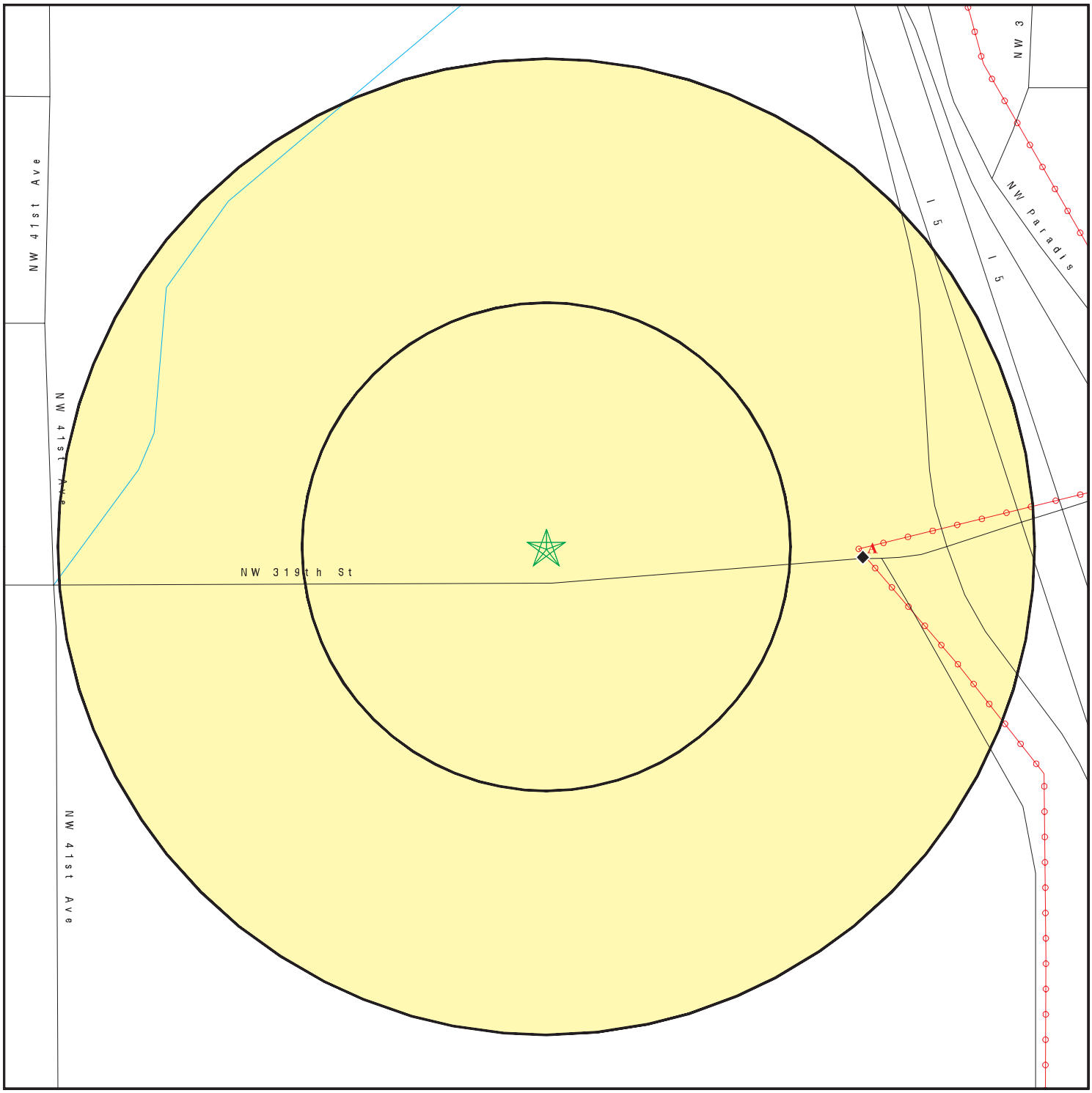
0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Cowlitz FTT	CLIENT:	Analytical Environmental Serv.
ADDRESS:	3500 NW 319th St Ridgefield WA 98642	CONTACT:	David Sawyer
		INQUIRY #:	3558997.1s
LAT/LONG:	45.8519 / 122.7081	DATE:	March 27, 2013 2:17 pm

DETAIL MAP - 3558997.1s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone

0 1/16 1/8 1/4 Miles

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Cowlitz FTT	CLIENT:	Analytical Environmental Serv.
ADDRESS:	3500 NW 319th St Ridgefield WA 98642	CONTACT:	David Sawyer
LAT/LONG:	45.8519 / 122.7081	INQUIRY #:	3558997.1s
		DATE:	March 27, 2013 2:18 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	1	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
HSL	1.000		0	0	0	1	NR	1
State- and tribal - equivalent CERCLIS								
CSCSL	1.000		0	0	0	1	NR	1
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
ICR	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
ALLSITES	0.500		0	2	1	NR	NR	3
CSCSL NFA	0.500		0	1	1	NR	NR	2
CDL	TP		NR	NR	NR	NR	NR	0
HIST CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
Inactive Drycleaners	0.250		0	0	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
East
1/8-1/4
0.162 mi.
856 ft.

STEENSON BOATS
3306 NW 319TH ST
RIDGEFIELD, WA 98642

Site 1 of 2 in cluster A

ALLSITES **U003352641**
UST **N/A**

Relative:
Lower

Actual:
259 ft.

ALLSITES:

Facility Id:	59326429
Latitude:	45.8516139
Longitude:	-122.67712
Ecology Interest Type Code:	UST
Facility ID:	59326429
Facility Company:	STEENSON BOATS
Interaction:	I
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	101371
Date Interation:	11/15/1991
Date Interation 3:	11/15/1991
ESRI OID:	106102

UST:

Facility ID:	59326429
Site Id:	101371
Decimal Latitude:	45.851613999999998
Decimal Longitude:	-122.677128
UBI:	6016205990010001
Phone Number:	2066872159
Tank Name:	1
Tank Upgrade Date:	Not reported
Tank Install Date:	00/31/1964
Tank Status:	Removed
Tank Status Date:	08/06/1996
Tank Permit Expiration Date:	Not reported
Tank Closure Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Not reported
Tank Construction:	Not reported
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Tag Number:	Not reported
Responsible Unit:	SOUTHWEST
Capacity Range:	Not reported
Dispencer/Pump SFC Type:	Not reported

STEENSON BOATS (Continued) **U003352641**

Tank Name:	2
Tank Upgrade Date:	Not reported
Tank Install Date:	00/31/1964
Tank Status:	Removed
Tank Status Date:	08/06/1996
Tank Permit Expiration Date:	Not reported
Tank Closure Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Not reported
Tank Construction:	Not reported
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Tag Number:	Not reported
Responsible Unit:	SOUTHWEST
Capacity Range:	Not reported
Dispencer/Pump SFC Type:	Not reported

Tank Name:	3
Tank Upgrade Date:	Not reported
Tank Install Date:	00/31/1964
Tank Status:	Removed
Tank Status Date:	08/06/1996
Tank Permit Expiration Date:	Not reported
Tank Closure Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Not reported
Tank Construction:	Not reported
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Tag Number:	Not reported
Responsible Unit:	SOUTHWEST
Capacity Range:	Not reported
Dispencer/Pump SFC Type:	Not reported

Tank Name:	4

STEENSON BOATS (Continued) **U003352641**

Tank Upgrade Date:	Not reported
Tank Install Date:	00/31/1964
Tank Status:	Removed
Tank Status Date:	08/06/1996
Tank Permit Expiration Date:	Not reported
Tank Closure Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Not reported
Tank Construction:	Not reported
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Tag Number:	Not reported
Responsible Unit:	SOUTHWEST
Capacity Range:	111 TO 1,100 Gallons
Dispencer/Pump SFC Type:	Not reported

A2 **UNITED SALVAGE** **ALLSITES** **S104971461**
East **3306 NW 319TH ST** **CSCSL NFA** **N/A**
1/8-1/4 **LA CENTER, WA 98642**
0.162 mi.
856 ft. **Site 2 of 2 in cluster A**

Relative:
Lower

Actual:
259 ft.

ALLSITES:

Facility Id:	1070
Latitude:	45.85183
Longitude:	-122.70522
Ecology Interest Type Code:	VOLCLNST
Facility ID:	1070
Facility Company:	UNITED SALVAGE
Interaction:	I
Interaction 1:	VOLCLNST
Interaction 2:	Voluntary Cleanup Sites
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	UNITED SALVAGE
Program ID:	Not reported
Date Interation:	07/05/1995
Date Interation 3:	07/05/1995
ESRI OID:	3291
Facility/Site Interaction T:	1993
Geographic Location Identifier (Alias Facid):	1070
Interaction (Aka Env Int) Type Code:	VOLCLNST
Interaction (Aka Env Int) Description:	Voluntary Cleanup Sites
Interaction Status:	I
Federal Program Indentifier:	Not reported
Interaction Start Date:	07/05/1995
Interaction End Date:	07/10/1997

UNITED SALVAGE (Continued) **S104971461**

prgm_facil: UNITED SALVAGE
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

CSCSL NFA:
Facility/Site Id: 1070
CS Id: 3267
NFA Date: 07/10/1997
Rank: Not reported
VCP: No
Latitude: 45.85183
Longitude: -122.70522

B3 **CIRCLE C LANDFILL** **ALLSITES** **1000174237**
ESE **31313 PARADISE PARK RD** **CSCSL NFA** **N/A**
1/4-1/2 **RIDGEFIELD, WA 98642**
0.357 mi.
1887 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
268 ft.

ALLSITES:
Facility Id: 1014
Latitude: 45.84807
Longitude: -122.70022
Ecology Interest Type Code: UST
Facility ID: 1014
Facility Company: CIRCLE C LANDFILL
Interaction: I
Interaction 1: SCS
Interaction 2: State Cleanup Site
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: CIRCLE C LANDFILL
Program ID: Not reported
Date Interation: 03/01/1988
Date Interation 3: 03/01/1988
ESRI OID: 3065

Facility ID: 1014
Facility Company: CIRCLE C LANDFILL
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 2193
Date Interation: 06/08/1998
Date Interation 3: 06/08/1998
ESRI OID: 3066

Facility/Site Interaction T: 1810
Geographic Location Identifier (Alias Facid): 1014
Interaction (Aka Env Int) Type Code: SCS
Interaction (Aka Env Int) Description: State Cleanup Site
Interaction Status: I
Federal Program Indentifier: Not reported

CIRCLE C LANDFILL (Continued) **1000174237**

Interaction Start Date:	03/01/1988
Interaction End Date:	03/19/2004
prgm_facil:	CIRCLE C LANDFILL
cur_sys_pr:	TOXICS
cur_sys_nm:	ISIS

Facility/Site Interaction T:	1811
Geographic Location Identifier (Alias Facid):	1014
Interaction (Aka Env Int) Type Code:	UST
Interaction (Aka Env Int) Description:	Underground Storage Tank
Interaction Status:	I
Federal Program Indentifier:	2193
Interaction Start Date:	06/08/1998
Interaction End Date:	03/22/2000
prgm_facil:	Not reported
cur_sys_pr:	TOXICS
cur_sys_nm:	ISIS

Facility Id:	1014
Latitude:	45.84807
Longitude:	-122.70022
Ecology Interest Type Code:	SCS
Facility ID:	1014
Facility Company:	CIRCLE C LANDFILL
Interaction:	I
Interaction 1:	SCS
Interaction 2:	State Cleanup Site
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	CIRCLE C LANDFILL
Program ID:	Not reported
Date Interation:	03/01/1988
Date Interation 3:	03/01/1988
ESRI OID:	3065

Facility ID:	1014
Facility Company:	CIRCLE C LANDFILL
Interaction:	I
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	2193
Date Interation:	06/08/1998
Date Interation 3:	06/08/1998
ESRI OID:	3066

Facility/Site Interaction T:	1810
Geographic Location Identifier (Alias Facid):	1014
Interaction (Aka Env Int) Type Code:	SCS
Interaction (Aka Env Int) Description:	State Cleanup Site
Interaction Status:	I
Federal Program Indentifier:	Not reported
Interaction Start Date:	03/01/1988
Interaction End Date:	03/19/2004

CIRCLE C LANDFILL (Continued) **1000174237**

prgm_facil: CIRCLE C LANDFILL
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility/Site Interaction T: 1811
Geographic Location Identifier (Alias Facid): 1014
Interaction (Aka Env Int) Type Code: UST
Interaction (Aka Env Int) Description: Underground Storage Tank
Interaction Status: I
Federal Program Indentifier: 2193
Interaction Start Date: 06/08/1998
Interaction End Date: 03/22/2000
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

CSCSL NFA:
Facility/Site Id: 1014
CS Id: 3678
NFA Date: 04/01/2004
Rank: 1
VCP: No
Latitude: 45.84807
Longitude: -122.70022

B4 **CIRCLE C LDFL** **CERC-NFRAP** **1003880415**
ESE **31313 PARADISE PARK RD** **WAD980639975**
1/4-1/2 **RIDGEFIELD, WA 98642**
0.357 mi.
1887 ft. **Site 2 of 2 in cluster B**

Relative:
Higher

Actual:
268 ft.

CERC-NFRAP:
Site ID: 1000917
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: PARADISE PARK DUMP SITE
Alias Address: Not reported
WA

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: / /
Date Completed: 06/04/81
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 08/04/88
Priority Level: Not reported

Action: SITE INSPECTION
Date Started: 07/01/88

CIRCLE C LDFL (Continued) **1003880415**

Date Completed: 08/04/88
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: PRELIMINARY ASSESSMENT
Date Started: 12/16/87
Date Completed: 12/22/87
Priority Level: Higher priority for further assessment

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5 **KOCH TRACTOR** **CSCSL** **S109344457**
SE **3000 NW 309TH ST** **ALLSITES** **N/A**
1/2-1 **RIDGEFIELD, WA 98642** **HSL**
0.636 mi.
3359 ft.

Relative:
Higher

Actual:
276 ft.

CSCSL:
Facility ID: 1061
Region: Southwest
Lat/Long: 45.84478 / -122.70023
Brownfield Status: Not reported
Rank Status: 3
Clean Up Siteid: 3785
Site Status: Awaiting Cleanup
PSI?: Not reported
Contaminant Name: Halogenated Organics
Ground Water: S
Surface Water: Not reported
Soil: S
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Southwest

Facility ID: 1061
Region: Southwest
Lat/Long: 45.84478 / -122.70023
Brownfield Status: Not reported
Rank Status: 3
Clean Up Siteid: 3785
Site Status: Awaiting Cleanup
PSI?: Not reported
Contaminant Name: Metals Priority Pollutants
Ground Water: S
Surface Water: Not reported
Soil: C
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Southwest

Facility ID: 1061
Region: Southwest
Lat/Long: 45.84478 / -122.70023
Brownfield Status: Not reported
Rank Status: 3
Clean Up Siteid: 3785
Site Status: Awaiting Cleanup
PSI?: Not reported
Contaminant Name: Non-Halogenated Solvents

KOCH TRACTOR (Continued) **S109344457**

Ground Water:	S
Surface Water:	Not reported
Soil:	S
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Southwest
Facility ID:	1061
Region:	Southwest
Lat/Long:	45.84478 / -122.70023
Brownfield Status:	Not reported
Rank Status:	3
Clean Up Siteid:	3785
Site Status:	Awaiting Cleanup
PSI?:	Not reported
Contaminant Name:	Petroleum Products-Unspecified
Ground Water:	S
Surface Water:	Not reported
Soil:	S
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Southwest

ALLSITES:

Facility Id:	1061
Latitude:	45.84478
Longitude:	-122.70023
Ecology Interest Type Code:	HWG
Facility ID:	1061
Facility Company:	KOCH TRACTOR
Interaction:	A
Interaction 1:	SCS
Interaction 2:	State Cleanup Site
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	KOCH TRACTOR
Program ID:	Not reported
Date Interation:	12/10/1992
Date Interation 3:	12/10/1992
ESRI OID:	3260
Facility ID:	1061
Facility Company:	KOCH TRACTOR
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD055975478
Date Interation:	10/03/1986
Date Interation 3:	10/03/1986
ESRI OID:	3261
Facility ID:	1061

KOCH TRACTOR (Continued) **S109344457**

Facility Company:	KOCH TRACTOR
Interaction:	I
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	602
Date Interation:	06/08/1998
Date Interation 3:	06/08/1998
ESRI OID:	3262

Facility/Site Interaction T:	1962
Geographic Location Identifier (Alias Facid):	1061
Interaction (Aka Env Int) Type Code:	SCS
Interaction (Aka Env Int) Description:	State Cleanup Site
Interaction Status:	A
Federal Program Indentifier:	Not reported
Interaction Start Date:	12/10/1992
Interaction End Date:	Not reported
prgm_facil:	KOCH TRACTOR
cur_sys_pr:	TOXICS
cur_sys_nm:	ISIS

Facility/Site Interaction T:	1963
Geographic Location Identifier (Alias Facid):	1061
Interaction (Aka Env Int) Type Code:	HWG
Interaction (Aka Env Int) Description:	Hazardous Waste Generator
Interaction Status:	I
Federal Program Indentifier:	WAD055975478
Interaction Start Date:	10/03/1986
Interaction End Date:	12/31/1996
prgm_facil:	Not reported
cur_sys_pr:	HAZWASTE
cur_sys_nm:	TURBOWASTE

Facility/Site Interaction T:	1964
Geographic Location Identifier (Alias Facid):	1061
Interaction (Aka Env Int) Type Code:	UST
Interaction (Aka Env Int) Description:	Underground Storage Tank
Interaction Status:	I
Federal Program Indentifier:	602
Interaction Start Date:	06/08/1998
Interaction End Date:	03/22/2000
prgm_facil:	Not reported
cur_sys_pr:	TOXICS
cur_sys_nm:	ISIS

Facility Id:	1061
Latitude:	45.84478
Longitude:	-122.70023
Ecology Interest Type Code:	SCS
Facility ID:	1061
Facility Company:	KOCH TRACTOR
Interaction:	A
Interaction 1:	SCS

KOCH TRACTOR (Continued) **S109344457**

Interaction 2:	State Cleanup Site
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	KOCH TRACTOR
Program ID:	Not reported
Date Interation:	12/10/1992
Date Interation 3:	12/10/1992
ESRI OID:	3260
Facility ID:	1061
Facility Company:	KOCH TRACTOR
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD055975478
Date Interation:	10/03/1986
Date Interation 3:	10/03/1986
ESRI OID:	3261
Facility ID:	1061
Facility Company:	KOCH TRACTOR
Interaction:	I
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	602
Date Interation:	06/08/1998
Date Interation 3:	06/08/1998
ESRI OID:	3262
Facility/Site Interaction T:	1962
Geographic Location Identifier (Alias Facid):	1061
Interaction (Aka Env Int) Type Code:	SCS
Interaction (Aka Env Int) Description:	State Cleanup Site
Interaction Status:	A
Federal Program Indentifier:	Not reported
Interaction Start Date:	12/10/1992
Interaction End Date:	Not reported
prgm_facil:	KOCH TRACTOR
cur_sys_pr:	TOXICS
cur_sys_nm:	ISIS
Facility/Site Interaction T:	1963
Geographic Location Identifier (Alias Facid):	1061
Interaction (Aka Env Int) Type Code:	HWG
Interaction (Aka Env Int) Description:	Hazardous Waste Generator
Interaction Status:	I
Federal Program Indentifier:	WAD055975478
Interaction Start Date:	10/03/1986
Interaction End Date:	12/31/1996
prgm_facil:	Not reported
cur_sys_pr:	HAZWASTE

KOCH TRACTOR (Continued) **S109344457**

cur_sys_nm: TURBOWASTE

Facility/Site Interaction T: 1964
Geographic Location Identifier (Alias Facid): 1061
Interaction (Aka Env Int) Type Code: UST
Interaction (Aka Env Int) Description: Underground Storage Tank
Interaction Status: I
Federal Program Indentifier: 602
Interaction Start Date: 06/08/1998
Interaction End Date: 03/22/2000
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility Id: 1061
Latitude: 45.84478
Longitude: -122.70023
Ecology Interest Type Code: UST
Facility ID: 1061
Facility Company: KOCH TRACTOR
Interaction: A
Interaction 1: SCS
Interaction 2: State Cleanup Site
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: KOCH TRACTOR
Program ID: Not reported
Date Interation: 12/10/1992
Date Interation 3: 12/10/1992
ESRI OID: 3260

Facility ID: 1061
Facility Company: KOCH TRACTOR
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD055975478
Date Interation: 10/03/1986
Date Interation 3: 10/03/1986
ESRI OID: 3261

Facility ID: 1061
Facility Company: KOCH TRACTOR
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 602
Date Interation: 06/08/1998
Date Interation 3: 06/08/1998
ESRI OID: 3262

KOCH TRACTOR (Continued) **S109344457**

Facility/Site Interaction T:	1962
Geographic Location Identifier (Alias Facid):	1061
Interaction (Aka Env Int) Type Code:	SCS
Interaction (Aka Env Int) Description:	State Cleanup Site
Interaction Status:	A
Federal Program Indentifier:	Not reported
Interaction Start Date:	12/10/1992
Interaction End Date:	Not reported
prgm_facil:	KOCH TRACTOR
cur_sys_pr:	TOXICS
cur_sys_nm:	ISIS

Facility/Site Interaction T:	1963
Geographic Location Identifier (Alias Facid):	1061
Interaction (Aka Env Int) Type Code:	HWG
Interaction (Aka Env Int) Description:	Hazardous Waste Generator
Interaction Status:	I
Federal Program Indentifier:	WAD055975478
Interaction Start Date:	10/03/1986
Interaction End Date:	12/31/1996
prgm_facil:	Not reported
cur_sys_pr:	HAZWASTE
cur_sys_nm:	TURBOWASTE

Facility/Site Interaction T:	1964
Geographic Location Identifier (Alias Facid):	1061
Interaction (Aka Env Int) Type Code:	UST
Interaction (Aka Env Int) Description:	Underground Storage Tank
Interaction Status:	I
Federal Program Indentifier:	602
Interaction Start Date:	06/08/1998
Interaction End Date:	03/22/2000
prgm_facil:	Not reported
cur_sys_pr:	TOXICS
cur_sys_nm:	ISIS

HSL:

edr_fstat:	WA
edr_fzip:	Not reported
edr_fcnty:	CLARK
edr_zip:	Not reported
Facility Type:	**Hazardous Sites List**
Facility Status:	Awaiting Cleanup
FSID Number:	1061
Rank:	3
Region:	SW

Count: 2 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CLARK COUNTY	1015732108	CAMP BONNEVILLE FORMER BRAC SITE	T3N R3E SEC 34, 35		CERCLIS
RIDGEFIELD	S112209514	WSDOT I5 LEWIS RIVER BRIDGE	5 MP 1983	98642	ALLSITES

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/04/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 10/09/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/11/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/08/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 29

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

State- and tribal - equivalent NPL

HSL: Hazardous Sites List

The Hazardous Sites List is a subset of the CSCSL Report. It includes sites which have been assessed and ranked using the Washington Ranking Method (WARM).

Date of Government Version: 08/23/2012
Date Data Arrived at EDR: 09/13/2012
Date Made Active in Reports: 10/17/2012
Number of Days to Update: 34

Source: Department of Ecology
Telephone: 360-407-7200
Last EDR Contact: 03/12/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Semi-Annually

State- and tribal - equivalent CERCLIS

CSCSL: Confirmed and Suspected Contaminated Sites List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 01/22/2013
Date Data Arrived at EDR: 01/24/2013
Date Made Active in Reports: 02/04/2013
Number of Days to Update: 11

Source: Department of Ecology
Telephone: 360-407-7200
Last EDR Contact: 01/24/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facility Database

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/13/2012
Date Made Active in Reports: 10/18/2012
Number of Days to Update: 35

Source: Department of Ecology
Telephone: 360-407-6132
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks Site List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/21/2012
Date Made Active in Reports: 02/06/2013
Number of Days to Update: 77

Source: Department of Ecology
Telephone: 360-407-7183
Last EDR Contact: 02/21/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2012
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/09/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 62
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 02/08/2013
Date Data Arrived at EDR: 02/08/2013
Date Made Active in Reports: 02/19/2013
Number of Days to Update: 11
Source: Department of Ecology
Telephone: 360-407-7183
Last EDR Contact: 02/08/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Locations
A listing of aboveground storage tank locations regulated by the Department of Ecology's Spill Prevention, Preparedness and Response Program.

Date of Government Version: 05/14/2012
Date Data Arrived at EDR: 05/15/2012
Date Made Active in Reports: 06/05/2012
Number of Days to Update: 21

Source: Department of Ecology
Telephone: 360-407-7562
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 07/16/2012
Number of Days to Update: 75

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Institutional Control Site List

Sites that have institutional controls.

Date of Government Version: 11/13/2012
Date Data Arrived at EDR: 11/15/2012
Date Made Active in Reports: 11/21/2012
Number of Days to Update: 6

Source: Department of Ecology
Telephone: 360-407-7170
Last EDR Contact: 11/15/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

ICR: Independent Cleanup Reports

These are remedial action reports Ecology has received from either the owner or operator of the sites. These actions have been conducted without department oversight or approval and are not under an order or decree. This database is no longer updated by the Department of Ecology.

Date of Government Version: 12/01/2002
Date Data Arrived at EDR: 01/03/2003
Date Made Active in Reports: 01/22/2003
Number of Days to Update: 19

Source: Department of Ecology
Telephone: 360-407-7200
Last EDR Contact: 08/10/2009
Next Scheduled EDR Contact: 11/09/2009
Data Release Frequency: No Update Planned

VCP: Voluntary Cleanup Program Sites
Sites that have entered either the Voluntary Cleanup Program or its predecessor Independent Remedial Action Program.

Date of Government Version: 10/23/2012
Date Data Arrived at EDR: 10/26/2012
Date Made Active in Reports: 11/21/2012
Number of Days to Update: 26
Source: Department of Ecology
Telephone: 360-407-7200
Last EDR Contact: 01/23/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites Listing
A listing of brownfields sites included in the Confirmed & Suspected Sites Listing. Brownfields are abandoned, idle or underused commercial or industrial properties, where the expansion or redevelopment is hindered by real or perceived contamination. Brownfields vary in size, location, age, and past use -- they can be anything from a five-hundred acre automobile assembly plant to a small, abandoned corner gas station.

Date of Government Version: 01/22/2013
Date Data Arrived at EDR: 01/24/2013
Date Made Active in Reports: 02/04/2013
Number of Days to Update: 11
Source: Department of Ecology
Telephone: 360-725-4030
Last EDR Contact: 01/24/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 9
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/26/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Recycling Facility List
A llisting of recycling center locations.

Date of Government Version: 11/16/2012
Date Data Arrived at EDR: 11/21/2012
Date Made Active in Reports: 02/04/2013
Number of Days to Update: 75
Source: Department of Ecology
Telephone: 360-407-6105
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

SWTIRE: Solid Waste Tire Facilities
This study identified sites statewide with unauthorized accumulations of scrap tires.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 03/16/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 28
Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 03/15/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/14/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 66
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Quarterly

ALLSITES: Facility/Site Identification System Listing
Information on facilities and sites of interest to the Department of Ecology.

Date of Government Version: 11/06/2012
Date Data Arrived at EDR: 12/04/2012
Date Made Active in Reports: 12/10/2012
Number of Days to Update: 6
Source: Department of Ecology
Telephone: 360-407-6423
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Quarterly

CSCSL NFA: Confirmed and Contaminated Sites - No Further Action
The data set contains information about sites previously on the Confirmed and Suspected Contaminated Sites list that have received a No Further Action (NFA) determination. Because it is necessary to maintain historical records of sites that have been investigated and cleaned up, sites are not deleted from the database when cleanup activities are completed. Instead, a No Further Action code is entered based upon the type of NFA determination the site received.

Date of Government Version: 01/22/2013
Date Data Arrived at EDR: 01/24/2013
Date Made Active in Reports: 02/06/2013
Number of Days to Update: 13
Source: Department of Ecology
Telephone: 360-407-7170
Last EDR Contact: 01/24/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Semi-Annually

CDL: Clandestine Drug Lab Contaminated Site List
Illegal methamphetamine labs use hazardous chemicals that create public health hazards. Chemicals and residues can cause burns, respiratory and neurological damage, and death. Biological hazards associated with intravenous needles, feces, and blood also pose health risks.

Date of Government Version: 02/09/2009
Date Data Arrived at EDR: 03/18/2009
Date Made Active in Reports: 03/24/2009
Number of Days to Update: 6
Source: Department of Health
Telephone: 360-236-3380
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

HIST CDL: List of Sites Contaminated by Clandestine Drug Labs
This listing of contaminated sites by Clandestine Drug Labs includes non-remediated properties. The current CDL listing does not. This listing is no longer updated by the state agency.

Date of Government Version: 02/08/2007
Date Data Arrived at EDR: 06/26/2007
Date Made Active in Reports: 07/19/2007
Number of Days to Update: 23
Source: Department of Health
Telephone: 360-236-3381
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012
Date Data Arrived at EDR: 03/26/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

SPILLS: Reported Spills

Spills reported to the Spill Prevention, Preparedness and Response Division.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/21/2012
Date Made Active in Reports: 02/04/2013
Number of Days to Update: 45

Source: Department of Ecology
Telephone: 360-407-6950
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Semi-Annually

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/02/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 92

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/13/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/06/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/26/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/16/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/09/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011
Date Data Arrived at EDR: 12/13/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 79

Source: EPA
Telephone: (206) 553-1200
Last EDR Contact: 03/12/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Biennially

UIC: Underground Injection Wells Listing

A listing of underground injection wells.

Date of Government Version: 11/21/2012
Date Data Arrived at EDR: 11/21/2012
Date Made Active in Reports: 02/04/2013
Number of Days to Update: 75

Source: Department of Ecology
Telephone: 360-407-6143
Last EDR Contact: 02/21/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

WA MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 04/27/2012
Date Made Active in Reports: 06/05/2012
Number of Days to Update: 39

Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

DRYCLEANERS: Drycleaner List
A listing of registered drycleaners who registered with the Department of Ecology (using the SIC code of 7215 and 7216) as hazardous waste generators.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 04/27/2012
Date Made Active in Reports: 06/05/2012
Number of Days to Update: 39

Source: Department of Ecology
Telephone: 360-407-6732
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

NPDES: Water Quality Permit System Data
A listing of permitted wastewater facilities.

Date of Government Version: 10/23/2012
Date Data Arrived at EDR: 10/25/2012
Date Made Active in Reports: 11/27/2012
Number of Days to Update: 33

Source: Department of Ecology
Telephone: 360-407-6073
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Quarterly

AIRS (EMI): Washington Emissions Data System
Emissions inventory data.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 01/11/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 42

Source: Department of Ecology
Telephone: 360-407-6040
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Annually

INACTIVE DRYCLEANERS: Inactive Drycleaners
A listing of inactive drycleaner facility locations.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 04/27/2012
Date Made Active in Reports: 06/05/2012
Number of Days to Update: 39

Source: Department of Ecology
Telephone: 360-407-6732
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 12/02/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: N/A

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/23/2011
Date Data Arrived at EDR: 05/26/2011
Date Made Active in Reports: 06/27/2011
Number of Days to Update: 32

Source: Department of Ecology
Telephone: 360-407-6754
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 06/29/2009
Date Data Arrived at EDR: 07/02/2009
Date Made Active in Reports: 07/08/2009
Number of Days to Update: 6

Source: Department of Ecology
Telephone: 360-407-6933
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 03/06/2007
Date Made Active in Reports: 04/19/2007
Number of Days to Update: 44

Source: Department of Ecology
Telephone: 360-407-6136
Last EDR Contact: 11/19/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/24/2012
Date Data Arrived at EDR: 02/24/2012
Date Made Active in Reports: 03/27/2012
Number of Days to Update: 32

Source: Department of Ecology
Telephone: 360-586-1060
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 11/20/2012
Date Data Arrived at EDR: 11/30/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/19/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/13/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/15/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

KING COUNTY:

Abandoned Landfill Study in King County

The King County Abandoned Landfill Survey was conducted from October through December 1984 by the Health Department's Environmental Health Division at the request of the King County Council. The primary objective of the survey was to determine if any public health problems existed at the predetermined 24 sites.

Date of Government Version: 04/30/1985
Date Data Arrived at EDR: 11/07/1994
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: Seattle-King County Department of Public Health
Telephone: 206-296-4785
Last EDR Contact: 10/21/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SEATTLE COUNTY:

Abandoned Landfill Study in the City of Seattle

The Seattle Abandoned Landfill Survey was conducted in June and July of 1984 by the Health Department's Environmental Health Division at the request of the Mayor's Office. The primary objective of the survey was to determine if any public health problems existed at the predetermined 12 sites.

Date of Government Version: 07/30/1984
Date Data Arrived at EDR: 11/07/1994
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: Seattle - King County Department of Public Health
Telephone: 206-296-4785
Last EDR Contact: 10/21/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SEATTLE/KING COUNTY:

Seattle - King County Abandoned Landfill Toxicity / Hazard Assessment Project

This report presents the Seattle-King County Health Department's follow-up investigation of two city owned and four county owned abandoned landfills which was conducted from February to December 1986.

Date of Government Version: 12/31/1986
Date Data Arrived at EDR: 08/18/1995
Date Made Active in Reports: 09/20/1995
Number of Days to Update: 33

Source: Department of Public Health
Telephone: 206-296-4785
Last EDR Contact: 08/14/1995
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SNOHOMISH COUNTY:

Solid Waste Sites of Record at Snohomish Health District

Solid waste disposal and/or utilization sites in Snohomish County.

Date of Government Version: 11/16/2011
Date Data Arrived at EDR: 03/29/2012
Date Made Active in Reports: 05/03/2012
Number of Days to Update: 35

Source: Snohomish Health District
Telephone: 206-339-5250
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Semi-Annually

TACOMA/PIERCE COUNTY:

Closed Landfill Survey

Following numerous requests for information about closed dumpsites and landfills in Pierce County, the Tacoma-Pierce County Health Department decided to conduct a study on the matter. The aim of the study was to evaluate public health risks associated with the closed dumpsites and landfills, and to determine the need, if any, for further investigations of a more detailed nature. The sites represent all of the known dumpsites and landfills closed after 1950.

Date of Government Version: 09/01/2002
Date Data Arrived at EDR: 03/24/2003
Date Made Active in Reports: 05/14/2003
Number of Days to Update: 51

Source: Tacoma-Pierce County Health Department
Telephone: 206-591-6500
Last EDR Contact: 03/19/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/18/2013
Date Data Arrived at EDR: 02/18/2013
Date Made Active in Reports: 03/21/2013
Number of Days to Update: 31

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 02/07/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/07/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 57

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Daycare Center Listing
Source: Department of Social & Health Services
Telephone: 253-383-1735

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

COWLITZ FTT
3500 NW 319TH ST
RIDGEFIELD, WA 98642

TARGET PROPERTY COORDINATES

Latitude (North):	45.8519 - 45° 51' 6.84''
Longitude (West):	122.7081 - 122° 42' 29.16''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	522663.4
UTM Y (Meters):	5077416.5
Elevation:	265 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	45122-G6 RIDGEFIELD, WA
Most Recent Revision:	1990

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

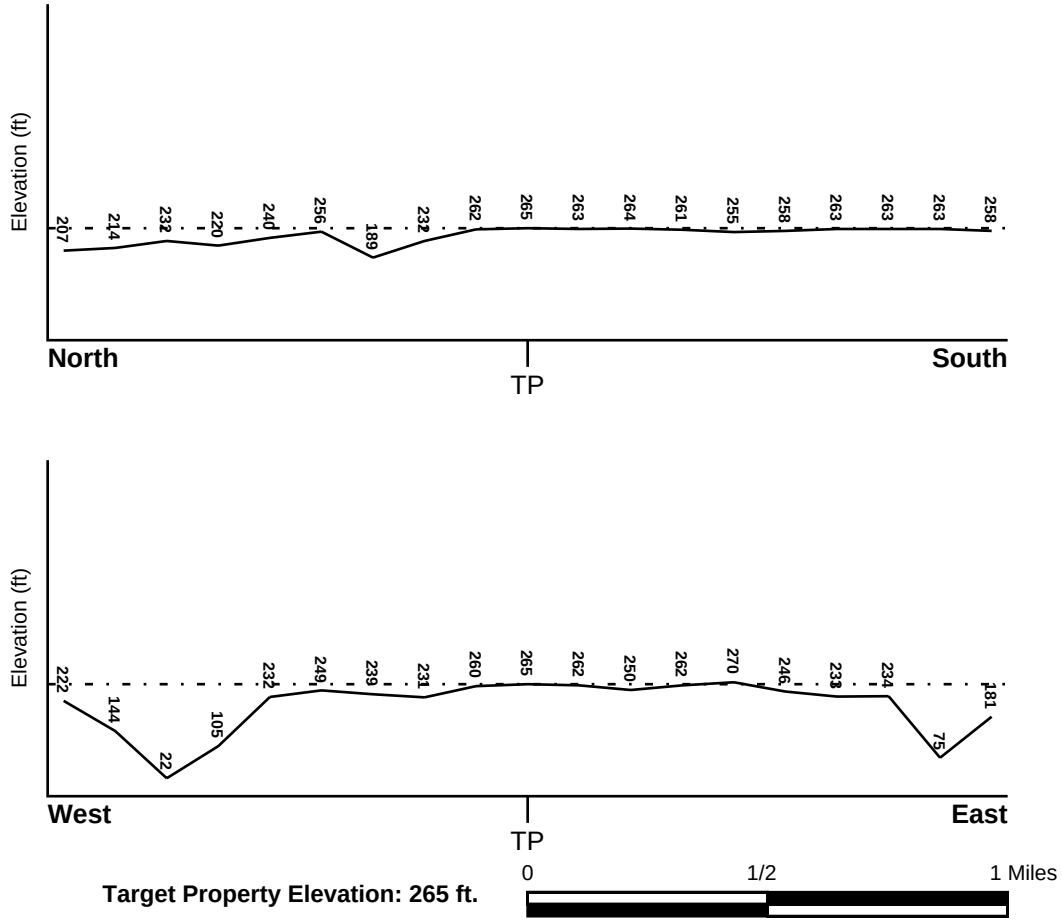
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 265 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
CLARK, WA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	5300240152C - FEMA Q3 Flood data
Additional Panels in search area:	5300240151C - FEMA Q3 Flood data 5300240156B - FEMA Q3 Flood data 5300240154B - FEMA Q3 Flood data 5300240153C - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
RIDGEFIELD	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

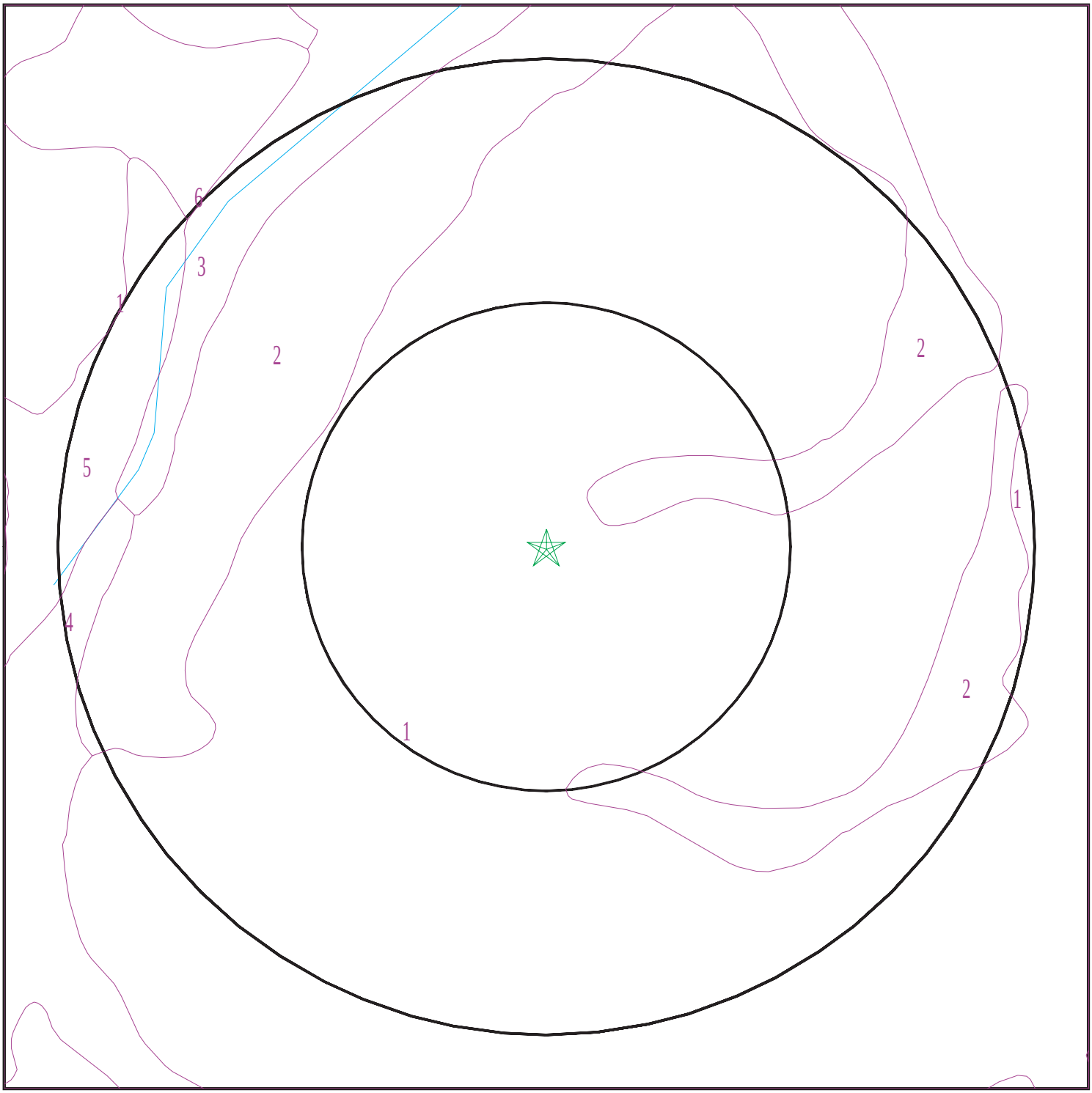
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3558997.1s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Cowlitz FTT	CLIENT:	Analytical Environmental Serv.
ADDRESS:	3500 NW 319th St Ridgefield WA 98642	CONTACT:	David Sawyer
		INQUIRY #:	3558997.1s
LAT/LONG:	45.8519 / 122.7081	DATE:	March 27, 2013 2:18 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Gee

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 92 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.01	Max: 6 Min: 5.1
2	9 inches	22 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.01	Max: 6 Min: 5.1
3	22 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.01	Max: 6 Min: 5.1

Soil Map ID: 2

Soil Component Name: Odne

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 23 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 5.6
2	5 inches	33 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 5.6
3	33 inches	59 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 5.6

Soil Map ID: 3

Soil Component Name: Gee

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 92 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.01	Max: 6 Min: 5.1
2	5 inches	18 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.01	Max: 6 Min: 5.1
3	18 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.01	Max: 6 Min: 5.1

Soil Map ID: 4

Soil Component Name: Cove

Soil Surface Texture: silty clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 7.3 Min: 6.1
2	3 inches	35 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 7.3 Min: 6.1
3	35 inches	59 inches	gravelly silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 7.3 Min: 6.1

Soil Map ID: 5

Soil Component Name: Gee

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 92 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.01	Max: 6 Min: 5.1
2	5 inches	18 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.01	Max: 6 Min: 5.1
3	18 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.01	Max: 6 Min: 5.1

Soil Map ID: 6

Soil Component Name: Gee

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 92 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.01	Max: 6 Min: 5.1
2	7 inches	20 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.01	Max: 6 Min: 5.1
3	20 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.01	Max: 6 Min: 5.1

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40001210736	1/4 - 1/2 Mile NW
3	USGS40001210687	1/4 - 1/2 Mile ESE
5	USGS40001210751	1/4 - 1/2 Mile NW
A6	USGS40001210640	1/2 - 1 Mile SE
B7	USGS40001210784	1/2 - 1 Mile NNE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A10	USGS40001210631	1/2 - 1 Mile SE
11	USGS40001210761	1/2 - 1 Mile NE
C16	USGS40001210798	1/2 - 1 Mile NNE
18	USGS40001210806	1/2 - 1 Mile North
D19	USGS40001210767	1/2 - 1 Mile WNW
E20	USGS40001210626	1/2 - 1 Mile SW
22	USGS40001210682	1/2 - 1 Mile WSW
E24	USGS40001210617	1/2 - 1 Mile SW
25	USGS40001210646	1/2 - 1 Mile WSW
26	USGS40001210645	1/2 - 1 Mile WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

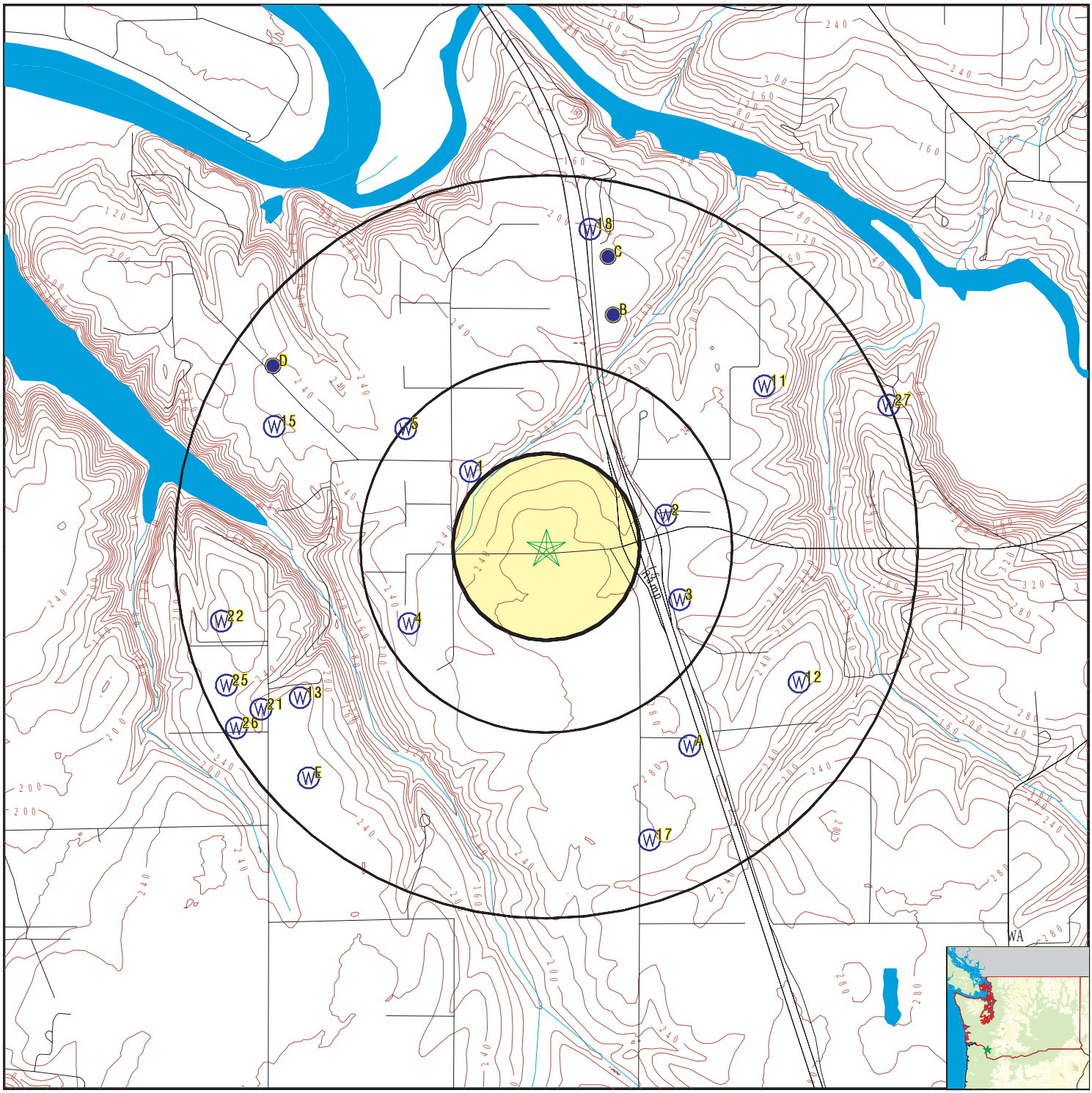
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	WA7000000001307	1/4 - 1/2 Mile ENE
4	WA7000000001299	1/4 - 1/2 Mile WSW
B8	WA7000000001336	1/2 - 1 Mile NNE
B9	WA7000000001337	1/2 - 1 Mile NNE
12	WA7000000001289	1/2 - 1 Mile ESE
13	WA7000000001278	1/2 - 1 Mile WSW
C14	WA7000000001343	1/2 - 1 Mile NNE
15	WA7000000001318	1/2 - 1 Mile WNW
17	WA7000000001260	1/2 - 1 Mile SSE
21	WA7000000001277	1/2 - 1 Mile WSW
D23	WA7000000001333	1/2 - 1 Mile NW
27	WA7000000001321	1/2 - 1 Mile ENE

PHYSICAL SETTING SOURCE MAP - 3558997.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data

SITE NAME:	Cowlitz FTT	CLIENT:	Analytical Environmental Serv.
ADDRESS:	3500 NW 319th St Ridgefield WA 98642	CONTACT:	David Sawyer
		INQUIRY #:	3558997.1s
LAT/LONG:	45.8519 / 122.7081	DATE:	March 27, 2013 2:18 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
NW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40001210736**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-455118122424001		
Monloc name:	04N/01E-05Q01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17080002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.8548369
Longitude:	-122.7123233	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	230
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	15
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1949-09-01	9	

2
ENE
1/4 - 1/2 Mile
Lower

WA WELLS **WA7000000001307**

Objectid:	10148	Pwsid:	45561
Srcnum:	01	Pwssrcid:	4556101
Systemname:	PARADISE TRUCK STOP		
Systemgrou:	A		
Systemtype:	TNC	Region:	SW
County:	CLARK	Smaid:	Not Reported
Ftrespopul:	0	Resconnect:	0
Totalconne:	1	Srcname:	LANDON WELL #1 ACV455
Srctype:	W	Srcusecode:	P
Srcwelldep:	301	Township:	04
Range:	01E	Section:	04
Qtrqtrsect:	SWSW		
Longitude:	-122.701438		
Latitude:	45.853135		
Latlongmet:	GPS	Srcsuscept:	H
Srcvulnioc:	H	Srcvulnvoc:	H
Srcvulnsoc:	U	Doewelltag:	ACV455
Srctot6mo:	0	Srctot1yr:	0

Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	3606071812
Priconta 1:	Not Reported	Priconta 2:	PO BOX 5889
Priconta 3:	VANCOUVER	Priconta 4:	WA
Priconta 5:	98668		
Priconta 6:	Not Reported		
Pwseffecti:	03/01/1988	Srceffecti:	01/01/1970
Internalon:	N	Site id:	WA7000000001307

3
ESE **FED USGS** **USGS40001210687**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-455100122415801		
Monloc name:	04N/01E-09D01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17080002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.8498369
Longitude:	-122.7006564	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	238
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19750106	Welldepth:	311
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1975-02-08	247	

4
WSW **WA WELLS** **WA7000000001299**
1/4 - 1/2 Mile
Lower

Objectid:	99	Pwsid:	00172
Srcnum:	01	Pwssrcid:	0017201
Systemname:	WIKES, GLENN		
Systemgrou:	B		
Systemtype:	GRPB	Region:	SW
County:	CLARK	Smaid:	Not Reported
Ftrespopul:	5	Resconnect:	2
Totalconne:	2	Srcname:	WELL # 1

Srctype:	W	Srcusecode:	P
Srcwelldep:	352	Township:	04
Range:	01E	Section:	08
Qtrqtrsect:	NENW		
Longitude:	-122.715751		
Latitude:	45.848905		
Latlongmet:	GPS	Srcsuscept:	U
Srcvulnioc:	Not Reported	Srcvulnvoc:	Not Reported
Srcvulnsoc:	Not Reported	Doewelltag:	Not Reported
Srctot6mo:	0	Srctot1yr:	0
Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	3608873491
Priconta 1:	Not Reported	Priconta 2:	31421 N W 44TH AVE
Priconta 3:	RIDGEFIELD	Priconta 4:	WA
Priconta 5:	98642		
Priconta 6:	Not Reported		
Pwseffecti:	12/17/1990	Srceffecti:	12/17/1990
Internalon:	N	Site id:	WA7000000001299

5
NW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40001210751**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-455124122425301		
Monloc name:	04N/01E-05P01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17080002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.8565036
Longitude:	-122.7159345	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	250
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19741004	Welldepth:	323
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1974-10-04	226	

A6
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40001210640**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-455040122415801		
Monloc name:	04N/01E-09M01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17080002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.8442814
Longitude:	-122.7006564	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	270
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19560101	Welldepth:	294
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1975-12-16	230	

B7
NNE
1/2 - 1 Mile
Lower

FED USGS **USGS40001210784**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-455140122421401		
Monloc name:	04N/01E-05H01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17080002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.860948
Longitude:	-122.705101	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	215
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	275
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1949-09-01	150	

B8
NNE **WA WELLS** **WA7000000001336**
1/2 - 1 Mile
Lower

Objectid:	18207	Pwsid:	07117
Srcnum:	01	Pwssrcid:	0711701
Systemname:	OLSON, IRIS		
Systemgrou:	B		
Systemtype:	GRPB	Region:	SW
County:	CLARK	Smaid:	Not Reported
Ftrespopul:	3	Resconnect:	2
Totalconne:	2	Srcname:	ABQ535 OLSON WELL
Srctype:	W	Srcusecode:	P
Srcwelldep:	334	Township:	04
Range:	01	Section:	05
Qtrqtrsect:	NESW		
Longitude:	-122.704		
Latitude:	45.86094		
Latlongmet:	QtrQtrSection	Srcsuscept:	U
Srcvulnioc:	Not Reported	Srcvulnvoc:	Not Reported
Srcvulnsoc:	Not Reported	Doewelltag:	ABQ535
Srctot6mo:	0	Srctot1yr:	0
Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	3608874153
Priconta 1:	Not Reported	Priconta 2:	4118 NW 324TH ST
Priconta 3:	RIDGEFIELD	Priconta 4:	WA
Priconta 5:	98642		
Priconta 6:	Not Reported		
Pwseffecti:	06/07/1999	Srceffecti:	06/07/1999
Internalon:	N	Site id:	WA7000000001336

B9
NNE **WA WELLS** **WA7000000001337**
1/2 - 1 Mile
Lower

Objectid:	19416	Pwsid:	60114
Srcnum:	01	Pwssrcid:	6011401
Systemname:	FLETCHER, TONI		
Systemgrou:	B		
Systemtype:	GRPB	Region:	SW
County:	CLARK	Smaid:	Not Reported
Ftrespopul:	6	Resconnect:	2
Totalconne:	2	Srcname:	WELL #1

Srctype:	W	Srcusecode:	P
Srcwelldep:	358	Township:	04
Range:	01	Section:	05
Qtrqtrsect:	NESW		
Longitude:	-122.704		
Latitude:	45.86094		
Latlongmet:	QtrQtrSection	Srcsuscept:	U
Srcvulnioc:	Not Reported	Srcvulnvoc:	Not Reported
Srcvulnsoc:	Not Reported	Doewelltag:	Not Reported
Srctot6mo:	0	Srctot1yr:	0
Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	3608878305
Priconta 1:	Not Reported	Priconta 2:	4510 NW 289TH STREET
Priconta 3:	RIDGEFIELD	Priconta 4:	WA
Priconta 5:	98642		
Priconta 6:	Not Reported		
Pwseffecti:	10/01/1989	Srceffecti:	01/01/1970
Internalon:	N	Site id:	WA7000000001337

A10
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40001210631**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-455039122415401		
Monloc name:	04N/01E-09M02		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17080002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.8440037
Longitude:	-122.6995452	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	268
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	130
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1949-09-01	50	

11
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40001210761**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-455130122414101		
Monloc name:	04N/01E-04L01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17080002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.8581702
Longitude:	-122.6959343	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	235
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	24
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1949-09-01	17	

12
ESE
1/2 - 1 Mile
Higher

WA WELLS **WA7000000001289**

Objectid:	14498	Pwsid:	AA014
Srcnum:	01	Pwssrcid:	AA01401
Systemname:	HIXSON, STEVE AND KIM		
Systemgrou:	B		
Systemtype:	GRPB	Region:	SW
County:	CLARK	Smaid:	Not Reported
Ftrespopul:	4	Resconnect:	2
Totalconne:	2	Srcname:	WELL 1
Srctype:	W	Srcusecode:	P
Srcwelldep:	315	Township:	04
Range:	01E	Section:	09
Qtrqtrsect:	NWSW		
Longitude:	-122.694		
Latitude:	45.84662		
Latlongmet:	QtrQtrSe	Srcsuscept:	U
Srcvulnioc:	Not Reported	Srcvulnvoc:	Not Reported
Srcvulnsoc:	Not Reported	Doewelltag:	Not Reported
Srctot6mo:	0	Srctot1yr:	0
Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	3608871871
Priconta 1:	Not Reported	Priconta 2:	2805 NW 309TH ST
Priconta 3:	RIDGEFIELD	Priconta 4:	WA
Priconta 5:	98642		
Priconta 6:	Not Reported		
Pwseffecti:	05/31/2002	Srceffecti:	05/31/2002
Internalon:	N	Site id:	WA7000000001289

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

13
WSW
1/2 - 1 Mile
Lower

WA WELLS **WA7000000001278**

Objectid:	12040	Pwsid:	63989
Srcnum:	01	Pwssrcid:	6398901
Systemname:	ALLEN CANYON ACRES		
Systemgrou:	B		
Systemtype:	GRPB	Region:	SW
County:	CLARK	Smaid:	102
Ftrespopul:	13	Resconnect:	5
Totalconne:	5	Srcname:	WELL #1 AGS315
Srctype:	W	Srcusecode:	P
Srcwelldep:	287	Township:	04
Range:	01E	Section:	08
Qtrqtrsect:	SWNW		
Longitude:	-122.721821		
Latitude:	45.846019		
Latlongmet:	GPS	Srcsuscept:	U
Srcvulnioc:	Not Reported	Srcvulnvoc:	Not Reported
Srcvulnsoc:	Not Reported	Doewelltag:	AGS315
Srctot6mo:	0	Srctot1yr:	0
Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	3609928023
Priconta 1:	CLARK PUBLIC UTILITIES	Priconta 2:	PO BOX 8900
Priconta 3:	VANCOUVER	Priconta 4:	WA
Priconta 5:	98668		
Priconta 6:	sprather@clarkpud.com		
Pwseffecti:	04/18/1990	Srceffecti:	11/05/1990
Internalon:	N	Site id:	WA7000000001278

C14
NNE
1/2 - 1 Mile
Lower

WA WELLS **WA7000000001343**

Objectid:	16682	Pwsid:	SP640
Srcnum:	01	Pwssrcid:	SP64001
Systemname:	PARADISE POINT STATE PARK		
Systemgrou:	A		
Systemtype:	TNC	Region:	SW
County:	CLARK	Smaid:	Not Reported
Ftrespopul:	2	Resconnect:	1
Totalconne:	17	Srcname:	WELL #1 ABS135
Srctype:	W	Srcusecode:	E
Srcwelldep:	243	Township:	04
Range:	01E	Section:	05
Qtrqtrsect:	NENE		
Longitude:	-122.704757		
Latitude:	45.862982		
Latlongmet:	GPS	Srcsuscept:	N
Srcvulnioc:	Not Reported	Srcvulnvoc:	Not Reported
Srcvulnsoc:	Not Reported	Doewelltag:	ABS135
Srctot6mo:	0	Srctot1yr:	0

Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	3602632350
Priconta 1:	WSPRC - SOUTHWEST REGION HQ	Priconta 2:	PO BOX 42650
Priconta 3:	OLYMPIA	Priconta 4:	WA
Priconta 5:	985042650		
Priconta 6:	lynn.nordloh@parks.wa.gov		
Pwseffecti:	01/01/1970	Srceffecti:	02/17/2004
Internalon:	N	Site id:	WA7000000001343

15
WNW **WA WELLS** **WA7000000001318**
1/2 - 1 Mile
Lower

Objectid:	5428	Pwsid:	08492
Srcnum:	01	Pwssrcid:	0849201
Systemname:	PEKIN FERRY SATELLITE		
Systemgrou:	B		
Systemtype:	GRPB	Region:	SW
County:	CLARK	Smaid:	102
Ftrespopul:	2	Resconnect:	1
Totalconne:	1	Srcname:	WELLL #1 AFF416
Srctype:	W	Srcusecode:	P
Srcwelldep:	320	Township:	04
Range:	01E	Section:	06
Qtrqtrsect:	NESE		
Longitude:	-122.723264		
Latitude:	45.856591		
Latlongmet:	GPS	Srcsuscept:	H
Srcvulnioc:	H	Srcvulnvoc:	H
Srcvulnsoc:	U	Doewelltag:	AFF416
Srctot6mo:	0	Srctot1yr:	0
Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	3609928023
Priconta 1:	CLARK PUBLIC UTILITIES	Priconta 2:	PO BOX 8900
Priconta 3:	VANCOUVER	Priconta 4:	WA
Priconta 5:	98668		
Priconta 6:	sprather@clarkpud.com		
Pwseffecti:	09/06/2001	Srceffecti:	09/06/2001
Internalon:	N	Site id:	WA7000000001318

C16
NNE **FED USGS** **USGS40001210798**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-455149122421201		
Monloc name:	04N/01E-05A01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17080002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.863448
Longitude:	-122.7045456	Sourcemap scale:	24000

Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	210
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19620101	Welldepth:	247
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1962-01-01	203	

17
SSE
1/2 - 1 Mile
Higher

WA WELLS **WA7000000001260**

Objectid:	2930	Pwsid:	04718
Srcnum:	01	Pwssrcid:	0471801
Systemname:	ARCHER, JIM		
Systemgrou:	B		
Systemtype:	GRPB	Region:	SW
County:	CLARK	Smaid:	Not Reported
Ftrespopul:	6	Resconnect:	2
Totalconne:	2	Srcname:	WELL #1
Srctype:	W	Srcusecode:	P
Srcwelldep:	318	Township:	04
Range:	01W	Section:	09
Qtrqtrsect:	SWSW		
Longitude:	-122.70234		
Latitude:	45.84047		
Latlongmet:	GPS	Srcsuscept:	U
Srcvulnioc:	Not Reported	Srcvulnvoc:	Not Reported
Srcvulnsoc:	Not Reported	Doewelltag:	Not Reported
Srctot6mo:	0	Srctot1yr:	0
Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	3608874599
Priconta 1:	Not Reported	Priconta 2:	30307 N W 31ST AVE
Priconta 3:	RIDGEFIELD	Priconta 4:	WA
Priconta 5:	98642		
Priconta 6:	Not Reported		
Pwseffecti:	07/19/1995	Srceffecti:	07/19/1995
Internalon:	N	Site id:	WA7000000001260

18
North
1/2 - 1 Mile
Lower

FED USGS **USGS40001210806**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-455152122421621		
Monloc name:	04N/01E-05A02		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17080002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.8642813
Longitude:	-122.7056567	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	9999.99
Vert measure units:	feet	Vertacc measure val:	999
Vert accmeasure units:	feet		
Vertcollection method:	Unknown		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19940101	Welldepth:	243
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

D19
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40001210767**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-455132122431901		
Monloc name:	04N/01E-05E01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17080002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.8587259
Longitude:	-122.7231569	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	240
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19470228	Welldepth:	300
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1949-03-01	217	

E20
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40001210626**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-455036122431201		
Monloc name:	04N/01E-08M02		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17080002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.8431704
Longitude:	-122.7212122	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	252
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Troutdale Formation		
Aquifer type:	Not Reported		
Construction date:	19680614	Welldepth:	335
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-07-01	234	

21
WSW
1/2 - 1 Mile
Lower

WA WELLS **WA7000000001277**

Objectid:	4460	Pwsid:	07065
Srcnum:	01	Pwssrcid:	0706501
Systemname:	Homola		
Systemgrou:	B		
Systemtype:	GRPB	Region:	SW
County:	CLARK	Smaid:	Not Reported
Ftrespopul:	7	Resconnect:	2
Totalconne:	2	Srcname:	WELL #1

Srctype:	W	Srcusecode:	P
Srcwelldep:	359	Township:	04
Range:	01E	Section:	07
Qtrqtrsect:	NWSE		
Longitude:	-122.724008		
Latitude:	45.845566		
Latlongmet:	GPS	Srcsuscept:	U
Srcvulnioc:	Not Reported	Srcvulnvoc:	Not Reported
Srcvulnsoc:	Not Reported	Doewelltag:	Not Reported
Srctot6mo:	0	Srctot1yr:	0
Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	3606064790
Priconta 1:	Not Reported	Priconta 2:	31020 NW 51ST AVE
Priconta 3:	RIDGEFIELD	Priconta 4:	WA
Priconta 5:	98642		
Priconta 6:	Not Reported		
Pwseffecti:	05/18/1999	Srceffecti:	05/18/1999
Internalon:	N	Site id:	WA7000000001277

22
WSW **FED USGS** **USGS40001210682**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-455057122433001		
Monloc name:	04N/01E-07A01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17080002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.8490037
Longitude:	-122.7262123	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	245
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19740213	Welldepth:	305
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1974-02-27	220	

D23
NW **WA WELLS** **WA7000000001333**
1/2 - 1 Mile
Lower

Objectid:	283	Pwsid:	00504
Srcnum:	01	Pwssrcid:	0050401
Systemname:	ARNDT LIVING TRUST		
Systemgrou:	B		
Systemtype:	GRPB	Region:	SW
County:	CLARK	Smaid:	Not Reported
Ftrespopul:	11	Resconnect:	3
Totalconne:	3	Srcname:	WELL #1 NO TAG
Srctype:	W	Srcusecode:	P
Srcwelldep:	300	Township:	04
Range:	01W	Section:	05
Qtrqtrsect:	SWNW		
Longitude:	-122.72351		
Latitude:	45.85919		
Latlongmet:	GPS	Srcsuscept:	H
Srcvulnioc:	L	Srcvulnvoc:	H
Srcvulnsoc:	U	Doewelltag:	Not Reported
Srctot6mo:	0	Srctot1yr:	0
Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	3608873930
Priconta 1:	Not Reported	Priconta 2:	32921 NW PEKIN FERRY RD
Priconta 3:	RIDGEFIELD	Priconta 4:	WA
Priconta 5:	98642		
Priconta 6:	Not Reported		
Pwseffecti:	04/10/1991	Srceffecti:	04/10/1991
Internalon:	N	Site id:	WA7000000001333

E24
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40001210617**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-455034122431301		
Monloc name:	04N/01E-08M01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17080002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.8426148
Longitude:	-122.7214899	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	255
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	406
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1951-04-01	235	

25
WSW **FED USGS** **USGS40001210646**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-455044122432401		
Monloc name:	04N/01E-07H01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17080002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.8465037
Longitude:	-122.7259345	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	247
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19740502	Welldepth:	367
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1974-05-22	231	

26
WSW **FED USGS** **USGS40001210645**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-455042122432701		
Monloc name:	04N/01E-07H02		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17080002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.844837
Longitude:	-122.7253789	Sourcemap scale:	24000

Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	255
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	359
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1949-06-01	259	

27
ENE **WA WELLS** **WA7000000001321**
1/2 - 1 Mile
Lower

Objectid:	16812	Pwsid:	00493
Srcnum:	01	Pwssrcid:	0049301
Systemname:	GILBERT, SUSAN		
Systemgrou:	B		
Systemtype:	GRPB	Region:	SW
County:	CLARK	Smaid:	Not Reported
Ftrespopul:	5	Resconnect:	2
Totalconne:	2	Srcname:	WELL
Srctype:	W	Srcusecode:	P
Srcwelldep:	230	Township:	04
Range:	01	Section:	04
Qtrqtrsect:	SWNW		
Longitude:	-122.689		
Latitude:	45.85742		
Latlongmet:	QtrQtrSection	Srcsuscept:	U
Srcvulnioc:	Not Reported	Srcvulnvoc:	Not Reported
Srcvulnsoc:	Not Reported	Doewelltag:	Not Reported
Srctot6mo:	0	Srctot1yr:	0
Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	3605760322
Priconta 1:	Not Reported	Priconta 2:	N W 329TH ST N W 26TH AVE
Priconta 3:	RIDGEFIELD	Priconta 4:	WA
Priconta 5:	98642		
Priconta 6:	Not Reported		
Pwseffecti:	03/26/1991	Srceffecti:	03/26/1991
Internalon:	N	Site id:	WA7000000001321

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for CLARK County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 98642

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.300 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.850 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Wells
Source: Department of Health
Telephone: 360-236-3148
Group A and B well locations.

Water Well Listing
Source: Public Utility District
Telephone: 206-779-7656
A listing of water well locations in Kitsap County.

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Listing
Source: Department of Natural Resources
Telephone: 360-902-1450
Locations that represent oil and gas test well sites in Washington State from 1890 to present.

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION