



AUG 17 2010

To All Interested Government Agencies and Public Groups:

Under the National Environmental Policy Act (NEPA), an environmental review has been performed on the following action.

**TITLE:** National Oceanic and Atmospheric Administration (NOAA)  
Northwest Fisheries Science Center (NWFSC) Manchester Research Station (MRS) Salmon Recovery Building

**LOCATION:** Port Orchard, Washington, United States

**SUMMARY:** The Final EA provides a comprehensive analysis of the potential for environmental effects to occur at the proposed building location and for the no-action alternative. Neither individual nor cumulative environmental impacts would be significant provided that mitigation measures specified in the EA are implemented.

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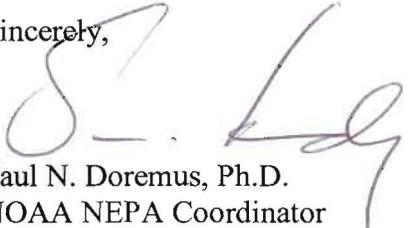
The environmental review process led us to conclude that this action will not have a significant effect on the human environment. Therefore, an environmental impact statement will not be prepared. A copy of the finding of no significant impact (FONSI) including the supporting environmental assessment (EA) is enclosed for your information. Although NOAA is not soliciting comments on this completed EA/FONSI we will consider any comments submitted that would assist us in preparing future NEPA documents. Please submit any written comments to the responsible official named above.



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Sincerely,



*S. Doremus*

Paul N. Doremus, Ph.D.  
NOAA NEPA Coordinator

*for*

*Enclosures:*

*Finding of No Significant Impact: NOAA NWFSC MRS Salmon Recovery Building*  
*Final Environmental Assessment: NOAA NWFSC MRS Salmon Recovery Building*

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## **Final Environmental Assessment**

**NORTHWEST FISHERIES SCIENCE CENTER  
Manchester Research Station Salmon Recovery Building  
Port Orchard, WA**

**Prepared for  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
Project Planning and Management Division – Western Region  
Seattle, Washington**

**Prepared by**

**Hoefler Consulting Group  
Preston, Washington**

**In compliance with the  
National Environmental Policy Act of 1969**

**August 5, 2010**

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The National Oceanic and Atmospheric Administration (NOAA) is proposing to construct a pole building at the Northwest Fisheries Science Center Manchester Research Station in Port Orchard, Washington. The Manchester Research Station is owned and operated by NOAA and is located on the western shore of Clam Bay in Kitsap County. The physical address is 7305 Beach Drive East, Port Orchard Washington 98366. The general vicinity of the Manchester Research Station is shown on Figure 1. The proposed location for the pole building is shown on Figure 2. A more detailed site plan is shown on Figure 3. An overview of the building site is shown in Appendix B, Photo 1.

This environmental assessment is part of an initial planning process and has been prepared in accordance with provisions of the National Environmental Policy Act (NEPA) of 1969 (42 U.S.C. 4321 et. seq.), Council on Environmental Quality (CEQ) Regulations for Implementing the Procedural Provisions of the National Environmental Policy Act (40 CFR, Parts 1500-1508), and NOAA's Administrative Order (NAO) 216-6. The environmental assessment describes the proposed facility and operation. It also describes the existing environment, addresses impacts that could be associated with the proposed action, and discusses potential cumulative impacts associated with continued growth of facilities and operations at the Manchester Research Station. Finally, the environmental assessment includes a discussion of alternatives, a list of environmental regulations, and provides conclusions and recommendations. Documentation of agency correspondence and references is also included.

## **1.0 PURPOSE AND NEED**

NOAA has been providing safety net rearing of Chinook salmon listed as endangered under the United States Endangered Species Act (ESA) at the Northwest Fisheries Science Center (NWFSC) Manchester Research Station (MRS) since 1991. Captive broodstocks for these fish have been reared in facilities at MRS facilities since 1994.

NOAA is currently engaged in a cooperative program with various state and tribal entities to preserve and recover two ESA listed Puget Sound Chinook stocks, the South Fork Nooksack River spring Chinook and the Stillaguamish River fall Chinook. This recovery action calls for the creation of captive broodstock programs for each stock. NOAA's participation in this recovery program involves rearing of these captive broodstocks in seawater at the MRS. Rearing in seawater is a natural and critical phase of the Chinook salmon life cycle. The MRS would receive juvenile fish each year, raise the juveniles to adult size, and return them to Nooksack and Stillaguamish hatcheries for spawning. This type of program allows for amplification of depressed or declining stocks to provide immediate aide toward recovery. In 2008 the NWFSC began providing safety net rearing at MRS for one of the two constraining stocks of Puget Sound Chinook, with rearing of the second stock scheduled to begin in 2011. However, due to an expansion of the current endangered Redfish Lake sockeye captive broodstock program at MRS, NOAA has a lack of available space for the Puget Sound

Chinook. Therefore a new facility has been proposed for construction to provide sufficient capacity to rear these stocks over a 10 year period. Without the new facility, NOAA would be unable to satisfy current obligations under the ESA.

## **2.0 PROPOSED ACTION AND PROJECT ALTERNATIVES**

### **2.1 Proposed Action**

The proposed action is to build a new pole building at the NWFSC MRS, adjacent to existing facilities. The building would be 7,128 square feet (54' X 132') in size with a shallow foundation such as spread footings. It would contain 12 circular saltwater fish rearing tanks, each 16.5 feet in diameter and 5 feet deep (1,070 cubic feet), reference Appendix B Photo 2. Each year, approximately 1,000 juvenile fish would be brought into the facility and 500 mature fish would be shipped out to the hatcheries.

Manchester Research Station currently has a system in place for cycling water into and out of fish tanks at existing buildings. The existing infrastructure is adequate to satisfy capacity needs of both existing facilities and the proposed pole building. Saltwater is drawn from Clam Bay via a marine pipeline intake to fill rearing tanks. The marine water is filtered and treated in an ultraviolet (UV) system prior to entry into the tanks. The marine water is constantly cycled through the tanks at approximately 50 gallons per minute. Marine water exiting the tanks is returned to Clam Bay through polyvinyl chloride drain pipes. Prior to discharge into the bay, the water is treated with ozone, which prevents pathogens and other carbon based materials from entering Clam Bay. Existing pipeline would be extended to accommodate the new building. Any excavation required to extend the pipelines will not occur on any previously undisturbed land. Both the pipelines (seawater intake and seawater effluent) and the ozone treatment system have adequate capacity to serve the additional rearing tanks. There would be an increase in marine water use and discharge to Clam Bay, but all water use would still remain within the capacity of existing intake and discharge systems. The existing saltwater filtration system and UV system are shown in Appendix B Photos 3 and 4, the ozone gas tank is shown in Photo 5, and the effluent outfall is shown in Photo 6. Utility lines would also be extended from existing infrastructure to support the proposed building.

This proposed action would provide sufficient broodstock capacity to meet NOAA ESA obligations for the South Fork Nooksack River spring Chinook and the Stillaguamish River fall Chinook for the next 10 years.

### **2.2 Proposed Alternative – No Action Alternative**

The No Action Alternative would result in the NWFSC MRS continuing operation at its current levels of activity. If adapted, there would not be adequate space to support current NOAA obligations under the ESA for the two listed Puget Sound Chinook stocks, the South Fork Nooksack River spring Chinook and the Stillaguamish River fall Chinook.



Not to Scale



## General Vicinity Map

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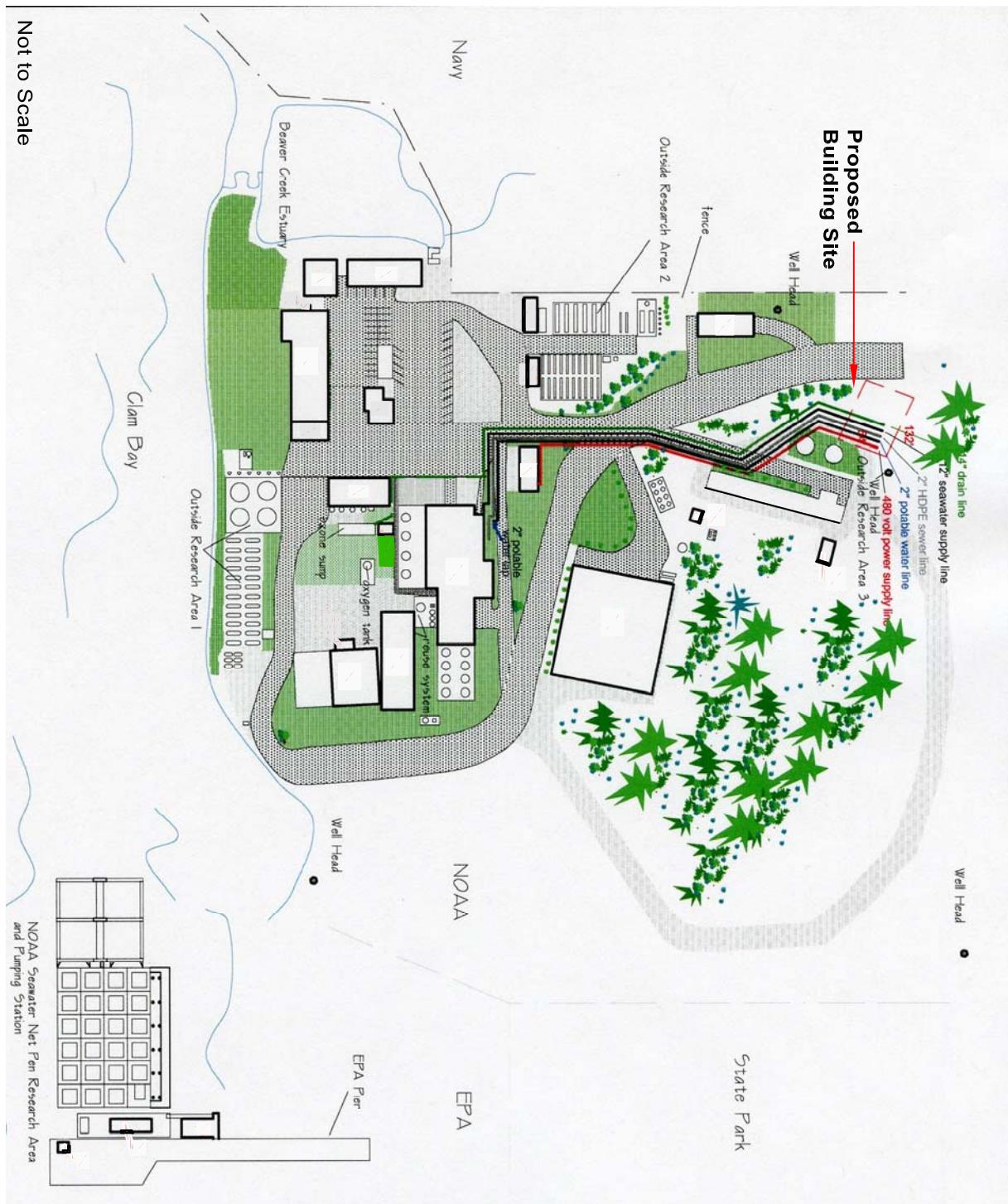
FIGURE: 1

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<b>Hoefler</b> CONSULTING GROUP
DATE: 5-19-2010 SHEET SIZE: 8.5X11 FIGURE: 2

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## Detailed Site Plan at Manchester Research Station



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5-19-2010

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3

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## **3.0 EXISTING ENVIRONMENT**

### **3.1 Land Use**

The MRS and proposed building site are located in a rural industrial area in Port Orchard, Washington. Port Orchard is within Kitsap County, one of fifteen coastal counties within Washington and subject to the State and County Coastal Zone Management (CZM) Programs. The MRS is zoned Military according to the Kitsap County Comprehensive Plan Land Use Map (amended: December 14, 2009) and Zoning Map (map date: January 2010). The area west of the MRS is zoned Rural Residential and contains farmland.

The pole building would be located about 2,000 feet inland to the west and southwest of the primary existing MRS facilities, which are adjacent to Clam Bay. According to NOAA personnel, the building site was previously owned by the Navy and was used as a ball field. The ground has been disturbed and is covered by approximately 2 feet of fill material. It is currently used for the storage and or staging of miscellaneous, non-hazardous, supplies in support of current NOAA activities at the MRS. The Environmental Protection Agency (EPA) Manchester laboratory and Manchester State Park are located to the North. Navy property is located to the south, including the Navy Fuel Depot. The MRS parking lot is part of the Old Navy Dump/Manchester Laboratory Superfund site and was used as a Fire Training Pit by the Navy. Further detail regarding this National Priorities List site is provided in Section 4.9.

### **3.2 Topography**

The proposed building site is on the east side of the peninsula separating the Port Orchard and Rich Passages in Puget Sound. The area is characterized by north-northeast trending ridges up to approximately 60 feet above sea level. The proposed building site is approximately 20 to 40 feet above sea level. Land slopes away from the site towards the tidal flats of Clam Bay located approximately 700 feet to the east (Hart Crowser 1996).

### **3.3 Climate**

The subject area is part of the Puget Sound Lowlands which encompasses a narrow strip of land along the west side of Puget Sound southward from the Strait of Juan de Fuca to the vicinity of Centralia and Chehalis and a somewhat wider strip along the east side of the Sound extending northward to the Canadian Border (Western Region Climate Center 2010). Variations in the temperature, length of the growing season, fog, rainfall and snowfall are due to such factors as distance from the Sound, the rolling terrain and air from over the ocean reaching this area through the Strait of Juan de Fuca and the Chehalis River valley. Occasionally in the winter season, cold air from the interior of Canada flows southward through the Fraser River canyon and over the northern Puget Sound lowlands.

Annual precipitation ranges from 32 to 35 inches from the Canadian Border to Seattle and gradually increases to 45 inches in the vicinity of Centralia. The winter season snowfall ranges from 10 to 20 inches. Both rainfall and snowfall increase with a slight increase in elevation and distance from the Sound. Snow generally melts rather quickly and depths seldom exceed six to 15 inches. The greatest snow depth recorded in Seattle is 29 inches. Most of this area is near the eastern edge of the “rain shadow” of the Olympic Mountains.

The average January maximum temperature ranges from 41° to 45° F and minimum temperatures from 28° to 32° F. With an increase in distance from the Sound, winter temperatures decrease and summer temperatures increase. Minimum temperatures ranging from 0° to -10° F have been recorded; however, temperatures seldom drop lower than 10° to 15° F. During July, the average maximum temperature ranges from 73° F near the Canadian Border to 78° F in the vicinity of Olympia, and the minimum temperature is near 50° F. Maximum temperatures have reached 100° F; however, in an average summer, 90° F or higher is only recorded on three to five days. The growing season is from the latter half of April until the middle of October (Western Regional Climate Center 2010).

### **3.4 Air Quality**

The EPA has defined primary and secondary air quality standards for each criteria pollutant. Primary standards are designed to protect sensitive segments of the public, i.e. elderly, infants and those with respiratory impairment, from adverse health effects, which may result from prolonged exposure to the criteria pollutants. Secondary standards are designed to protect the general public welfare, particularly the natural environment and man-made structures, from adverse effects of the pollutant. Kitsap County is currently in attainment with EPA air quality standards.

The prevailing wind direction is south or southwest during the wet season and northwest in summer. The average wind velocity is less than 10 miles per hour. Although the Puget Sound Lowlands are the most densely populated and industrialized area in the State, there is sufficient wind most of the year to disperse air pollutants released into the atmosphere. Air pollution is usually most noticeable in the late fall and winter season, under conditions of clear skies, light wind and a sharp temperature inversion. These conditions only prevail a few days before a weather system moves through removing the pollution by wind and rain.

### **3.5 Geology**

#### **3.5.1 Seismic**

The Puget Sound area is underlain by the Cascadia subduction zone where the Juan de Fuca tectonic plate is subducted beneath the North American plate. As a result, the area is subject to daily low magnitude seismic activity most of which

is not felt (King County 2004). However, large earthquakes, greater than magnitude 6.0 on the Richter scale do occur. In the past century, three large earthquakes have shaken the area, the Olympia event in 1949, the Seattle/Tacoma event in 1965 and in 2001 the 6.8 magnitude Nisqually event. In addition to the deep subduction zone related earthquakes, there is strong evidence for near surface crustal deformation events in the Puget Sound region such as along the Seattle Fault (King County 2004).

The Seattle Fault is believed to be a zone of thrust or reverse faults (Koshimura and Mofjeld 2005) that strike east-west approximately 5 to 10 miles north of the proposed building site. A group of geophysicists working on the Seismic Hazards Investigations of Puget Sound project in 2000 inferred that a magnitude 7.2 to 7.5 earthquake could occur along the 42 mile (70 kilometer) length of the Seattle Fault zone (Koshimura and Mofjeld 2005).

### 3.5.2 *Soils*

The region surrounding the site is comprised of Quaternary glacial, proglacial, and non-glacial unconsolidated deposits overlying an irregular Tertiary bedrock surface (Hart Crowser 1996). The shoreline typically consists of more recent beach deposits and other fill materials. Bedrock outcrops can be found in localized areas along the shoreline to the north and east, at variable depths within the general site vicinity.

Drilling in the immediate vicinity of the proposed building site, indicates approximately 100 feet of unconsolidated proglacial clay, silt, with sand lenses, capped by approximately 10 feet of older glacial till (Hart Crowser 1996).

### 3.5.3 *Tsunami*

Tsunamis are sea waves generated by an abrupt movement of large volumes of sea water such as might occur as the result of seabed displacement during a large earthquake. Historically, tsunamis generated in the north Pacific and South America have caused the most damage on the West Coast of the United States. Although, historical tsunami damage along the Washington Coast has been minor, the geologic records suggest that large tsunamis might have hit the area more than 1,000 years ago (King County 2004). In addition, there is also evidence in the geologic record to suggest that large subduction zone earthquakes in the Puget Sound region may have generated tsunamis as recently as 300 years ago; however, this assessment is speculative because no written records exist. In the assessment of geologic hazards for the Puget Sound region, the Best Available Science Report (King County 2004) indicated that the potential for future damage from tsunamis is great.

## 3.6 **Hydrology**

The region of the proposed project is drained by many small creeks and streams that predominantly flow northward and discharge into Puget Sound. Beaver Creek, located approximately 250 feet south of the site runs west to east and

flows through several small ponds on Navy property to the south of the proposed building site, before discharging into Clam Bay (Hart Crowser 1996).

### **3.7 Hydrogeology**

There are three groundwater zones in the vicinity of the proposed building site; the Surficial Fill Unit, the Outwash Channel Aquifer, and the Deep Proglacial Water Bearing Zone (Hart Crowser 1996). Of the three, the Outwash Channel Aquifer is the most productive and is the only one currently used for local water supply. Logs from borings completed north and south of the proposed building location indicates that only the Deep Proglacial Water Bearing Zone aquifer underlies the site (Hart Crowser 1996).

The regional groundwater flow is to the east from upland areas, such as the proposed building site, toward the shoreline and Clam Bay. Based on groundwater elevation measurements, tidal influences are observed in wells close to the shore line but not in wells near the proposed building site (Hart Crowser 1996).

### **3.8 Floodplains**

Executive Order 11988 – Flood Plain Management (1977), requires federal agencies to determine whether any proposed action will occur in a floodplain, and stipulates procedures to be located within a floodplain. The term “floodplain” in the Executive Order as : the lowland and relatively flat area adjoining inland coastal waters including flood-prone areas of offshore island, including at a minimum, that area subject to a one percent (1%) or greater chance of flooding in any given year. The Federal Emergency management Agency (FEMA) Flood Insurance Manual, dated 1985, indicated that the floodplain described in the Executive Order is, by definition, the 100-year floodplain. The FEMA regulations for Floodplain Management and Flood Hazard Identification (44 CFR 59 through 77) provide further clarification.

Review of FEMA Flood Insurance Map (FIRM) Community Panel Number 383 of 525, Map #53035C0383D for Kitsap County, Washington indicated that the subject site is not located within a 100-year floodplain. The referenced map is included in Appendix A.

### **3.9 Marine**

Manchester Research Station is located on Clam Bay, a small bay adjoining the central basin of Puget Sound. An EPA owned pier extends out from the shorebank north of NOAA property. There is a commercial net pen facility that raises Atlantic salmon for eventual harvest and market sale located approximately 200 yards offshore.

Clam Bay has a history of human disturbance. The shoreline and intertidal zone were part of an EPA Superfund site project that removed contaminated sediments and put in clean fill. Sediments from Beaver Creek are deposited to

the south end of the bay largely during spring flooding. The bay has a shallow gradient (<5%) extending from the shoreline past the EPA Pier (Karnezis & Mayer 2003).

Aquatic vegetation in Clam Bay consists of macro-algae (*Ulva lactuca*) and Eelgrass (*Zostera capensis*) which exist in patches at a maximum depth of 8 feet (Karnezis & Mayer 2003). This vegetation provides fish forage habitat.

A 1995 ecological survey conducted by Hart Crowser of the Manchester Annex Superfund site observed Brandt's cormorant, great blue heron, glaucous-winged gull, killdeer and American widgeon in the intertidal zone (Hart Crowser, 1996).

### **3.10 Biotic**

#### *3.10.1 Vegetation*

The previously cleared building site is grassland with a substrate consisting of fill dirt and gravel. Woody vegetation is regularly removed as a result of the area being maintained as a storage yard where large piles of material and pieces of equipment are moved around and left to set for various periods of time. The plant community surrounding the site is comprised of trees, shrubs, ferns, grasses, and flowering herbs. The grassland is a mixture of grasses and herbs. Dominant tree species include sitka spruce (*Picea sitchensis*), western red cedar (*Thuja plicata*), grand fir (*Abies grandis*). The shrub community includes red alder (*Alnus rubra*), willow (*salix sp.*) and vine maple (*Acer circinatum*) but is dominated by introduced plant species such as scotch broom (*Cytisus scoparius*) and blackberry (*Rubus sp.*).

#### *3.10.2 Wildlife*

The greater Puget Sound area is rich in marine, freshwater and wetland species, including invertebrates, birds, fish, mammals, and plankton. Common species found throughout western Washington include deer, elk, fox, bobcat, coyote, hare, raccoon, river otter, beaver, muskrat, small rodents, shrews, hawks, owls, ducks, geese, swallows, red-winged blackbird, killdeer, woodpeckers and a variety of song birds (USFWS 2010).

A 1995 ecological survey conducted by Hart Crowser of the Manchester Annex Superfund site observed American crow, rock dove, pheasant, song sparrow, chipping sparrow, American robin and coyote (Hart Crowser 1996).

#### *3.10.3 ESA and T&E Species*

The United States Fish and Wildlife Service (USFWS) Western Washington Region's website, accessed on 13 May 2010, provided information about the listed and proposed Endangered Species, Threatened Species, Critical Habitat, Concern and Candidate Species in Kitsap County. The database provided two ESA listed species, one candidate species and twelve species of concern (Appendix A).

### **3.11 Historical/Cultural Resources**

Existing structures at the site are a well house associated with past investigation and monitoring of the National Priority List site (Reference Section 4.13) and a salmon spawning channel constructed by NOAA. According to NOAA personnel the spawning channel was constructed about 12 years ago. Both structures are outside of the proposed building footprint. In addition, the building area has been previously disturbed. According to NOAA personnel, approximately 2 feet of fill material covers the area. Three tribes have traditional lands within the Kitsap Peninsula, the Suquamish, Port Gamble S'Klallam, and Skokomish.

### **3.12 Wildlife Refuges**

National Wildlife Refuges (NWR) located in Washington are listed in a database maintained by the USFWS. According to the USFWS database reviewed online 21 May 2010, the nearest NWR is Nisqually National Wildlife Refuge, 31.6 miles from the site in Olympia, Washington.

### **3.13 Contaminated Sites**

A database search provided by Environmental Data Resources, Inc. (EDR) was reviewed to identify any contamination concerns on or near the proposed project site. EDR reviews databases compiled by federal, state, and local governmental agencies. A summary of the database search is provided in Table 1, below. Five sites were identified as being within one mile of the proposed building site. Of the five sites, four appear to be associated with various areas of the Manchester Annex which the proposed building site utilizes a portion of. The Manchester Annex houses NOAA and EPA facilities and is also the location of National Priorities List site Old Navy Dump/Manchester Laboratory. The fifth mapped site refers to the FISC Puget Sound Fuel Depot located approximately 1/2 mile south-southeast of the proposed building site. The Bangor Naval Submarine Base, not mapped but listed in the Map Findings, is located approximately 10 miles to the northwest. In addition to mapped sites, the EDR report identified 11 sites that could not be mapped due to poor or inadequate address information. Of the 11 sites, 8 could not be located in the vicinity of the proposed building site. The remaining three sites (Country Junction Store, Wilkins Distributing Co. and Bowman Heating Oil) are located greater than 1 mile from the proposed building site and are of no concern. The EDR report is included in Appendix D.

The Old Navy Dump/Manchester Laboratory (Manchester Annex) National Priorities List site is located adjacent to the proposed building site and includes a portion of the MRS. The site was historically owned and operated by the U.S. Navy for submarine net maintenance, fire training, and waste disposal activities. The site is now owned and operated by the U.S. Environmental Protection Agency and NOAA. The Superfund site was comprised of a landfill, a fire training area, and contamination of the Clam Bay tidal flat. The landfill is located to the north of the MRS. The former fire training area is located at the MRS and currently serves as the parking lot for the facility. Cleanup activities at the

Manchester Annex site are complete. The second five year review was completed in 2009. Residual levels of petroleum hydrocarbons remain in the soil at the former fire training pit. The area is capped and covered by the MRS parking lot. An institutional control plan (ICP) is in process but has not yet been completed. Per consultation with the United States Army Corps of Engineers (USACE), institutional controls are expected to include limitations on digging and/or personal protective equipment for personnel in areas where residual levels of petroleum hydrocarbons remain. All activities associated with the construction of the pole building are anticipated to be outside the boundaries of institutional controls.

The proposed building site is not within any of the identified contaminated sites, is outside any anticipated institutional control area, is higher in elevation, and was not a part of the cleanup. Two monitoring wells associated with the Superfund site are located on NOAA property. One is on the proposed building site (well house to the west of the proposed building footprint). However, the local groundwater is not a source of potable water or other water uses.

**Table 1 EDR Database Search Summary**

Type of Database	Description of Database	Search Radius (Miles)	Number of Sites Plotted
NPL	National Priorities List	1.0	1
Proposal NPL	Proposed National Priorities List Sites	1.0	0
NPL Liens	National Priority List properties with liens	TP	0
Delisted NPL	Delisted National Priority List Sites	1.0	0
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System	0.5	1
Federal Facility	Federal Facility Site Information Listing	1.0	0
CERC – NFRP	CERCLIS No Further Remedial Action Planned	0.5	0
CORRACTS	Corrective Action Report	1.0	1
RCRA-TSDF	Resource Conservation and Recovery Act – Treatment, Storage and Disposal Facility	0.5	0
RCRA - LQG	Resource Conservation and Recovery Act – Large Quantity Generator	0.25	0
RCRA - SQG	Resource Conservation and Recovery Act – Small Quantity Generator	0.25	0
RCRA - CESQG	Resource Conservation and Recovery Act – Conditionally Exempt Small Quantity Generator	0.25	0
US ENG CONTROLS	Engineering Controls Site List	0.5	1
US INST CONTROLS	Institutional Controls Site List	0.5	1
ERNS	Emergency Response Notification System	TP	0
HSL	State of Washington Hazardous Site List	1.0	1
CSCSL	State of Washington Confirmed and Suspected Hazardous Site List	1.0	1
SWF/LF	State Solid Waste Facilities/Landfills	0.5	0

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Type of Database	Description of Database	Search Radius (Miles)	Number of Sites Plotted
LUST	State of Washington Leaking Underground Storage Tank Listing	0.5	0
Indian LUST	Leaking Underground Storage Tanks on Indian Land	0.5	0
UST	State of Washington Underground Storage Tank Listing	0.25	0
AST	State of Washington Above Ground Storage Tank Listing	0.25	0
INDIAN UST	Underground Storage Tanks on Indian Land	0.25	0
FEMA UST	Listing of Federal Emergency Management Agency Owned Underground Storage Tanks	0.25	0
INST CONTROL	State of Washington List of Sites With Institutional Controls	0.5	0
VCP	State of Washington Voluntary Cleanup Program	0.5	0
Indian VCP	Indian Voluntary Cleanup Program	0.5	0
ICR	State of Washington Independent Cleanup Reports	0.5	0
Brownfields	State of Washington Brownfield Sites	0.5	0
US Brownfields	Environmental Protection Agency Listing of Brownfield Sites	0.5	0
ODI	Open Dump Inventory	0.5	0
Debris Region 9	Torres Martinez Illegal Dump Site Information	0.5	0
SWTIRE	State of Washington Solid Waste Tire Facilities	0.5	0
Indian ODI	Report On Status of Open Dumps on Indian Land	0.5	0
USCDL	U.S. Clandestine Drug Lab Listing	TP	0
All Sites	State of Washington Facility/Site Identification System Listing	0.5	2
CSCSL NFA	State of Washington Confirmed and Contaminated Sites No Further Action Planned	0.5	0
CDL	State of Washington Clandestine Drug Lab Listing	TP	0
HIST CDL	List of Sites Contaminated By Clandestine Drug Labs	TP	0
US HIST CDL	National Clandestine Drug Lab Register	TP	0
LIENS 2	CERCLA Lien Information	TP	0
LUCIS	U.S. Navy Land Use Control Information System	0.5	0
HMIRS	U.S. Department of Transportation Hazardous Materials Information Reporting System	TP	0
Spills	State of Washington Spills Listing	TP	0
RCRA-NonGen	Resource Conservation and Recovery Action listing of Non-Generators	0.25	0

### **3.14 Public Services**

The existing MRS facility is served by the Manchester Water District (potable water), the Kitsap County Sewer District, Puget Sound Energy, the Kitsap County Sheriff's Office and the Kitsap County Fire Marshall's Office. Existing utility lines will be extended to serve the proposed building (Figure 3). The utilities that will be extended to the proposed building will be buried under an existing asphalt road.

## **4.0 ENVIRONMENTAL CONSEQUENCES**

The environmental impacts from the proposed project are evaluated from the perspective of significance according to CEQ regulations and NOAA NAO 216-6 guidance. Those environmental impacts which either represent a potential concern or require mitigation are identified in this section.

### **4.1 Land Use**

There would be no adverse impact to land use at the proposed building site or surrounding areas. Land use in the area is rural industrial and is anticipated to remain the same in the foreseeable future. The proposed project would be located within the existing NOAA Manchester Research Station so it would be a compatible land use. Other facilities currently existing at the MRS are used for similar purposes. The newly constructed facility would support current and ongoing operations.

#### *4.1.1 Coastal Zone Management*

The State of Washington Department of Ecology (DOE) implements the national CZM Program through the Washington Shoreline Management Act. Local Shoreline Master Programs apply the Shoreline Management Act at the community level. Kitsap County is responsible for the Shoreline Master Program in the Port Orchard area. The program is currently being updated with a target completion date of 2012. An overarching stated purpose of the program is to ensure a priority for uses that require a shoreline location with an emphasis on uses that control pollution and prevent damage to the natural environment. The proposed facility would require a marine water source to meet NOAA's objectives of rearing captive salmon broodstocks in seawater as a critical phase in the salmon life cycle. Recycling marine water from Clam Bay is necessary to meet this purpose, and therefore the need for a shoreline location is consistent with Washington Shoreline Management Act and Kitsap County Shoreline Master Program.

Activities conducted within Washington's coastal counties which involve federal activities require a written CZM Consistency Determination. The DOE has been consulted in accordance with the CZM Program and has agreed that the proposed project is consistent. The CZM Consistency Determination and associated correspondence with the DOE is in Appendix C.

#### **4.1.2 Socioeconomics**

The proposed project would not result in the infusion of significant monies into the local or regional economy. However, financial benefit from the continuation of the ESA programs at MRS would continue. The project is not expected to generate any new jobs, but would help maintain existing jobs. The project should have a small but positive impact on the socioeconomics of the community.

#### **4.1.3 Traffic & Circulation**

Construction of the proposed building at the MRS site is not anticipated to create any significant or operational adverse transportation impacts. Construction impacts would be minor and temporary. There would be no significant increase in staffing or vehicle trips as a direct result of the proposed project.

#### **4.1.4 Visual Quality**

Visual quality is not a significant concern for this project since the proposed building would be located in a rural industrial setting. In addition, the building would not change the aesthetic quality of the area as it would be similar to structures already existing at the MRS and surrounding areas.

#### **4.1.5 Noise**

There would be minor temporary noise impacts during project construction due to a small increase in vehicle traffic and the use of construction equipment. It is not anticipated that mitigation measures would be necessary since proposed building site is located in a rural industrial area and the near adjacent neighbors are not likely to be sensitive to the levels of noise generated. The construction contractor would comply with local noise ordinances and respond accordingly if complaints are received. Once project construction is completed, there would be no noise impacts.

#### **4.1.6 Recreational Resources**

The proposed project should not impact recreational resources in the area. The proposed building site is owned by NOAA and is an extension of the MRS. In addition, the area is within the Manchester Annex which is a rural industrial area that houses operations of NOAA and EPA.

### **4.2 Topography**

The project would have no impact on the topography of the area. The building site is relatively flat and is currently covered with approximately 2 feet of fill.

### **4.3 Climate**

The proposed project would have no perceptible effect on climate in the area. The increase in energy and associated greenhouse gases to power the proposed facilities is insignificant.

### **4.4 Air Quality**

There would be small, temporary impacts to air quality during the construction of

the preferred alternative due to a minor increase in vehicle traffic, operation of construction equipment, and a localized increase in particulate matter (dust) during building construction. Through the use of construction best management practices (BMPs) and mandating that the construction contractor abide by all local, state and federal air quality regulations, these temporary impacts would be minimized.

Kitsap County is currently in attainment with EPA air quality standards and the proposed project would not significantly increase traffic volume or result in significant emissions of any primary pollutants. Therefore, the impacts should not represent a significant adverse effect.

#### **4.5 Geology**

The proposed action would not have any adverse impact to the geology of the area. Based on historical records of seismic activity and recent geophysical research, the Puget Sound region, including the proposed building site, is subject to risk of earthquake damage as a result of ground shaking; surface faulting, subsidence and uplift, landslides, soil liquefaction, and tsunami (King County 2004). However, the extent of damage to a specific area or structure is a function of an earthquake's magnitude, depth, distance, and duration, as well as thickness and type of geologic materials, and building construction. In general, loose and/or unconsolidated material tends to amplify ground motion relative to consolidated sediments and bedrock. The building would be constructed in accordance with construction codes, including seismic provisions, currently applicable to Kitsap County.

#### **4.6 Hydrology**

The proposed action would not result in any significant impact to drainage or water quality in the area. The constructed building would have gutters and downspouts to handle storm water runoff. Area disturbed during construction would be re-vegetated and Best Management Practices (BMPs) would be followed to reduce surface water runoff velocity and associated erosion. Because the proposed building site is less than one acre in size, an EPA National Pollution Discharge Elimination System (NPDES) Construction Stormwater permit would not be required.

#### **4.7 Hydrogeology**

The proposed building would be a shallow foundation such as spread footings. There should be no effect on groundwater in the area. In addition, the groundwater is not used as a potable water source. Data indicates that the aquifer would not produce enough to be a viable source of water (Hart Crowser 1996).

#### **4.8 Floodplains**

Review of FEMA Flood Insurance Map (FIRM) Community Panel Number 383 of 525, Map #53035C0383D for Kitsap County, Washington indicated that the

subject site is not located within a 100-year floodplain. The referenced map is included in Appendix A.

#### **4.9 Marine**

As previously discussed, the MRS draws water from Clam Bay for use in saltwater tanks for rearing fish. The proposed building would house twelve saltwater tanks that would also utilize the Clam Bay water source. According to NOAA staff, marine effluent from the saltwater tanks is treated with ozone at approximately 1 part per million. This treatment system is formula based (gas input rate is adjusted to wastewater flow rate) with periodic checks taking place via Oxidation Reduction Potential method. The process oxidizes all possible pathogens as well as any iodine to clean the fish tanks. The tanks do not require much cleaning because saltwater is circulated through them at 50 gallons per minute. On average 1 to 2 tanks are drained and cleaned with iodine per year.

In Washington State, the United States EPA enforces the NPDES Program for Federal Agencies. The NPDES permit program regulates the discharge of pollutants into waters of the United States. According to a letter from EPA dated 6 August 2009 (Appendix A) and correspondence with the EPA Region 10 NPDES Permits Unit on 19 May 2010 (Appendix C), the MRS does not need coverage under an NPDES permit to discharge the subject marine effluent to Clam Bay provided production and feed levels remain below the thresholds for coverage under Permit No. WAG1030000. The thresholds for coverage under that permit are those for a Concentrated Aquatic Animal Production (CAAP) facility: 20,000 pounds of fish produced per year and 5,000 pounds of food fed during the calendar month of maximum feeding. Based on information provided by NOAA, current production and feed levels are approximately 9,180 pounds and 2,240 pounds, respectively. The increase in production and feed levels, due to the operation of the proposed facilities, would not exceed the CAAP facility thresholds.

#### **4.10 Biotic**

##### *4.10.1 Vegetation*

There could be short term, temporary adverse impacts to the plant community surrounding the site during construction. However, because the building site has been previously disturbed, there would be no significant impact. In addition, the area would be re-vegetated once construction is complete.

##### *4.10.2 Wildlife*

There could be short term, temporary disturbance to the wildlife in the area during construction. However, there should be no long term impacts. No critical habitat is being disrupted.

##### *4.10.3 ESA and T&E Species*

Section 7 of the ESA requires all federal agencies to consider and avoid, if

possible, adverse impacts to federally-listed or endangered species or their critical habitat, which may result from their direct, regulatory, or funding actions. Section 9 of the ESA also prohibits the “taking” of any federally-listed species by any person without prior authorization. The term “taking” is broadly defined at the federal level and explicitly extends to any habitat modifications that may significantly impair the ability of that species to feed, reproduce, or otherwise survive.

The USFWS was consulted regarding the proposed project. The USFWS indicated that the project would not affect listed species or trust resources provided that adequate precautions are taken during operations of the new facility to ensure that no pathogens or measureable quantities of chemicals are released into the marine environment. Existing marine effluent treatment systems are adequate to serve both existing facilities and the new pole building and maintain effluent levels below NPDES discharge levels. These discharge levels protect marine species.

#### **4.11 Historical/Cultural Resources**

The proposed building site was cleared many years ago, covered with about two feet of fill material, and allowed to revegetate with grasses and weeds. The site is currently used as a storage and staging yard, and was formerly used as a Navy ball field. A site reconnaissance indicated that there are no historic structures on the proposed project site. Previous projects in the immediate vicinity, such as the spawning channel, have not yielded any evidence of important cultural or archaeological resources. Three tribes (Suquamish, Port Gamble S'Klallam, and Skokomish) that traditionally use Kitsap Peninsula lands were contacted regarding the proposed project. The Suquamish Tribe requested that a professional archaeologist monitor all ground-disturbing construction excavation and that they be notified when construction monitoring occurs. As a precautionary measure NOAA agreed to the monitoring. The other two Tribes had no concerns. Additionally, the Washington Department of Archaeology and Historical Preservation was consulted. No evidence has been found of significant historical, cultural, or archaeological resources at the project site, and no further investigation is warranted. Correspondence is provided in Appendix C.

#### **4.12 Wildlife Refuges**

The proposed project would have no impact on Wildlife Refuges. A database search indicated that the closest NWR is 31.6 miles from the proposed building site.

#### **4.13 Contaminated Sites**

The proposed project would have no impact on the Old Navy Dump/Manchester Lab Superfund site. The building site is outside of the area subject to institutional controls and groundwater in the area is not a source of potable water. Construction personnel would be made aware of restrictions on digging at the former fire training pit.

#### **4.14 Public Services**

The proposed project would not result in a perceptible increase in the need for public services in the area. Existing services have the capacity to support the new building. Infrastructure currently in place and serving the MRS would be extended to the new building.

No schools would be impacted by the proposed project since there would be no increase in the MRS staffing levels. The proposed alternative could provide educational opportunities for schools and other groups.

#### **4.15 Growth Inducing Impacts**

The proposed project is intended to provide additional fish rearing space to support obligations of NOAA to ESA programs. This project is part of an existing facility, MRS, and should not directly influence additional expansion in the area. The project is not expected to result in additional employment or significant resource usage. The changes associated with the added facility would be minor and are not anticipated to represent a significant impact, adverse or otherwise.

#### **4.16 Cumulative Impacts**

The project is proposed in response to a need to address endangered species obligations for two stocks of Chinook salmon. The proposed MRS facility would support the seawater breeding program. Two existing facilities, the Kendall Creek Hatchery on Kendall Creek (a tributary to the Nooksack River) and Skookum Hatchery will support the freshwater program. The Washington Department of Fish and Wildlife is responsible for the Kendall Creek Hatchery. The Nooksack and Lummi Tribes are responsible for the Skookum Hatchery.

This proposed action is a small project in support of a larger NOAA effort to implement Endangered Species Act obligations for the recovery of Pacific Coast salmon. Broader salmon management issues were reviewed in 2003 through a programmatic environmental impact statement (NOAA 2003). This proposed action would have no adverse cumulative impact on the environment.

### **5.0 MITIGATION MEASURES**

#### **5.1 Preferred Alternative**

The proposed action would result in the construction of a pole building for fish rearing at Manchester Research Station to meet NOAA's fish rearing obligations under the ESA. The proposed action would not result in significant impacts to the environment. The proposed building site is situated adjacent to the existing research facility and would use available capacity from existing infrastructure. Best management practices should be employed during construction for minimizing the impacts to the air, water, and noise environment, and for proper handling of hazardous materials. At the request of the Suquamish Tribe, a

professional archaeologist will be on site to monitor all ground-disturbing activities during building construction. No additional mitigation measures have been identified for this project. There should be virtually no impact once the facility is operational.

## **5.2 No Action**

Under the No Action Alternative, existing NOAA facilities would remain unchanged and would not result in additional impacts to the natural environment.

## **6.0 PUBLIC COMMENT**

The Draft Environmental Assessment was made available for public and agency review and comment from July 2, 2010 until August 2, 2010. The Draft EA and public notice announcement were posted to the NOAA website at the following address: ([http://www.seco.noaa.gov/NWFSC\\_Manchester\\_EA.html](http://www.seco.noaa.gov/NWFSC_Manchester_EA.html)). A public notice announcement was also published in the Kitsap Sun newspaper and on the Kitsap Sun website. No comments were received.

## **7.0 LIST OF PREPARERS AND AGENCIES CONSULTED**

The following is a list of preparers:

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Years of Experience: 2

Federal, state and local agencies were consulted regarding the proposed project or for information for inclusion in this environmental assessment. A list of agencies contacted is presented in Appendix C. Many of the agencies were sent a letter including a project description and request for comments or concerns, this correspondence is also presented in Appendix C.

## 8.0 REFERENCES

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**Appendix A - Reference Materials**

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## MANCHESTER STATE PARK

ZONE AE  
(EL 13)

MAP SCALE 1" = 500'  
250 0 500 1000 FEET

ZONE X

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PARK BOUNDARY  
KITSAP COUNTY

ZONE AE  
Approximate Location of  
Proposed Building

Clam Bay

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## Definitions of FEMA Flood Zone Designations

Flood zones are geographic areas that the FEMA has defined according to varying levels of flood risk. These zones are depicted on a community's Flood Insurance Rate Map (FIRM) or Flood Hazard Boundary Map. Each zone reflects the severity or type of flooding in the area.

### Moderate to Low Risk Areas

In communities that participate in the NFIP, flood insurance is available to all property owners and renters in these zones:

ZONE	DESCRIPTION
B and X (shaded)	Area of moderate flood hazard, usually the area between the limits of the 100-year and 500-year floods. B Zones are also used to designate base floodplains of lesser hazards, such as areas protected by levees from 100-year flood, or shallow flooding areas with average depths of less than one foot or drainage areas less than 1 square mile.
C and X (unshaded)	Area of minimal flood hazard, usually depicted on FIRMs as above the 500-year flood level. Zone C may have ponding and local drainage problems that don't warrant a detailed study or designation as base floodplain. Zone X is the area determined to be outside the 500-year flood and protected by levee from 100-year flood.

### High Risk Areas

In communities that participate in the NFIP, mandatory flood insurance purchase requirements apply to all of these zones:

ZONE	DESCRIPTION
A	Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Because detailed analyses are not performed for such areas; no depths or base flood elevations are shown within these zones.
AE	The base floodplain where base flood elevations are provided. AE Zones are now used on new format FIRMs instead of A1-A30 Zones.
A1-30	These are known as numbered A Zones (e.g., A7 or A14). This is the base floodplain where the FIRM shows a BFE (old format).
AH	Areas with a 1% annual chance of shallow flooding, usually in the form of a pond, with an average depth ranging from 1 to 3 feet. These areas have a 26% chance of flooding over the life of a 30-year mortgage. Base flood elevations derived from detailed analyses are shown at selected intervals within these zones.
AO	River or stream flood hazard areas, and areas with a 1% or greater chance of shallow flooding each year, usually in the form of sheet flow, with an average depth ranging from 1 to 3 feet. These areas have a 26% chance of flooding over the life of a 30-year mortgage. Average flood depths derived from detailed analyses are shown within these zones.
AR	Areas with a temporarily increased flood risk due to the building or restoration of a flood control system (such as a levee or a dam). Mandatory flood insurance purchase requirements will apply, but rates will not exceed the rates for unnumbered A zones if the structure is built or restored in compliance with Zone AR floodplain management regulations.
A99	Areas with a 1% annual chance of flooding that will be protected by a Federal flood control system where construction has reached specified legal requirements. No depths or base flood elevations are shown within

these zones.

## High Risk - Coastal Areas

In communities that participate in the NFIP, mandatory flood insurance purchase requirements apply to all of these zones:

ZONE	DESCRIPTION
V	Coastal areas with a 1% or greater chance of flooding and an additional hazard associated with storm waves. These areas have a 26% chance of flooding over the life of a 30-year mortgage. No base flood elevations are shown within these zones.
VE, V1 - 30	Coastal areas with a 1% or greater chance of flooding and an additional hazard associated with storm waves. These areas have a 26% chance of flooding over the life of a 30-year mortgage. Base flood elevations derived from detailed analyses are shown at selected intervals within these zones.

## Undetermined Risk Areas

ZONE	DESCRIPTION
D	Areas with possible but undetermined flood hazards. No flood hazard analysis has been conducted. Flood insurance rates are commensurate with the uncertainty of the flood risk.

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

**(Revised November 1, 2007)**

**LISTED**

Bull trout (*Salvelinus confluentus*) [marine waters]

Marbled murrelet (*Brachyramphus marmoratus*) [marine waters]

Major concerns that should be addressed in your Biological Assessment of project impacts to listed 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.

**DESIGNATED**

None

**PROPOSED**

None

**CANDIDATE**

Yellow-billed cuckoo (*Coccyzus americanus*)

**SPECIES OF CONCERN**

Bald eagle (*Haliaeetus leucocephalus*)

Long-eared myotis (*Myotis evotis*)

Long-legged myotis (*Myotis volans*)

Northern goshawk (*Accipiter gentilis*)

Northern sea otter (*Enhydra lutris kenyoni*)

Northwestern pond turtle (*Emys (= Clemmys) marmorata marmorata*)

Pacific lamprey (*Lampetra tridentata*)

Pacific Townsend's big-eared bat (*Corynorhinus townsendii townsendii*)

Peregrine falcon (*Falco peregrinus*)

River lamprey (*Lampetra ayresi*)

Tailed frog (*Ascaphus truei*)

Western toad (*Bufo boreas*)

**ENDANGERED, THREATENED, PROPOSED, AND CANDIDATE SPECIES, CRITICAL HABITAT, AND SPECIES OF CONCERN IN WESTERN WASHINGTON<sup>1</sup>**

COMMON NAME	SCIENTIFIC NAME	RECOVERY PRIORITY NUMBER
<b>Endangered Animals</b>		
Columbian white-tailed deer	<i>Odocoileus virginianus leucurus</i>	9c
Gray wolf	<i>Canis lupus</i>	3c
Leatherback sea turtle	<i>Dermochelys coriacea</i>	1
Short-tailed albatross	<i>Phoebastria albatrus</i>	8
<b>Endangered Plants</b>		
Bradshaw's desert-parsley	<i>Lomatium bradshawii</i>	2
Marsh sandwort	<i>Arenaria paludicola</i>	5
<b>Threatened Animals</b>		
Bull trout (Coastal-Puget Sound and Columbia River DPS)	<i>Salvelinus confluentus</i>	9c
Canada lynx	<i>Lynx canadensis</i>	15
Green sea turtle	<i>Chelonia mydas</i>	1c
Grizzly bear	<i>Ursus arctos horribilis</i>	3c
Loggerhead sea turtle	<i>Caretta caretta</i>	7c
Marbled murrelet	<i>Brachyramphus marmoratus</i>	2
Northern spotted owl	<i>Strix occidentalis caurina</i>	6c
Olive ridley sea turtle	<i>Lepidochelys olivacea</i>	8c
Oregon silverspot butterfly	<i>Speyeria zerene hippolyta</i>	3c
Western snowy plover	<i>Charadrius alexandrinus nivosus</i>	3c
<b>Threatened Plants</b>		
Golden paintbrush	<i>Castilleja levisecta</i>	2
Kincaid's lupine	<i>Lupinus sulphureus</i> ssp. <i>Kincaidii</i>	9
Nelson's checker-mallow	<i>Sidalcea nelsoniana</i>	5
Water howellia	<i>Howellia aquatilis</i>	7
<b>Designated Critical Habitat</b>		
Marbled murrelet		
Northern spotted owl		
Western snowy plover, Pacific Coast Population		
Bull Trout		
Kincaid's lupine		
<b>Proposed Species</b>		
Dolly Varden ( <i>Salvelinus malma</i> ) similarity of appearance		
<b>Proposed Critical Habitat</b>		
Revised marbled murrelet critical habitat		

COMMON NAME	SCIENTIFIC NAME	LISTING PRIORITY NUMBER
<b>Candidate<sup>2</sup> Animals</b>		
Fisher (West Coast DPS)	<i>Martes pennanti</i>	6
Mardon skipper	<i>Polites mardon</i>	8
Mazama pocket gopher	<i>Thomomys mazama</i> (ssp. <i>couchi</i> , <i>douglasii</i> , <i>glacialis</i> , <i>louiei</i> , <i>melanops</i> , <i>pugetensis</i> , <i>tacomensis</i> , <i>tumuli</i> , <i>yelmensis</i> )	3
Oregon spotted frog	<i>Rana pretiosa</i>	2
Streaked horned lark	<i>Eremophila alpestris strigata</i>	3
Taylor's (Whulge or Edith's) checkerspot butterfly	<i>Euphydryas editha taylori</i>	3
Yellow-billed cuckoo	<i>Coccyzus americanus</i>	3
<b>Candidate<sup>2</sup> Plants</b>		
Northern wormwood	<i>Artemisia campestris</i> ssp. <i>borealis</i> var. <i>wormskioldii</i>	3
<b>Animal Species of Concern<sup>3</sup></b>		
Aleutian Canada goose	<i>Branta canadensis leucopareia</i>	
Bald eagle	<i>Haliaeetus leucocephalus</i>	
Beller's ground beetle	<i>Agonum belleri</i>	
Brown pelican	<i>Pelecanus occidentalis</i>	
California bighorn sheep	<i>Ovis canadensis californiana</i>	
California floater (mussel)	<i>Anodonta californiensis</i>	
California wolverine	<i>Gulo gulo luteus</i>	
Cascades frog	<i>Rana cascadae</i>	
Cassin's auklet	<i>Ptychoramphus aleuticus</i>	
Coastal cutthroat trout	<i>Oncorhynchus clarki clarki</i>	
Columbia pebblesnail	<i>Fluminicola columbianus</i>	
Columbia torrent salamander	<i>Rhyacotriton kezeri</i>	
Destruction Island shrew	<i>Sorex trowbridgii destructioni</i>	
Fender's soliperlan stonefly	<i>Soliperla fenderi</i>	
Fringed myotis (bat)	<i>Myotis thysanodes</i>	
Hatch's click beetle	<i>Eanus hatchi</i>	
Island large marble butterfly	<i>Euchloe ausonides insulanus</i>	
Larch Mountain salamander	<i>Plethodon larselli</i>	
Long-eared myotis	<i>Myotis evotis</i>	
Long-legged myotis	<i>Myotis volans</i>	
Makah's copper butterfly	<i>Lycaena mariposa charlottensis</i>	
Margined sculpin	<i>Cottus marginatus</i>	
Newcomb's littorine snail	<i>Algamorda newcomiana</i>	
Northern goshawk	<i>Accipiter gentilis</i>	
Northern sea otter	<i>Enhydra lutris kenyoni</i>	
Northwestern pond turtle	<i>Emys (= Clemmys) marmorata marmorata</i>	
Olive-sided flycatcher	<i>Contopus cooperi</i>	
Olympic torrent salamander	<i>Rhyacotriton olympicus</i>	
Oregon vesper sparrow	<i>Pooecetes gramineus affinis</i>	

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COMMON NAME	SCIENTIFIC NAME
<b>Animal Species of Concern<sup>3</sup></b>	
<b>(Cont'd)</b>	
Pacific lamprey	<i>Lampetra tridentata</i>
Pacific Townsend's big-eared bat	<i>Corynorhinus townsendii townsendii</i>
Pale Townsend's big-eared bat	<i>Corynorhinus townsendii pallescens</i>
Peregrine falcon	<i>Falco peregrinus</i>
River lamprey	<i>Lampetra ayresi</i>
Small-footed myotis	<i>Myotis ciliolabrum</i>
Slender-billed white-breasted nuthatch	<i>Sitta carolinensis aculeata</i>
Tailed frog	<i>Ascaphus truei</i>
Tufted puffin	<i>Fratercula cirrhata</i>
Valley silverspot butterfly	<i>Speyeria zerene bremnerii</i>
Van Dyke's salamander	<i>Plethodon vandykei</i>
Western gray squirrel	<i>Sciurus griseus griseus</i>
Westslope cutthroat trout	<i>Oncorhynchus (=Salmo) clarki lewisi</i>
Western toad	<i>Bufo boreas</i>
<b>Plant Species of Concern<sup>3</sup></b>	
Barrett's beardtongue	<i>Penstemon barrettiae</i>
Clackamas corydalis	<i>Corydalis aquae-gelidae</i>
Clustered lady's slipper	<i>Cypripedium fasciculatum</i>
Columbia yellow-cress	<i>Rorippa columbiae</i>
Cotton's milk-vetch	<i>Astragalus australis</i> var. <i>olympicus</i>
Footsteps of spring; bear's foot sanicle	<i>Sanicula arctopoides</i>
Frigid shootingstar	<i>Dodecatheon austrofrigidum</i>
Gorge daisy	<i>Erigeron oreganus</i>
Howell's daisy	<i>Erigeron howellii</i>
Obscure paintbrush	<i>Castilleja cryptantha</i>
Oregon sullivantia	<i>Sullivantia oregana</i>
Pale blue-eyed grass	<i>Sisyrinchium sarmentosum</i>
Pale larkspur	<i>Delphinium leucophaeum</i>
Pink sandverbena	<i>Abronia umbellata</i> ssp. <i>Acutalata</i>
Queen of the forest	<i>Filipendula occidentalis</i>
Rose checker-mallow	<i>Sidalcea malviflora</i> ssp. <i>Virgata</i>
Seely's silene	<i>Silene seelyi</i>
Stalked moonwort	<i>Botrychium pedunculosum</i>
Tall bugbane	<i>Cimicifuga elata</i>
Torrey's peavine	<i>Lathyrus torreyi</i>
Triangular-lobed moonwort	<i>Botrychium ascendens</i>
Whitebark pine	<i>Pinus albicaulis</i>
White meconella	<i>Meconella oregana</i>
White-top aster	<i>Sericocarpus rigidus</i>

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<sup>1</sup>Hyperlinks are provided for species specific information available from the U.S. Fish and Wildlife Service's Environmental Conservation Online System. Recovery plans, listing actions, and critical habitat information are available at these hyperlinks.

<sup>2</sup>Candidate species are those species for which FWS has sufficient information to propose for listing. Hyperlinks are provided where available for electronic candidate forms or *Federal Register* notice of petition finding.

<sup>3</sup>Species of concern are those species whose conservation status is of concern to FWS, but more information is needed.

NOAA Fisheries threatened and endangered species list:

[http://www.nmfs.noaa.gov/prot\\_res/species/ESA\\_species.html](http://www.nmfs.noaa.gov/prot_res/species/ESA_species.html)

Information for [eastern Washington species](#) can be found on the [Upper Columbia Fish and Wildlife Office](#) web page and for all listed species on the U.S. Fish and Wildlife Service Endangered Species Home Page.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 10

1200 Sixth Avenue, Suite 900  
Seattle, WA 98101-3140

AUG 6 2009

Reply to: OWW-130

OFFICE OF  
WATER AND WATERSHEDS

Ms. Ann Byar  
NOAA Northwest Fisheries Science Center  
Manchester Research Station  
2725 Montlake Blvd. E.  
Seattle, WA 98112

Re: Request for Clarification on Applicability of WAG-13-0000 to the discharge from  
NOAA Northwest Fisheries Science Center, Manchester Research Station and  
NOAA Northwest Fisheries Science Center, Burley Creek Hatchery

Dear Ms. Byar:

In a July 31, 2009, letter, Usha Varanasi provided information and requested confirmation that the above referenced facilities would not need coverage under NPDES Permit No. WAG130000 for Federal Aquaculture Facilities and Aquaculture Facilities Located in Indian Country within the Boundaries of the State of Washington. We have recently finalized that permit, which became effective August 1, 2009.

The thresholds for coverage under that permit are those for a Concentrated Aquatic Animal Production (CAAP) facility: 20,000 pounds fish produced per year and 5,000 pounds of food fed in the calendar month of maximum feeding as well as discharging for at least 30 days per year.

According to information submitted with your letter, these facilities produce and feed at the levels below.

Facility	Production Levels	Food levels in maximum month
Manchester Research Station	9180 lbs	2240 lbs
Burley Creek Hatchery	2410 lbs	200 lbs.

These levels are below the production and feed thresholds for a CAAP facility. Therefore, the facilities are not point sources subject to regulation; NPDES permits are not required for discharge from the facilities unless EPA finds that one is a significant contributor of pollutants under the provisions of 40 CFR §122.24(c).

If you have any questions, please contact Sharon Wilson at (206) 553-0325 or at [wilson.sharon@epa.gov](mailto:wilson.sharon@epa.gov).

Sincerely,

Michael J. Lidgard, Manager  
NPDES Permits Unit

cc: Lori LeVander, Washington Dept. of Ecology NWRO

Environmental Assessment  
NWFSC, Manchester Research Station Salmon Recovery Building

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**Appendix B - Photographs**

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Photo 1: Proposed building site, facing east.



Photo 2: Fish tanks currently being used to rear salmon.



Photo 3: UV system used to treat filtered seawater that will go into the fish tanks.



Photo 4: Saltwater filtration system. Crushed glass filter in the background (green with PVC) and cartridge filter housing in the foreground (blue).



Photo 5: Ozone gas tank. All marine wastewater passes through the ozone treatment system before it is discharged to Clam Bay.



Photo 6: Clam Bay; treated effluent outfall.



Photo 7: Clam Bay shoreline facing EPA Laboratory. Saltwater intake pipe, center.



Photo 8: Clam Bay facing southeast.

**Appendix C - Agency Correspondences**

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**NOAA Seattle**

Thanh Minh Trinh, Program Manager  
206-526-6647

**NOAA Manchester Research Station**

Carlin McAuley, Head Biologist  
360-871-8314

Mike Wastel, Program Manager  
360-871-8323

James Hackett, Facilities Manager  
360-731-4267

**Skokomish Tribe**

Kris Miller, THPO  
Cultural Resources  
N. 80 Tribal Center Road,  
Skokomish, WA 98584  
[shlanay1@skokomish.org](mailto:shlanay1@skokomish.org)  
360-426-4232

**Port Gamble S'Klallam Tribe**

Marie Hebert, Director  
Cultural Resources  
31912 Little Boston Road NE,  
Kingston, WA 98346  
[marieH@pgst.nsn.us](mailto:marieH@pgst.nsn.us)  
360-297-6241

Paul McCollum, Director  
Natural Resources  
[PaulM@pgst.nsn.us](mailto:PaulM@pgst.nsn.us)  
360-297-6237

**Suquamish Tribe**

Alison O'Sullivan, Biologist  
18490 Suquamish Way NE,  
PO Box 498  
Suquamish, WA 98392  
[aosullivan@suquamish.nsn.us](mailto:aosullivan@suquamish.nsn.us)  
360-394-8447

Leonard Forsman, Chair  
[LForsman@suquamish.nsn.us](mailto:LForsman@suquamish.nsn.us)  
360-394-8461

Dennis Lewarch, Tribal Archaeologist  
[dlewarch@Suquamish.nsn.us](mailto:dlewarch@Suquamish.nsn.us)

Stephanie Trudel, Tribal Archaeologist  
[strudel@suquamish.nsn.us](mailto:strudel@suquamish.nsn.us)

Scott Crowell, Community Development Director  
[scrowell@suquamish.nsn.us](mailto:scrowell@suquamish.nsn.us)  
360-394-8415

**US Army Corps of Engineers**

May Carrell, Community Involvement Coordinator  
4735 East Marginal Way South  
Seattle, Washington 98124-2255  
(206) 764-3418  
[may.g.carrell@usace.army.mil](mailto:may.g.carrell@usace.army.mil)

**US Environmental Protection Agency**

Sharon Wilson, Permit Writer,  
NPDES Permits Unit, Region 10  
206-553-0325  
[Wilson.sharon@epa.gov](mailto:Wilson.sharon@epa.gov)

**US Fish and Wildlife Service  
Washington Fish and Wildlife Office**

Martha Jensen, Branch Manager  
Division of Consultation and Technical Assistance  
360-753-9000  
[martha\\_l.jensen@fws.gov](mailto:martha_l.jensen@fws.gov)

**Washington State Department of Ecology**

Raman Iyre, Water Quality, Northwest Regional Office  
425-649-4424, [RIYE461@ecy.wa.gov](mailto:RIYE461@ecy.wa.gov)

Rebekah Padgett, Shorelands and Environmental Assistance, Northwest Regional Office  
425-649-7129  
Phone Log: 5/17/2010 & 5/20/2010  
Conversation between Aislin Muto and Rebekah Padgett  
Summary: There will be no in-water work taking place, so need to contact Jessica Moore to get a CZM consistency determination form for a federal agency taking action in a coastal county.

Jessica Moore, Federal Permit Unit  
Shorelands and Environmental Assistance Program  
360-407-7421  
[Jemo461@ecy.wa.gov](mailto:Jemo461@ecy.wa.gov)

Alice Kelly, Northwest Regional Office Director  
425-649-7128  
Phone log: 5/19/2010  
Conversation between Aislin Muto and Alice Kelly  
Summary: It is okay for the Department of Ecology to send response based on the information provided.

**Washington State Department of Archeology & Historic Preservation**

Robert Whitlam, State Archaeologist  
360-586-3080  
[rob.whitlam@dahp.wa.gov](mailto:rob.whitlam@dahp.wa.gov)

## **Puget Sound Clean Air Agency**

Rick Hess, Supervising Inspector  
206.689.4029  
[rickh@pscleanair.org](mailto:rickh@pscleanair.org)

Phone Log: 5/13/2010

Conversation between Aislin Muto and Rick Hess

Summary: PSCAA has no concerns associated with the proposed building project because there will be no demolition and therefore no significant dust sources. Kitsap County is in attainment with the six NAAQS criteria pollutants; therefore PSCAA has no other air quality concerns with the construction or operation of the proposed building.

## **Kitsap Department of County Community Development**

Jeff Smith, Land Use Planner

360-337-7181

Phone Log: 5/17/2010

Aislin Muto left a voicemail message for Jeff Smith.

Phone Log: 5/18/2010

Conversation between Aislin Muto and Jeff Smith

Summary: Jeff forwarded our letter to David Greetham in Environmental. He also explained that it is the responsibility of the Community Development Department to contact all other County departments regarding possible concerns with the proposed building project (i.e. Public Works, Parks and Recreation, Sewer, Environmental, etc.). Jeff will compile all concerns from the County departments in a response back to us by Thursday 5/20/2010.

Phone Log: 5/20/2010

Aislin Muto left a message for Jeff Smith inquiring about the response we talked about last Tuesday.

Phone Log: 5/24/2010

Wendy Mitchell left a message for Jeff Smith.

## **Manchester Water District**

Kristen  
360-876-2545

Phone Log: 5/13/2010

Summary: No concerns other than need to call Line Locating 24 hour notification before digging: 1-555-1212.



CONSULTING GROUP

Anchorage  
3401 Minnesota Drive  
Suite 300  
Anchorage, AK 99503  
907-563-2137 phone  
907-563-2164 fax

Fairbanks  
543 3<sup>rd</sup> Avenue  
Suite 235  
Fairbanks, AK 99701  
907-452-2252 phone  
907-452-2256 fax

Seattle Area  
30545 SE 84<sup>th</sup> Street #5  
P.O. Box 525  
Preston, WA 98050  
425-222-7746 phone  
425-222-7849 fax

[www.hoefler.net](http://www.hoefler.net)

May 18, 2010

Ms. Sharon Wilson  
NPDES Permits Unit  
U.S. EPA, Region 10  
1200 Sixth Avenue Suite 900  
Seattle, WA 98101

**Subject: Proposed Construction of a Pole Building at Manchester Research Station, Port Orchard, Washington**

Dear Sharon Wilson,

Hoefler Consulting Group (Hoefler) has been contracted by the National Oceanic and Atmospheric Administration to conduct an Environmental Assessment to determine the potential impact from construction and operation of a proposed pole building at the Manchester Research Station. The building would be used to house salt water tanks for rearing salmon, as part of a restoration project for endangered species.

Per our conversation this morning I would like to confirm that as long as there will not be an increase in production or food levels to above the thresholds for coverage under NPDES Permit No. WAG130000, your organization has no further concerns associated with this proposed project.

I have attached a site map of the proposed building location. The address is 7305 Beach Drive East, Port Orchard, Washington 98366.

Sincerely,

A handwritten signature in black ink, appearing to read "Aislin Muto".

HCG, Inc.  
Aislin Muto  
Associate Scientist  
cc: Wendy Mitchell (Senior Scientist), Hoefler

## Aislin Muto

---

**From:** Wilson.Sharon@epamail.epa.gov  
**Sent:** Wednesday, May 19, 2010 1:28 PM  
**To:** Aislin Muto  
**Cc:** Wendy Mitchell; Lidgard.Michael@epamail.epa.gov  
**Subject:** Re: Proposed Pole Bldg. at the Manchester Research Station  
**Attachments:** EPA Letter.pdf; site maps.pdf

Aislin,

Thank you for the phone call and follow-up e-mail and attachments. You are correct in summarizing our conversation that we would not have NPDES permitting requirements if the facility stays below 20,000 pounds annual production or 5,000 pounds of feed in the maximum month of feeding. I do want to emphasize that if we determine that the facility is a significant contributor of pollutants to the receiving water, we can require that it submit a Notice of Intent to be covered under the General Permit for Federal Aquaculture Facilities in Washington (WAG130000).

Please let me know if you have any further questions.

Sharon Wilson  
NPDES Permits Unit  
EPA Region 10  
206-553-0325

**From:** "Aislin Muto" <amuto@hoeflernet.com>  
**To:** Sharon Wilson/R10/USEPA/US@EPA  
**Cc:** "Wendy Mitchell" <[wmitchell@hoeflernet.com](mailto:wmitchell@hoeflernet.com)>  
**Date:** 05/19/2010 12:26 PM  
**Subject:** Proposed Pole Bldg. at the Manchester Research Station

Dear Sharon Wilson,

Per our conversation this morning I would like to confirm that as long as there will not be an increase in production or food levels to above the thresholds for coverage under NPDES Permit No. WAG130000, your organization has no further concerns associated with this proposed project.

I have attached a letter and site map of the proposed building location. The address is 7305 Beach Drive East, Port Orchard, Washington 98366.

Aislin Muto,  
Hoefler Consulting Group  
425-222-7746 (office)  
360-201-4504 (cell)



May 12, 2010

Mrs. Martha Jensen  
Washington Fish and Wildlife Office  
U.S. Fish and Wildlife Service  
510 Desmond Drive S.E., Suite 102  
Lacey, Washington 98503-1273

Anchorage  
3401 Minnesota Drive  
Suite 300  
Anchorage, AK 99503  
907-563-2137 phone  
907-563-2164 fax

Fairbanks  
543 3<sup>rd</sup> Avenue  
Suite 235  
Fairbanks, AK 99701  
907-452-2252 phone  
907-452-2256 fax

Seattle Area  
30545 SE 84<sup>th</sup> Street #5  
P.O. Box 525  
Preston, WA 98050  
425-222-7746 phone  
425-222-7849 fax

[www.hoeflernet.com](http://www.hoeflernet.com)

**Subject: Proposed Construction of a Pole Building at Manchester Research Station, Port Orchard, Washington**

Dear Martha Jensen:

Hoefler Consulting Group (Hoefler) has been contracted by the National Oceanic and Atmospheric Administration to conduct an Environmental Assessment to determine the potential impact from construction and operation of a pole building at the Manchester Research Station. The building would be used to house salt water tanks for rearing South Fork Spring Chinook, collected from the Nooksack River as part of a restoration project for endangered species. All of the fish are captured as out migrants and identified via DNA testing. Each fish family (collected together) is kept in a separate tank. They are kept at the Manchester Research Station until maturation. The fish are then transferred to another fish hatchery for spawning and the 2<sup>nd</sup> generation is released back into the South Fork of the Nooksack River.

Per our telephone conversation, NPDES permits are not required for discharge from the Manchester Research Station because their production and feed levels are below threshold for a Concentrated Aquatic Animal Production facility. Operation of the proposed pole building will not increase production or food levels to exceed thresholds because fish families are housed separately which keeps the tanks well below capacity.

We would like to get an indication on whether or not your organization has any concerns associated with this proposed project.

I have attached a site map of the proposed building location. The address is 7305 Beach Drive East, Port Orchard, Washington 98366.

Hoefler is on a tight schedule for completion of the Environmental Assessment therefore, we would appreciate a response by Friday May 14, 2010.

Sincerely,

Two handwritten signatures are shown. The first signature on the left is "Aislin Muto" and the second signature on the right is "Wendy Mitchell".

HCG, Inc.  
Aislin Muto  
Associate Scientist  
cc: Wendy Mitchell (Senior Scientist), Hoefler

## Aislin Muto

---

**From:** Martha\_L\_Jensen@fws.gov  
**Sent:** Thursday, May 13, 2010 7:36 AM  
**To:** Aislin Muto  
**Cc:** tom.sibley@noaa.gov  
**Subject:** Re: Proposed Construction of a Pole Building at NWFSC's Manchester Research Station, Port Orchard, WA  
**Attachments:** site maps.pdf; USFWS Letter.pdf

Aislin

Based on the information you provided, this action will not affect FWS listed species or trust resources provided that adequate precautions are taken during operations of the new facility to ensure that no pathogens or measurable quantities of chemicals are released into the marine environment.

---

Martha Jensen  
Branch Manager,  
Division of Consultation and Technical Assistance  
Washington Fish and Wildlife Office  
510 Desmond Dr SE  
Lacey, WA 98503  
tel: (360) 753-9000/ fax: (360) 753-9008  
[martha\\_L\\_jensen@fws.gov](mailto:martha_L_jensen@fws.gov)

"Aislin Muto" <[amuto@hoeflernet.com](mailto:amuto@hoeflernet.com)>

05/12/2010 12:11 PM

To <[martha\\_L\\_jensen@fws.gov](mailto:martha_L_jensen@fws.gov)>

cc "Wendy Mitchell" <[wmitchell@hoeflernet.com](mailto:wmitchell@hoeflernet.com)>

Subject Proposed Construction of a Pole Building at NWFSC's Manchester Research Station,  
Port Orchard, WA

Dear Martha Jensen,

Please find the attached letter and site maps per our telephone discussion this morning.

Thank you for your input on this project.

Aislin Muto

Associate Scientist  
Hoefer Consulting Group  
425-222-7746 (office)

30545 SE 84th St., #5  
PO Box 525  
Preston, WA 98050

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425-222-7746 phone  
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May 13, 2010

Mr. Raman Iyer  
Ecology Northwest Regional Office  
3190 - 160th Ave. SE  
Bellevue, WA 98008-5452

**Subject: Proposed Construction of a Pole Building at Manchester Research Station, Port Orchard, Washington**

Dear Raman Iyer:

Hoefler Consulting Group (Hoefler) has been contracted by the National Oceanic and Atmospheric Administration to conduct an Environmental Assessment to determine the potential impact from construction and operation of a proposed pole building at the Manchester Research Station. The building would be used to house salt water tanks for rearing South Fork Spring Chinook, as part of a restoration project for endangered species.

We would like to get an indication on whether or not your organization has any concerns associated with this proposed project.

I have attached a site map of the proposed building location. The address is 7305 Beach Drive East, Port Orchard, Washington 98366.

Hoefler is on a tight schedule for completion of the Environmental Assessment therefore, we would appreciate a response by Friday May 14, 2010.

Sincerely,

Handwritten signatures of Aislin Muto and Wendy Mitchell. The signature for Aislin Muto is on the left, and the signature for Wendy Mitchell is on the right. Below the signatures, the text "HCG, Inc." is printed.

Aislin Muto  
Associate Scientist

cc: Wendy Mitchell (Senior Scientist), Hoefler

## Aislin Muto

---

**From:** Iyer, Raman (ECY) [RIYE461@ECY.WA.GOV]  
**Sent:** Wednesday, May 19, 2010 12:03 PM  
**To:** Aislin Muto  
**Cc:** Wendy Mitchell; Kelly, Alice (ECY); Padgett, Rebekah (ECY)  
**Subject:** RE: Proposed Construction of a Pole Building at NWFSC's Manchester Research Station, Port Orchard, WA

Hello Aislin:

Per your request, Department of Ecology has no concerns at the present based on the information you have provided us regarding proposed construction of a pole building at the Manchester Research Station located in Port Orchard. I contacted two other programs within Ecology, Shorelands (SEA) and Toxics Clean (TCP) programs and the feedback from these programs have raised no concerns either regarding this project. However, If the total area of land disturbance is higher than 1 acre and a surface water discharge from the proposed project to the waters of the state, there will be a need for the Construction General Stormwater permit.

I presume this proposal will go through SEPA process as part of procuring grading and building permits for this project from local government. At that time, Ecology will receive a more detailed project proposal and will again provide another opportunity for Ecology to comment on this project.

If you have any questions, please call or email me.

Thank you

Raman Iyer  
Supervisor (Compliance and Technical Assistance Unit)  
WQ program  
Department of Ecology

425-649-4424

---

**From:** Aislin Muto [mailto:[amuto@hoeflernet.com](mailto:amuto@hoeflernet.com)]  
**Sent:** Thursday, May 13, 2010 12:45 PM  
**To:** Iyer, Raman (ECY)  
**Cc:** Wendy Mitchell  
**Subject:** Proposed Construction of a Pole Building at NWFSC's Manchester Research Station, Port Orchard, WA

Dear Raman Iyer,

Please find the attached letter and site maps per our telephone discussion this morning.

Thank you for your input on this project.

Aislin Muto

Associate Scientist  
Hoefer Consulting Group  
425-222-7746 (office)

30545 SE 84th St., #5

**From:** Aislin Muto  
**To:** ["Moore, Jessica \(ECY\)"](mailto:Moore_Jessica(ECY)@ecy.wa.gov)  
**Cc:** [Wendy Mitchell](mailto:Wendy.Mitchell@ecy.wa.gov)  
**Subject:** RE: Coastal Zone Management Act  
**Date:** Tuesday, June 01, 2010 4:48:00 PM  
**Attachments:** [CZM Form 6-1-10.pdf](#)  
[Figure 2 Proposed Location for Nooksack Pole Building.pdf](#)

---

Hi Jessica,

I have attached the completed CZM checklist to this email. I have also attached a site map that shows the proposed building site proximity to Clam Bay and Beaver Creek.

The proposed building construction will take place at the Northwest Fisheries Science Center's Manchester Research Station. The address is 7305 Beach Drive East, Port Orchard, WA 98366. The building will house fish tanks supplied with seawater.

Thank you,

Aislin Muto  
Hoefler Consulting Group  
425-222-7746 (office)

[www.hoeflernet.com](http://www.hoeflernet.com)

---

**From:** Moore, Jessica (ECY) [mailto:[jemo461@ECY.WA.GOV](mailto:jemo461@ECY.WA.GOV)]  
**Sent:** Monday, May 24, 2010 2:20 PM  
**To:** Aislin Muto  
**Subject:** Coastal Zone Management Act

Hi Aislin,

I have attached the checklist as well as a focus sheet on CZM to this email. Below is a little additional general information on the program and our review process:

The determination consists of demonstrating compliance with the applicable enforceable policies of Washington's Coastal Zone Management Program—Shoreline Management Act, Water Quality requirements (Stormwater, Clean Water Act Section 401), Air Quality requirements, State Environmental Policy Act (SEPA), the Ocean Resources Management Act (ORMA), and the Energy Facility Site Evaluation Council (EFSEC).

In most cases, only the first 4 policies are applicable. Ecology does conduct all of the consistency determination reviews and asks that applicants submit a CZM form (attached), a detailed project description, and a site/vicinity map—we will request additional information if needed to complete the review. The review usually takes me about 2 weeks.

Review materials can be sent to:  
WA Dept. of Ecology  
Attn: Federal Permit Coordinator, SEA Program  
Post Office Box 47600  
Olympia, WA 98504

Or emailed to me at [jemo461@ecy.wa.gov](mailto:jemo461@ecy.wa.gov).

Please let me know if you have any additional questions or need more information.

Thanks,  
Jessica

---

Jessica Moore  
Federal Permit Unit  
Shorelands and Environmental Assistance Program  
Washington Department of Ecology

360.407.7421  
[jemo461@ecy.wa.gov](mailto:jemo461@ecy.wa.gov)



Please consider the environment before printing this e-mail

**DETERMINATION OF CONSISTENCY WITH WASHINGTON'S  
COASTAL ZONE MANAGEMENT PROGRAM FOR  
FEDERAL AGENCY ACTIVITIES**

**Federal Application Number:** \_\_\_\_\_

**Federal Agency:** National Oceanic and Atmospheric Administration (NOAA)

**Project Description:** Environmental Assessment for the proposed construction of a pole building at the Northwest Fisheries Science Center, Manchester Research Station

(Attach site plans, location (county/city), and proximity to waterbody (name) and or JARPA)

This action under CZMA§307(c)(1) is for a project that will take place within Washington's coastal zone, or which will affect a land use, water use, or natural resource of the coastal zone. (*The coastal zone includes Clallam, Grays Harbor, Island, Jefferson, King, Kitsap, Mason, Pacific, Pierce, San Juan, Skagit, Snohomish, Thurston, Wahkiakum and Whatcom counties.*)

The project complies with the following enforceable policies of the Coastal Zone Management Program:

**1. Shoreline Management Act (SMA):**

Is outside of SMA jurisdiction	(X)	
Applied for a shoreline permit	( )#	being reviewed by _____
Has a valid Shoreline Permit	( )#	Issued by _____ on _____
Has received an SMA Exemption	( )#	issued by _____ on _____

**2. State Water Quality Requirements:**

Does not require water quality permits	(X)	
Applied for water quality certification	( )	
Has received water quality certification	( )#	issued on _____
Applied for stormwater permit	( )#	issued on _____
Has received stormwater permit	( )#	issued on _____

**3. State Air Quality Requirements:**

Does not require air quality permits	(X)	
Applied for Air Quality permit	( )#	being reviewed by _____
Has an Air Quality permit	( )#	issued by _____ on _____

**4. State Environmental Policy Act:**

Project is SEPA exempt	SEPA Lead Agency is: _____
SEPA checklist submitted	( )
SEPA decision issued/adopted	( ) date _____
NEPA decision adopted by	( ) DNS ( ) MDNS ( ) EIS ( ) Other _____ date _____
Lead agency to satisfy SEPA	( ) SEPA# _____ date _____

(X) The project is currently undergoing the NEPA process and will initiate the SEPA process, as applicable in the future.

**Public Notice for this proposed project was provided through:**

( ) Notice mailed to interested parties using \_\_\_\_\_ mailing list on \_\_\_\_\_ (date)  
( ) Publication in \_\_\_\_\_ (newspaper) on \_\_\_\_\_ (dates)  
(X) Other (include dates) The Environmental Assessment for which this Coastal Zone Management Program consistency determination is being requested has not yet gone out for Public Notice. Public notice for this proposed project will be provided through the Kitsap Sun daily newspaper.

*Therefore, I have determined that this project is consistent to the maximum extent practicable with the enforceable policies of Washington's approved coastal zone management program.*

Signature

 Thanh M. Trinh

Date

6/1/2010



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000  
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

June 10, 2010

Ms. Aislin Muto  
Hoefer Consulting Group  
30545 Se 84th Street #5  
P.O. Box 525  
Preston, Washington 98050

**RE: Federal Consistency – NOAA Pole Building**

Dear Ms. Muto:

The Department of Ecology, Shorelands and Environmental Assistance Program received your requests regarding the use of federal funds for the proposed construction of a pole building at the Northwest Fisheries Science Center, Manchester Research Station located at 7305 Beach Drive East, Port Orchard, and Kitsap County, Washington.

Ecology agrees that funding this project is consistent with Washington's Coastal Zone Management Program. Please note that this Consistency Determination is for the release of funds only. Any construction activities will be subject to ALL enforceable polices of the Coastal Zone Management Program, such as the State Environmental Policy Act (SEPA).

If you have any questions regarding this letter please contact Jessica Moore at (360) 407-7421.

Sincerely,

A handwritten signature in black ink, appearing to read "Brenden McFarland".

Brenden McFarland, Section Manager  
Environmental Review and Transportation Section  
Shorelands and Environmental Assistance Program

cc: Jessica Moore, Ecology





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3401 Minnesota Drive  
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[www.hoeflernet.com](http://www.hoeflernet.com)

May 11, 2010

Mr. Jeff Smith  
Department of Community Development  
614 Division Street MS-36  
Port Orchard, WA 98366

**Subject: Proposed Construction of a Pole Building at Northwest Fisheries  
Science Center's Manchester Research Station, Port Orchard,  
Washington**

Dear Jeff Smith:

Hoefler Consulting Group (Hoefler) has been contracted by the National Oceanic and Atmospheric Administration to conduct an Environmental Assessment to determine the potential impact from construction and operation of a pole building at the Manchester Research Station. The building would be used to house salt water tanks for rearing fish.

Wendy Mitchell and I stopped by your office on May 10, 2010 and briefly discussed the project with you. We would like to get an indication on whether or not your organization has any concerns associated with this project. Our only interest is regarding the potential environmental impacts.

I have attached a site map of the proposed building location. The address is 7305 Beach Drive East, Port Orchard, Washington 98366.

Hoefler is on a tight schedule for completion of the Environmental Assessment therefore, we would appreciate a response by Friday May 14, 2010.

Sincerely,

A handwritten signature in black ink that appears to read "Aislin S Muto".

HCG, Inc.  
Aislin Muto  
Associate Scientist

cc: Wendy Mitchell (Senior Scientist), Hoefler

## Aislin Muto

---

**From:** Whitlam, Rob (DAHP) [Rob.Whitlam@DAHP.WA.GOV]  
**Sent:** Monday, May 17, 2010 9:44 AM  
**To:** Aislin Muto  
**Subject:** RE: Proposed Construction of a Pole Building at NWFSC's Manchester Research Station, Port Orchard, WA  
**Attachments:** 05171003.pdf

[Aislin:](#)

[Our letter.](#)

[regards,](#)

[Rob](#)

---

**From:** Aislin Muto [mailto:[amuto@hoeflernet.com](mailto:amuto@hoeflernet.com)]  
**Sent:** Friday, May 14, 2010 9:25 AM  
**To:** Whitlam, Rob (DAHP)  
**Cc:** Wendy Mitchell  
**Subject:** Proposed Construction of a Pole Building at NWFSC's Manchester Research Station, Port Orchard, WA

Dear Rob Whitlam,

Please find the attached letter per our telephone discussion yesterday. I have also attached site maps, and two versions of the USGS 7.5 quadrangle map that you requested. I included the original Bremerton East map and a copy that I labeled with the proposed building location.

Please let me know if you need any further information in order to make your determination.

Thank you for your input.

Best Regards,  
Aislin Muto

Associate Scientist  
Hoefer Consulting Group  
425-222-7746 (office)

30545 SE 84th St., #5  
PO Box 525  
Preston, WA 98050

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907-452-2256 fax

Seattle Area  
30545 SE 84<sup>th</sup> Street #5  
P.O. Box 525  
Preston, WA 98050  
425-222-7746 phone  
425-222-7849 fax

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May 14, 2010

Mr. Rob Whitlam  
Department of Archaeology & Historic Preservation  
Suite 106  
1063 South Capitol Way  
Olympia WA 98501

**Subject: Proposed Construction of a Pole Building at Manchester Research Station, Port Orchard, Washington**

Dear Rob Whitlam:

Hoefler Consulting Group (Hoefler) has been contracted by the National Oceanic and Atmospheric Administration to conduct an Environmental Assessment to determine the potential impact from construction and operation of a proposed pole building at the Manchester Research Station. The building would be used to house salt water tanks for rearing South Fork Spring Chinook, as part of a restoration project for endangered species.

We would like to get an indication on whether or not your organization has any concerns associated with this proposed project.

I have attached a site map and a USGS 7.5 quadrangle map (Bremerton East) with the proposed building location identified. The address is 7305 Beach Drive East, Port Orchard, Washington 98366.

Please contact me immediately if the maps I have provided are not sufficient for you to make your determination.

Hoefler is on a tight schedule for completion of the Environmental Assessment therefore, we would appreciate a response by Wednesday May 19, 2010.

Sincerely,

A handwritten signature in black ink, appearing to read "Aislin S Muto".

HCG, Inc.  
Aislin Muto  
Associate Scientist  
cc: Wendy Mitchell (Senior Scientist), Hoefler



STATE OF WASHINGTON

**DEPARTMENT OF ARCHAEOLOGY & HISTORIC PRESERVATION**

*1063 S. Capitol Way, Suite 106 • Olympia, Washington 98501*  
*Mailing address: PO Box 48343 • Olympia, Washington 98504-8343*  
*(360) 586-3065 • Fax Number (360) 586-3067 • Website: [www.dahp.wa.gov](http://www.dahp.wa.gov)*

May 17, 2010

Ms. Aislin Muto  
HCG, Inc.  
PO Box 525  
Preston, Washington 98050

RE: Manchester Pole Building Project  
Log No.: 051710-03-NOAA

Dear Ms. Muto;

Thank you for contacting our department. We have reviewed the materials you provided for the proposed Manchester Pole Building Project at 7305 Beach Drive East, Port Orchard, Kitsap County, Washington.

We concur with the determination of the Area of Potential Effect(APE). We look forward to receiving the results of your review, consultations with the concerned tribes, and your Determination of Effect.

We would also appreciate receiving any correspondence or comments from concerned tribes or other parties that you receive as you consult under the requirements of 36CFR800.4(a)(4).

These comments are based on the information available at the time of this review and on behalf of the State Historic Preservation Officer in compliance with the Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations 36CFR800.4.

Should additional information become available, our assessment may be revised, including information regarding historic properties that have not yet been identified. Thank you for the opportunity to comment and we look forward to receiving the professional report on the results of your investigations.

Sincerely,

Robert G. Whitlam, Ph.D.  
State Archaeologist  
(360)586-3080  
email: [rob.whitlam@dahp.wa.gov](mailto:rob.whitlam@dahp.wa.gov)



CONSULTING 2010

June 16, 2010

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3401 Minnesota Drive  
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P.O. Box 525  
Preston, WA 98050  
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425-222-7849 fax

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Mr. Rob Whitlam  
Department of Archaeology & Historic Preservation  
Suite 106  
1063 South Capitol Way  
Olympia WA 98501

**Subject: RE: Proposed Construction of a Pole Building at Manchester Research Station, Port Orchard, Washington**

Dear Mr. Whitlam,

This letter is in response to your email and letter sent on May 17, 2010. The proposed pole building would be located near existing buildings on a previously disturbed site. The subject parcel was a former Navy recreational area (baseball field) and now contains about two feet of fill and is used for storage. The proposed building will be constructed on shallow spread footings and no digging is anticipated below two feet. Twelve years ago, an artificial stream channel was built adjacent to the proposed pole building site. Digging occurred at depths of 6-8 feet and no items of archaeological significance were encountered at that time.

Three tribes were identified in the Kitsap County area, the Suquamish Tribe, the Port Gamble S'Klallam Tribe and the Skokomish Tribe. All three tribes have been consulted regarding the proposed project. The Suquamish Tribe requested that a professional archaeologist monitor all ground-disturbing construction excavation. Since the proposed project site has been previously disturbed and previous activities resulted in no archaeological findings as summarized above, NOAA has determined that there will be no effect on historical or cultural resources in the area. However, NOAA has agreed to hire a professional archaeologist as a precautionary measure.

Sincerely,

HCG, Inc.  
Aislin Muto  
Associate Scientist  
cc: Wendy Mitchell (Senior Scientist), Hoefer



STATE OF WASHINGTON

**DEPARTMENT OF ARCHAEOLOGY & HISTORIC PRESERVATION**

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*Mailing address: PO Box 48343 • Olympia, Washington 98504-8343*  
*(360) 586-3065 • Fax Number (360) 586-3067 • Website: [www.dahp.wa.gov](http://www.dahp.wa.gov)*

June 17, 2010

Ms. Aislin Muto  
HCG, Inc.  
30545 SE 84<sup>th</sup> ST, #5  
Seattle, Washington 98050

Re: Manchester Pole Building Project  
Log No: 051710-03-NOAA

Dear Ms. Muto;

Thank you contacting our department. We have reviewed the materials you provided for the proposed Manchester Pole Building Project, Port Orchard, Kitsap County, Washington.

We concur with your determination of No Historic Properties Affected. Please provide the monitoring report when available.

We would appreciate receiving any correspondence or comments from concerned tribes or other parties that you receive as you consult under the requirements of 36CFR800.4(a)(4).

These comments are based on the information available at the time of this review and on the behalf of the State Historic Preservation Officer in conformance with Section 106 of the National Historic Preservation Act and its implementing regulations 36CFR800.

Should additional information become available, our assessment may be revised. In the event that archaeological or historic materials are discovered during project activities, work in the immediate vicinity must stop, the area secured, and the tribes' cultural departments and our department notified. Thank you for the opportunity to comment and a copy of these comments should be included in subsequent environmental documents.

Sincerely,

Robert G. Whitlam, Ph.D.  
State Archaeologist  
(360) 586-3080  
email: [rob.whitlam@dahp.wa.gov](mailto:rob.whitlam@dahp.wa.gov)

**From:** [Paul McCollum](#)  
**To:** [Aislin Muto](#)  
**Cc:** [marieH@pgst.nsn.us](#); [Wendy Mitchell](#)  
**Subject:** Re: Proposed Construction of a Pole Building at Manchester Research Station, Port Orchard, WA  
**Date:** Thursday, June 03, 2010 2:42:24 PM  
**Attachments:** [paulm.vcf](#)

---

Hi Aislin,  
This project is outside of our U&A and as such, I do not think we have any issues with this.  
I think that's probably why neither of us got back to you.  
Thanks  
Paul

Aislin Muto wrote:

Dear Marie Hebert,

I have not heard back from you and wanted to follow up to make sure that you received my previous email. I also left you a voicemail message.

You can reach me by phone or email.

Thanks,

Aislin Muto,  
Hoefer Consulting Group  
425-222-7746 (office)  
360-201-4504 (cell)

[www.hoefer.net.com](http://www.hoefer.net.com)

---

**From:** Aislin Muto  
**Sent:** Tuesday, May 25, 2010 4:14 PM  
**To:** ['marieH@pgst.nsn.us'](#)  
**Cc:** ['paulm@pgst.nsn.us'](#); Wendy Mitchell  
**Subject:** Proposed Construction of a Pole Building at Manchester Research Station, Port Orchard, WA

Dear Marie Hebert,

Please find the attached letter and site maps for the proposed construction of a pole building at Manchester Research Station, Port Orchard, WA.

You may reach me by phone or email should any questions arise. Thank you for your input.

May 25, 2010

**Anchorage**  
3401 Minnesota Drive  
Suite 300  
Anchorage, AK 99503  
907-563-2137 phone  
907-563-2164 fax

**Fairbanks**  
543 3<sup>rd</sup> Avenue  
Suite 235  
Fairbanks, AK 99701  
907-452-2252 phone  
907-452-2256 fax

**Seattle Area**  
30545 SE 84<sup>th</sup> Street #5  
P.O. Box 525  
Preston, WA 98050  
425-222-7746 phone  
425-222-7849 fax

[www.hoefer.net.com](http://www.hoefer.net.com)

Ms. Marie Hebert, Director  
Cultural Resources  
Port Gamble S'Klallam Tribe  
31912 Little Boston Road NE  
Kingston, WA 98346

**Subject: Proposed Construction of a Pole Building at Manchester Research Station, Port Orchard, Washington**

Dear Ms. Marie Herbert,

Hoefer Consulting Group (Hoefer) has been contracted by the National Oceanic and Atmospheric Administration (NOAA) to conduct an Environmental Assessment to determine impact from construction and operation of a proposed pole building at the Manchester Research Station. The building would be located adjacent to existing buildings on a previously disturbed site. The building would be used to house salt water tanks for rearing South Fork Nooksack River spring Chinook and the Stillaguamish River fall Chinook, as part of a restoration project for endangered species.

We are contacting you to determine whether your tribe has any knowledge or concerns regarding the proposed project with respect to historical properties or cultural resources in the immediate area. A site map of the proposed building location is attached for your reference. The address is 7305 Beach Drive East Port Orchard, Washington 98366.

Hoefer is on a tight schedule for completion of the Environmental Assessment for this project. Therefore, we are requesting you provide any comments as soon as possible, no later than Friday May 28, 2010.

Sincerely,



HCG, Inc.  
Aislin Muto  
Associate Scientist

cc: Wendy Mitchell (Senior Scientist), Hoefer  
Paul McCollum (Director, Natural Resources), Port Gamble  
S'Klallam Tribe

**From:** [Kris Miller](#)  
**To:** [Aislin Muto](#)  
**Subject:** RE: Proposed Construction of a Pole Building at Manchester Research Station, Port Orchard, WA  
**Date:** Thursday, May 27, 2010 8:46:58 AM  
**Attachments:** [Manchester Research Station 5-2010.pdf](#)

---

Aislin, please find our comments.

Thank you,

Kris Miller  
Tribal Historic Preservation Officer  
80 North Tribal Center Road  
Shelton, WA 98584  
(360)426-4232x2015  
[shlanay1@skokomish.org](mailto:shlanay1@skokomish.org)

---

**From:** Aislin Muto [mailto:[amuto@hoeflernet.com](mailto:amuto@hoeflernet.com)]  
**Sent:** Tuesday, May 25, 2010 4:09 PM  
**To:** Kris Miller  
**Cc:** Wendy Mitchell  
**Subject:** Proposed Construction of a Pole Building at Manchester Research Station, Port Orchard, WA

Dear Kris Miller,

Please find the attached letter and site maps for the proposed construction of a pole building at Manchester Research Station, Port Orchard, WA.

You may reach me by phone or email should any questions arise. Thank you for your input.

Best Regards,

Aislin Muto,  
Hoefler Consulting Group  
425-222-7746 (office)  
360-201-4504 (cell)

[www.hoeflernet.com](http://www.hoeflernet.com)

Anchorage  
3401 Minnesota Drive  
Suite 300  
Anchorage, AK 99503  
907-563-2137 phone  
907-563-2164 fax

Fairbanks  
543 3<sup>rd</sup> Avenue  
Suite 235  
Fairbanks, AK 99701  
907-452-2252 phone  
907-452-2256 fax

Seattle Area  
30545 SE 84<sup>th</sup> Street #5  
P.O. Box 525  
Preston, WA 98050  
425-222-7746 phone  
425-222-7849 fax

[www.hoefer.net](http://www.hoefer.net)

May 25, 2010

Kris Miller, THPO  
Cultural Resources  
Skokomish Tribe  
N. 80 Tribal Center Road,  
Skokomish, WA 98584

**Subject: Proposed Construction of a Pole Building at Manchester Research Station, Port Orchard, Washington**

Dear Kris Miller,

Hoefer Consulting Group (Hoefer) has been contracted by the National Oceanic and Atmospheric Administration (NOAA) to conduct an Environmental Assessment to determine impact from construction and operation of a proposed pole building at the Manchester Research Station. The building would be located adjacent to existing buildings on a previously disturbed site. The building would be used to house salt water tanks for rearing South Fork Nooksack River spring Chinook and the Stillaguamish River fall Chinook, as part of a restoration project for endangered species.

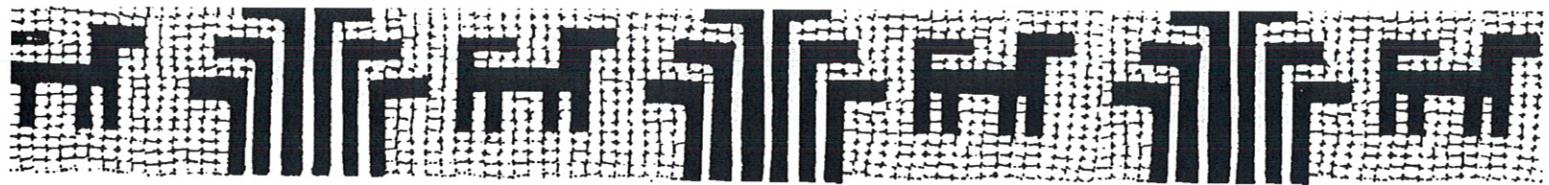
We are contacting you to determine whether your tribe has any knowledge or concerns regarding the proposed project with respect to historical properties or cultural resources in the immediate area. A site map of the proposed building location is attached for your reference. The address is 7305 Beach Drive East Port Orchard, Washington 98366.

Hoefer is on a tight schedule for completion of the Environmental Assessment for this project. Therefore, we are requesting you provide any comments as soon as possible, no later than Friday May 28, 2010.

Sincerely,



HCG, Inc.  
Aislin Muto  
Associate Scientist  
cc: Wendy Mitchell (Senior Scientist), Hoefer



# Skokomish Indian Tribe

Tribal Center (360) 426-4232

N. 80 Tribal Center Road

FAX (360) 877-5943

Skokomish Nation, WA 98584

May 26, 2010  
Aislin Muto  
Associate Scientist  
Hoefler Consulting Group

RE: Proposed Construction of a pole building at Manchester Research Station, Port Orchard, Washington.

Dear Aislin,

Thank you for contacting the Skokomish Tribal Historic Preservation Office (THPO) for consultation on the above-proposed project. After reviewing the project and its location the Skokomish THPO had determined that we do not have any concerns with the project moving forward, please keep in mind that the Suquamish Tribe should be notified and consulted with.

Thank you for the opportunity to review this project. If you have further questions please contact me at [shlanay1@skokomish.org](mailto:shlanay1@skokomish.org)

Thank you,

Kris Miller  
Tribal Historic Preservation Officer  
Skokomish Tribe

**From:** [Dennis Lewarch](#)  
**To:** [Aislin Muto](#)  
**Cc:** [Leonard Forsman](#); [Stephanie Trudel](#); [Alison Osullivan](#); [Wendy Mitchell](#)  
**Subject:** RE: Request for archaeological construction monitoring, proposed pole building at the Manchester Research Station  
**Date:** Wednesday, June 16, 2010 3:54:35 PM

---

Hello Aislin,

Thank you for your prompt response. Please let me know when the construction monitoring will occur in case Stephanie Trudel or I would like to make a site visit.

Best,

Dennis

---

**From:** Aislin Muto [mailto:[amuto@hoeflernet.com](mailto:amuto@hoeflernet.com)]  
**Sent:** Wednesday, June 16, 2010 3:10 PM  
**To:** Dennis Lewarch  
**Cc:** Leonard Forsman; Stephanie Trudel; Alison Osullivan; Wendy Mitchell  
**Subject:** RE: Request for archaeological construction monitoring, proposed pole building at the Manchester Research Station

Hi Dennis,

NOAA has agreed to hire a professional archaeologist to monitor during the ground-disturbing construction excavation activities.

Would you also like to be notified when those activities are taking place?

Thanks,  
Aislin

Aislin Muto,  
Hoefler Consulting Group  
425-222-7746 (office)

[www.hoeplernet.com](http://www.hoeplernet.com)

---

**From:** Dennis Lewarch [mailto:[dlewarch@Suquamish.nsn.us](mailto:dlewarch@Suquamish.nsn.us)]  
**Sent:** Wednesday, June 16, 2010 8:59 AM  
**To:** Aislin Muto  
**Cc:** Leonard Forsman; Stephanie Trudel; Alison Osullivan  
**Subject:** Request for archaeological construction monitoring, proposed pole building at the Manchester Research Station

Hello Aislin,

The Suquamish Tribe requests that a professional archaeologist monitor all ground-disturbing construction excavation associated with construction of the proposed pole building at the Manchester Research Station.

Please contact me if you have questions regarding the request.

Best,

Dennis

Dennis E. Lewarch  
*Tribal Historic Preservation Officer*  
*Fisheries Department*  
*Suquamish Tribe*



*Office Telephone:* 360-394-8529  
*Cell:* 360-509-1321

*Mailing Address:*  
P.O. Box 498  
Suquamish, WA 98392-0498

*Suquamish Tribe Administration Building Street Address:*  
18490 Suquamish Way  
Suquamish, WA 98392

**From:** Aislin Muto  
**To:** ["Alison\\_Osullivan"](#)  
**Cc:** [Leonard Forsman](#); [Stephanie Trudel](#); [Scott Crowell](#); [Dennis Lewarch](#); [Wendy Mitchell](#)  
**Subject:** EA for the proposed construction of a pole building at Manchester Research Station, Port Orchard, WA  
**Date:** Tuesday, June 15, 2010 10:50:00 AM

---

Dear Alison,

In response to the question that you posed yesterday during our phone conversation, excavation will only occur within the fill area. No excavation will occur in undisturbed grounds.

Please call or email me if you have any further questions.

Thank you,  
Aislin

Aislin Muto,  
Hoefler Consulting Group  
425-222-7746 (office)

[www.hoeflernet.com](http://www.hoeflernet.com)

**From:** Aislin Muto  
**To:** ["Alison Osullivan"](#)  
**Cc:** [Stephanie Trudel](#); [Dennis Lewarch](#); [Wendy Mitchell](#); [Scott Crowell](#); [Leonard Forsman](#)  
**Subject:** RE: Proposed Construction of a Pole Building at Manchester Research Station, Port Orchard, WA  
**Date:** Thursday, June 03, 2010 1:11:00 PM  
**Attachments:** [NOOKSACK BUILDING AREA.PDF](#)  
[NOOKSACK UP CLOSE AREA.PDF](#)  
[Figure 2 Proposed Location for Nooksack Pole Building.pdf](#)

---

Dear Alison O'Sullivan,

Please find the attached proposed building area drawings and site map showing the proposed building proximity to Clam Bay, Beaver Creek and Beaver Creek Estuary.

There are no construction drawings yet as the project is design-build. However, from previous experience with pole buildings, excavation for the proposed building will be 12" depth at the floor area (6" slab + 6" granular fill) and 24" deep x 30" wide at the perimeter for the spread footing. In other words, the extent of the excavation for the proposed building is about 15" beyond the perimeter for the footings; 12" depth at the slab floor, and 24" depth at the perimeter.

The utilities that will be ran up to this proposed building will all be buried under the existing asphalt road that currently runs right next to the building site. The excavation for the pipelines will not take place on any previously undisturbed ground.

You may reach me by phone or email.

Thank you,  
Aislin Muto,  
Hoefler Consulting Group  
425-222-7746 (office)  
360-201-4504 (cell)

[www.hoeflernet.com](http://www.hoeflernet.com)

---

**From:** Alison Osullivan [mailto:[aosullivan@suquamish.nsn.us](mailto:aosullivan@suquamish.nsn.us)]  
**Sent:** Wednesday, May 26, 2010 4:44 PM  
**To:** Aislin Muto  
**Cc:** Leonard Forsman; Stephanie Trudel; Scott Crowell; Dennis Lewarch  
**Subject:** RE: Proposed Construction of a Pole Building at Manchester Research Station, Port Orchard, WA

Mr. Muto,

Thank you for your letter and concern regarding cultural resource impacts. The project vicinity was used intensively by the Suquamish Tribe and is within the Adjudicated Usual & Accustomed Fishing Area of the Tribe. The Suquamish Tribe U and A extends well beyond Reservation boundaries. The U and A fishing places of the Suquamish Tribe include marine waters of Puget Sound from the northern tip of Vashon Island to the Fraser River in Canada. The Suquamish Tribe has several

traditional place names for landforms near the project area, including Beaver Creek, and several archaeological sites have been recorded within the project vicinity. The proposed project area has a high probability for unrecorded archaeological resources and/or human remains. The Suquamish Tribe would like to comment regarding the probability for undiscovered archaeological deposits and human remains in the proposed Nooksack Pole Building project area once adequate project information has been provided (construction plan drawings including limits of clearing and excavation). Tribal archaeologists reviewing this project (and any future projects) for potential cultural resource impacts are Dennis Lewarch ([dlewarch@suquamish.nsn.us](mailto:dlewarch@suquamish.nsn.us)) and Stephanie Trudel ([strudel@suquamish.nsn.us](mailto:strudel@suquamish.nsn.us)).

In addition to cultural resource impacts the Tribe also reviews projects for Tribal treaty resource impacts. Treaty-reserved resources situated on and off the Port Madison Indian Reservation include, but are not limited to, fishery resources situated within the Suquamish Tribe's U and A fishing area. The Suquamish Tribe, as a resource co-manager, is active in participating in the environmental review process for development proposals within its U and A. The Tribe not only has the right to fish but also the right to preserve and maintain treaty reserved resources. Thus, our standard for review is based on the protection and maintenance of resources as well as the Tribes right to fish and harvest. Governmental departments and agencies undertaking activities affecting Native American tribal rights or trust resources should do so in a knowledgeable, sensitive manner in coordination and consultation with affected Tribes.

The information included was helpful but more project details are needed for review and to provide comment regarding potential environmental impacts. Site development plans including locations of adjacent critical areas and any associated buffers are requested. A three day comment period is not adequate for Tribal review and comment (archaeological, environmental or otherwise).

Please keep us informed of project status and any relevant project related actions. We would like the opportunity to provide comment when requested information is provided and as new information becomes available. If you have any questions regarding the comments above please don't hesitate to give me a call 360-394-8447.

Alison  
Alison O'Sullivan  
Biologist, Suquamish Tribe  
P.O. Box 498  
Suquamish, WA 98392  
phone: 360-394-8447  
fax: 360-598-4666

---

**From:** Aislin Muto [mailto:[amuto@hoeflernet.com](mailto:amuto@hoeflernet.com)]  
**Sent:** Tuesday, May 25, 2010 4:18 PM  
**To:** Scott Crowell  
**Cc:** Leonard Forsman; Marilyn Jones; Wendy Mitchell  
**Subject:** Proposed Construction of a Pole Building at Manchester Research Station, Port Orchard, WA

Dear Scott Crowell,

Please find the attached letter and site maps for the proposed construction of a pole building at Manchester Research Station, Port Orchard, WA.

You may reach me by phone or email should any questions arise. Thank you for your input.

Best Regards,

Aislin Muto,  
Hoefler Consulting Group  
425-222-7746 (office)  
360-201-4504 (cell)

[www.hoeflernet.com](http://www.hoeflernet.com)



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907-563-2164 fax

**Fairbanks**  
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Suite 235  
Fairbanks, AK 99701  
907-452-2252 phone  
907-452-2256 fax

**Seattle Area**  
30545 SE 84<sup>th</sup> Street #5  
P.O. Box 525  
Preston, WA 98050  
425-222-7746 phone  
425-222-7849 fax

[www.hoeflernet.com](http://www.hoeflernet.com)

May 25, 2010

Mr. Scott Crowell, Director  
Community Development  
Suquamish Tribe  
18490 Suquamish Way NE,  
PO Box 498  
Suquamish, WA 98392

**Subject: Proposed Construction of a Pole Building at Manchester Research Station, Port Orchard, Washington**

Dear Mr. Scott Crowell

Hoefler Consulting Group (Hoefler) has been contracted by the National Oceanic and Atmospheric Administration (NOAA) to conduct an Environmental Assessment to determine impact from construction and operation of a proposed pole building at the Manchester Research Station. The building would be located adjacent to existing buildings on a previously disturbed site. The building would be used to house salt water tanks for rearing South Fork Nooksack River spring Chinook and the Stillaguamish River fall Chinook, as part of a restoration project for endangered species.

We are contacting you to determine whether your tribe has any knowledge or concerns regarding the proposed project with respect to historical properties or cultural resources in the immediate area. A site map of the proposed building location is attached for your reference. The address is 7305 Beach Drive East Port Orchard, Washington 98366.

Hoefler is on a tight schedule for completion of the Environmental Assessment for this project. Therefore, we are requesting you provide any comments as soon as possible, no later than Friday May 28, 2010.

Sincerely,

HCG, Inc.  
Aislin Muto  
Associate Scientist

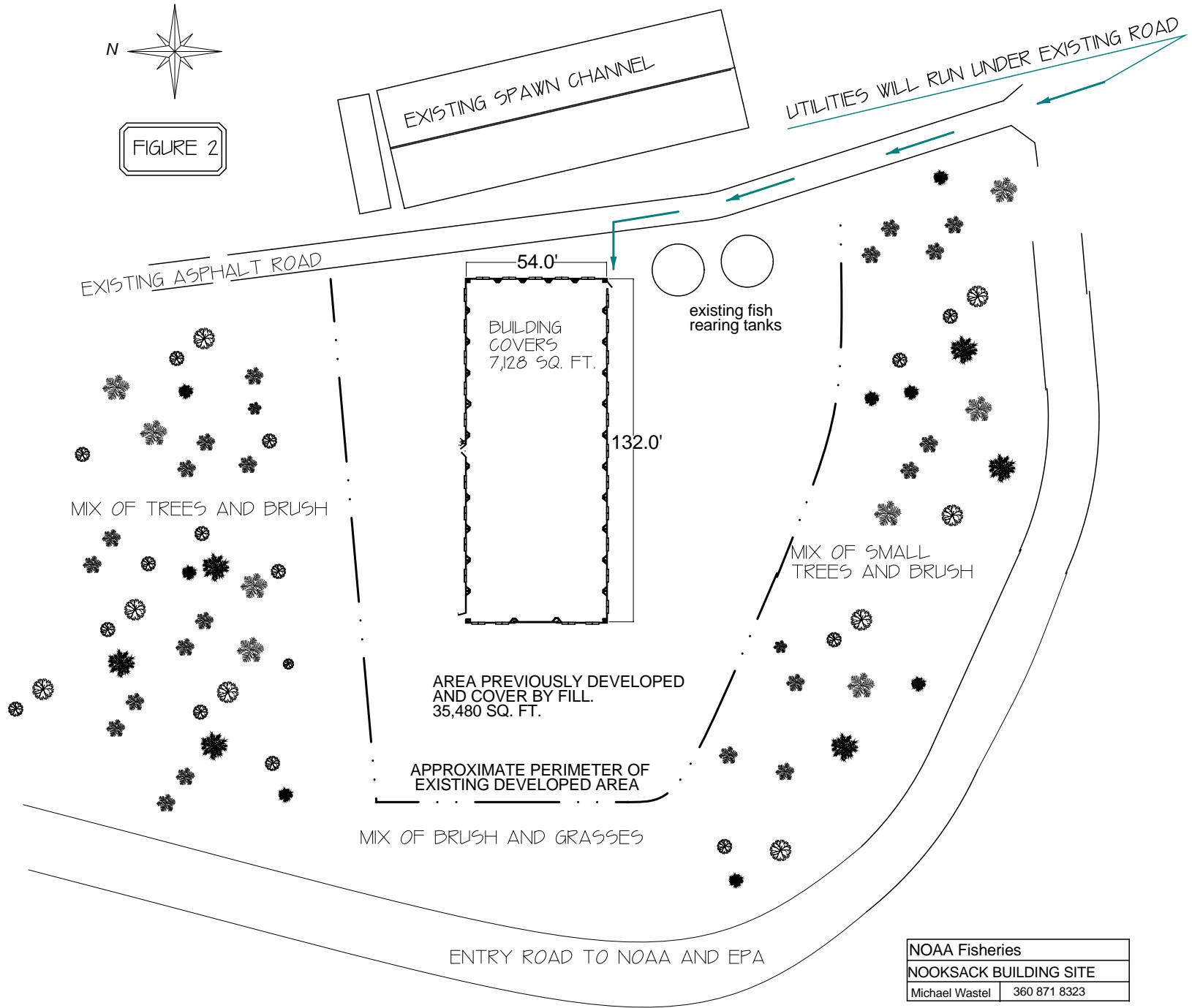
cc: Wendy Mitchell (Senior Scientist), Hoefler  
Leonard Forsman (Chair), Suquamish Tribe  
Marilyn Jones (Director, Museum/Cultural Center), Suquamish Tribe

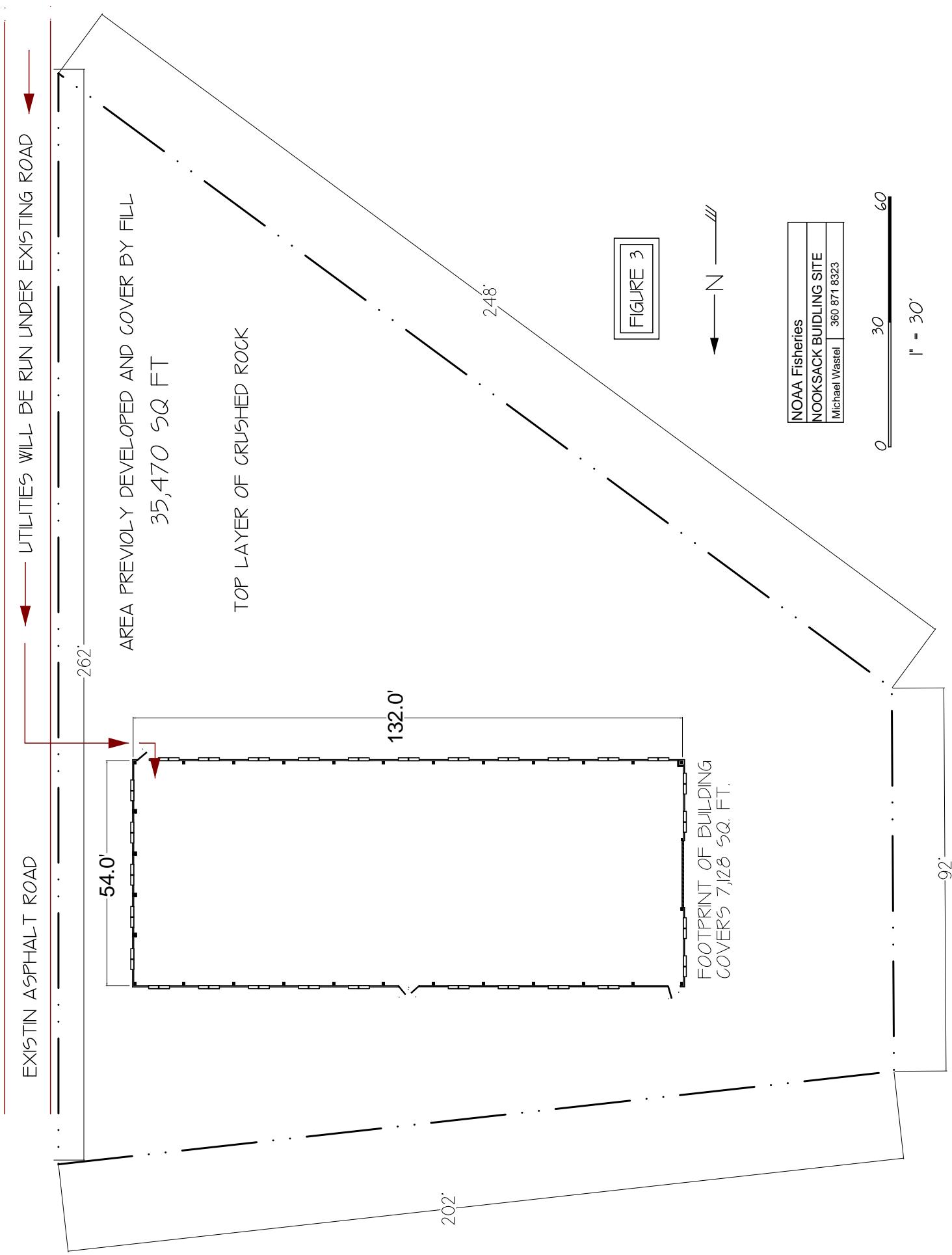
NOTES:

AREA PREVIOUSLY DEVELOPED AND USED AS A RECREATION AREA FOR NAVY PERSONNEL  
AREA COVER BY SEVERAL FEET OF CLEAN FILL, SAND AND ROCK.  
AREA PREVIOUSLY GRADED AND WILL REQUIRE MINIMAL GRADING TOO THE SURFACE.  
AREA CURRENTLY USED TO STORE EQUIPMENT.  
TOP LAYER OF AREA IS MOSTLY GRASSES , WEEDS OR CRUSHED ROCK.



FIGURE 2





-----Original Message-----

From: James Hackett [<mailto:James.Hackett@noaa.gov>]  
Sent: Friday, June 11, 2010 12:36 PM  
To: Wendy Mitchell; Carlin Mcauley; Tom Flagg; Thanh M Trinh  
Subject: Re: FW: Manchester projects

Hi Wendy,

Sorry I did not get back to you sooner things have been somewhat busy.

The trenching of the utilities for the new building are outside of the areas of concern listed in the ICP. These concerned areas are shown in dark gray on the attached map. I have marked the map showing the rout and added a comment.

Please let me know if theres any other questions.

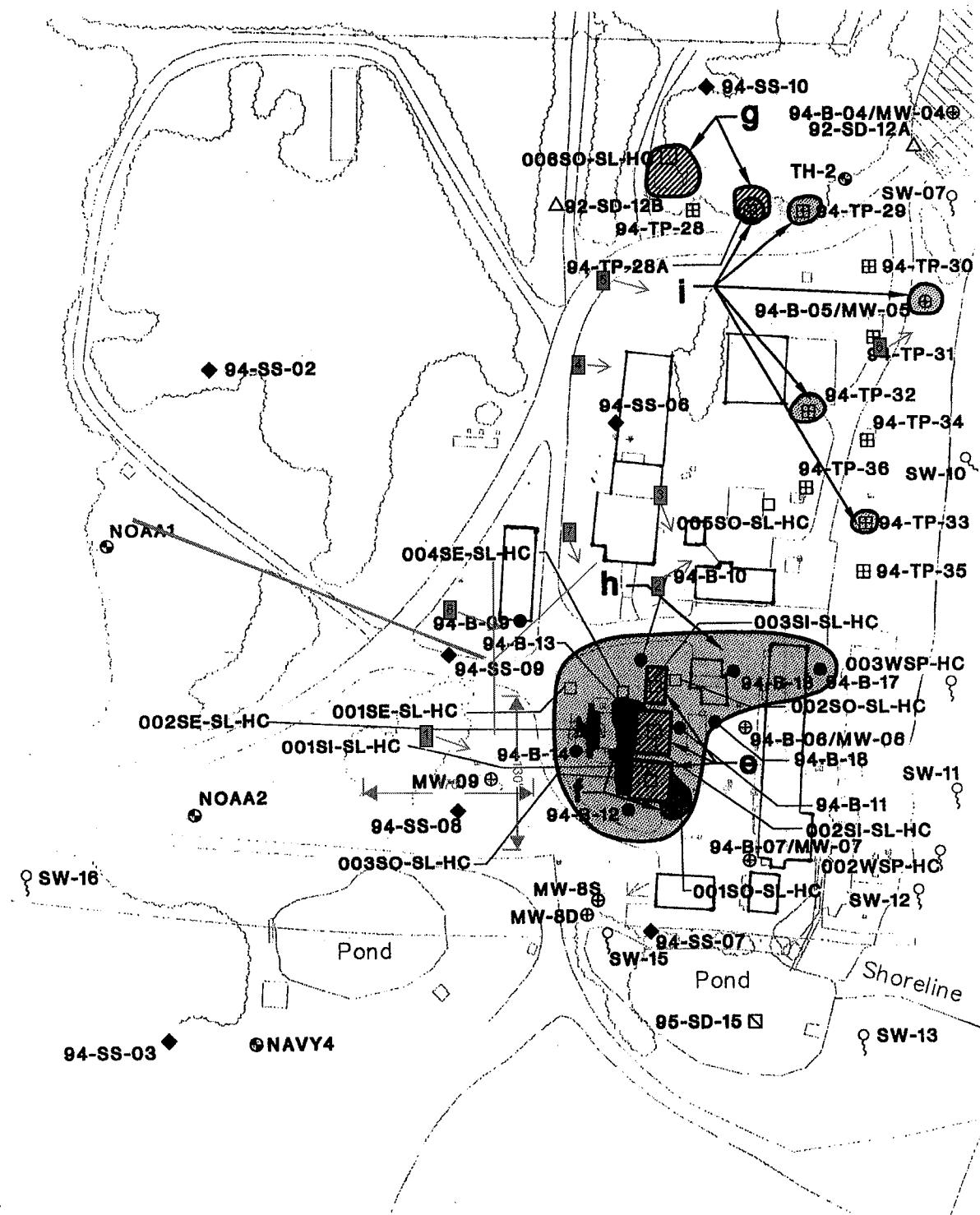
Thanks James

Wendy Mitchell wrote:

> James:  
>  
> Can you tell me if this consultation with the USACE covered the new  
> pole building? If not, can you show me what areas on the attached ICP  
> Map would be disturbed during the project so I can clearly determine  
> that they are outside the TPH impacted areas?  
>  
> Thank you,  
> Wendy  
> (907) 563-2196  
>  
> -----Original Message-----  
> From: Carrell, May G NWS [<mailto:May.G.Carrell@usace.army.mil>]  
> Sent: Thursday, June 03, 2010 4:12 PM  
> To: Wendy Mitchell; Aislin Muto  
> Subject: FW: Manchester projects  
>  
> Here's the one from Tom Flagg.  
> May  
>  
> -----Original Message-----  
> From: Tom Flagg [<mailto:Tom.Flapp@noaa.gov>]  
> Sent: Wednesday, May 26, 2010 11:48 AM  
> To: Carrell, May G NWS

> Cc: Ann Byar; Karen Brooks; James Hackett; Chris Tatara; William  
> Fairgrieve; Thea Smith Junt  
> Subject: Manchester projects  
>  
> May Carrell  
> US Army Corps of Engineers  
> PO Box 3755  
> Seattle, WA 98124-3755  
> 206/764-3418  
>  
> 26 May 2010  
>  
> May,  
>  
> In November 2009, we informed you of several station maintenance and  
> upgrade projects that we intended to begin work on during fall/winter  
> 2009-2010 (attached). When we informed you of these projects, we  
> wanted to ensure that the COE was aware of this work and make sure the  
> work was in conformance with conditions you planned to include in the  
> Manchester Research Station Institutional Controls Plan (ICP) for the  
> FUDS Superfund clean up areas even though it was our understanding  
> that the planned work was outside the ICP area of concern. We also  
> indicated that to ensure due diligence, we planned to use ICP related  
> procedures such  
> that: a) BMPs will be used for any storm water controls, and b)  
> excavations will be observed to determine if exposed soils contain  
> free product.  
>  
> In your email of 16 November 2009, you indicated that "it appears that  
> what NOAA has planned is outside the TPH-impacted areas" and you  
> "agree wholeheartedly with the ICP related procedures tht you've  
> listed". We want to let you know our progress for these projects. We  
> have completed item #2, 3, 4, 5 and construction of the storage  
> building portion of item #1. We are now ready to proceed with  
> trenching and installation of service lines for items #1, 7, and 8).  
> Please let us know if you have any concerns.  
>  
> Thanks.  
>  
> Tom  
>  
> Tom Flagg  
> Supervisory Fishery Biologist  
> Station Manager  
> Manchester Research Station  
> NOAA Fisheries Service  
> Northwest Fisheries Science Center  
> PO Box 130  
> Manchester, WA 98353  
> Tom.flagg@noaa.gov  
> 360-871-8306  
>

### **Soil/Debris Areas Exceeding RAOs in AOC B (Fire Training Area)**



#### Approximate areas of petroleum contaminated soil removal

Areas Exceeding RAOs: TPH RAO = 200 mg/kg Diesel

### **E Internal debris -- main simulator complex**

## **f Dioxin-impacted soil -- main simulator complex**

### External debris -- northern simulator

TPH-impacted soil -- main simulator complex

TRU impacted soil --- fire training structures

0 100 200

Scale in Feet



**Appendix D - EDR**

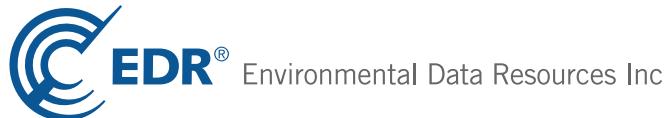
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---

**NOAA NWFSC**  
7305 Beach Drive East  
Port Orchard, WA 98366

Inquiry Number: 2775831.1s  
May 21, 2010

## The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road  
Milford, CT 06461  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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Overview Map	2
Detail Map	3
Map Findings Summary	4
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Orphan Summary	67
Government Records Searched/Data Currency Tracking	GR-1

### GOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-10
Physical Setting Source Map Findings	A-11
Physical Setting Source Records Searched	A-208

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

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## 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

7305 BEACH DRIVE EAST  
PORT ORCHARD, WA 98366

#### COORDINATES

Latitude (North): 47.570100 - 47° 34' 12.4"  
Longitude (West): 122.554100 - 122° 33' 14.8"  
Universal Tranverse Mercator: Zone 10  
UTM X (Meters): 533538.6  
UTM Y (Meters): 5268398.0  
Elevation: 20 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 47122-E5 BREMERTON EAST, WA  
Most Recent Revision: 1981

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
USDOC NOAA NWFSC MANCHESTER 7305 E BEACH DR PORT ORCHARD, WA 98366	ALLSITES SPILLS	N/A
USDOC NOAA NWFSC MANCHESTER 7305 E BEACH DR PORT ORCHARD, WA 98366	FINDS	N/A
7305 EAST BEACH DR. 7305 EAST BEACH DR. PORT ORCHARD, WA 98366	ERNS	N/A

## EXECUTIVE SUMMARY

### **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***

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***

FEDERAL FACILITY..... Federal Facility Site Information listing

#### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

#### ***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

#### ***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***

UST..... Underground Storage Tank Database  
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

## EXECUTIVE SUMMARY

### ***State and tribal voluntary cleanup sites***

VCP..... Voluntary Cleanup Program Sites  
INDIAN VCP..... Voluntary Cleanup Priority Listing  
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  
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  
CSCSL NFA..... Confirmed & Contaminated Sites - No Further Action  
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  
LUCIS..... Land Use Control Information System

#### ***Records of Emergency Release Reports***

HMIRS..... Hazardous Materials Information Reporting System

#### ***Other Ascertainable Records***

RCRA-NonGen..... RCRA - Non Generators  
DOT OPS..... Incident and Accident Data  
CONSENT..... Superfund (CERCLA) Consent Decrees  
UMTRA..... Uranium Mill Tailings Sites  
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

## EXECUTIVE SUMMARY

ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
RAATS.....	RCRA Administrative Action Tracking System
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
COAL ASH.....	Coal Ash Disposal Site Listing
PCB TRANSFORMER.....	PCB Transformer Registration Database
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
COAL ASH DOE.....	Steam-Electric Plan Operation Data

### EDR PROPRIETARY RECORDS

#### ***EDR Proprietary Records***

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants  
EDR Historical Auto Stations..... EDR Proprietary Historic Gas Stations  
EDR Historical Cleaners..... EDR Proprietary 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 NPL site list***

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 03/31/2010 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

## EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>US EPA MANCHESTER LABORATORY</b>	<b>7411 BEACH DR E</b>	<b>SSE 1/4 - 1/2 (0.445 mi.)</b>	<b>B5</b>	<b>9</b>

### ***Federal CERCLIS list***

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

A review of the CERCLIS list, as provided by EDR, and dated 01/29/2010 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>US EPA MANCHESTER LABORATORY</b>	<b>7411 BEACH DR E</b>	<b>SSE 1/4 - 1/2 (0.445 mi.)</b>	<b>B5</b>	<b>9</b>

### ***Federal RCRA CORRACTS facilities list***

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 12/11/2009 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>FISC PUGET SOUND FUEL DEPT</b>	<b>7501 BEACH DR E</b>	<b>SSE 1/2 - 1 (0.531 mi.)</b>	<b>7</b>	<b>47</b>

### ***Federal institutional controls / engineering controls registries***

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 12/20/2009 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>US EPA MANCHESTER LABORATORY</b>	<b>7411 BEACH DR E</b>	<b>SSE 1/4 - 1/2 (0.445 mi.)</b>	<b>B5</b>	<b>9</b>

## EXECUTIVE SUMMARY

**US INST CONTROL:** 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.

A review of the US INST CONTROL list, as provided by EDR, and dated 12/20/2009 has revealed that there is 1 US INST CONTROL site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>US EPA MANCHESTER LABORATORY</b>	<b>7411 BEACH DR E</b>	<b>SSE 1/4 - 1/2 (0.445 mi.)</b>	<b>B5</b>	<b>9</b>

### ***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 02/17/2010 has revealed that there is 1 HSL site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>WA ECY MANCHESTER LAB</b> Facility Type: Hazardous Sites List	<b>7411 BEACH DR E ECY LAB</b>	<b>SSE 1/4 - 1/2 (0.445 mi.)</b>	<b>B6</b>	<b>33</b>

### ***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 04/26/2010 has revealed that there is 1 CSCSL site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>WA ECY MANCHESTER LAB</b>	<b>7411 BEACH DR E ECY LAB</b>	<b>SSE 1/4 - 1/2 (0.445 mi.)</b>	<b>B6</b>	<b>33</b>

### **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 05/12/2010 has revealed that there are 2 ALLSITES sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>US EPA MANCHESTER LABORATORY</b>	<b>7411 BEACH DR E</b>	<b>SSE 1/4 - 1/2 (0.445 mi.)</b>	<b>B5</b>	<b>9</b>

## EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WA ECY MANCHESTER LAB	7411 BEACH DR E ECY LAB	SSE 1/4 - 1/2 (0.445 mi.)	B6	33

### ***Other Ascertainable Records***

DOD: 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.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BANGOR NAVAL SUBMARINE BASE		0 - 1/8 (0.000 mi.)	0	8

FUDS: 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.

A review of the FUDS list, as provided by EDR, and dated 12/31/2008 has revealed that there are 2 FUDS sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MANCHESTER ANNEX		NE 1/8 - 1/4 (0.182 mi.)	4	8
MANCHESTER AAA SITE		NNE 1/2 - 1 (0.609 mi.)	8	66

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

A review of the ROD list, as provided by EDR, and dated 03/31/2010 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
US EPA MANCHESTER LABORATORY	7411 BEACH DR E	SSE 1/4 - 1/2 (0.445 mi.)	B5	9

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
KANSAS STREET RIGHT OF WAY OPENING	ALLSITES
INDIANA STREET RIGHT OF WAY	ALLSITES
1950 HWY 161 SE	FINDS, ALLSITES, UST
8900 HWY 3 SW	FINDS, ALLSITES
4143 SE HWY 160	FINDS, ALLSITES
TREMONT MEDICAL OFFICE COMPLEX	ALLSITES
WOODS ROAD OF HWY N	RCRA-NonGen, FINDS, ALLSITES
NOAA	SPILLS
COUNTRY JUNCTION STORE	UST
WILKINS DISTRIBUTING CO.	ICR
BOWMAN HEATING OIL	ICR

# OVERVIEW MAP - 2775831.1s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Oil & Gas pipelines

100-year flood zone

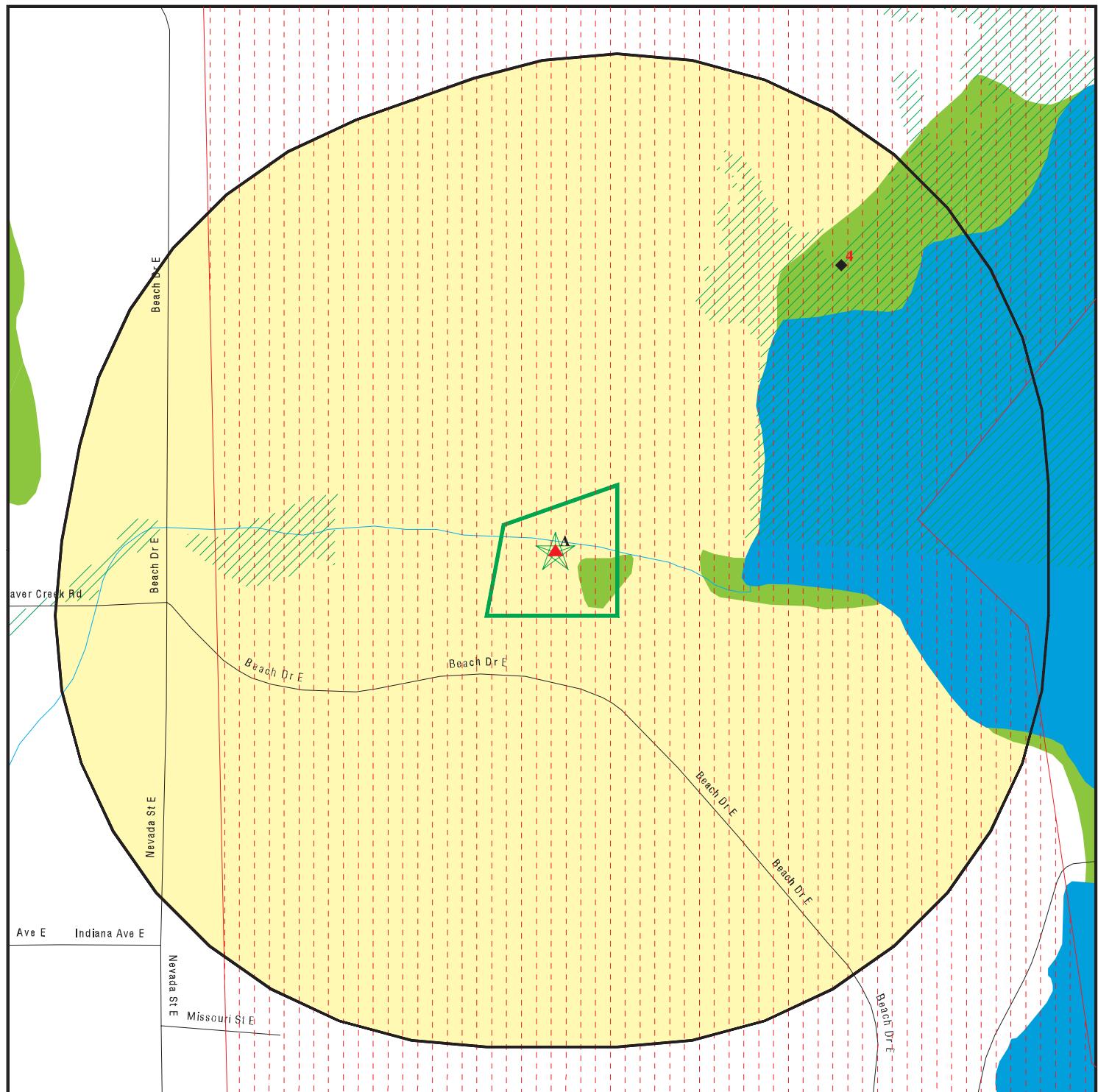
500-year flood zone

National Wetland Inventory

**SITE NAME:** NOAA NWFSC  
**ADDRESS:** 7305 Beach Drive East  
 Port Orchard WA 98366  
**LAT/LONG:** 47.5701 / 122.5541

**CLIENT:** Hoefer Consulting Group  
**CONTACT:** Phil Barnes  
**INQUIRY #:** 2775831.1s  
**DATE:** May 21, 2010 3:53 pm

# DETAIL MAP - 2775831.1s



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
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory



SITE NAME: NOAA NWFSC  
 ADDRESS: 7305 Beach Drive East  
 Port Orchard WA 98366  
 LAT/LONG: 47.5701 / 122.5541

CLIENT: Hoefer Consulting Group  
 CONTACT: Phil Barnes  
 INQUIRY #: 2775831.1s  
 DATE: May 21, 2010 3:53 pm

## MAP FINDINGS SUMMARY

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

## MAP FINDINGS SUMMARY

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

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 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	1	0	0	0	NR	1
FUDS		1.000	0	1	0	1	NR	2
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	1	0	NR	1
UMTRA		0.500	0	0	0	NR	NR	0
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	X	TP	NR	NR	NR	NR	NR	0
RAATS		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
COAL ASH		0.500	0	0	0	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0

### EDR PROPRIETARY RECORDS

#### ***EDR Proprietary Records***

Manufactured Gas Plants	1.000	0	0	0	0	NR	0
EDR Historical Auto Stations	0.250	0	0	NR	NR	NR	0
EDR Historical 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

MAP FINDINGS

Map ID	Site	Database(s)	EDR ID Number
Direction			EPA ID Number
Distance			
Elevation			

A1	<b>USDOC NOAA NWFSC MANCHESTER</b>	<b>ALLSITES</b>	<b>S109010824</b>
Target	7305 E BEACH DR	SPILLS	N/A
Property	PORT ORCHARD, WA 98366		

**Site 1 of 3 in cluster A**

<b>Actual:</b>	<b>ALLSITES:</b>
<b>20 ft.</b>	Facility Id: 7538304 Latitude: 47.565117999999998 Longitude: -122.54999599999999 Geographic location identifier (alias facid): 7538304 Facility Name: USDOC NOAA NWFSC MANCHESTER Latitude Decimal Degrees: 47.56511799999998 Longitude Decimal Degrees: -122.54999599999999 Coordinate Point Areal Extent Code: 99 Horizontal Accuracy Code: 99 Coordinate Point Geographic Position Code: 8 Location Verified Code: N
	Geographic Location Identifier (Alias Facid): 7538304 Interaction (Aka Env Int) Type Code: TIER2 Interaction (Aka Env Int) Description: Emergency/Haz Chem Rpt TIER2 Interaction Status: A Federal Program Identifier: CRK000063090 Interaction Start Date: 2/1/2005 Interaction End Date: Not reported

**SPILLS:**  
Facility ID: 605019  
Medium: Not reported  
Material Desc: OTHER - SEE NOTE  
Material Qty: Not reported  
Material Units: Not reported  
Date Received: 4/14/2008 3:57:00 PM  
Contact Name: BYAR

A2	<b>USDOC NOAA NWFSC MANCHESTER</b>	<b>FINDS</b>	<b>1008389429</b>
Target	7305 E BEACH DR		N/A
Property	PORT ORCHARD, WA 98366		

**Site 2 of 3 in cluster A**

<b>Actual:</b>	<b>FINDS:</b>
<b>20 ft.</b>	Registry ID: 110022443435

**Environmental Interest/Information System**

Washington Facility / Site Identification System (WA-FSIS) provides a means to query and display data maintained by the Washington Department of Ecology. This system contains key information for each facility/site that is currently, or has been, of interest to the Air Quality, Dam Safety, Hazardous Waste, Toxics Cleanup, and Water Quality Programs.

**MAP FINDINGS**

Map ID	Site	Database(s)	EDR ID Number
Direction			EPA ID Number
Distance			
Elevation			

**A3** **7305 EAST BEACH DR.** **ERNS** **2008867930**  
**Target** **7305 EAST BEACH DR.** **N/A**  
**Property** **PORT ORCHARD, WA 98366**

**Site 3 of 3 in cluster A**

**Actual:** **20 ft.** [Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

**DOD Region** **BANGOR NAVAL SUBMARINE BASE** **DOD** **CUSA101050**  
**BANGOR NAVAL SUBMARINE BA (County), WA** **N/A**  
**< 1/8**  
**1 ft.**

DOD:  
 Feature 1: Navy DOD  
 Feature 2: Not reported  
 Feature 3: Not reported  
 URL: Not reported  
 Name 1: Bangor Naval Submarine Base  
 Name 2: Not reported  
 Name 3: Not reported  
 State: WA  
 DOD Site: Yes  
 Tile name: WAKITSAP

**4 NE** **MANCHESTER ANNEX** **FUDS** **1007211201**  
**1/8-1/4** **MANCHESTER, WA** **N/A**  
**0.182 mi.**  
**961 ft.**

**Relative:** **Lower** **FUDS:**  
 Federal Facility ID: WA9799F8326  
 FUDS #: F10WA0119  
**Actual:** **7 ft.** **INST ID:** 56697  
**Facility Name:** MANCHESTER ANNEX  
**City:** MANCHESTER  
**State:** WA  
**EPA Region:** 10  
**County:** KITSAP  
**Congressional District:** 06  
**US Army District:** Kansas City District (NWK)  
**Fiscal Year:** 2008  
**Telephone:** 816-983-3486  
**NPL Status:** Listed  
**RAB:** Y  
**CTC:** 3765.70483  
**Current Owner:** FEDERAL; STATE

**FUDS Description Details:**

The Manchester Annex site, consisting of approximately 350 acres, is located outside the town of Manchester, approximately 10 miles northeast of Port Orchard, Washington.

**FUDS History Details:**

The site was originally known as Middle Point, or Fortress (Battery) Mitchel, a component of the harbor defenses of Puget Sound in 1898.

Map ID  
Direction  
Distance  
Elevation

Site

MAP FINDINGS

EDR ID Number  
EPA ID Number

**MANCHESTER ANNEX (Continued)**

**1007211201**

The Navy assumed control of the site in 1919 and used the facility to store coal and later oil for ship refueling. g. A portion of the facility was used as a fire training center for the Navy, which also maintained antisubmarine nets and mines at the site. In 1960, the Navy excessed the 160-acre northern portion of the site, now known as the Manchester Annex. The e EPA and NOAA have facilities on the property, and Manchester State Park, including Battery Mitchel, occupies the northern portion of the site.

FUDS Current Program Details:

FUDS Future Program Details:

---

B5	US EPA MANCHESTER LABORATORY	NPL	1000885186
SSE	7411 BEACH DR E	CERCLIS	WA8680030931
1/4-1/2	MANCHESTER, WA 98353	RCRA-SQG	
0.445 mi.		US ENG CONTROLS	
2352 ft.	Site 1 of 2 in cluster B	US INST CONTROL	
Relative:		ROD	
Lower		PADS	
Actual:		FINDS	
19 ft.		ALLSITES	
		MANIFEST	
		MANIFEST	
		HAZNET	

NPL:

EPA ID:	WA8680030931
EPA Region:	10
Federal:	Y
Final Date:	Not reported

Site Details:

Site Name:	OLD NAVY DUMP/MANCHESTER LABORATORY (USEPA/NOAA)
Site Status:	Final
Site Zip:	98352
Site City:	MANCHESTER
Site State:	WA
Federal Site:	Yes
Site County:	KITSAP
EPA Region:	10
Date Proposed:	01/18/94
Date Deleted:	Not reported
Date Finalized:	05/31/94

Substance Details:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
Substance:	Not reported
CAS #:	Not reported
Pathway:	Not reported
Scoring:	Not reported

NPL Status:	Currently on the Final NPL
Substance ID:	A003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Substance:	ANTIMONY AND COMPOUNDS
CAS #:	Not reported
Pathway:	SURFACE WATER PATHWAY
Scoring:	2
NPL Status:	Currently on the Final NPL
Substance ID:	A038
Substance:	NICKEL AND COMPOUNDS
CAS #:	Not reported
Pathway:	SURFACE WATER PATHWAY
Scoring:	2
NPL Status:	Currently on the Final NPL
Substance ID:	C178
Substance:	COPPER AND COMPOUNDS
CAS #:	Not reported
Pathway:	SURFACE WATER PATHWAY
Scoring:	2
NPL Status:	Currently on the Final NPL
Substance ID:	C246
Substance:	VANADIUM AND COMPOUNDS
CAS #:	Not reported
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	C247
Substance:	ZINC AND COMPOUNDS
CAS #:	Not reported
Pathway:	SURFACE WATER PATHWAY
Scoring:	2
NPL Status:	Currently on the Final NPL
Substance ID:	C460
Substance:	MERCURY
CAS #:	7439-97-6
Pathway:	SURFACE WATER PATHWAY
Scoring:	4
NPL Status:	Currently on the Final NPL
Substance ID:	C629
Substance:	AROCLOR 1260
CAS #:	11096-82-5
Pathway:	SURFACE WATER PATHWAY
Scoring:	4
NPL Status:	Currently on the Final NPL
Substance ID:	D005
Substance:	BARIUM
CAS #:	7440-39-3
Pathway:	SURFACE WATER PATHWAY
Scoring:	2
NPL Status:	Currently on the Final NPL
Substance ID:	D006
Substance:	CADMIUM (CD)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

CAS #:	7440-43-9
Pathway:	SURFACE WATER PATHWAY
Scoring:	2
NPL Status:	Currently on the Final NPL
Substance ID:	D008
Substance:	LEAD (PB)
CAS #:	7439-92-1
Pathway:	SURFACE WATER PATHWAY
Scoring:	2
NPL Status:	Currently on the Final NPL
Substance ID:	D011
Substance:	SILVER
CAS #:	7440-22-4
Pathway:	SURFACE WATER PATHWAY
Scoring:	2

**Summary Details:**

Manchester Laboratory is located along the western shore of Clam Bay, which is an embayment off the west side of Rich Passage in Puget Sound. The site is approximately 1 1/4 miles north of Manchester, Washington. Federal ownership of this site started with the U.S. Army in 1898. In 1924, the entire area was transferred to the U.S. Navy. Between 1941 and 1944, a submarine net depot and an open storage area were established on what is now EPA's property. In the early 1970s, EPA and NOAA acquired a portion of the former Navy property. Available records are somewhat unclear, but it appears that the Navy started disposing of scrap metal from onsite submarine net construction in the dump site in the 1950s. By 1957, an adike was constructed across a shoreline area on the west side of Clam Bay. Scrap metal from nearby submarine net construction and the Navy's Bremerton Shipyard were reportedly placed in the dump site. The entire contents of the dump site, however, are undocumented. A burn pit was also constructed in the 1950s on the east side of the dump site and appears to have been used into the early 1960s. Materials allegedly burned in the pit include wastes from an on-site dispensary and waste paper products. PCB contaminated oil in underground storage tanks may have been dumped and subsequently burned in fire fighting activities. As the current owner of part of the former Navy property, EPA has conducted the Preliminary Assessment and Site Inspections required under section 120 of CERCLA, as amended, which established the Federal Facility Hazardous Waste Compliance Docket. The most recent inspection, conducted by EPA in May, 1992, documented heavy metals, mercury, asbestos, and PCBs in the old navy dump. Runoff water from the dump contains copper and iron in excess of Ambient Water Quality Criteria established under the Clean Water Act. Offshore sediments contain elevated levels of metals, mercury, and PCBs. NOAA has also completed a Preliminary Assessment for their portion of the former Navy property. Clam Bay is used primarily for recreational shellfishing and is also known to be used by the bald eagle, a Federally threatened species designated under the Endangered Species Act. EPA will negotiate with the Navy to perform any clean-up necessary at this site. EPA and NOAA have also contacted the U.S. Army Corps of Engineers under the Formerly Utilized Defense Site (FUDS) program to conduct further remedial work. The description of the site release is based on information available at the time the site was scored. The description may change as additional information is gathered on the sources and extent of contamination. See 56 FR 5600, February 11, 1991, or subsequent FR notices.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Site Status Details:

NPL Status: Final  
Proposed Date: 01/18/1994  
Final Date: 05/31/1994  
Deleted Date: Not reported

Narratives Details:

NPL Name: OLD NAVY DUMP/MANCHESTER LABORATORY (USEPA/NOAA)  
City: MANCHESTER  
State: WA

CERCLIS:

Site ID: 1001134  
Federal Facility: Federal Facility  
NPL Status: Currently on the Final NPL  
Non NPL Status: Not reported

CERCLIS Site Contact Name(s):

Contact Name: KIRA LYNCH  
Contact Tel: (206) 553-2144  
Contact Title: Remedial Project Manager (RPM)

CERCLIS Site Alias Name(s):

Alias Name: OLD NAVY DUMP/MANCHESTER LAB(USEPA/NOAA)  
Alias Address: 7411 BEACH DR E  
MANCHESTER, WA 98353  
Alias Name: OLD NAVY DUMP/MANCHESTER LABORATORY (USEPA/NOAA)  
Alias Address: 7411 BEACH DR E  
MANCHESTER, WA 98353  
Alias Name: USEPA/NOAA OLD NAVY DUMP/MANCHESTER LABORATORY  
Alias Address: Not reported  
Not reported  
Alias Name: USEPA/NOAA OLD NAVY DUMP/MANCHESTER LABORATORY  
Alias Address: Not reported  
Not reported  
Alias Name: OLD NAVY DUMP/MANCHESTER LAB(USEPA/NOAA)  
Alias Address: 7411 BEACH DR E  
MANCHESTER, WA 98353  
Alias Name: OLD NAVY DUMP/MANCHESTER LABORATORY (USEPA/NOAA)  
Alias Address: Not reported  
MANCHESTER, WA 98352  
Alias Name: OLD NAVY DUMP/MANCHESTER (USEPA/NOAA)  
Alias Address: 7411 BEACH DR E  
MANCHESTER, WA 99549

Site Description: Not reported

CERCLIS Assessment History:

Action: DISCOVERY  
Date Started: Not reported  
Date Completed: 03/01/87  
Priority Level: Not reported  
  
Action: PRELIMINARY ASSESSMENT  
Date Started: 03/25/88

Map ID  
Direction  
Distance  
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Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Date Completed:	03/25/88
Priority Level:	Higher priority for further assessment
Action:	HAZARD RANKING SYSTEM PACKAGE
Date Started:	Not reported
Date Completed:	10/29/93
Priority Level:	Not reported
Action:	PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started:	Not reported
Date Completed:	01/18/94
Priority Level:	Not reported
Action:	FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started:	Not reported
Date Completed:	05/31/94
Priority Level:	Not reported
Action:	INTERAGENCY AGREEMENT NEGOTIATIONS
Date Started:	07/06/94
Date Completed:	07/30/97
Priority Level:	Not reported
Action:	FEDERAL INTERAGENCY AGREEMENT
Date Started:	07/30/97
Date Completed:	07/30/97
Priority Level:	Not reported
Action:	FEDERAL FACILITY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	10/18/94
Date Completed:	09/30/97
Priority Level:	Not reported
Action:	RECORD OF DECISION
Date Started:	Not reported
Date Completed:	09/30/97
Priority Level:	Final Remedy Selected at Site
Action:	FEDERAL FACILITY REMOVAL
Date Started:	06/08/98
Date Completed:	09/29/98
Priority Level:	Stabilized
Action:	FEDERAL FACILITY REMEDIAL DESIGN
Date Started:	11/18/97
Date Completed:	06/22/99
Priority Level:	Not reported
Action:	PRELIMINARY CLOSE-OUT REPORT PREPARED
Date Started:	Not reported
Date Completed:	09/30/02
Priority Level:	Not reported
Action:	FEDERAL FACILITY FIVE YEAR REVIEW
Date Started:	Not reported
Date Completed:	09/30/04
Priority Level:	Not reported

Map ID  
Direction  
Distance  
Elevation

Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Action:	FEDERAL FACILITY REMEDIAL ACTION
Date Started:	06/22/99
Date Completed:	03/29/05
Priority Level:	Not reported
Action:	FEDERAL FACILITY FIVE YEAR REVIEW
Date Started:	Not reported
Date Completed:	09/28/09
Priority Level:	Not reported

**RCRA-SQG:**

Date form received by agency:	01/25/2008
Facility name:	US EPA MANCHESTER LABORATORY
Facility address:	7411 BEACH DR E MANCHESTER, WA 98353
EPA ID:	WA8680030931
Contact:	TONY MORRIS
Contact address:	7411 BEACH DR E PORT ORCHARD, WA 98366-8204
Contact country:	US
Contact telephone:	(360)871-8714
Contact email:	Not reported
EPA Region:	10
Land type:	Federal
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Owner/Operator Summary:**

Owner/operator name:	US EPA
Owner/operator address:	7411 BEACH DR E PORT ORCHARD, WA 98366
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Federal
Owner/Operator Type:	Operator
Owner/Op start date:	05/21/1996
Owner/Op end date:	Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 12/31/2007  
Facility name: US EPA MANCHESTER LABORATORY  
Classification: Small Quantity Generator

Date form received by agency: 12/31/2005  
Facility name: US EPA MANCHESTER LABORATORY  
Classification: Small Quantity Generator

Date form received by agency: 12/31/2003  
Facility name: US EPA MANCHESTER LABORATORY  
Classification: Small Quantity Generator

Date form received by agency: 03/01/1996  
Facility name: US EPA MANCHESTER LABORATORY  
Site name: EPA/ECOLOGY MANCHESTER LABORATORY  
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Used Oil - Generators  
Date violation determined: 06/06/2007  
Date achieved compliance: 07/02/2007  
Violation lead agency: EPA  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 09/20/2007  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: EPA  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Pre-transport  
Date violation determined: 06/06/2007  
Date achieved compliance: 07/02/2007  
Violation lead agency: EPA  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 09/20/2007  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: EPA  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Universal Waste - Small Quantity Handlers  
Date violation determined: 06/06/2007  
Date achieved compliance: 07/02/2007

Map ID  
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MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	09/20/2007
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	Not reported
Area of violation:	Generators - General
Date violation determined:	06/19/1986
Date achieved compliance:	08/19/1986
Violation lead agency:	EPA
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	Not reported
Area of violation:	TSD - Contingency Plan and Emergency Procedures
Date violation determined:	06/19/1986
Date achieved compliance:	08/19/1986
Violation lead agency:	EPA
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
 Evaluation Action Summary:	
Evaluation date:	01/15/2008
Evaluation:	FACILITY SELF DISCLOSURE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	06/06/2007
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Universal Waste - Small Quantity Handlers
Date achieved compliance:	07/02/2007
Evaluation lead agency:	EPA
Evaluation date:	06/06/2007
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Used Oil - Generators
Date achieved compliance:	07/02/2007
Evaluation lead agency:	EPA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Evaluation date: 06/06/2007  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 07/02/2007  
Evaluation lead agency: EPA

Evaluation date: 06/19/1986  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date achieved compliance: 08/19/1986  
Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

Evaluation date: 06/19/1986  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 08/19/1986  
Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

**US ENG CONTROLS:**

EPA ID: WA8680030931  
Site ID: 1001134  
Name: OLD NAVY DUMP/MANCHESTER LABORATORY (USEPA/NOAA)  
Address: Not reported  
MANCHESTER, WA 98352  
EPA Region: 10  
County: KITSAP  
Event Code: Not reported  
Actual Date: Not reported

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 9/30/1997  
Planned Complet. date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Debris  
Engineering Control: Cap

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 9/30/1997  
Planned Complet. date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Debris  
Engineering Control: Containment, (N.O.S.)

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 9/30/1997  
Planned Complet. date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Debris  
Engineering Control: Disposal

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 9/30/1997  
Planned Complet. date: 9/30/1997  
Operable Unit: 01

Map ID	Site	MAP FINDINGS	Database(s)	EDR ID Number
Direction				EPA ID Number
Distance				
Elevation				

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Contaminated Media : Debris  
 Engineering Control: Monitoring

Action ID: 001  
 Action Name: RECORD OF DECISION  
 Action Completion date: 9/30/1997  
 Planned Complet. date: 9/30/1997  
 Operable Unit: 01  
 Contaminated Media : Debris  
 Engineering Control: Operations & Maintenance (O&M)

Action ID: 001  
 Action Name: RECORD OF DECISION  
 Action Completion date: 9/30/1997  
 Planned Complet. date: 9/30/1997  
 Operable Unit: 01  
 Contaminated Media : Debris  
 Engineering Control: Treatment, (N.O.S.)

Action ID: 001  
 Action Name: RECORD OF DECISION  
 Action Completion date: 9/30/1997  
 Planned Complet. date: 9/30/1997  
 Operable Unit: 01  
 Contaminated Media : Leachate  
 Engineering Control: Hydraulic Control

Action ID: 001  
 Action Name: RECORD OF DECISION  
 Action Completion date: 9/30/1997  
 Planned Complet. date: 9/30/1997  
 Operable Unit: 01  
 Contaminated Media : Leachate  
 Engineering Control: Monitoring

Action ID: 001  
 Action Name: RECORD OF DECISION  
 Action Completion date: 9/30/1997  
 Planned Complet. date: 9/30/1997  
 Operable Unit: 01  
 Contaminated Media : Sediment  
 Engineering Control: Cap

Action ID: 001  
 Action Name: RECORD OF DECISION  
 Action Completion date: 9/30/1997  
 Planned Complet. date: 9/30/1997  
 Operable Unit: 01  
 Contaminated Media : Sediment  
 Engineering Control: Excavation

Action ID: 001  
 Action Name: RECORD OF DECISION  
 Action Completion date: 9/30/1997  
 Planned Complet. date: 9/30/1997  
 Operable Unit: 01  
 Contaminated Media : Sediment

Map ID  
Direction  
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Site

MAP FINDINGS

Database(s) EDR ID Number  
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**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Engineering Control: Monitoring

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 9/30/1997  
Planned Complet. date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Soil  
Engineering Control: Cap

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 9/30/1997  
Planned Complet. date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Soil  
Engineering Control: Containment, (N.O.S.)

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 9/30/1997  
Planned Complet. date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Soil  
Engineering Control: Disposal

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 9/30/1997  
Planned Complet. date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Soil  
Engineering Control: Excavation

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 9/30/1997  
Planned Complet. date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Soil  
Engineering Control: Impermeable Barrier

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 9/30/1997  
Planned Complet. date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Soil  
Engineering Control: Monitoring

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 9/30/1997  
Planned Complet. date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Soil  
Engineering Control: No Action

Map ID  
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MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 9/30/1997  
Planned Complet. date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Soil  
Engineering Control: Operations & Maintenance (O&M)

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 9/30/1997  
Planned Complet. date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Surface Water  
Engineering Control: No Action

**US INST CONTROL:**

EPA ID: WA8680030931  
Site ID: 1001134  
Name: OLD NAVY DUMP/MANCHESTER LABORATORY (USEPA/NOAA)  
Action Name: RECORD OF DECISION  
Address: Not reported  
MANCHESTER, WA 98352  
EPA Region: 10  
County: KITSAP  
Event Code: Not reported  
Inst. Control: Institutional Controls, (N.O.S.)  
Actual Date: Not reported  
Complet. Date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Debris  
  
EPA ID: WA8680030931  
Site ID: 1001134  
Name: OLD NAVY DUMP/MANCHESTER LABORATORY (USEPA/NOAA)  
Action Name: RECORD OF DECISION  
Address: Not reported  
MANCHESTER, WA 98352  
EPA Region: 10  
County: KITSAP  
Event Code: Not reported  
Inst. Control: Land Use Restriction  
Actual Date: Not reported  
Complet. Date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Debris  
  
EPA ID: WA8680030931  
Site ID: 1001134  
Name: OLD NAVY DUMP/MANCHESTER LABORATORY (USEPA/NOAA)  
Action Name: RECORD OF DECISION  
Address: Not reported  
MANCHESTER, WA 98352  
EPA Region: 10  
County: KITSAP  
Event Code: Not reported

Map ID  
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MAP FINDINGS

Site

Database(s) EDR ID Number  
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**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Inst. Control: Deed Restriction  
Actual Date: Not reported  
Complet. Date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Soil

EPA ID: WA8680030931  
Site ID: 1001134  
Name: OLD NAVY DUMP/MANCHESTER LABORATORY (USEPA/NOAA)  
Action Name: RECORD OF DECISION  
Address: Not reported  
MANCHESTER, WA 98352

EPA Region: 10  
County: KITSAP  
Event Code: Not reported  
Inst. Control: Institutional Controls, (N.O.S.)  
Actual Date: Not reported  
Complet. Date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Soil

EPA ID: WA8680030931  
Site ID: 1001134  
Name: OLD NAVY DUMP/MANCHESTER LABORATORY (USEPA/NOAA)  
Action Name: RECORD OF DECISION  
Address: Not reported  
MANCHESTER, WA 98352

EPA Region: 10  
County: KITSAP  
Event Code: Not reported  
Inst. Control: Land Use Restriction  
Actual Date: Not reported  
Complet. Date: 9/30/1997  
Operable Unit: 01  
Contaminated Media : Soil

**ROD:**

Full-text of USEPA Record of Decision(s) is available from EDR.

**FINDS:**

Registry ID: 110005310314

**Environmental Interest/Information System**

Washington Facility / Site Identification System (WA-FSIS) provides a means to query and display data maintained by the Washington Department of Ecology. This system contains key information for each facility/site that is currently, or has been, of interest to the Air Quality, Dam Safety, Hazardous Waste, Toxics Cleanup, and Water Quality Programs.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

Map ID  
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MAP FINDINGS

Site

Database(s) EDR ID Number  
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**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

corrective action activities required under RCRA.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

**ALLSITES:**

Facility Id:	2608
Latitude:	47.56908
Longitude:	-122.55591
Geographic location identifier (alias facid):	2608
Facility Name:	US EPA Manchester Laboratory
Latitude Decimal Degrees:	47.56908
Longitude Decimal Degrees:	-122.55591
Coordinate Point Areal Extent Code:	99
Horizontal Accuracy Code:	4
Coordinate Point Geographic Position Code:	99
Location Verified Code:	Y
Geographic Location Identifier (Alias Facid):	2608
Interaction (Aka Env Int) Type Code:	TIER2
Interaction (Aka Env Int) Description:	Emergency/Haz Chem Rpt TIER2
Interaction Status:	A
Federal Program Identifier:	WA8680030931
Interaction Start Date:	1/1/1994
Interaction End Date:	Not reported
Geographic Location Identifier (Alias Facid):	2608
Interaction (Aka Env Int) Type Code:	HWP
Interaction (Aka Env Int) Description:	Hazardous Waste Planner
Interaction Status:	I
Federal Program Identifier:	WA8680030931
Interaction Start Date:	1/1/1997
Interaction End Date:	9/30/2009
Geographic Location Identifier (Alias Facid):	2608
Interaction (Aka Env Int) Type Code:	HWG
Interaction (Aka Env Int) Description:	Hazardous Waste Generator
Interaction Status:	A
Federal Program Identifier:	WA8680030931
Interaction Start Date:	6/27/1985
Interaction End Date:	Not reported

**WA MANIFEST:**

Facility Site ID Number:	2608
SWC Desc:	WT02 WP02WL02
FWC Desc:	D001 - D011, F002 - F005D001-D043 F001-F003 F005
Form Comm:	Not reported
Data Year:	Not reported
Permit by Rule:	True
Treatment by Generator:	False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Mixed radioactive waste: False  
Importer of hazardous waste: False  
Immediate recycler: False  
Treatment/Storage/Disposal/Recycling Facility: False  
Generator of dangerous fuel waste: False  
Generator marketing to burner: False  
"Other marketers (i.e., blender, distributor, etc.)": False  
Utility boiler burner: False  
Industry boiler burner: False  
Industrial Furnace: False  
Smelter defferal: False  
Universal waste - batteries - generate: False  
Universal waste - thermostats - generate: False  
Universal waste - mercury - generate: False  
Universal waste - lamps - generate: False  
Universal waste - batteries - accumulate: False  
Universal waste - thermostats - accumulate: False  
Universal waste - mercury - accumulate: False  
Universal waste - lamps - accumulate: False  
Destination Facility for Universal Waste: False  
Off-specification used oil burner - utility boiler: False  
Off-specification used oil burner - industrial boiler: False  
Off-specification used oil burner - industrial furnace: False  
EPA ID: WA8680030931  
Facility Address 2: Not reported  
TAX REG NBR: 601678589  
NAICS CD: 54138  
BUSINESS TYPE: Not reported  
MAIL NAME: US EPA  
MAIL ADDR LINE1: 7411 Beach Dr E  
MAIL CITY,ST,ZIP: PORT ORCHARD, WA 98366-8204  
MAIL COUNTRY: UNITED STATES  
LEGAL ORG NAME: US EPA  
LEGAL ORG TYPE: Federal  
LEGAL ADDR LINE1: 1200 6TH AVE ECL 116  
LEGAL CITY,ST,ZIP: SEATTLE, WA 98101  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: (206)553-1530  
LEGAL EFFECTIVE DATE: 5/21/1996  
LAND ORG NAME: US EPA  
LAND ORG TYPE: Federal  
LAND PERSON NAME: Not reported  
LAND ADDR LINE1: 1200 6TH AVE  
LAND CITY,ST,ZIP: SEATTLE, WA 98101  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: (206)553-1530  
OPERATOR ORG NAME: US EPA  
OPERATOR ORG TYPE: Federal  
OPERATOR ADDR LINE1: 1200 6TH AVE  
OPERATOR CITY,ST,ZIP: SEATTLE, WA 98101  
OPERATOR COUNTRY: UNITED STATES  
OPERATOR PHONE NBR: (206)553-1530  
OPERATOR EFFECTIVE DATE: 05/21/96  
SITE CONTACT NAME: Tony Morris  
SITE CONTACT ADDR LINE1: 7411 Beach Dr E  
SITE CONTACT ZIP: PORT ORCHARD, WA 98366-8204  
SITE CONTACT COUNTRY: UNITED STATES

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

SITE CONTACT PHONE NBR: (360)871-8714  
SITE CONTACT EMAIL: morris.tony@epa.gov  
FORM CONTACT NAME: Tony Morris  
FORM CONTACT ADDR LINE1: 7411 Beach Dr E  
FORM CONTACT CITY,ST,ZIP: PORT ORCHARD, WA 98366-8204  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: (360)871-8714  
FORM CONTACT EMAIL: morris.tony@epa.gov  
GEN STATUS CD: MQG  
MONTHLY GENERATION: True  
BATCH GENERATION: False  
ONE TIME GENERATION: False  
TRANSPORTS OWN WASTE: False  
TRANSPORTS OTHRS WASTE: False  
RECYCLER ONSITE: False  
TRANSFER FACILITY: False  
OTHER EXEMPTION: Not reported  
UW BATTERY GEN: False  
USED OIL TRANSPORTER: False  
USED OIL TRANSFER FACLTY: False  
USED OIL PROCESSOR: False  
USED OIL REREFINER: False  
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False  
USED OIL FUEL MRKTR MEETS SPECS: False

Facility Site ID Number: 2608  
SWC Desc: WT02 WP02WL02  
FWC Desc: D001 - D011, F002 - F005D001-D043 F001-F003 F005  
Form Comm: Not reported  
Data Year: Not reported  
Permit by Rule: Yes  
Treatment by Generator: No  
Mixed radioactive waste: No  
Importer of hazardous waste: No  
Immediate recycler: No  
Treatment/Storage/Disposal/Recycling Facility: No  
Generator of dangerous fuel waste: No  
Generator marketing to burner: No  
"Other marketers (i.e., blender, distributor, etc.)": No  
Utility boiler burner: No  
Industry boiler burner: No  
Industrial Furnace: No  
Smelter defferal: No  
Universal waste - batteries - generate: No  
Universal waste - thermostats - generate: No  
Universal waste - mercury - generate: No  
Universal waste - lamps - generate: No  
Universal waste - batteries - accumulate: No  
Universal waste - thermostats - accumulate: No  
Universal waste - mercury - accumulate: No  
Universal waste - lamps - accumulate: No  
Destination Facility for Universal Waste: No  
Off-specification used oil burner - utility boiler: No  
Off-specification used oil burner - industrial boiler: No  
Off-specification used oil burner - industrial furnace: No  
EPA ID: WA8680030931  
Facility Address 2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

TAX REG NBR: 601678589  
NAICS CD: 54138  
BUSINESS TYPE: Not reported  
MAIL NAME: US EPA  
MAIL ADDR LINE1: 7411 Beach Dr E  
MAIL CITY,ST,ZIP: PORT ORCHARD, WA 98366-8204  
MAIL COUNTRY: UNITED STATES  
LEGAL ORG NAME: US EPA  
LEGAL ORG TYPE: Federal  
LEGAL ADDR LINE1: 1200 6TH AVE ECL 116  
LEGAL CITY,ST,ZIP: SEATTLE, WA 98101  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: (206)553-1530  
LEGAL EFFECTIVE DATE: 5/21/1996  
LAND ORG NAME: US EPA  
LAND ORG TYPE: Federal  
LAND PERSON NAME: Not reported  
LAND ADDR LINE1: 1200 6TH AVE  
LAND CITY,ST,ZIP: SEATTLE, WA 98101  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: (206)553-1530  
OPERATOR ORG NAME: US EPA  
OPERATOR ORG TYPE: Federal  
OPERATOR ADDR LINE1: 1200 6TH AVE  
OPERATOR CITY,ST,ZIP: SEATTLE, WA 98101  
OPERATOR COUNTRY: UNITED STATES  
OPERATOR PHONE NBR: (206)553-1530  
OPERATOR EFFECTIVE DATE: 5/21/1996  
SITE CONTACT NAME: Tony Morris  
SITE CONTACT ADDR LINE1: 7411 Beach Dr E  
SITE CONTACT ZIP: PORT ORCHARD, WA 98366-8204  
SITE CONTACT COUNTRY: UNITED STATES  
SITE CONTACT PHONE NBR: (360)871-8714  
SITE CONTACT EMAIL: morris.tony@epa.gov  
FORM CONTACT NAME: Tony Morris  
FORM CONTACT ADDR LINE1: 7411 Beach Dr E  
FORM CONTACT CITY,ST,ZIP: PORT ORCHARD, WA 98366-8204  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: (360)871-8714  
FORM CONTACT EMAIL: morris.tony@epa.gov  
GEN STATUS CD: MQG  
MONTHLY GENERATION: Yes  
BATCH GENERATION: No  
ONE TIME GENERATION: No  
TRANSPORTS OWN WASTE: No  
TRANSPORTS OTHRS WASTE: No  
RECYCLER ONSITE: No  
TRANSFER FACILITY: No  
OTHER EXEMPTION: Not reported  
UW BATTERY GEN: No  
USED OIL TRANSPORTER: No  
USED OIL TRANSFER FACLTY: No  
USED OIL PROCESSOR: No  
USED OIL REREFINER: No  
USED OIL FUEL MRKTR DIRECTS SHPMNTS: No  
USED OIL FUEL MRKTR MEETS SPECS: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Facility Site ID Number: 2608  
SWC Desc: Not reported  
FWC Desc: Not reported  
Form Comm: Not reported  
Data Year: 2009  
Permit by Rule: True  
Treatment by Generator: False  
Mixed radioactive waste: False  
Importer of hazardous waste: False  
Immediate recycler: False  
Treatment/Storage/Disposal/Recycling Facility: False  
Generator of dangerous fuel waste: False  
Generator marketing to burner: False  
"Other marketers (i.e., blender, distributor, etc.)": False  
Utility boiler burner: False  
Industry boiler burner: False  
Industrial Furnace: False  
Smelter defferal: False  
Universal waste - batteries - generate: False  
Universal waste - thermostats - generate: False  
Universal waste - mercury - generate: False  
Universal waste - lamps - generate: False  
Universal waste - batteries - accumulate: False  
Universal waste - thermostats - accumulate: False  
Universal waste - mercury - accumulate: False  
Universal waste - lamps - accumulate: False  
Destination Facility for Universal Waste: False  
Off-specification used oil burner - utility boiler: False  
Off-specification used oil burner - industrial boiler: False  
Off-specification used oil burner - industrial furnace: False  
EPA ID: WA8680030931  
Facility Address 2: Not reported  
TAX REG NBR: 601678589  
NAICS CD: 541380  
BUSINESS TYPE: Not reported  
MAIL NAME: US EPA  
MAIL ADDR LINE1: 7411 Beach Dr E  
MAIL CITY,ST,ZIP: PORT ORCHARD, WA 98366-8204  
MAIL COUNTRY: UNITED STATES  
LEGAL ORG NAME: US EPA  
LEGAL ORG TYPE: Federal  
LEGAL ADDR LINE1: 1200 6TH AVE ECL 116  
LEGAL CITY,ST,ZIP: SEATTLE, WA 98101  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: (206)553-1530  
LEGAL EFFECTIVE DATE: 12/31/1973  
LAND ORG NAME: US EPA  
LAND ORG TYPE: Federal  
LAND PERSON NAME: Not reported  
LAND ADDR LINE1: 1200 6TH AVE  
LAND CITY,ST,ZIP: SEATTLE, WA 98101  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: (206)553-1530  
OPERATOR ORG NAME: US EPA  
OPERATOR ORG TYPE: Federal  
OPERATOR ADDR LINE1: 1200 6TH AVE  
OPERATOR CITY,ST,ZIP: SEATTLE, WA 98101

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

OPERATOR COUNTRY: UNITED STATES  
OPERATOR PHONE NBR: (206)553-1530  
OPERATOR EFFECTIVE DATE: 5/21/1996  
SITE CONTACT NAME: Tony Morris  
SITE CONTACT ADDR LINE1: 7411 Beach Dr E  
SITE CONTACT ZIP: PORT ORCHARD, WA 98366-8204  
SITE CONTACT COUNTRY: UNITED STATES  
SITE CONTACT PHONE NBR: (360)871-8714  
SITE CONTACT EMAIL: morris.tony@epa.gov  
FORM CONTACT NAME: Tony Morris  
FORM CONTACT ADDR LINE1: 7411 Beach Dr E  
FORM CONTACT CITY,ST,ZIP: PORT ORCHARD, WA 98366-8204  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: (360)871-8714  
FORM CONTACT EMAIL: morris.tony@epa.gov  
GEN STATUS CD: SQG  
MONTHLY GENERATION: True  
BATCH GENERATION: False  
ONE TIME GENERATION: False  
TRANSPORTS OWN WASTE: False  
TRANSPORTS OTHRS WASTE: False  
RECYCLER ONSITE: False  
TRANSFER FACILITY: False  
OTHER EXEMPTION: Not reported  
UW BATTERY GEN: False  
USED OIL TRANSPORTER: False  
USED OIL TRANSFER FACLTY: False  
USED OIL PROCESSOR: False  
USED OIL REREFINER: False  
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False  
USED OIL FUEL MRKTR MEETS SPECS: False

Facility Site ID Number: 2608  
SWC Desc: WT01 WT02 WP01 WP02  
FWC Desc: D001-D011, F002-F005, P-List, U-List  
Form Comm: Not reported  
Data Year: 2008  
Permit by Rule: True  
Treatment by Generator: False  
Mixed radioactive waste: False  
Importer of hazardous waste: False  
Immediate recycler: False  
Treatment/Storage/Disposal/Recycling Facility: False  
Generator of dangerous fuel waste: False  
Generator marketing to burner: False  
"Other marketers (i.e., blender, distributor, etc.)": False  
Utility boiler burner: False  
Industry boiler burner: False  
Industrial Furnace: False  
Smelter defferal: False  
Universal waste - batteries - generate: False  
Universal waste - thermostats - generate: False  
Universal waste - mercury - generate: False  
Universal waste - lamps - generate: False  
Universal waste - batteries - accumulate: False  
Universal waste - thermostats - accumulate: False  
Universal waste - mercury - accumulate: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Universal waste - lamps - accumulate: False  
Destination Facility for Universal Waste: False  
Off-specification used oil burner - utility boiler: False  
Off-specification used oil burner - industrial boiler: False  
Off-specification used oil burner - industrial furnace: False  
EPA ID: WA8680030931  
Facility Address 2: Not reported  
TAX REG NBR: 601678589  
NAICS CD: 54138  
BUSINESS TYPE: Not reported  
MAIL NAME: US EPA  
MAIL ADDR LINE1: 7411 Beach Dr E  
MAIL CITY,ST,ZIP: PORT ORCHARD, WA 98366-8204  
MAIL COUNTRY: UNITED STATES  
LEGAL ORG NAME: US EPA  
LEGAL ORG TYPE: Federal  
LEGAL ADDR LINE1: 1200 6TH AVE ECL 116  
LEGAL CITY,ST,ZIP: SEATTLE, WA 98101  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: (206)553-1530  
LEGAL EFFECTIVE DATE: 12/31/1973  
LAND ORG NAME: US EPA  
LAND ORG TYPE: Federal  
LAND PERSON NAME: Not reported  
LAND ADDR LINE1: 1200 6TH AVE  
LAND CITY,ST,ZIP: SEATTLE, WA 98101  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: (206)553-1530  
OPERATOR ORG NAME: US EPA  
OPERATOR ORG TYPE: Federal  
OPERATOR ADDR LINE1: 1200 6TH AVE  
OPERATOR CITY,ST,ZIP: SEATTLE, WA 98101  
OPERATOR COUNTRY: UNITED STATES  
OPERATOR PHONE NBR: (206)553-1530  
OPERATOR EFFECTIVE DATE: 5/21/1996  
SITE CONTACT NAME: Tony Morris  
SITE CONTACT ADDR LINE1: 7411 Beach Dr E  
SITE CONTACT ZIP: PORT ORCHARD, WA 98366-8204  
SITE CONTACT COUNTRY: UNITED STATES  
SITE CONTACT PHONE NBR: (360)871-8714  
SITE CONTACT EMAIL: morris.tony@epa.gov  
FORM CONTACT NAME: Tony Morris  
FORM CONTACT ADDR LINE1: 7411 Beach Dr E  
FORM CONTACT CITY,ST,ZIP: PORT ORCHARD, WA 98366-8204  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: (360)871-8714  
FORM CONTACT EMAIL: morris.tony@epa.gov  
GEN STATUS CD: MQG  
MONTHLY GENERATION: True  
BATCH GENERATION: False  
ONE TIME GENERATION: False  
TRANSPORTS OWN WASTE: False  
TRANSPORTS OTHRS WASTE: False  
RECYCLER ONSITE: False  
TRANSFER FACILITY: False  
OTHER EXEMPTION: Not reported  
UW BATTERY GEN: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

USED OIL TRANSPORTER: False  
USED OIL TRANSFER FACLTY: False  
USED OIL PROCESSOR: False  
USED OIL REREFINER: False  
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False  
USED OIL FUEL MRKTR MEETS SPECS: False

Facility Site ID Number: 2608  
SWC Desc: WT02 WP02WL02  
FWC Desc: D001 - D011, F002 - F005D001-D043 F001-F003 F005  
Form Comm: Not reported  
Data Year: Not reported  
Permit by Rule: TRUE  
Treatment by Generator: FALSE  
Mixed radioactive waste: FALSE  
Importer of hazardous waste: FALSE  
Immediate recycler: FALSE  
Treatment/Storage/Disposal/Recycling Facility: FALSE  
Generator of dangerous fuel waste: FALSE  
Generator marketing to burner: FALSE  
"Other marketers (i.e., blender, distributor, etc.)": FALSE  
Utility boiler burner: FALSE  
Industry boiler burner: FALSE  
Industrial Furnace: FALSE  
Smelter defferal: FALSE  
Universal waste - batteries - generate: FALSE  
Universal waste - thermostats - generate: FALSE  
Universal waste - mercury - generate: FALSE  
Universal waste - lamps - generate: FALSE  
Universal waste - batteries - accumulate: FALSE  
Universal waste - thermostats - accumulate: FALSE  
Universal waste - mercury - accumulate: FALSE  
Universal waste - lamps - accumulate: FALSE  
Destination Facility for Universal Waste: FALSE  
Off-specification used oil burner - utility boiler: FALSE  
Off-specification used oil burner - industrial boiler: FALSE  
Off-specification used oil burner - industrial furnace: FALSE  
EPA ID: WA8680030931  
Facility Address 2: Not reported  
TAX REG NBR: 601678589  
NAICS CD: 54138  
BUSINESS TYPE: Not reported  
MAIL NAME: US EPA  
MAIL ADDR LINE1: 7411 Beach Dr E  
MAIL CITY,ST,ZIP: PORT ORCHARD, WA 98366-8204  
MAIL COUNTRY: UNITED STATES  
LEGAL ORG NAME: US EPA  
LEGAL ORG TYPE: Federal  
LEGAL ADDR LINE1: 1200 6TH AVE ECL 116  
LEGAL CITY,ST,ZIP: SEATTLE, WA 98101  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: (206)553-1530  
LEGAL EFFECTIVE DATE: 5/21/1996  
LAND ORG NAME: US EPA  
LAND ORG TYPE: Federal  
LAND PERSON NAME: Not reported  
LAND ADDR LINE1: 1200 6TH AVE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

LAND CITY,ST,ZIP: SEATTLE, WA 98101  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: (206)553-1530  
OPERATOR ORG NAME: US EPA  
OPERATOR ORG TYPE: Federal  
OPERATOR ADDR LINE1: 1200 6TH AVE  
OPERATOR CITY,ST,ZIP: SEATTLE, WA 98101  
OPERATOR COUNTRY: UNITED STATES  
OPERATOR PHONE NBR: (206)553-1530  
OPERATOR EFFECTIVE DATE: 5/21/1996  
SITE CONTACT NAME: Tony Morris  
SITE CONTACT ADDR LINE1: 7411 Beach Dr E  
SITE CONTACT ZIP: PORT ORCHARD, WA 98366-8204  
SITE CONTACT COUNTRY: UNITED STATES  
SITE CONTACT PHONE NBR: (360)871-8714  
SITE CONTACT EMAIL: morris.tony@epa.gov  
FORM CONTACT NAME: Tony Morris  
FORM CONTACT ADDR LINE1: 7411 Beach Dr E  
FORM CONTACT CITY,ST,ZIP: PORT ORCHARD, WA 98366-8204  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: (360)871-8714  
FORM CONTACT EMAIL: morris.tony@epa.gov  
GEN STATUS CD: MQG  
MONTHLY GENERATION: TRUE  
BATCH GENERATION: FALSE  
ONE TIME GENERATION: FALSE  
TRANSPORTS OWN WASTE: FALSE  
TRANSPORTS OTHRS WASTE: FALSE  
RECYCLER ONSITE: FALSE  
TRANSFER FACILITY: FALSE  
OTHER EXEMPTION: Not reported  
UW BATTERY GEN: FALSE  
USED OIL TRANSPORTER: FALSE  
USED OIL TRANSFER FACLTY: FALSE  
USED OIL PROCESSOR: FALSE  
USED OIL REREFINER: FALSE  
USED OIL FUEL MRKTR DIRECTS SHPMNTS: FALSE  
USED OIL FUEL MRKTR MEETS SPECS: FALSE

Click this [hyperlink](#) while viewing on your computer to access additional WA MANIFEST detail in the EDR Site Report.

NY MANIFEST:

EPA ID: WA8680030931  
Country: USA  
Mailing Name: USEPA  
Mailing Contact: USEPA  
Mailing Address: PO BOX 549  
Mailing Address 2: Not reported  
Mailing City: MANCHESTER  
Mailing State: WA  
Mailing Zip: 98353  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 206-442-0370

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Document ID: NYA4064163  
Manifest Status: Completed copy  
Trans1 State ID: (716)877-  
Trans2 State ID: Not reported  
Generator Ship Date: 860916  
Trans1 Recv Date: 860916  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 860926  
Part A Recv Date: 860925  
Part B Recv Date: 861002  
Generator EPA ID: WA8680030931  
Trans1 EPA ID: NYD980769947  
Trans2 EPA ID: Not reported  
TSDF ID: NYD000632372  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00001  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00003  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 86  
Manifest Tracking Num: Not reported  
Import Ind: Not reported  
Export Ind: Not reported  
Discr Quantity Ind: Not reported  
Discr Type Ind: Not reported  
Discr Residue Ind: Not reported  
Discr Partial Reject Ind: Not reported  
Discr Full Reject Ind: Not reported  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: Not reported

**HAZNET:**

Gepaid: WA8680030931  
Contact: US EPA REGION 10  
Telephone: 2068718704  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 7411 BEACH DR E  
Mailing City,St,Zip: PORT ORCHARD, WA 983668204  
Gen County: 99  
TSD EPA ID: CAD050806850  
TSD County: Los Angeles  
Waste Category: Unspecified organic liquid mixture  
Disposal Method: Recycler  
Tons: .4925  
Facility County: 99

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**US EPA MANCHESTER LABORATORY (Continued)**

**1000885186**

Gepaid: WA8680030931  
Contact: US EPA REGION 10  
Telephone: 2068718704  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 7411 BEACH DR E  
Mailing City,St,Zip: PORT ORCHARD, WA 983668204  
Gen County: 99  
TSD EPA ID: CAD050806850  
TSD County: Los Angeles  
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)  
Disposal Method: Recycler  
Tons: .1940  
Facility County: 99  
  
Gepaid: WA8680030931  
Contact: US EPA REGION 10  
Telephone: 2068718704  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 7411 BEACH DR E  
Mailing City,St,Zip: PORT ORCHARD, WA 983668204  
Gen County: 99  
TSD EPA ID: CAD050806850  
TSD County: Los Angeles  
Waste Category: Other inorganic solid waste  
Disposal Method: Recycler  
Tons: .0090  
Facility County: 99  
  
Gepaid: WA8680030931  
Contact: US EPA REGION 10  
Telephone: 2068718704  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 7411 BEACH DR E  
Mailing City,St,Zip: PORT ORCHARD, WA 983668204  
Gen County: 99  
TSD EPA ID: CAD050806850  
TSD County: Los Angeles  
Waste Category: Unspecified organic liquid mixture  
Disposal Method: Transfer Station  
Tons: .2620  
Facility County: 99  
  
Gepaid: WA8680030931  
Contact: US EPA REGION 10  
Telephone: 2068718704  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 7411 BEACH DR E  
Mailing City,St,Zip: PORT ORCHARD, WA 983668204  
Gen County: 99  
TSD EPA ID: CAL0000435  
TSD County: 0  
Waste Category: Other inorganic solid waste

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

US EPA MANCHESTER LABORATORY (Continued)

1000885186

Disposal Method: Recycler  
Tons: .0225  
Facility County: 99

[Click this hyperlink](#) while viewing on your computer to access  
28 additional CA\_HAZNET: record(s) in the EDR Site Report.

B6	WA ECY MANCHESTER LAB	RCRA-CESQG	1000197528
SSE	7411 BEACH DR E ECY LAB	CSCSL	WAD988471892
1/4-1/2	PORT ORCHARD, WA 98366	HSL	
0.445 mi.		ALLSITES	
2352 ft.	Site 2 of 2 in cluster B	UST	
		MANIFEST	

Relative:  
Lower RCRA-CESQG:  
Date form received by agency: 02/12/2008

Actual:  
19 ft. Facility name: WA ECY MANCHESTER LAB  
Facility address: 7411 BEACH DR E ECY LAB  
PORT ORCHARD, WA 98366  
EPA ID: WAD988471892  
Mailing address: 7411 BEACH DR E  
PORT ORCHARD, WA 98366-8204  
Contact: SUSAN CARRELL  
Contact address: 7411 BEACH DR E  
PORT ORCHARD, WA 98366-8204  
Contact country: US  
Contact telephone: (360)871-8806  
Contact email: Not reported  
EPA Region: 10  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: WA ECY  
Owner/operator address: 7411 BEACH DR E  
PORT ORCHARD, WA 98366  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: State  
Owner/Operator Type: Operator  
Owner/Op start date: 12/31/2007  
Owner/Op end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**WA ECY MANCHESTER LAB (Continued)**

**1000197528**

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 12/31/2007  
Facility name: WA ECY MANCHESTER LAB  
Classification: Not a generator, verified

Date form received by agency: 12/31/2005  
Facility name: WA ECY MANCHESTER LAB  
Classification: Not a generator, verified

Violation Status: No violations found

CSCSL:

Facility ID: 183  
Facility Type: Program Plan  
Region: Northwest  
Ecology Status Code: 3  
Entered Date: 3/31/1994  
Updated Date: 3/4/2009  
Brownfield Status: 0  
Rank Status: 0  
PSI Status: 1  
Clean Method: Not reported  
Drinking Water Type: Not reported  
Cleanup Standard: Not reported  
Acres Remediated: Not reported  
Latitude: 47.56522  
Longitude: -122.55006  
Lat/Long: 47.56522 / -122.55006  
Lat/Long (dms): 47 33 54.792 / -122 33 0.216  
Media Status Desc: 1/1/0001  
Affected Media: Soil  
Affected Media Status: Confirmed  
Pesticides: Not reported  
Petroleum Products: Confirmed  
Phenolic Compounds: Not reported  
Reactive Wastes: Not reported  
Corrosive Wastes: Not reported  
Radioactive Wastes: Not reported  
Asbestos: Confirmed

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**WA ECY MANCHESTER LAB (Continued)**

**1000197528**

Responsible Unit: HEADQUARTERS  
Arsenic Code: Not reported  
MTBE Code: Not reported  
UXO Code: Not reported  
Dioxin: Confirmed  
Non-Halogenated Solvents: Not reported  
Base/Neutral/Acid Organics: Not reported  
Halogenated Organic Compounds: Not reported  
EPA Priority Pollutants - Metals and Cyanide: Confirmed  
Metals - Other non-priority pollutant medals: Not reported  
Polychlorinated biPhenyls (PCBs): Confirmed  
Polynuclear Aromatic Hydrocarbons (PAH): Confirmed  
Conventional Contaminants, Organic: Not reported  
Conventional Contaminants, Inorganic: Not reported  
Tributyl Tin Contaminant Group: Not reported  
Bioassay/Benthic Failures Contaminant Group: Not reported  
Wood Debris Contaminant Group: Not reported  
Other Deleterious Substance Group: Not reported  
Ecology Site Status (MTCA cleanup process): RA in Progress

Facility ID: 183  
Facility Type: Program Plan  
Region: Northwest  
Ecology Status Code: 3  
Entered Date: 3/31/1994  
Updated Date: 3/4/2009  
Brownfield Status: 0  
Rank Status: 0  
PSI Status: 1  
Clean Method: Not reported  
Drinking Water Type: Not reported  
Cleanup Standard: Not reported  
Acres Remediated: Not reported  
Latitude: 47.56522  
Longitude: -122.55006  
Lat/Long: 47.56522 / -122.55006  
Lat/Long (dms): 47 33 54.792 / -122 33 0.216  
Media Status Desc: 1/1/0001  
Affected Media: Sediment  
Affected Media Status: Confirmed  
Pesticides: Not reported  
Petroleum Products: Not reported  
Phenolic Compounds: Confirmed  
Reactive Wastes: Not reported  
Corrosive Wastes: Not reported  
Radioactive Wastes: Not reported  
Asbestos: Not reported  
Responsible Unit: HEADQUARTERS  
Arsenic Code: Not reported  
MTBE Code: Not reported  
UXO Code: Not reported  
Dioxin: Confirmed  
Non-Halogenated Solvents: Not reported  
Base/Neutral/Acid Organics: Not reported  
Halogenated Organic Compounds: Not reported  
EPA Priority Pollutants - Metals and Cyanide: Confirmed  
Metals - Other non-priority pollutant medals: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**WA ECY MANCHESTER LAB (Continued)**

**1000197528**

Polychlorinated biPhenyls (PCBs): Confirmed  
Polynuclear Aromatic Hydrocarbons (PAH): Not reported  
Conventional Contaminants, Organic: Not reported  
Conventional Contaminants, Inorganic: Not reported  
Tributyl Tin Contaminant Group: Not reported  
Bioassay/Benthic Failures Contaminant Group: Not reported  
Wood Debris Contaminant Group: Not reported  
Other Deleterious Substance Group: Not reported  
Ecology Site Status (MTCA cleanup process): RA in Progress

Facility ID: 183  
Facility Type: Program Plan  
Region: Northwest  
Ecology Status Code: 3  
Entered Date: 3/31/1994  
Updated Date: 3/4/2009  
Brownfield Status: 0  
Rank Status: 0  
PSI Status: 1  
Clean Method: Not reported  
Drinking Water Type: Not reported  
Cleanup Standard: Not reported  
Acres Remediated: Not reported  
Latitude: 47.56522  
Longitude: -122.55006  
Lat/Long: 47.56522 / -122.55006  
Lat/Long (dms): 47 33 54.792 / -122 33 0.216  
Media Status Desc: 1/1/0001  
Affected Media: Groundwater  
Affected Media Status: Confirmed  
Pesticides: Not reported  
Petroleum Products: Confirmed  
Phenolic Compounds: Not reported  
Reactive Wastes: Not reported  
Corrosive Wastes: Not reported  
Radioactive Wastes: Not reported  
Asbestos: Not reported  
Responsible Unit: HEADQUARTERS  
Arsenic Code: Not reported  
MTBE Code: Not reported  
UXO Code: Not reported  
Dioxin: Not reported  
Non-Halogenated Solvents: Not reported  
Base/Neutral/Acid Organics: Not reported  
Halogenated Organic Compounds: Not reported  
EPA Priority Pollutants - Metals and Cyanide: Confirmed  
Metals - Other non-priority pollutant metals: Not reported  
Polychlorinated biPhenyls (PCBs): Confirmed  
Polynuclear Aromatic Hydrocarbons (PAH): Not reported  
Conventional Contaminants, Organic: Not reported  
Conventional Contaminants, Inorganic: Not reported  
Tributyl Tin Contaminant Group: Not reported  
Bioassay/Benthic Failures Contaminant Group: Not reported  
Wood Debris Contaminant Group: Not reported  
Other Deleterious Substance Group: Not reported  
Ecology Site Status (MTCA cleanup process): RA in Progress

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**WA ECY MANCHESTER LAB (Continued)**

**1000197528**

**HSL:**

edr\_fstat: WA  
edr\_fzip: Not reported  
edr\_fconty: KITSAP  
edr\_zip: Not reported  
**Facility Type:** **Hazardous Sites List**  
Facility Status: RA in progress  
FSID Number: 183  
Rank: 0  
Region: HQ

**ALLSITES:**

Facility Id: 183  
Latitude: 47.565219999999997  
Longitude: -122.55006  
Geographic location identifier (alias facid): 183  
Facility Name: WA ECY Manchester Lab  
Latitude Decimal Degrees: 47.565219999999997  
Longitude Decimal Degrees: -122.55006  
Coordinate Point Areal Extent Code: 99  
Horizontal Accuracy Code: 4  
Coordinate Point Geographic Position Code: 99  
Location Verified Code: Y

Geographic Location Identifier (Alias Facid): 183  
Interaction (Aka Env Int) Type Code: SCS  
Interaction (Aka Env Int) Description: State Cleanup Site  
Interaction Status: I  
Federal Program Identifier: Not reported  
Interaction Start Date: 1/1/1988  
Interaction End Date: 3/13/1996

Geographic Location Identifier (Alias Facid): 183  
Interaction (Aka Env Int) Type Code: FCS  
Interaction (Aka Env Int) Description: Federal (Superfund) Cleanup St  
Interaction Status: A  
Federal Program Identifier: WAD988471892  
Interaction Start Date: 3/13/1996  
Interaction End Date: Not reported

Geographic Location Identifier (Alias Facid): 183  
Interaction (Aka Env Int) Type Code: HWG  
Interaction (Aka Env Int) Description: Hazardous Waste Generator  
Interaction Status: A  
Federal Program Identifier: WAD988471892  
Interaction Start Date: 1/6/2005  
Interaction End Date: Not reported

Geographic Location Identifier (Alias Facid): 183  
Interaction (Aka Env Int) Type Code: HWG  
Interaction (Aka Env Int) Description: Hazardous Waste Generator  
Interaction Status: I  
Federal Program Identifier: WAD988471892  
Interaction Start Date: 3/2/1990  
Interaction End Date: 12/6/1990

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**WA ECY MANCHESTER LAB (Continued)**

**1000197528**

Geographic Location Identifier (Alias Facid): 183  
Interaction (Aka Env Int) Type Code: UST  
Interaction (Aka Env Int) Description: Underground Storage Tank  
Interaction Status: I  
Federal Program Identifier: 97423  
Interaction Start Date: 3/19/1999  
Interaction End Date: 5/3/2000

Geographic Location Identifier (Alias Facid): 183  
Interaction (Aka Env Int) Type Code: SEDIMENT  
Interaction (Aka Env Int) Description: Sediments  
Interaction Status: A  
Federal Program Identifier: Not reported  
Interaction Start Date: 1/1/1900  
Interaction End Date: Not reported

UST:

Facility ID: 183  
Site ID: 97423  
Lat Deg: 47  
Lat Min: 33  
Lat Sec: 54.791999999874  
Long Deg: -122  
Long Min: 33  
Long Sec: 0.21600000000717  
UBI: Not reported  
Phone Number: 2064420372

Tank ID: 22626  
Tank Name: TANK #1\*  
Install Date: 12/31/1964  
Capacity: Not reported  
Tank Upgrade Date: 1/1/0001  
TankSystem Status: Removed  
TankSystem Status Change Date: 8/26/1996  
Tank Status: Removed  
Tank Permit Expiration Date: 1/1/0001  
Tank Closure Date: 1/1/0001  
Tank Pumping System: Not reported  
Tank Spill Prevention: Not reported  
Tank Overfill Prevention: Not reported  
Tank Material: Steel  
Tank Construction: Not reported  
Tank Tightness Test: Not reported  
Tank Corrosion Protection: Not reported  
Pipe Material: Steel  
Pipe Construction: Not reported  
Pipe Primary Release Detection: Not reported  
Pipe Second Release Detection: Not reported  
Pipe Corrosion Protection: Not reported  
Tank Primary Release Detection: Not reported  
Tank Second Release Detection: Not reported  
Pipe Tightness Test: Not reported  
Tank Actual Status Date: 8/6/1996  
Tag Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**WA ECY MANCHESTER LAB (Continued)**

**1000197528**

WA MANIFEST:

Facility Site ID Number: 183  
SWC Desc: wlo2  
FWC Desc: doo1 doo2  
Form Comm: Not reported  
Data Year: Not reported  
Permit by Rule: False  
Treatment by Generator: False  
Mixed radioactive waste: False  
Importer of hazardous waste: False  
Immediate recycler: False  
Treatment/Storage/Disposal/Recycling Facility: False  
Generator of dangerous fuel waste: False  
Generator marketing to burner: False  
"Other marketers (i.e., blender, distributor, etc.)": False  
Utility boiler burner: False  
Industry boiler burner: False  
Industrial Furnace: False  
Smelter defferal: False  
Universal waste - batteries - generate: False  
Universal waste - thermostats - generate: False  
Universal waste - mercury - generate: False  
Universal waste - lamps - generate: False  
Universal waste - batteries - accumulate: False  
Universal waste - thermostats - accumulate: False  
Universal waste - mercury - accumulate: False  
Universal waste - lamps - accumulate: False  
Destination Facility for Universal Waste: False  
Off-specification used oil burner - utility boiler: False  
Off-specification used oil burner - industrial boiler: False  
Off-specification used oil burner - industrial furnace: False  
EPA ID: WAD988471892  
Facility Address 2: Not reported  
TAX REG NBR: 600021881  
NAICS CD: 562219  
BUSINESS TYPE: Environmental Laboratory  
MAIL NAME: WA ECY  
MAIL ADDR LINE1: 7411 Beach Dr E  
MAIL CITY,ST,ZIP: Port Orchard, WA 98366-8204  
MAIL COUNTRY: UNITED STATES  
LEGAL ORG NAME: EPA  
LEGAL ORG TYPE: Federal  
LEGAL ADDR LINE1: 7411 Beach Dr E  
LEGAL CITY,ST,ZIP: Port Orchard, WA 98366-8204  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: (360)871-8700  
LEGAL EFFECTIVE DATE: 1/1/1979  
LAND ORG NAME: EPA  
LAND ORG TYPE: Federal  
LAND PERSON NAME: Not reported  
LAND ADDR LINE1: 7411 Beach Dr E  
LAND CITY,ST,ZIP: Port Orchard, WA 98366-8204  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: (360)871-8700  
OPERATOR ORG NAME: WA ECY  
OPERATOR ORG TYPE: State  
OPERATOR ADDR LINE1: 7411 Beach Dr E

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**WA ECY MANCHESTER LAB (Continued)**

**1000197528**

OPERATOR CITY,ST,ZIP: Port Orchard, WA 98366-8204  
OPERATOR COUNTRY: UNITED STATES  
OPERATOR PHONE NBR: (360)871-8806  
OPERATOR EFFECTIVE DATE: Not reported  
SITE CONTACT NAME: Susan Carrell  
SITE CONTACT ADDR LINE1: 7411 Beach Dr E  
SITE CONTACT ZIP: Port Orchard, WA 98366-8204  
SITE CONTACT COUNTRY: UNITED STATES  
SITE CONTACT PHONE NBR: (360)871-8806  
SITE CONTACT EMAIL: sdav461@ecy.wa.gov  
FORM CONTACT NAME: Susan Carrell  
FORM CONTACT ADDR LINE1: 7411 Beach Dr E  
FORM CONTACT CITY,ST,ZIP: Port Orchard, WA 98366-8204  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: (360)871-8806  
FORM CONTACT EMAIL: sdav461@ecy.wa.gov  
GEN STATUS CD: SQG  
MONTHLY GENERATION: False  
BATCH GENERATION: True  
ONE TIME GENERATION: False  
TRANSPORTS OWN WASTE: False  
TRANSPORTS OTHRS WASTE: False  
RECYCLER ONSITE: False  
TRANSFER FACILITY: False  
OTHER EXEMPTION: Not reported  
UW BATTERY GEN: False  
USED OIL TRANSPORTER: False  
USED OIL TRANSFER FACLTY: False  
USED OIL PROCESSOR: False  
USED OIL REREFINER: False  
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False  
USED OIL FUEL MRKTR MEETS SPECS: False

Facility Site ID Number: 183  
SWC Desc: WT02  
FWC Desc: D001 D002 F002 F003  
Form Comm: Not reported  
Data Year: 2009  
Permit by Rule: False  
Treatment by Generator: False  
Mixed radioactive waste: False  
Importer of hazardous waste: False  
Immediate recycler: False  
Treatment/Storage/Disposal/Recycling Facility: False  
Generator of dangerous fuel waste: False  
Generator marketing to burner: False  
'Other marketers (i.e., blender, distributor, etc.)': False  
Utility boiler burner: False  
Industry boiler burner: False  
Industrial Furnace: False  
Smelter deferral: False  
Universal waste - batteries - generate: False  
Universal waste - thermostats - generate: False  
Universal waste - mercury - generate: False  
Universal waste - lamps - generate: False  
Universal waste - batteries - accumulate: False  
Universal waste - thermostats - accumulate: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**WA ECY MANCHESTER LAB (Continued)**

**1000197528**

Universal waste - mercury - accumulate: False  
Universal waste - lamps - accumulate: False  
Destination Facility for Universal Waste: False  
Off-specification used oil burner - utility boiler: False  
Off-specification used oil burner - industrial boiler: False  
Off-specification used oil burner - industrial furnace: False  
EPA ID: WAD988471892  
Facility Address 2: Not reported  
TAX REG NBR: 600021881  
NAICS CD: 562219  
BUSINESS TYPE: Environmental Laboratory  
MAIL NAME: WA ECY  
MAIL ADDR LINE1: 7411 Beach Dr E  
MAIL CITY,ST,ZIP: Port Orchard, WA 98366-8204  
MAIL COUNTRY: UNITED STATES  
LEGAL ORG NAME: EPA  
LEGAL ORG TYPE: Federal  
LEGAL ADDR LINE1: 7411 Beach Dr E  
LEGAL CITY,ST,ZIP: Port Orchard, WA 98366-8204  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: (360)871-8700  
LEGAL EFFECTIVE DATE: 1/1/1979  
LAND ORG NAME: EPA  
LAND ORG TYPE: Federal  
LAND PERSON NAME: Not reported  
LAND ADDR LINE1: 7411 Beach Dr E  
LAND CITY,ST,ZIP: Port Orchard, WA 98366-8204  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: (360)871-8700  
OPERATOR ORG NAME: WA ECY  
OPERATOR ORG TYPE: State  
OPERATOR ADDR LINE1: 7411 Beach Dr E  
OPERATOR CITY,ST,ZIP: Port Orchard, WA 98366-8204  
OPERATOR COUNTRY: UNITED STATES  
OPERATOR PHONE NBR: (360)871-8806  
OPERATOR EFFECTIVE DATE: Not reported  
SITE CONTACT NAME: Susan Carrell  
SITE CONTACT ADDR LINE1: 7411 Beach Dr E  
SITE CONTACT ZIP: Port Orchard, WA 98366-8204  
SITE CONTACT COUNTRY: UNITED STATES  
SITE CONTACT PHONE NBR: (360)871-8806  
SITE CONTACT EMAIL: sdav461@ecy.wa.gov  
FORM CONTACT NAME: Susan Carrell  
FORM CONTACT ADDR LINE1: 7411 Beach Dr E  
FORM CONTACT CITY,ST,ZIP: Port Orchard, WA 98366-8204  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: (360)871-8806  
FORM CONTACT EMAIL: sdav461@ecy.wa.gov  
GEN STATUS CD: SQG  
MONTHLY GENERATION: False  
BATCH GENERATION: True  
ONE TIME GENERATION: False  
TRANSPORTS OWN WASTE: False  
TRANSPORTS OTHRS WASTE: False  
RECYCLER ONSITE: False  
TRANSFER FACILITY: False  
OTHER EXEMPTION: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**WA ECY MANCHESTER LAB (Continued)**

**1000197528**

UW BATTERY GEN: False  
USED OIL TRANSPORTER: False  
USED OIL TRANSFER FACLTY: False  
USED OIL PROCESSOR: False  
USED OIL REREFINER: False  
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False  
USED OIL FUEL MRKTR MEETS SPECS: False

Facility Site ID Number: 183  
SWC Desc: wlo2  
FWC Desc: doo1 doo2  
Form Comm: Not reported  
Data Year: Not reported  
Permit by Rule: No  
Treatment by Generator: No  
Mixed radioactive waste: No  
Importer of hazardous waste: No  
Immediate recycler: No  
Treatment/Storage/Disposal/Recycling Facility: No  
Generator of dangerous fuel waste: No  
Generator marketing to burner: No  
"Other marketers (i.e., blender, distributor, etc.)": No  
Utility boiler burner: No  
Industry boiler burner: No  
Industrial Furnace: No  
Smelter defferal: No  
Universal waste - batteries - generate: No  
Universal waste - thermostats - generate: No  
Universal waste - mercury - generate: No  
Universal waste - lamps - generate: No  
Universal waste - batteries - accumulate: No  
Universal waste - thermostats - accumulate: No  
Universal waste - mercury - accumulate: No  
Universal waste - lamps - accumulate: No  
Destination Facility for Universal Waste: No  
Off-specification used oil burner - utility boiler: No  
Off-specification used oil burner - industrial boiler: No  
Off-specification used oil burner - industrial furnace: No  
EPA ID: WAD988471892  
Facility Address 2: Not reported  
TAX REG NBR: 600021881  
NAICS CD: 562219  
BUSINESS TYPE: Environmental Laboratory  
MAIL NAME: WA ECY  
MAIL ADDR LINE1: 7411 Beach Dr E  
MAIL CITY,ST,ZIP: Port Orchard, WA 98366-8204  
MAIL COUNTRY: UNITED STATES  
LEGAL ORG NAME: EPA  
LEGAL ORG TYPE: Federal  
LEGAL ADDR LINE1: 7411 Beach Dr E  
LEGAL CITY,ST,ZIP: Port Orchard, WA 98366-8204  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: (360)871-8700  
LEGAL EFFECTIVE DATE: 1/1/1979  
LAND ORG NAME: EPA  
LAND ORG TYPE: Federal  
LAND PERSON NAME: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**WA ECY MANCHESTER LAB (Continued)**

**1000197528**

LAND ADDR LINE1: 7411 Beach Dr E  
LAND CITY,ST,ZIP: Port Orchard, WA 98366-8204  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: (360)871-8700  
OPERATOR ORG NAME: WA ECY  
OPERATOR ORG TYPE: State  
OPERATOR ADDR LINE1: 7411 Beach Dr E  
OPERATOR CITY,ST,ZIP: Port Orchard, WA 98366-8204  
OPERATOR COUNTRY: UNITED STATES  
OPERATOR PHONE NBR: (360)871-8800  
OPERATOR EFFECTIVE DATE: Not reported  
SITE CONTACT NAME: Susan Davis  
SITE CONTACT ADDR LINE1: 7411 Beach Dr E  
SITE CONTACT ZIP: Port Orchard, WA 98366-8204  
SITE CONTACT COUNTRY: UNITED STATES  
SITE CONTACT PHONE NBR: (360)871-8806  
SITE CONTACT EMAIL: sdav461@ecy.wa.gov  
FORM CONTACT NAME: Susan Davis  
FORM CONTACT ADDR LINE1: 7411 Beach Dr E  
FORM CONTACT CITY,ST,ZIP: Port Orchard, WA 98366-8204  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: (360)871-8806  
FORM CONTACT EMAIL: sdav461@ecy.wa.gov  
GEN STATUS CD: SQG  
MONTHLY GENERATION: No  
BATCH GENERATION: Yes  
ONE TIME GENERATION: No  
TRANSPORTS OWN WASTE: No  
TRANSPORTS OTHRS WASTE: No  
RECYCLER ONSITE: No  
TRANSFER FACILITY: No  
OTHER EXEMPTION: Not reported  
UW BATTERY GEN: No  
USED OIL TRANSPORTER: No  
USED OIL TRANSFER FACLTY: No  
USED OIL PROCESSOR: No  
USED OIL REREFINER: No  
USED OIL FUEL MRKTR DIRECTS SHPMNTS: No  
USED OIL FUEL MRKTR MEETS SPECS: No

Facility Site ID Number: 183  
SWC Desc: wlo2  
FWC Desc: doo1 doo2  
Form Comm: Not reported  
Data Year: Not reported  
Permit by Rule: FALSE  
Treatment by Generator: FALSE  
Mixed radioactive waste: FALSE  
Importer of hazardous waste: FALSE  
Immediate recycler: FALSE  
Treatment/Storage/Disposal/Recycling Facility: FALSE  
Generator of dangerous fuel waste: FALSE  
Generator marketing to burner: FALSE  
"Other marketers (i.e., blender, distributor, etc.)": FALSE  
Utility boiler burner: FALSE  
Industry boiler burner: FALSE  
Industrial Furnace: FALSE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**WA ECY MANCHESTER LAB (Continued)**

**1000197528**

Smelter defferal: FALSE  
Universal waste - batteries - generate: FALSE  
Universal waste - thermostats - generate: FALSE  
Universal waste - mercury - generate: FALSE  
Universal waste - lamps - generate: FALSE  
Universal waste - batteries - accumulate: FALSE  
Universal waste - thermostats - accumulate: FALSE  
Universal waste - mercury - accumulate: FALSE  
Universal waste - lamps - accumulate: FALSE  
Destination Facility for Universal Waste: FALSE  
Off-specification used oil burner - utility boiler: FALSE  
Off-specification used oil burner - industrial boiler: FALSE  
Off-specification used oil burner - industrial furnace: FALSE  
EPA ID: WAD988471892  
Facility Address 2: Not reported  
TAX REG NBR: 600021881  
NAICS CD: 562219  
BUSINESS TYPE: Environmental Laboratory  
MAIL NAME: WA ECY  
MAIL ADDR LINE1: 7411 Beach Dr E  
MAIL CITY,ST,ZIP: Port Orchard, WA 98366-8204  
MAIL COUNTRY: UNITED STATES  
LEGAL ORG NAME: EPA  
LEGAL ORG TYPE: Federal  
LEGAL ADDR LINE1: 7411 Beach Dr E  
LEGAL CITY,ST,ZIP: Port Orchard, WA 98366-8204  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: (360)871-8700  
LEGAL EFFECTIVE DATE: 1/1/1979  
LAND ORG NAME: EPA  
LAND ORG TYPE: Federal  
LAND PERSON NAME: Not reported  
LAND ADDR LINE1: 7411 Beach Dr E  
LAND CITY,ST,ZIP: Port Orchard, WA 98366-8204  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: (360)871-8700  
OPERATOR ORG NAME: WA ECY  
OPERATOR ORG TYPE: State  
OPERATOR ADDR LINE1: 7411 Beach Dr E  
OPERATOR CITY,ST,ZIP: Port Orchard, WA 98366-8204  
OPERATOR COUNTRY: UNITED STATES  
OPERATOR PHONE NBR: (360)871-8800  
OPERATOR EFFECTIVE DATE: Not reported  
SITE CONTACT NAME: Susan Davis  
SITE CONTACT ADDR LINE1: 7411 Beach Dr E  
SITE CONTACT ZIP: Port Orchard, WA 98366-8204  
SITE CONTACT COUNTRY: UNITED STATES  
SITE CONTACT PHONE NBR: (360)871-8806  
SITE CONTACT EMAIL: sdav461@ecy.wa.gov  
FORM CONTACT NAME: Susan Davis  
FORM CONTACT ADDR LINE1: 7411 Beach Dr E  
FORM CONTACT CITY,ST,ZIP: Port Orchard, WA 98366-8204  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: (360)871-8806  
FORM CONTACT EMAIL: sdav461@ecy.wa.gov  
GEN STATUS CD: MQG  
MONTHLY GENERATION: FALSE

**MAP FINDINGS**

Map ID	Site	Database(s)	EDR ID Number
Direction			EPA ID Number
Distance			
Elevation			

**WA ECY MANCHESTER LAB (Continued)**

**1000197528**

BATCH GENERATION: TRUE  
 ONE TIME GENERATION: FALSE  
 TRANSPORTS OWN WASTE: FALSE  
 TRANSPORTS OTHRS WASTE: FALSE  
 RECYCLER ONSITE: FALSE  
 TRANSFER FACILITY: FALSE  
 OTHER EXEMPTION: Not reported  
 UW BATTERY GEN: FALSE  
 USED OIL TRANSPORTER: FALSE  
 USED OIL TRANSFER FACLTY: FALSE  
 USED OIL PROCESSOR: FALSE  
 USED OIL REREFINER: FALSE  
 USED OIL FUEL MRKTR DIRECTS SHPMNTS: FALSE  
 USED OIL FUEL MRKTR MEETS SPECS: FALSE

Facility Site ID Number: 183  
 SWC Desc: WT02  
 FWC Desc: D001 D002 F002 F003  
 Form Comm: Not reported  
 Data Year: 2008  
 Permit by Rule: False  
 Treatment by Generator: False  
 Mixed radioactive waste: False  
 Importer of hazardous waste: False  
 Immediate recycler: False  
 Treatment/Storage/Disposal/Recycling Facility: False  
 Generator of dangerous fuel waste: False  
 Generator marketing to burner: False  
 "Other marketers (i.e., blender, distributor, etc.)": False  
 Utility boiler burner: False  
 Industry boiler burner: False  
 Industrial Furnace: False  
 Smelter deferral: False  
 Universal waste - batteries - generate: False  
 Universal waste - thermostats - generate: False  
 Universal waste - mercury - generate: False  
 Universal waste - lamps - generate: False  
 Universal waste - batteries - accumulate: False  
 Universal waste - thermostats - accumulate: False  
 Universal waste - mercury - accumulate: False  
 Universal waste - lamps - accumulate: False  
 Destination Facility for Universal Waste: False  
 Off-specification used oil burner - utility boiler: False  
 Off-specification used oil burner - industrial boiler: False  
 Off-specification used oil burner - industrial furnace: False  
 EPA ID: WAD988471892  
 Facility Address 2: Not reported  
 TAX REG NBR: 600021881  
 NAICS CD: 562219  
 BUSINESS TYPE: Environmental Laboratory  
 MAIL NAME: WA ECY  
 MAIL ADDR LINE1: 7411 Beach Dr E  
 MAIL CITY,ST,ZIP: Port Orchard, WA 98366-8204  
 MAIL COUNTRY: UNITED STATES  
 LEGAL ORG NAME: EPA  
 LEGAL ORG TYPE: Federal  
 LEGAL ADDR LINE1: 7411 Beach Dr E

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**WA ECY MANCHESTER LAB (Continued)**

**1000197528**

LEGAL CITY,ST,ZIP: Port Orchard, WA 98366-8204  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: (360)871-8700  
LEGAL EFFECTIVE DATE: 1/1/1979  
LAND ORG NAME: EPA  
LAND ORG TYPE: Federal  
LAND PERSON NAME: Not reported  
LAND ADDR LINE1: 7411 Beach Dr E  
LAND CITY,ST,ZIP: Port Orchard, WA 98366-8204  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: (360)871-8700  
OPERATOR ORG NAME: WA ECY  
OPERATOR ORG TYPE: State  
OPERATOR ADDR LINE1: 7411 Beach Dr E  
OPERATOR CITY,ST,ZIP: Port Orchard, WA 98366-8204  
OPERATOR COUNTRY: UNITED STATES  
OPERATOR PHONE NBR: (360)871-8806  
OPERATOR EFFECTIVE DATE: Not reported  
SITE CONTACT NAME: Susan Carrell  
SITE CONTACT ADDR LINE1: 7411 Beach Dr E  
SITE CONTACT ZIP: Port Orchard, WA 98366-8204  
SITE CONTACT COUNTRY: UNITED STATES  
SITE CONTACT PHONE NBR: (360)871-8806  
SITE CONTACT EMAIL: sdav461@ecy.wa.gov  
FORM CONTACT NAME: Susan Carrell  
FORM CONTACT ADDR LINE1: 7411 Beach Dr E  
FORM CONTACT CITY,ST,ZIP: Port Orchard, WA 98366-8204  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: (360)871-8806  
FORM CONTACT EMAIL: sdav461@ecy.wa.gov  
GEN STATUS CD: SQG  
MONTHLY GENERATION: False  
BATCH GENERATION: True  
ONE TIME GENERATION: False  
TRANSPORTS OWN WASTE: False  
TRANSPORTS OTHRS WASTE: False  
RECYCLER ONSITE: False  
TRANSFER FACILITY: False  
OTHER EXEMPTION: Not reported  
UW BATTERY GEN: False  
USED OIL TRANSPORTER: False  
USED OIL TRANSFER FACLTY: False  
USED OIL PROCESSOR: False  
USED OIL REREFINER: False  
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False  
USED OIL FUEL MRKTR MEETS SPECS: False

[Click this hyperlink](#) while viewing on your computer to access additional WA MANIFEST detail in the EDR Site Report.

Map ID  
Direction  
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MAP FINDINGS

Site

EDR ID Number  
EPA ID Number

7       **FISC PUGET SOUND FUEL DEPT**  
SSE      **7501 BEACH DR E**  
1/2-1     **PORT ORCHARD, WA 98366**  
0.531 mi.  
2806 ft.

CERC-NFRAP    **1000160357**  
CORRACTS      **WA2170023426**  
RCRA-CESQG  
FINDS  
ALLSITES  
MANIFEST  
SPILLS

Relative:  
Lower

CERC-NFRAP:  
Actual:      Site ID:            1001108  
18 ft.        Federal Facility:    Federal Facility  
                NPL Status:        Not on the NPL  
                Non NPL Status:    NFRAP

CERCLIS-NFRAP Site Alias Name(s):

Alias Name:	US NAVY NAVAL SUPPLY CENTER - PUGET SOUN
Alias Address:	MANCHESTER FUEL DEPT
	MANCHESTER, WA 98353
Alias Name:	MANCHESTER SUPPLY CENTER
Alias Address:	Not reported
	WA
Alias Name:	USNAVY FUEL DEPT NSC PUGET SOUND
Alias Address:	ORCHARD PT LITTLE CLAM BAY
	MANCHESTER, WA 98353
Alias Name:	PUGET SOUND FISC FUEL DEPARTMENT
Alias Address:	ORCHARD POINT/LITTLE CLAM BAY
	MANCHESTER, WA 98134

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	10/01/1980
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	08/22/1990
Date Completed:	06/02/1992
Priority Level:	Higher priority for further assessment
Action:	DC
Date Started:	Not reported
Date Completed:	10/22/1992
Priority Level:	Not reported
Action:	SITE INSPECTION
Date Started:	11/02/1993
Date Completed:	01/17/1995
Priority Level:	Low priority for further assessment
Action:	ARCHIVE SITE
Date Started:	Not reported
Date Completed:	04/01/2003
Priority Level:	Not reported
Action:	VF

Map ID  
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Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

Date Started: 08/24/2000  
Date Completed: 04/01/2003  
Priority Level: Not reported

Action: OTHER CLEANUP ACTIVITY  
Date Started: 08/03/1995  
Date Completed: 04/01/2003  
Priority Level: NFRAP: No further Remedial Action planned

CORRACTS:

EPA ID: WA2170023426  
EPA Region: 10  
Area Name: ENTIRE FACILITY  
Actual Date: 6/13/1988  
Action: CA050 - RFA Completed  
NAICS Code(s): 42471  
Petroleum Bulk Stations and Terminals  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: WA2170023426  
EPA Region: 10  
Area Name: ENTIRE FACILITY  
Actual Date: 6/13/1988  
Action: CA070NO - RFA Determination Of Need For An RFI, RFI is Not Necessary  
NAICS Code(s): 42471  
Petroleum Bulk Stations and Terminals  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: WA2170023426  
EPA Region: 10  
Area Name: ENTIRE FACILITY  
Actual Date: 6/13/1988  
Action: CA210SF - CA Responsibility Referred To A Non-RCRA Federal Authority, Corrective Action at the facility or area referred to CERCLA  
NAICS Code(s): 42471  
Petroleum Bulk Stations and Terminals  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: WA2170023426  
EPA Region: 10  
Area Name: ENTIRE FACILITY  
Actual Date: 6/13/1988  
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority  
NAICS Code(s): 42471  
Petroleum Bulk Stations and Terminals  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: WA2170023426  
EPA Region: 10  
Area Name: ENTIRE FACILITY

Map ID  
Direction  
Distance  
Elevation

Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

Actual Date: 9/5/1997  
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority  
NAICS Code(s): 42471  
Petroleum Bulk Stations and Terminals  
Original schedule date: Not reported  
Schedule end date: Not reported

**RCRA-CESQG:**

Date form received by agency: 02/25/2008  
Facility name: FISC PUGET SOUND FUEL DEPT  
Facility address: 7501 BEACH DR E  
PORT ORCHARD, WA 98366  
EPA ID: WA2170023426  
Mailing address: PO BOX 8  
MANCHESTER, WA 98353-0008  
Contact: GLENN E SCHMITT  
Contact address: PO BOX 8  
MANCHESTER, WA 98353-0008  
Contact country: US  
Contact telephone: (360)476-9338  
Contact email: Not reported  
EPA Region: 10  
Land type: Federal  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Owner/Operator Summary:**

Owner/operator name: FLEET & INDUSTRIAL SUPPLY CENTER PS  
Owner/operator address: PO BOX 8  
MANCHESTER, WA 98353  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Federal  
Owner/Operator Type: Operator  
Owner/Op start date: 02/12/1997  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: Yes  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 12/31/2007  
Facility name: FISC PUGET SOUND FUEL DEPT  
Classification: Not a generator, verified

Date form received by agency: 12/31/2005  
Facility name: FISC PUGET SOUND FUEL DEPT  
Classification: Not a generator, verified

Date form received by agency: 12/31/2003  
Facility name: FISC PUGET SOUND FUEL DEPT  
Classification: Not a generator, verified

Date form received by agency: 04/06/2000  
Facility name: FISC PUGET SOUND FUEL DEPT  
Classification: Large Quantity Generator

Date form received by agency: 02/23/1998  
Facility name: FISC PUGET SOUND FUEL DEPT  
Site name: FISC PS MANCHESTER FUEL DEPT  
Classification: Large Quantity Generator

Date form received by agency: 03/01/1996  
Facility name: FISC PUGET SOUND FUEL DEPT  
Site name: FISC PS MANCHESTER FUEL DEPT  
Classification: Large Quantity Generator

Date form received by agency: 02/15/1994  
Facility name: FISC PUGET SOUND FUEL DEPT  
Site name: FLEET & INDUSTRIAL SUPPLY CENTER  
Classification: Large Quantity Generator

Date form received by agency: 09/01/1993  
Facility name: FISC PUGET SOUND FUEL DEPT  
Site name: NAVAL SUPPLY CTR PUGET SOUND  
Classification: Large Quantity Generator

Corrective Action Summary:

Event date: 06/13/1988  
Event: RFA Completed

Event date: 06/13/1988  
Event: RFA Determination Of Need For An RFI, RFI is Not Necessary;

Map ID  
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MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

Event date:	06/13/1988
Event:	CA Prioritization, Facility or area was assigned a low corrective action priority.
Event date:	06/13/1988
Event:	CA Responsibility Referred To A Non-RCRA Federal Authority, Corrective Action at the facility or area referred to CERCLA.
Event date:	09/05/1997
Event:	CA Prioritization, Facility or area was assigned a low corrective action priority.

Facility Has Received Notices of Violations:

Regulation violated:	SR - 630(3)
Area of violation:	TSD - Container Use and Management
Date violation determined:	06/18/1992
Date achieved compliance:	08/13/1992
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	06/18/1992
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	SR - 330(2)(b)
Area of violation:	TSD - General Facility Standards
Date violation determined:	06/18/1992
Date achieved compliance:	08/13/1992
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	06/18/1992
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	SR - 330(1)(b)
Area of violation:	TSD - General Facility Standards
Date violation determined:	06/18/1992
Date achieved compliance:	08/13/1992
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	06/18/1992
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	Not reported
Area of violation:	TSD - General

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

Date violation determined: 06/01/1990  
Date achieved compliance: 12/27/1990  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 07/11/1990  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported  
  
Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 05/18/1990  
Date achieved compliance: 11/07/1994  
Violation lead agency: EPA  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/23/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: EPA  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported  
  
Regulation violated: Not reported  
Area of violation: LDR - General  
Date violation determined: 05/18/1990  
Date achieved compliance: 11/07/1994  
Violation lead agency: EPA  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/23/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: EPA  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported  
  
Regulation violated: Not reported  
Area of violation: LDR - General  
Date violation determined: 08/31/1988  
Date achieved compliance: 03/09/1989  
Violation lead agency: EPA  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported  
  
Regulation violated: Not reported  
Area of violation: TSD - Closure/Post-Closure  
Date violation determined: 09/28/1987

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

Date achieved compliance: 03/09/1989  
Violation lead agency: EPA  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Closure/Post-Closure  
Date violation determined: 09/25/1986  
Date achieved compliance: 03/09/1989  
Violation lead agency: EPA  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 06/02/1987  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 09/25/1986  
Date achieved compliance: 07/04/1994  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 06/02/1987  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 09/25/1986  
Date achieved compliance: 03/09/1989  
Violation lead agency: EPA  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 06/02/1987  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Closure/Post-Closure  
Date violation determined: 09/25/1986  
Date achieved compliance: 07/04/1994

Map ID  
Direction  
Distance  
Elevation

Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 06/02/1987  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Manifest/Records/Reporting  
Date violation determined: 09/25/1986  
Date achieved compliance: 03/09/1989  
Violation lead agency: EPA  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 06/02/1987  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 10/26/1983  
Date achieved compliance: 05/22/1984  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 02/27/1984  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:  
Evaluation date: 11/07/1994  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: EPA

Evaluation date: 11/06/1994  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 03/03/1992  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Container Use and Management  
Date achieved compliance: 08/13/1992  
Evaluation lead agency: State

Map ID	Site	MAP FINDINGS	Database(s)	EDR ID Number
Direction				EPA ID Number
Distance				
Elevation				

**FISC PUGET SOUND FUEL DEPT (Continued)**
**1000160357**

Evaluation date:	03/03/1992
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General Facility Standards
Date achieved compliance:	08/13/1992
Evaluation lead agency:	State
Evaluation date:	04/02/1991
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	06/01/1990
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General
Date achieved compliance:	12/27/1990
Evaluation lead agency:	State
Evaluation date:	05/18/1990
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	LDR - General
Date achieved compliance:	11/07/1994
Evaluation lead agency:	EPA
Evaluation date:	05/18/1990
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General
Date achieved compliance:	11/07/1994
Evaluation lead agency:	EPA
Evaluation date:	03/09/1989
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA
Evaluation date:	08/31/1988
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	LDR - General
Date achieved compliance:	03/09/1989
Evaluation lead agency:	EPA
Evaluation date:	09/28/1987
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Closure/Post-Closure
Date achieved compliance:	03/09/1989
Evaluation lead agency:	EPA
Evaluation date:	09/25/1986
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General
Date achieved compliance:	07/04/1994
Evaluation lead agency:	State
Evaluation date:	09/25/1986
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Manifest/Records/Reporting

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

Date achieved compliance: 03/09/1989  
Evaluation lead agency: EPA

Evaluation date: 09/25/1986  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 03/09/1989  
Evaluation lead agency: EPA

Evaluation date: 09/25/1986  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Closure/Post-Closure  
Date achieved compliance: 03/09/1989  
Evaluation lead agency: EPA

Evaluation date: 09/25/1986  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Closure/Post-Closure  
Date achieved compliance: 07/04/1994  
Evaluation lead agency: State

Evaluation date: 05/25/1984  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 10/26/1983  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: TSD - General  
Date achieved compliance: 05/22/1984  
Evaluation lead agency: State

**FINDS:**

Registry ID: 110006894780

**Environmental Interest/Information System**

Washington Facility / Site Identification System (WA-FSIS) provides a means to query and display data maintained by the Washington Department of Ecology. This system contains key information for each facility/site that is currently, or has been, of interest to the Air Quality, Dam Safety, Hazardous Waste, Toxics Cleanup, and Water Quality Programs.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

US Facility Response Plan (FRP) contains plans for responding, to the maximum extent practical, to worst case discharges of oil.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

**ALLSITES:**

Facility Id:	2833249
Latitude:	47.56096999999999
Longitude:	-122.54604
Geographic location identifier (alias facid):	2833249
Facility Name:	FISC Puget Sound Fuel Dept
Latitude Decimal Degrees:	47.56096999999999
Longitude Decimal Degrees:	-122.54604
Coordinate Point Areal Extent Code:	99
Horizontal Accuracy Code:	99
Coordinate Point Geographic Position Code:	99
Location Verified Code:	N
Geographic Location Identifier (Alias Facid):	2833249
Interaction (Aka Env Int) Type Code:	HWOTHER
Interaction (Aka Env Int) Description:	Haz Waste Management Activity
Interaction Status:	I
Federal Program Identifier:	WA2170023426
Interaction Start Date:	12/31/2006
Interaction End Date:	2/25/2008
Geographic Location Identifier (Alias Facid):	2833249
Interaction (Aka Env Int) Type Code:	HWG
Interaction (Aka Env Int) Description:	Hazardous Waste Generator
Interaction Status:	I
Federal Program Identifier:	WA2170023426
Interaction Start Date:	8/15/1980
Interaction End Date:	12/31/2006
Geographic Location Identifier (Alias Facid):	2833249
Interaction (Aka Env Int) Type Code:	HWP
Interaction (Aka Env Int) Description:	Hazardous Waste Planner
Interaction Status:	I
Federal Program Identifier:	WA2170023426
Interaction Start Date:	1/1/1998
Interaction End Date:	9/27/2005
Geographic Location Identifier (Alias Facid):	2833249

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

Interaction (Aka Env Int) Type Code: HWOTHER  
Interaction (Aka Env Int) Description: Haz Waste Management Activity  
Interaction Status: A  
Federal Program Identifier: WA2170023426  
Interaction Start Date: 12/31/2008  
Interaction End Date: Not reported

Geographic Location Identifier (Alias Facid): 2833249  
Interaction (Aka Env Int) Type Code: HWG  
Interaction (Aka Env Int) Description: Hazardous Waste Generator  
Interaction Status: I  
Federal Program Identifier: WA2170023426  
Interaction Start Date: 2/25/2008  
Interaction End Date: 12/31/2008

**WA MANIFEST:**

Facility Site ID Number: 2833249  
SWC Desc: WT02  
FWC Desc: D001, F003, F005  
Form Comm: Not reported  
Data Year: Not reported  
Permit by Rule: False  
Treatment by Generator: False  
Mixed radioactive waste: False  
Importer of hazardous waste: False  
Immediate recycler: False  
Treatment/Storage/Disposal/Recycling Facility: False  
Generator of dangerous fuel waste: False  
Generator marketing to burner: False  
"Other marketers (i.e., blender, distributor, etc.)": False  
Utility boiler burner: False  
Industry boiler burner: False  
Industrial Furnace: False  
Smelter defferal: False  
Universal waste - batteries - generate: False  
Universal waste - thermostats - generate: False  
Universal waste - mercury - generate: False  
Universal waste - lamps - generate: False  
Universal waste - batteries - accumulate: False  
Universal waste - thermostats - accumulate: False  
Universal waste - mercury - accumulate: False  
Universal waste - lamps - accumulate: False  
Destination Facility for Universal Waste: False  
Off-specification used oil burner - utility boiler: False  
Off-specification used oil burner - industrial boiler: False  
Off-specification used oil burner - industrial furnace: False  
EPA ID: WA2170023426  
Facility Address 2: Not reported  
TAX REG NBR: NA  
NAICS CD: 42471  
BUSINESS TYPE: Federal Fuel Terminal  
MAIL NAME: FISC Puget Sound Fuel Dept  
MAIL ADDR LINE1: PO BOX 8  
MAIL CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
MAIL COUNTRY: UNITED STATES  
LEGAL ORG NAME: Fleet & Indus Supply Center Puget Sound

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

LEGAL ORG TYPE: Federal  
LEGAL ADDR LINE1: 467 W Street  
LEGAL CITY,ST,ZIP: BREMERTON, WA 98314  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: 360 476-9338  
LEGAL EFFECTIVE DATE: 3/5/2001  
LAND ORG NAME: Fleet & Indus Supply Center Puget Sound  
LAND ORG TYPE: Federal  
LAND PERSON NAME: Not reported  
LAND ADDR LINE1: 467 W Street  
LAND CITY,ST,ZIP: BREMERTON, WA 98314  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: 360 476-9338  
OPERATOR ORG NAME: Fleet & Industrial Supply Center PS  
OPERATOR ORG TYPE: Federal  
OPERATOR ADDR LINE1: PO BOX 8  
OPERATOR CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
OPERATOR COUNTRY: UNITED STATES  
OPERATOR PHONE NBR: (360) 476 9338  
OPERATOR EFFECTIVE DATE: 02/12/97  
SITE CONTACT NAME: Glenn E Schmitt  
SITE CONTACT ADDR LINE1: PO BOX 8  
SITE CONTACT ZIP: MANCHESTER, WA 98353-0008  
SITE CONTACT COUNTRY: UNITED STATES  
SITE CONTACT PHONE NBR: 360476-9338  
SITE CONTACT EMAIL: glenn.schmitt@navy.mil  
FORM CONTACT NAME: Glenn E Schmitt  
FORM CONTACT ADDR LINE1: PO BOX 8  
FORM CONTACT CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: 360476-9338  
FORM CONTACT EMAIL: glenn.schmitt@navy.mil  
GEN STATUS CD: SQG  
MONTHLY GENERATION: False  
BATCH GENERATION: True  
ONE TIME GENERATION: False  
TRANSPORTS OWN WASTE: False  
TRANSPORTS OTHRS WASTE: False  
RECYCLER ONSITE: False  
TRANSFER FACILITY: False  
OTHER EXEMPTION: Not reported  
UW BATTERY GEN: False  
USED OIL TRANSPORTER: False  
USED OIL TRANSFER FACLTY: False  
USED OIL PROCESSOR: True  
USED OIL REREFINER: False  
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False  
USED OIL FUEL MRKTR MEETS SPECS: False  
  
Facility Site ID Number: 2833249  
SWC Desc: WP01, WT02,  
FWC Desc: D001, D035, D006, D007, D008,  
Form Comm: Not reported  
Data Year: 2009  
Permit by Rule: False  
Treatment by Generator: False  
Mixed radioactive waste: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

Importer of hazardous waste: False  
Immediate recycler: False  
Treatment/Storage/Disposal/Recycling Facility: False  
Generator of dangerous fuel waste: False  
Generator marketing to burner: False  
"Other marketers (i.e., blender, distributor, etc.)": False  
Utility boiler burner: False  
Industry boiler burner: False  
Industrial Furnace: False  
Smelter defferal: False  
Universal waste - batteries - generate: False  
Universal waste - thermostats - generate: False  
Universal waste - mercury - generate: False  
Universal waste - lamps - generate: True  
Universal waste - batteries - accumulate: True  
Universal waste - thermostats - accumulate: False  
Universal waste - mercury - accumulate: False  
Universal waste - lamps - accumulate: True  
Destination Facility for Universal Waste: False  
Off-specification used oil burner - utility boiler: False  
Off-specification used oil burner - industrial boiler: False  
Off-specification used oil burner - industrial furnace: False  
EPA ID: WA2170023426  
Facility Address 2: Not reported  
TAX REG NBR: NA  
NAICS CD: 424710  
BUSINESS TYPE: Federal Fuel Terminal  
MAIL NAME: FISC Puget Sound Fuel Dept  
MAIL ADDR LINE1: PO BOX 8  
MAIL CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
MAIL COUNTRY: UNITED STATES  
LEGAL ORG NAME: Fleet & Indus Supply Center Puget Sound  
LEGAL ORG TYPE: Federal  
LEGAL ADDR LINE1: 467 W Street  
LEGAL CITY,ST,ZIP: BREMERTON, WA 98314  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: 360 476-9338  
LEGAL EFFECTIVE DATE: 3/5/2001  
LAND ORG NAME: US Navy Naval Bases Kitsap  
LAND ORG TYPE: Federal  
LAND PERSON NAME: Not reported  
LAND ADDR LINE1: 467 W Street  
LAND CITY,ST,ZIP: BREMERTON, WA 98314  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: 360 476-9338  
OPERATOR ORG NAME: Fleet & Industrial Supply Center PS  
OPERATOR ORG TYPE: Federal  
OPERATOR ADDR LINE1: PO BOX 8  
OPERATOR CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
OPERATOR COUNTRY: UNITED STATES  
OPERATOR PHONE NBR: (360) 476 9338  
OPERATOR EFFECTIVE DATE: 2/12/1997  
SITE CONTACT NAME: Glenn E Schmitt  
SITE CONTACT ADDR LINE1: PO BOX 8  
SITE CONTACT ZIP: MANCHESTER, WA 98353-0008  
SITE CONTACT COUNTRY: UNITED STATES  
SITE CONTACT PHONE NBR: 360476-9338

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

SITE CONTACT EMAIL: glenn.schmitt@navy.mil  
FORM CONTACT NAME: Glenn E Schmitt  
FORM CONTACT ADDR LINE1: PO BOX 8  
FORM CONTACT CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: 360476-9338  
FORM CONTACT EMAIL: glenn.schmitt@navy.mil  
GEN STATUS CD: SQG  
MONTHLY GENERATION: False  
BATCH GENERATION: True  
ONE TIME GENERATION: False  
TRANSPORTS OWN WASTE: False  
TRANSPORTS OTHRS WASTE: False  
RECYCLER ONSITE: False  
TRANSFER FACILITY: False  
OTHER EXEMPTION: Not reported  
UW BATTERY GEN: True  
USED OIL TRANSPORTER: False  
USED OIL TRANSFER FACLTY: False  
USED OIL PROCESSOR: False  
USED OIL REREFINER: False  
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False  
USED OIL FUEL MRKTR MEETS SPECS: False

Facility Site ID Number: 2833249  
SWC Desc: WT02  
FWC Desc: D001, F003, F005  
Form Comm: Not reported  
Data Year: Not reported  
Permit by Rule: No  
Treatment by Generator: No  
Mixed radioactive waste: No  
Importer of hazardous waste: No  
Immediate recycler: No  
Treatment/Storage/Disposal/Recycling Facility: No  
Generator of dangerous fuel waste: No  
Generator marketing to burner: No  
"Other marketers (i.e., blender, distributor, etc.)": No  
Utility boiler burner: No  
Industry boiler burner: No  
Industrial Furnace: No  
Smelter defferal: No  
Universal waste - batteries - generate: No  
Universal waste - thermostats - generate: No  
Universal waste - mercury - generate: Yes  
Universal waste - lamps - generate: Yes  
Universal waste - batteries - accumulate: Yes  
Universal waste - thermostats - accumulate: No  
Universal waste - mercury - accumulate: Yes  
Universal waste - lamps - accumulate: Yes  
Destination Facility for Universal Waste: No  
Off-specification used oil burner - utility boiler: No  
Off-specification used oil burner - industrial boiler: No  
Off-specification used oil burner - industrial furnace: No  
EPA ID: WA2170023426  
Facility Address 2: Not reported  
TAX REG NBR: NA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

NAICS CD: 42471  
BUSINESS TYPE: Federal Fuel Terminal  
MAIL NAME: FISC Puget Sound Fuel Dept  
MAIL ADDR LINE1: PO BOX 8  
MAIL CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
MAIL COUNTRY: UNITED STATES  
LEGAL ORG NAME: Fleet & Indus Supply Center Puget Sound  
LEGAL ORG TYPE: Federal  
LEGAL ADDR LINE1: 467 W Street  
LEGAL CITY,ST,ZIP: BREMERTON, WA 98314  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: 360 476 2135  
LEGAL EFFECTIVE DATE: 3/5/2001  
LAND ORG NAME: Fleet & Industrial Supply Center PS  
LAND ORG TYPE: Federal  
LAND PERSON NAME: Not reported  
LAND ADDR LINE1: PO BOX 8  
LAND CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: 360 476 2135  
OPERATOR ORG NAME: Fleet & Industrial Supply Center PS  
OPERATOR ORG TYPE: Federal  
OPERATOR ADDR LINE1: PO BOX 8  
OPERATOR CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
OPERATOR COUNTRY: UNITED STATES  
OPERATOR PHONE NBR: (360) 476 2135x223  
OPERATOR EFFECTIVE DATE: 2/12/1997  
SITE CONTACT NAME: Glenn E Schmitt  
SITE CONTACT ADDR LINE1: PO BOX 8  
SITE CONTACT ZIP: MANCHESTER, WA 98353-0008  
SITE CONTACT COUNTRY: UNITED STATES  
SITE CONTACT PHONE NBR: 360476-2145 223  
SITE CONTACT EMAIL: glenn.schmitt@navy.mil  
FORM CONTACT NAME: Glenn E Schmitt  
FORM CONTACT ADDR LINE1: PO BOX 8  
FORM CONTACT CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: 360476-2145 223  
FORM CONTACT EMAIL: glenn.schmitt@navy.mil  
GEN STATUS CD: SQG  
MONTHLY GENERATION: No  
BATCH GENERATION: Yes  
ONE TIME GENERATION: No  
TRANSPORTS OWN WASTE: No  
TRANSPORTS OTHRS WASTE: No  
RECYCLER ONSITE: No  
TRANSFER FACILITY: No  
OTHER EXEMPTION: Not reported  
UW BATTERY GEN: Yes  
USED OIL TRANSPORTER: No  
USED OIL TRANSFER FACLTY: Yes  
USED OIL PROCESSOR: Yes  
USED OIL REREFINER: No  
USED OIL FUEL MRKTR DIRECTS SHPMNTS: No  
USED OIL FUEL MRKTR MEETS SPECS: No

Facility Site ID Number: 2833249

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

SWC Desc: Not reported  
FWC Desc: Not reported  
Form Comm: Not reported  
Data Year: 2008  
Permit by Rule: False  
Treatment by Generator: False  
Mixed radioactive waste: False  
Importer of hazardous waste: False  
Immediate recycler: False  
Treatment/Storage/Disposal/Recycling Facility: False  
Generator of dangerous fuel waste: False  
Generator marketing to burner: False  
"Other marketers (i.e., blender, distributor, etc.)": False  
Utility boiler burner: False  
Industry boiler burner: False  
Industrial Furnace: False  
Smelter defferal: False  
Universal waste - batteries - generate: False  
Universal waste - thermostats - generate: False  
Universal waste - mercury - generate: False  
Universal waste - lamps - generate: False  
Universal waste - batteries - accumulate: True  
Universal waste - thermostats - accumulate: False  
Universal waste - mercury - accumulate: False  
Universal waste - lamps - accumulate: True  
Destination Facility for Universal Waste: False  
Off-specification used oil burner - utility boiler: False  
Off-specification used oil burner - industrial boiler: False  
Off-specification used oil burner - industrial furnace: False  
EPA ID: WA2170023426  
Facility Address 2: Not reported  
TAX REG NBR: NA  
NAICS CD: 42471  
BUSINESS TYPE: Federal Fuel Terminal  
MAIL NAME: FISC Puget Sound Fuel Dept  
MAIL ADDR LINE1: PO BOX 8  
MAIL CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
MAIL COUNTRY: UNITED STATES  
LEGAL ORG NAME: Fleet & Indus Supply Center Puget Sound  
LEGAL ORG TYPE: Federal  
LEGAL ADDR LINE1: 467 W Street  
LEGAL CITY,ST,ZIP: BREMERTON, WA 98314  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: 360 476-9338  
LEGAL EFFECTIVE DATE: 3/5/2001  
LAND ORG NAME: US Navy Naval Bases Kitsap  
LAND ORG TYPE: Federal  
LAND PERSON NAME: Not reported  
LAND ADDR LINE1: 467 W Street  
LAND CITY,ST,ZIP: BREMERTON, WA 98314  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: 360 476-9338  
OPERATOR ORG NAME: Fleet & Industrial Supply Center PS  
OPERATOR ORG TYPE: Federal  
OPERATOR ADDR LINE1: PO BOX 8  
OPERATOR CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
OPERATOR COUNTRY: UNITED STATES

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

OPERATOR PHONE NBR: (360) 476 9338  
OPERATOR EFFECTIVE DATE: 2/12/1997  
SITE CONTACT NAME: Glenn E Schmitt  
SITE CONTACT ADDR LINE1: PO BOX 8  
SITE CONTACT ZIP: MANCHESTER, WA 98353-0008  
SITE CONTACT COUNTRY: UNITED STATES  
SITE CONTACT PHONE NBR: 360476-9338  
SITE CONTACT EMAIL: glenn.schmitt@navy.mil  
FORM CONTACT NAME: Glenn E Schmitt  
FORM CONTACT ADDR LINE1: PO BOX 8  
FORM CONTACT CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: 360476-9338  
FORM CONTACT EMAIL: glenn.schmitt@navy.mil  
GEN STATUS CD: XQG  
MONTHLY GENERATION: False  
BATCH GENERATION: True  
ONE TIME GENERATION: False  
TRANSPORTS OWN WASTE: False  
TRANSPORTS OTHRS WASTE: False  
RECYCLER ONSITE: False  
TRANSFER FACILITY: False  
OTHER EXEMPTION: Not reported  
UW BATTERY GEN: False  
USED OIL TRANSPORTER: False  
USED OIL TRANSFER FACLTY: False  
USED OIL PROCESSOR: True  
USED OIL REREFINER: False  
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False  
USED OIL FUEL MRKTR MEETS SPECS: False

Facility Site ID Number: 2833249  
SWC Desc: WT02  
FWC Desc: D001, F003, F005  
Form Comm: Not reported  
Data Year: Not reported  
Permit by Rule: FALSE  
Treatment by Generator: FALSE  
Mixed radioactive waste: FALSE  
Importer of hazardous waste: FALSE  
Immediate recycler: FALSE  
Treatment/Storage/Disposal/Recycling Facility: FALSE  
Generator of dangerous fuel waste: FALSE  
Generator marketing to burner: FALSE  
"Other marketers (i.e., blender, distributor, etc.)": FALSE  
Utility boiler burner: FALSE  
Industry boiler burner: FALSE  
Industrial Furnace: FALSE  
Smelter defferal: FALSE  
Universal waste - batteries - generate: FALSE  
Universal waste - thermostats - generate: FALSE  
Universal waste - mercury - generate: FALSE  
Universal waste - lamps - generate: FALSE  
Universal waste - batteries - accumulate: FALSE  
Universal waste - thermostats - accumulate: FALSE  
Universal waste - mercury - accumulate: FALSE  
Universal waste - lamps - accumulate: FALSE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

Destination Facility for Universal Waste: FALSE  
Off-specification used oil burner - utility boiler: FALSE  
Off-specification used oil burner - industrial boiler: FALSE  
Off-specification used oil burner - industrial furnace: FALSE  
EPA ID: WA2170023426  
Facility Address 2: Not reported  
TAX REG NBR: NA  
NAICS CD: 42471  
BUSINESS TYPE: Federal Fuel Terminal  
MAIL NAME: FISC Puget Sound Fuel Dept  
MAIL ADDR LINE1: PO BOX 8  
MAIL CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
MAIL COUNTRY: UNITED STATES  
LEGAL ORG NAME: Fleet & Indus Supply Center Puget Sound  
LEGAL ORG TYPE: Federal  
LEGAL ADDR LINE1: 467 W Street  
LEGAL CITY,ST,ZIP: BREMERTON, WA 98314  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: 360 476-9338  
LEGAL EFFECTIVE DATE: 3/5/2001  
LAND ORG NAME: Fleet & Indus Supply Center Puget Sound  
LAND ORG TYPE: Federal  
LAND PERSON NAME: Not reported  
LAND ADDR LINE1: 467 W Street  
LAND CITY,ST,ZIP: BREMERTON, WA 98314  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: 360 476-9338  
OPERATOR ORG NAME: Fleet & Industrial Supply Center PS  
OPERATOR ORG TYPE: Federal  
OPERATOR ADDR LINE1: PO BOX 8  
OPERATOR CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
OPERATOR COUNTRY: UNITED STATES  
OPERATOR PHONE NBR: (360) 476 9338  
OPERATOR EFFECTIVE DATE: 2/12/1997  
SITE CONTACT NAME: Glenn E Schmitt  
SITE CONTACT ADDR LINE1: PO BOX 8  
SITE CONTACT ZIP: MANCHESTER, WA 98353-0008  
SITE CONTACT COUNTRY: UNITED STATES  
SITE CONTACT PHONE NBR: 360476-9338  
SITE CONTACT EMAIL: glenn.schmitt@navy.mil  
FORM CONTACT NAME: Glenn E Schmitt  
FORM CONTACT ADDR LINE1: PO BOX 8  
FORM CONTACT CITY,ST,ZIP: MANCHESTER, WA 98353-0008  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: 360476-9338  
FORM CONTACT EMAIL: glenn.schmitt@navy.mil  
GEN STATUS CD: XQG  
MONTHLY GENERATION: FALSE  
BATCH GENERATION: TRUE  
ONE TIME GENERATION: FALSE  
TRANSPORTS OWN WASTE: FALSE  
TRANSPORTS OTHRS WASTE: FALSE  
RECYCLER ONSITE: FALSE  
TRANSFER FACILITY: FALSE  
OTHER EXEMPTION: Not reported  
UW BATTERY GEN: FALSE  
USED OIL TRANSPORTER: FALSE

Map ID  
Direction  
Distance  
Elevation

Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**FISC PUGET SOUND FUEL DEPT (Continued)**

**1000160357**

USED OIL TRANSFER FACLTY: FALSE  
USED OIL PROCESSOR: FALSE  
USED OIL REREFINER: FALSE  
USED OIL FUEL MRKTR DIRECTS SHPMNTS: FALSE  
USED OIL FUEL MRKTR MEETS SPECS: FALSE

[Click this hyperlink](#) while viewing on your computer to access additional WA MANIFEST: detail in the EDR Site Report.

**SPILLS:**

Facility ID: 539952  
Medium: Not reported  
Material Desc: PETROLEUM - DIESEL FUEL  
Material Qty: 1  
Material Units: PINT  
Date Received: 3/27/2004  
Contact Name: Not reported

8  
NNE  
1/2-1  
0.609 mi.  
3214 ft.

**MANCHESTER AAA SITE**

**FUDS 1010309803**  
N/A

Relative:  
Lower  
Actual:  
10 ft.

FUDS:  
Federal Facility ID: WA9799F3380  
FUDS #: F10WA0420  
INST ID: 60105  
Facility Name: MANCHESTER AAA SITE  
City: Manchester  
State: WA  
EPA Region: 10  
County: KITSAP  
Congressional District: 06  
US Army District: Kansas City District (NWK)  
Fiscal Year: 2008  
Telephone: 816-983-3486  
NPL Status: Not Listed  
RAB: Not reported  
CTC: Not reported  
Current Owner: STATE

**FUDS Description Details:**

Located 10 miles northeast of Port Orchard, Kitsap County, Washington

**FUDS History Details:**

A small portion of the Navy Supply Depot, Fuel Division, Manchester, WA, also called the Manchester Annex, estimated to total approximately 20 acres, was evidently transferred to the Army in 1951 or 1952. Records detailing the transfer could not be located.

**FUDS Current Program Details:**

**FUDS Future Program Details:**

## ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MANCHESTER	S110040891	KANSAS STREET RIGHT OF WAY OPENING	INTERSECTION NEVADA ST / BEA	98366	ALLSITES
MANCHESTER	S110039158	INDIANA STREET RIGHT OF WAY	1000 FT S OF NEVADA AVE / BE	98366	ALLSITES
PORT ORCHARD	1007072869		1950 HWY 161 SE	98366	FINDS, ALLSITES, UST
PORT ORCHARD	1007066083		8900 HWY 3 SW	98366	FINDS, ALLSITES
PORT ORCHARD	S108674413	NOAA	7501 BACH DR		SPILLS
PORT ORCHARD	U001122820	COUNTRY JUNCTION STORE	5310 SE HWY 160	98366	UST
PORT ORCHARD	1007066016		4143 SE HWY 160	98366	FINDS, ALLSITES
PORT ORCHARD	S103511209	WILKINS DISTRIBUTING CO.	134 SW HWY 150	98366	ICR
PORT ORCHARD	S105454213	BOWMAN HEATING OIL	MILE MARKER 22 & HWY 16	98366	ICR
PORT ORCHARD	S110037766	TREMONT MEDICAL OFFICE COMPLEX	TREMONT ST SW & HWY 16	98366	ALLSITES
PORT ORCHARD	1000179485		WOODS ROAD OF HWY N	98366	RCRA-NonGen, FINDS, 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: 03/31/2010	Source: EPA
Date Data Arrived at EDR: 04/02/2010	Telephone: N/A
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/07/2010
Number of Days to Update: 10	Next Scheduled EDR Contact: 07/26/2010
	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: 03/31/2010	Source: EPA
Date Data Arrived at EDR: 04/02/2010	Telephone: N/A
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/07/2010
Number of Days to Update: 10	Next Scheduled EDR Contact: 07/26/2010
	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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 05/17/2010
Number of Days to Update: 56	Next Scheduled EDR Contact: 08/30/2010
	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: 03/31/2010	Source: EPA
Date Data Arrived at EDR: 04/02/2010	Telephone: N/A
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/07/2010
Number of Days to Update: 10	Next Scheduled EDR Contact: 07/26/2010
	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: 01/29/2010	Source: EPA
Date Data Arrived at EDR: 02/09/2010	Telephone: 703-412-9810
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/07/2010
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/12/2010
	Data Release Frequency: Quarterly

### **FEDERAL FACILITY: Federal Facility Site Information listing**

A listing of NPL and Base Realignment & Closure sites found in the CERCLIS database where FERRO is involved in cleanup projects.

Date of Government Version: 06/23/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: 703-603-8704
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 04/30/2010
Number of Days to Update: 26	Next Scheduled EDR Contact: 07/26/2010
	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: 06/23/2009	Source: EPA
Date Data Arrived at EDR: 09/02/2009	Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 05/07/2010
Number of Days to Update: 19	Next Scheduled EDR Contact: 06/14/2010
	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: 12/11/2009	Source: EPA
Date Data Arrived at EDR: 12/29/2009	Telephone: 800-424-9346
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 05/17/2010
Number of Days to Update: 43	Next Scheduled EDR Contact: 08/30/2010
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***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: 02/17/2010

Source: Environmental Protection Agency

Date Data Arrived at EDR: 02/19/2010

Telephone: (206) 553-1200

Date Made Active in Reports: 05/17/2010

Last EDR Contact: 04/29/2010

Number of Days to Update: 87

Next Scheduled EDR Contact: 07/19/2010

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: 02/17/2010

Source: Environmental Protection Agency

Date Data Arrived at EDR: 02/19/2010

Telephone: (206) 553-1200

Date Made Active in Reports: 05/17/2010

Last EDR Contact: 04/29/2010

Number of Days to Update: 87

Next Scheduled EDR Contact: 07/19/2010

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: 02/17/2010

Source: Environmental Protection Agency

Date Data Arrived at EDR: 02/19/2010

Telephone: (206) 553-1200

Date Made Active in Reports: 05/17/2010

Last EDR Contact: 04/29/2010

Number of Days to Update: 87

Next Scheduled EDR Contact: 07/19/2010

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: 02/17/2010

Source: Environmental Protection Agency

Date Data Arrived at EDR: 02/19/2010

Telephone: (206) 553-1200

Date Made Active in Reports: 05/17/2010

Last EDR Contact: 04/29/2010

Number of Days to Update: 87

Next Scheduled EDR Contact: 07/19/2010

Data Release Frequency: Varies

## ***Federal institutional controls / engineering controls registries***

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/20/2009  
Source: Environmental Protection Agency  
Date Data Arrived at EDR: 01/20/2010  
Telephone: 703-603-0695  
Date Made Active in Reports: 04/12/2010  
Last EDR Contact: 03/15/2010  
Number of Days to Update: 82  
Next Scheduled EDR Contact: 06/28/2010  
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: 12/20/2009  
Date Data Arrived at EDR: 01/20/2010  
Date Made Active in Reports: 04/12/2010  
Number of Days to Update: 82  
Source: Environmental Protection Agency  
Telephone: 703-603-0695  
Last EDR Contact: 03/15/2010  
Next Scheduled EDR Contact: 06/28/2010  
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: 12/31/2009  
Date Data Arrived at EDR: 01/22/2010  
Date Made Active in Reports: 02/11/2010  
Number of Days to Update: 20  
Source: National Response Center, United States Coast Guard  
Telephone: 202-267-2180  
Last EDR Contact: 04/07/2010  
Next Scheduled EDR Contact: 07/19/2010  
Data Release Frequency: Annually

### ***State- and tribal - equivalent NPL***

## HSL: Hazardous Sites List

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

Date of Government Version: 02/17/2010  
Date Data Arrived at EDR: 02/19/2010  
Date Made Active in Reports: 02/24/2010  
Number of Days to Update: 5  
Source: Department of Ecology  
Telephone: 360-407-7200  
Last EDR Contact: 05/18/2010  
Next Scheduled EDR Contact: 08/30/2010  
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: 04/26/2010  
Date Data Arrived at EDR: 04/29/2010  
Date Made Active in Reports: 05/19/2010  
Number of Days to Update: 20  
Source: Department of Ecology  
Telephone: 360-407-7200  
Last EDR Contact: 04/29/2010  
Next Scheduled EDR Contact: 08/09/2010  
Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***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: 12/31/2009  
Date Data Arrived at EDR: 02/04/2010  
Date Made Active in Reports: 03/09/2010  
Number of Days to Update: 33

Source: Department of Ecology  
Telephone: 360-407-6132  
Last EDR Contact: 03/15/2010  
Next Scheduled EDR Contact: 06/28/2010  
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: 04/01/2010  
Date Data Arrived at EDR: 04/01/2010  
Date Made Active in Reports: 05/19/2010  
Number of Days to Update: 48

Source: Department of Ecology  
Telephone: 360-407-7183  
Last EDR Contact: 04/01/2010  
Next Scheduled EDR Contact: 06/07/2010  
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: 02/01/2010  
Date Data Arrived at EDR: 03/03/2010  
Date Made Active in Reports: 04/12/2010  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 415-972-3372  
Last EDR Contact: 05/03/2010  
Next Scheduled EDR Contact: 08/16/2010  
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 03/10/2010  
Date Data Arrived at EDR: 03/16/2010  
Date Made Active in Reports: 04/12/2010  
Number of Days to Update: 27

Source: EPA Region 4  
Telephone: 404-562-8677  
Last EDR Contact: 05/03/2010  
Next Scheduled EDR Contact: 08/16/2010  
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/02/2010  
Date Data Arrived at EDR: 02/03/2010  
Date Made Active in Reports: 02/18/2010  
Number of Days to Update: 15

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 05/03/2010  
Next Scheduled EDR Contact: 08/16/2010  
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: 02/19/2009  
Date Data Arrived at EDR: 02/19/2009  
Date Made Active in Reports: 03/16/2009  
Number of Days to Update: 25

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 05/03/2010  
Next Scheduled EDR Contact: 08/16/2010  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 03/05/2010	Source: EPA Region 6
Date Data Arrived at EDR: 03/05/2010	Telephone: 214-665-6597
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/03/2010
Number of Days to Update: 38	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/24/2009	Source: EPA Region 7
Date Data Arrived at EDR: 05/20/2009	Telephone: 913-551-7003
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 05/04/2010
Number of Days to Update: 28	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Varies

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: 02/25/2010	Source: EPA Region 8
Date Data Arrived at EDR: 02/25/2010	Telephone: 303-312-6271
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/03/2010
Number of Days to Update: 46	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Quarterly

## ***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: 02/24/2010	Source: Department of Ecology
Date Data Arrived at EDR: 02/25/2010	Telephone: 360-407-7183
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 02/25/2010
Number of Days to Update: 46	Next Scheduled EDR Contact: 06/07/2010
	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: 05/27/2009	Source: Department of Ecology
Date Data Arrived at EDR: 05/28/2009	Telephone: 360-407-7562
Date Made Active in Reports: 06/19/2009	Last EDR Contact: 05/10/2010
Number of Days to Update: 22	Next Scheduled EDR Contact: 08/23/2010
	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: 03/10/2010	Source: EPA Region 4
Date Data Arrived at EDR: 03/16/2010	Telephone: 404-562-9424
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/03/2010
Number of Days to Update: 27	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 02/01/2010	Source: EPA Region 9
Date Data Arrived at EDR: 03/03/2010	Telephone: 415-972-3368
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/03/2010
Number of Days to Update: 40	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Quarterly

## 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: 02/25/2010	Source: EPA Region 8
Date Data Arrived at EDR: 02/25/2010	Telephone: 303-312-6137
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/03/2010
Number of Days to Update: 46	Next Scheduled EDR Contact: 08/16/2010
	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: 02/02/2010	Source: EPA Region 10
Date Data Arrived at EDR: 02/03/2010	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 05/03/2010
Number of Days to Update: 15	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Quarterly

## 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: 02/19/2009	Source: EPA, Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/03/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Varies

## 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: 02/11/2010	Source: EPA Region 5
Date Data Arrived at EDR: 02/11/2010	Telephone: 312-886-6136
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/03/2010
Number of Days to Update: 60	Next Scheduled EDR Contact: 08/16/2010
	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: 02/08/2010	Source: EPA Region 6
Date Data Arrived at EDR: 02/09/2010	Telephone: 214-665-7591
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 05/03/2010
Number of Days to Update: 9	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 04/01/2008  
Date Data Arrived at EDR: 12/30/2008  
Date Made Active in Reports: 03/16/2009  
Number of Days to Update: 76

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 05/12/2010  
Next Scheduled EDR Contact: 08/16/2010  
Data Release Frequency: Varies

## 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: 04/19/2010  
Next Scheduled EDR Contact: 08/02/2010  
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: 02/15/2010  
Date Data Arrived at EDR: 02/16/2010  
Date Made Active in Reports: 02/24/2010  
Number of Days to Update: 8

Source: Department of Ecology  
Telephone: 360-407-7170  
Last EDR Contact: 05/18/2010  
Next Scheduled EDR Contact: 08/30/2010  
Data Release Frequency: Varies

## ***State and tribal voluntary cleanup sites***

### 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: 04/02/2008  
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 1  
Telephone: 617-918-1102  
Last EDR Contact: 04/05/2010  
Next Scheduled EDR Contact: 07/19/2010  
Data Release Frequency: Varies

### 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: 04/22/2010  
Date Data Arrived at EDR: 04/30/2010  
Date Made Active in Reports: 05/19/2010  
Number of Days to Update: 19

Source: Department of Ecology  
Telephone: 360-407-7200  
Last EDR Contact: 04/29/2010  
Next Scheduled EDR Contact: 08/09/2010  
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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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

## ***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: 04/26/2010  
Date Data Arrived at EDR: 04/29/2010  
Date Made Active in Reports: 05/19/2010  
Number of Days to Update: 20

Source: Department of Ecology  
Telephone: 360-725-4030  
Last EDR Contact: 04/29/2010  
Next Scheduled EDR Contact: 08/09/2010  
Data Release Frequency: Varies

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

#### US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addressed by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 03/02/2010  
Date Data Arrived at EDR: 03/23/2010  
Date Made Active in Reports: 05/17/2010  
Number of Days to Update: 55

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 03/23/2010  
Next Scheduled EDR Contact: 07/12/2010  
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: 415-972-3336  
Last EDR Contact: 03/22/2010  
Next Scheduled EDR Contact: 06/21/2010  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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

## 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: 03/17/2010  
Next Scheduled EDR Contact: 06/28/2010  
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: 05/10/2010  
Next Scheduled EDR Contact: 08/23/2010  
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: 08/19/2009  
Date Data Arrived at EDR: 12/29/2009  
Date Made Active in Reports: 02/10/2010  
Number of Days to Update: 43

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 12/14/2009  
Next Scheduled EDR Contact: 03/22/2010  
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: 05/12/2010  
Date Data Arrived at EDR: 05/13/2010  
Date Made Active in Reports: 05/19/2010  
Number of Days to Update: 6

Source: Department of Ecology  
Telephone: 360-407-6423  
Last EDR Contact: 05/12/2010  
Next Scheduled EDR Contact: 08/23/2010  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/26/2010  
Date Data Arrived at EDR: 04/29/2010  
Date Made Active in Reports: 05/19/2010  
Number of Days to Update: 20

Source: Department of Ecology  
Telephone: 360-407-7170  
Last EDR Contact: 04/29/2010  
Next Scheduled EDR Contact: 08/09/2010  
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: 05/18/2010  
Next Scheduled EDR Contact: 08/30/2010  
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: 02/05/2010  
Date Data Arrived at EDR: 02/11/2010  
Date Made Active in Reports: 04/12/2010  
Number of Days to Update: 60

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 05/03/2010  
Next Scheduled EDR Contact: 08/16/2010  
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: 03/17/2010  
Next Scheduled EDR Contact: 06/07/2010  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **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: 12/31/2009  
Date Data Arrived at EDR: 01/06/2010  
Date Made Active in Reports: 02/10/2010  
Number of Days to Update: 35

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 04/07/2010  
Next Scheduled EDR Contact: 07/19/2010  
Data Release Frequency: Annually

### **SPILLS: Reported Spills**

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

Date of Government Version: 04/13/2010  
Date Data Arrived at EDR: 04/15/2010  
Date Made Active in Reports: 05/19/2010  
Number of Days to Update: 34

Source: Department of Ecology  
Telephone: 360-407-6950  
Last EDR Contact: 04/13/2010  
Next Scheduled EDR Contact: 06/28/2010  
Data Release Frequency: Semi-Annually

## **Other Ascertainable Records**

### **RCRA-NonGen: 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: 02/17/2010  
Date Data Arrived at EDR: 02/19/2010  
Date Made Active in Reports: 05/17/2010  
Number of Days to Update: 87

Source: Environmental Protection Agency  
Telephone: (206) 553-1200  
Last EDR Contact: 04/29/2010  
Next Scheduled EDR Contact: 07/19/2010  
Data Release Frequency: Varies

### **DOT OPS: Incident and Accident Data**

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

Date of Government Version: 01/12/2010  
Date Data Arrived at EDR: 02/09/2010  
Date Made Active in Reports: 04/12/2010  
Number of Days to Update: 62

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 05/12/2010  
Next Scheduled EDR Contact: 08/23/2010  
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: 703-692-8801  
Last EDR Contact: 04/21/2010  
Next Scheduled EDR Contact: 08/02/2010  
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: 12/31/2008  
Date Data Arrived at EDR: 09/30/2009  
Date Made Active in Reports: 12/01/2009  
Number of Days to Update: 62

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 03/18/2010  
Next Scheduled EDR Contact: 06/28/2010  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 04/11/2010  
Date Data Arrived at EDR: 04/19/2010  
Date Made Active in Reports: 05/17/2010  
Number of Days to Update: 28

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 04/05/2010  
Next Scheduled EDR Contact: 07/19/2010  
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: 03/31/2010  
Date Data Arrived at EDR: 04/02/2010  
Date Made Active in Reports: 05/17/2010  
Number of Days to Update: 45

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 05/07/2010  
Next Scheduled EDR Contact: 06/28/2010  
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: 01/05/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 05/08/2009  
Number of Days to Update: 1

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 01/21/2010  
Next Scheduled EDR Contact: 06/14/2010  
Data Release Frequency: Varies

## 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: 02/12/2010  
Date Data Arrived at EDR: 03/10/2010  
Date Made Active in Reports: 05/17/2010  
Number of Days to Update: 68

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 03/10/2010  
Next Scheduled EDR Contact: 06/21/2010  
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: 12/31/2008  
Date Data Arrived at EDR: 01/13/2010  
Date Made Active in Reports: 02/18/2010  
Number of Days to Update: 36

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 03/02/2010  
Next Scheduled EDR Contact: 06/14/2010  
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: 12/31/2002  
Date Data Arrived at EDR: 04/14/2006  
Date Made Active in Reports: 05/30/2006  
Number of Days to Update: 46

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 04/21/2010  
Next Scheduled EDR Contact: 07/12/2010  
Data Release Frequency: Every 4 Years

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 03/01/2010  
Next Scheduled EDR Contact: 06/14/2010  
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  
Source: EPA  
Date Data Arrived at EDR: 04/16/2009  
Telephone: 202-566-1667  
Date Made Active in Reports: 05/11/2009  
Last EDR Contact: 03/01/2010  
Number of Days to Update: 25  
Next Scheduled EDR Contact: 06/14/2010  
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  
Source: Environmental Protection Agency  
Date Data Arrived at EDR: 03/01/2007  
Telephone: 202-564-2501  
Date Made Active in Reports: 04/10/2007  
Last EDR Contact: 12/17/2008  
Number of Days to Update: 40  
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: 12/31/2008      Source: EPA  
Date Data Arrived at EDR: 01/06/2010      Telephone: 202-564-4203  
Date Made Active in Reports: 02/10/2010      Last EDR Contact: 05/03/2010  
Number of Days to Update: 35      Next Scheduled EDR Contact: 08/16/2010  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 04/24/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/29/2010	Telephone: 202-564-5088
Date Made Active in Reports: 05/17/2010	Last EDR Contact: 03/29/2010
Number of Days to Update: 18	Next Scheduled EDR Contact: 07/12/2010
	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: 09/01/2009	Source: EPA
Date Data Arrived at EDR: 10/21/2009	Telephone: 202-566-0500
Date Made Active in Reports: 12/01/2009	Last EDR Contact: 04/22/2010
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/02/2010
	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: 12/24/2009	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 12/31/2009	Telephone: 301-415-7169
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 03/15/2010
Number of Days to Update: 41	Next Scheduled EDR Contact: 06/28/2010
	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: 04/13/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/14/2010	Telephone: 202-343-9775
Date Made Active in Reports: 05/17/2010	Last EDR Contact: 04/14/2010
Number of Days to Update: 33	Next Scheduled EDR Contact: 07/26/2010
	Data Release Frequency: Quarterly

## 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: 10/19/2009	Source: EPA
Date Data Arrived at EDR: 10/22/2009	Telephone: (206) 553-1200
Date Made Active in Reports: 12/01/2009	Last EDR Contact: 03/15/2010
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/28/2010
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

## 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: 12/31/2007  
Date Data Arrived at EDR: 02/25/2010  
Date Made Active in Reports: 05/12/2010  
Number of Days to Update: 76

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 02/25/2010  
Next Scheduled EDR Contact: 06/07/2010  
Data Release Frequency: Biennially

## UIC: Underground Injection Wells Listing

A listing of underground injection wells.

Date of Government Version: 02/24/2010  
Date Data Arrived at EDR: 02/25/2010  
Date Made Active in Reports: 03/09/2010  
Number of Days to Update: 12

Source: Department of Ecology  
Telephone: 360-407-6143  
Last EDR Contact: 02/25/2010  
Next Scheduled EDR Contact: 06/07/2010  
Data Release Frequency: Varies

## WA MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 05/13/2010  
Date Made Active in Reports: 05/19/2010  
Number of Days to Update: 6

Source: Department of Ecology  
Telephone: N/A  
Last EDR Contact: 04/22/2010  
Next Scheduled EDR Contact: 08/09/2010  
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: 12/31/2009  
Date Data Arrived at EDR: 05/13/2010  
Date Made Active in Reports: 05/19/2010  
Number of Days to Update: 6

Source: Department of Ecology  
Telephone: 360-407-6732  
Last EDR Contact: 04/22/2010  
Next Scheduled EDR Contact: 08/09/2010  
Data Release Frequency: Varies

## NPDES: Water Quality Permit System Data

A listing of permitted wastewater facilities.

Date of Government Version: 04/19/2010  
Date Data Arrived at EDR: 04/29/2010  
Date Made Active in Reports: 05/19/2010  
Number of Days to Update: 20

Source: Department of Ecology  
Telephone: 360-407-6073  
Last EDR Contact: 04/29/2010  
Next Scheduled EDR Contact: 08/09/2010  
Data Release Frequency: Quarterly

## AIRS (EMI): Washington Emissions Data System

Emissions inventory data.

Date of Government Version: 12/31/2008  
Date Data Arrived at EDR: 01/05/2010  
Date Made Active in Reports: 01/15/2010  
Number of Days to Update: 10

Source: Department of Ecology  
Telephone: 360-407-6040  
Last EDR Contact: 03/29/2010  
Next Scheduled EDR Contact: 07/12/2010  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INACTIVE DRYCLEANERS: Inactive Drycleaners

A listing of inactive drycleaner facility locations.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 05/13/2010  
Date Made Active in Reports: 05/19/2010  
Number of Days to Update: 6

Source: Department of Ecology  
Telephone: 360-407-6732  
Last EDR Contact: 04/22/2010  
Next Scheduled EDR Contact: 08/09/2010  
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: 04/21/2010  
Next Scheduled EDR Contact: 08/02/2010  
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: 02/10/2010  
Date Data Arrived at EDR: 02/11/2010  
Date Made Active in Reports: 04/12/2010  
Number of Days to Update: 60

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 05/10/2010  
Next Scheduled EDR Contact: 08/09/2010  
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: 03/15/2010  
Next Scheduled EDR Contact: 06/28/2010  
Data Release Frequency: Varies

## COAL ASH DOE: Steam-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: 04/21/2010  
Next Scheduled EDR Contact: 08/02/2010  
Data Release Frequency: Varies

## 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: 11/09/2009  
Date Data Arrived at EDR: 12/18/2009  
Date Made Active in Reports: 02/10/2010  
Number of Days to Update: 54

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 03/16/2010  
Next Scheduled EDR Contact: 06/28/2010  
Data Release Frequency: Varies

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2008  
Date Data Arrived at EDR: 02/18/2009  
Date Made Active in Reports: 05/29/2009  
Number of Days to Update: 100

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 05/14/2010  
Next Scheduled EDR Contact: 08/16/2010  
Data Release Frequency: Varies

## 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: 04/21/2010  
Next Scheduled EDR Contact: 08/02/2010  
Data Release Frequency: N/A

## EDR PROPRIETARY RECORDS

### *EDR Proprietary Records*

#### Manufactured Gas Plants: 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 Historical Auto Stations: EDR Proprietary 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.

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 Historical Cleaners: EDR Proprietary 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.

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 10/01/2008  
Date Data Arrived at EDR: 01/30/2009  
Date Made Active in Reports: 03/24/2009  
Number of Days to Update: 53

Source: Snohomish Health District  
Telephone: 206-339-5250  
Last EDR Contact: 03/30/2010  
Next Scheduled EDR Contact: 07/12/2010  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/31/2007  
Date Data Arrived at EDR: 08/26/2009  
Date Made Active in Reports: 09/11/2009  
Number of Days to Update: 16

Source: Department of Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 03/02/2010  
Next Scheduled EDR Contact: 06/07/2010  
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: 01/04/2010  
Date Data Arrived at EDR: 02/11/2010  
Date Made Active in Reports: 03/17/2010  
Number of Days to Update: 34

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 05/13/2010  
Next Scheduled EDR Contact: 08/23/2010  
Data Release Frequency: Annually

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008  
Date Data Arrived at EDR: 12/01/2009  
Date Made Active in Reports: 12/14/2009  
Number of Days to Update: 13

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 02/23/2010  
Next Scheduled EDR Contact: 06/07/2010  
Data Release Frequency: Annually

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008  
Date Data Arrived at EDR: 07/17/2009  
Date Made Active in Reports: 08/10/2009  
Number of Days to Update: 24

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 03/22/2010  
Next Scheduled EDR Contact: 07/05/2010  
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: PennWell Corporation  
Telephone: (800) 823-6277

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# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**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 & 2009 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.

## STREET AND ADDRESS INFORMATION

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## GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

NOAA NWFSC  
7305 BEACH DRIVE EAST  
PORT ORCHARD, WA 98366

### TARGET PROPERTY COORDINATES

Latitude (North):	47.57010 - 47° 34' 12.4"
Longitude (West):	122.5541 - 122° 33' 14.8"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	533538.6
UTM Y (Meters):	5268398.0
Elevation:	20 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	47122-E5 BREMERTON EAST, WA
Most Recent Revision:	1981

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 principle 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).

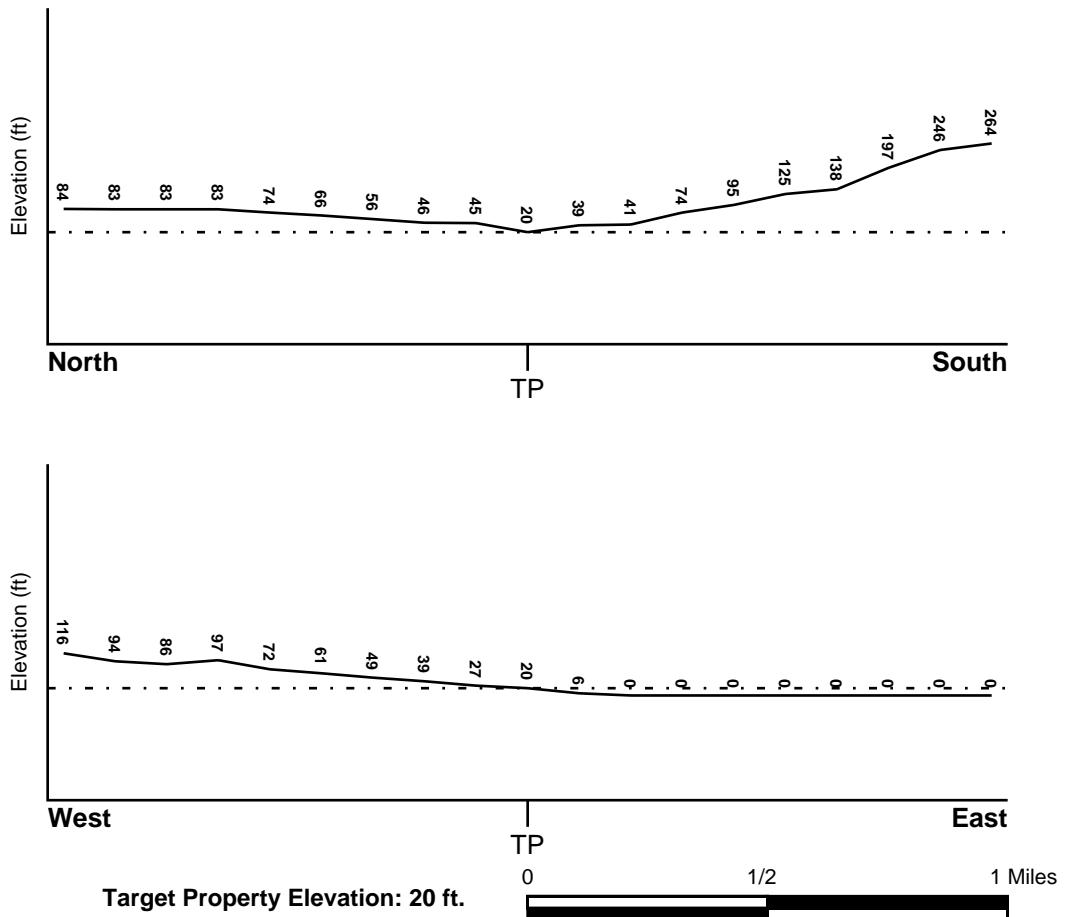
### TOPOGRAPHIC INFORMATION

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 East

#### **SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**



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**

<u>Target Property County</u> KITSAP, WA	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
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Flood Plain Panel at Target Property: 53035C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

### **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u> BREMERTON EAST	<u>NWI Electronic Data Coverage</u> YES - refer to the Overview Map and Detail Map
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### 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.

<u>MAP ID</u> Not Reported	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
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## 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: Stratified 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).

### **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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: HARSTINE

Soil Surface Texture: gravelly - sandy 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. Soils have a layer of low hydraulic conductivity, wet state high in the profile. Depth to water table is 3 to 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information								
	Boundary			Classification				
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)	
1	0 inches	5 inches	gravelly - sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 4.50	
2	5 inches	31 inches	gravelly - sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 4.50	
3	31 inches	35 inches	cemented	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00	

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: very gravelly - sandy loam  
loamy sand  
loam  
fine sandy loam  
gravelly - loamy sand

Surficial Soil Types: very gravelly - sandy loam  
loamy sand  
loam  
fine sandy loam  
gravelly - loamy sand

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: very gravelly - sand  
sand  
loamy sand

### 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.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### WELL SEARCH DISTANCE INFORMATION

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

### **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	USGS3277279	0 - 1/8 Mile South
B4	USGS3277302	0 - 1/8 Mile ENE
C13	USGS3277298	1/8 - 1/4 Mile West
F15	USGS3277303	1/8 - 1/4 Mile WNW
E17	USGS3277307	1/8 - 1/4 Mile WNW
F20	USGS3277280	1/8 - 1/4 Mile WSW
25	USGS3277316	1/8 - 1/4 Mile NW
F27	USGS3277293	1/8 - 1/4 Mile West
H30	USGS3277272	1/4 - 1/2 Mile WSW
G31	USGS3277262	1/4 - 1/2 Mile WSW
32	USGS3277247	1/4 - 1/2 Mile SW
H33	USGS3277281	1/4 - 1/2 Mile WSW
H36	USGS3277288	1/4 - 1/2 Mile West
J40	USGS3277273	1/4 - 1/2 Mile WSW
K45	USGS3277313	1/4 - 1/2 Mile WNW
M46	USGS3277308	1/2 - 1 Mile West
L48	USGS3277289	1/2 - 1 Mile West
54	USGS3277304	1/2 - 1 Mile West
P57	USGS3277355	1/2 - 1 Mile NW
N60	USGS3277322	1/2 - 1 Mile WNW
S63	USGS3277387	1/2 - 1 Mile NNW
R64	USGS3277193	1/2 - 1 Mile SSW
T67	USGS3277179	1/2 - 1 Mile South
U74	USGS3277180	1/2 - 1 Mile SSW
X75	USGS3277175	1/2 - 1 Mile SSE
79	USGS3277167	1/2 - 1 Mile South
W80	USGS3277376	1/2 - 1 Mile NW
X83	USGS3277169	1/2 - 1 Mile SSE
Z87	USGS3277225	1/2 - 1 Mile SE
AA98	USGS3277197	1/2 - 1 Mile SW
AC101	USGS3277146	1/2 - 1 Mile SSW
AE103	USGS3277221	1/2 - 1 Mile SE
AG105	USGS3277309	1/2 - 1 Mile West
AF108	USGS3277428	1/2 - 1 Mile NNW
AJ115	USGS3277437	1/2 - 1 Mile NNE
AJ123	USGS3277446	1/2 - 1 Mile NNE
125	USGS3277331	1/2 - 1 Mile WNW
AL130	USGS3277140	1/2 - 1 Mile SSW
AH131	USGS3277349	1/2 - 1 Mile WNW
AN134	USGS3277141	1/2 - 1 Mile SSW
AH137	USGS3277356	1/2 - 1 Mile WNW

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AO138	USGS3277135	1/2 - 1 Mile South
AK139	USGS3277359	1/2 - 1 Mile WNW
AJ142	USGS3277456	1/2 - 1 Mile NNE
143	USGS3277345	1/2 - 1 Mile WNW

### 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
A1	WAK100000003501	0 - 1/8 Mile SE
A3	WAK100000003499	0 - 1/8 Mile SE
A5	WAK100000003483	0 - 1/8 Mile SE
C6	WAK100000003517	0 - 1/8 Mile West
D7	WAK100000003542	1/8 - 1/4 Mile NE
D8	WAK100000003541	1/8 - 1/4 Mile NE
B9	WAK100000003524	1/8 - 1/4 Mile ENE
C10	WAK100000003523	1/8 - 1/4 Mile WNW
C11	WAK100000003498	1/8 - 1/4 Mile WSW
E12	WAK100000003540	1/8 - 1/4 Mile NW
F14	WAK100000003511	1/8 - 1/4 Mile West
E16	WAK100000003553	1/8 - 1/4 Mile NW
F18	WAK100000003489	1/8 - 1/4 Mile WSW
G19	WAK100000003477	1/8 - 1/4 Mile WSW
F21	WA6000000013377	1/8 - 1/4 Mile WSW
F22	WA6000000013378	1/8 - 1/4 Mile WSW
G23	WAK100000003465	1/8 - 1/4 Mile SW
F24	WAK100000003497	1/8 - 1/4 Mile WSW
F26	WAK100000003500	1/8 - 1/4 Mile West
H28	WAK100000003506	1/4 - 1/2 Mile West
29	WAK100000003557	1/4 - 1/2 Mile NE
I34	WAK100000003569	1/4 - 1/2 Mile North
I35	WAK100000003570	1/4 - 1/2 Mile North
J37	WAK100000003488	1/4 - 1/2 Mile West
38	WAK100000003447	1/4 - 1/2 Mile SSW
J39	WAK100000003476	1/4 - 1/2 Mile WSW
41	WAK100000003472	1/4 - 1/2 Mile WSW
K42	WAK100000003549	1/4 - 1/2 Mile WNW
K43	WAK100000003539	1/4 - 1/2 Mile WNW
L44	WAK100000003505	1/4 - 1/2 Mile West
M47	WAK100000003531	1/2 - 1 Mile West
49	WA6000000013332	1/2 - 1 Mile SW
50	WAK100000003451	1/2 - 1 Mile WSW

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

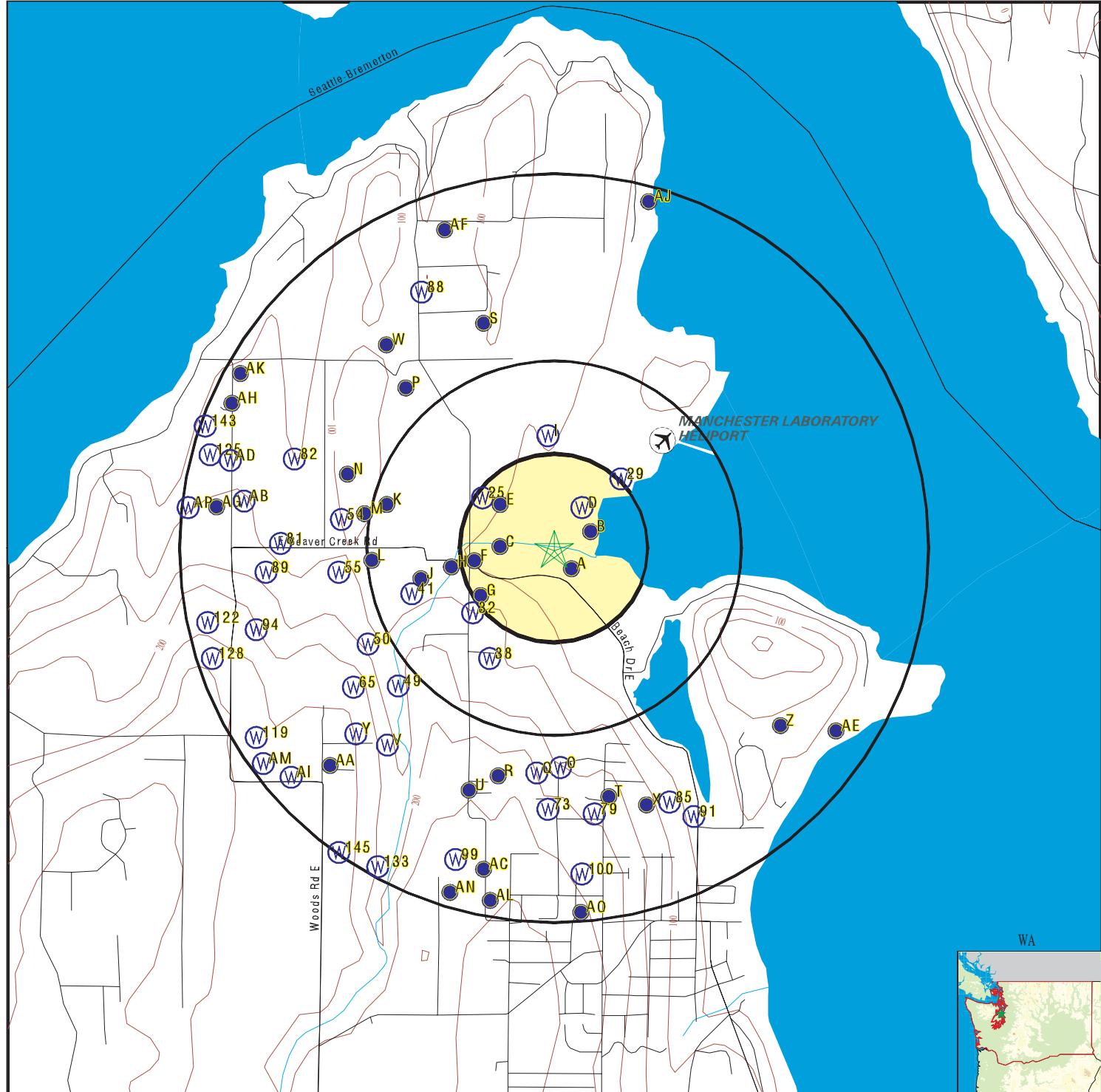
MAP ID	WELL ID	LOCATION FROM TP
N51	WAK1000000003562	1/2 - 1 Mile WNW
O52	WAK1000000003398	1/2 - 1 Mile South
P53	WAK1000000003587	1/2 - 1 Mile NW
55	WAK1000000003487	1/2 - 1 Mile West
Q56	WA6000000013287	1/2 - 1 Mile South
Q58	WA6000000013285	1/2 - 1 Mile South
O59	WAK1000000003376	1/2 - 1 Mile South
R61	WAK1000000003378	1/2 - 1 Mile SSW
S62	WAK1000000003610	1/2 - 1 Mile NNW
65	WAK1000000003438	1/2 - 1 Mile SW
T66	WAK1000000003368	1/2 - 1 Mile SSE
U68	WAK1000000003367	1/2 - 1 Mile SSW
V69	WA6000000013292	1/2 - 1 Mile SW
V70	WAK1000000003405	1/2 - 1 Mile SW
W71	WAK1000000003601	1/2 - 1 Mile NW
V72	WAK1000000003400	1/2 - 1 Mile SW
73	WAK1000000003351	1/2 - 1 Mile South
Y76	WAK1000000003421	1/2 - 1 Mile SW
T77	WAK1000000003352	1/2 - 1 Mile SSE
X78	WAK1000000003363	1/2 - 1 Mile SSE
81	WAK1000000003516	1/2 - 1 Mile West
82	WA6000000013406	1/2 - 1 Mile WNW
Y84	WAK1000000003402	1/2 - 1 Mile SW
85	WAK1000000003357	1/2 - 1 Mile SSE
X86	WAK1000000003344	1/2 - 1 Mile SSE
88	WAK1000000003621	1/2 - 1 Mile NNW
89	WAK1000000003486	1/2 - 1 Mile West
Z90	WAK1000000003422	1/2 - 1 Mile SE
91	WAK1000000003347	1/2 - 1 Mile SSE
AA92	WAK1000000003397	1/2 - 1 Mile SW
AA93	WAK1000000003389	1/2 - 1 Mile SW
94	WAK1000000003457	1/2 - 1 Mile WSW
AB95	WAK1000000003551	1/2 - 1 Mile West
AB96	WAK1000000003538	1/2 - 1 Mile West
AC97	WAK1000000003315	1/2 - 1 Mile South
99	WAK1000000003320	1/2 - 1 Mile SSW
100	WAK1000000003310	1/2 - 1 Mile South
AD102	WAK1000000003563	1/2 - 1 Mile WNW
AF104	WAK1000000003648	1/2 - 1 Mile NNW
AE106	WAK1000000003415	1/2 - 1 Mile ESE
AD107	WAK1000000003567	1/2 - 1 Mile WNW
AG109	WAK1000000003532	1/2 - 1 Mile West
AH110	WAK1000000003582	1/2 - 1 Mile WNW
A111	WAK1000000003373	1/2 - 1 Mile SW
AG112	WAK1000000003548	1/2 - 1 Mile West
AH113	WAK1000000003586	1/2 - 1 Mile WNW
AI114	WA6000000013284	1/2 - 1 Mile SW
AK116	WAK1000000003588	1/2 - 1 Mile WNW
AH117	WAK1000000003576	1/2 - 1 Mile WNW
AL118	WAK1000000003302	1/2 - 1 Mile South
119	WAK1000000003411	1/2 - 1 Mile WSW
AM120	WAK1000000003396	1/2 - 1 Mile SW

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AI121	WA6000000013286	1/2 - 1 Mile SW
122	WAK100000003460	1/2 - 1 Mile WSW
AL124	WAK100000003301	1/2 - 1 Mile SSW
AN126	WAK100000003306	1/2 - 1 Mile SSW
AN127	WAK100000003307	1/2 - 1 Mile SSW
128	WAK100000003446	1/2 - 1 Mile WSW
AJ129	WAK100000003659	1/2 - 1 Mile NNE
AO132	WAK100000003295	1/2 - 1 Mile South
133	WAK100000003314	1/2 - 1 Mile SSW
AJ135	WAK100000003665	1/2 - 1 Mile NNE
AL136	WAK100000003294	1/2 - 1 Mile South
AP140	WAK100000003537	1/2 - 1 Mile West
AP141	WAK100000003536	1/2 - 1 Mile West
AM144	WAK100000003379	1/2 - 1 Mile SW
145	WAK100000003325	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 2775831.1s



County Boundary

Major Roads

Contour Lines

Airports

Earthquake epicenter, Richter 5 or greater

Water Wells

Public Water Supply Wells

Cluster of Multiple Icons

0 1/4 1/2

Groundwater Flow Direction

Indeterminate Groundwater Flow at Location

Groundwater Flow Varies at Location

Closest Hydrogeological Data

SITE NAME: NOAA NWFSC  
ADDRESS: 7305 Beach Drive East  
Port Orchard WA 98366  
LAT/LONG: 47.5701 / 122.5541

CLIENT: Hoefer Consulting Group  
CONTACT: Phil Barnes  
INQUIRY #: 2775831.1s  
DATE: May 21, 2010 3:53 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
A1 SE 0 - 1/8 Mile Lower	WA WELLS	WAK100000003501
Well id: 1414 Doe site id: AAB466 Usgs site id: 473410122330901 Internal project no: Not Reported Local name: US NAVY MANCHESTER FUEL DEPOT USN-3 Local number: 24N/02E-16K02 Water right permit no: Not Reported Parcel id: Not Reported Township: 24 Range: 2 Meridian: E Section: 16 Quarter quarter1: NW Quarter quarter2: SE Elevation: 25.94999999999999 Well address: Not Reported Well city: Not Reported Well state: Not Reported Well zip: Not Reported Date entered: 6/9/1988 0:00:00 Owner first: Not Reported Owner last: USNAVY Owner address1: Not Reported Owner address2: Not Reported Owner city: Not Reported Owner state: Not Reported Owner zip: Not Reported WI date: 3/2/1967 0:00:00 Status: Not Reported	Water level: 6	
Well Log Information:		
Well log id: 1414 Startcard: Not Reported Proposed use: Not Reported Type of work: Not Reported Diameter of well: Not Reported Well depth completed: 136 Pumpman: Not Reported Pump modelno: Not Reported Pump intake: 0 End construction: Not Reported Fieldchecked by kpud: 0 chem anal: 0 Art flow: 0 Artpress: Not Reported Art elevation: Not Reported Bailer airtest yn: 0 screens yn: 0 Surface seal yn: 0 Survey date: Not Reported	Well id: 1414 Waterright permitno: Not Reported Proposed type: Not Reported Drilling method: Not Reported Well depth drilled: 136 Elevation: Not Reported Pumptype: Not Reported Pump horsepower: Not Reported Start construction: 01/01/1948 Date entered: 06/09/1988 Water temp: 0 Artpress date: Not Reported Artflow date: Not Reported Artcontrol: Not Reported By whom: Not Reported perf yn: 1 Gravel packyn: 0 Well test yn: 0	

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Geologic Information:

Well id:	1414	Geolog id:	56592
Geolog from:	0	Geolog to:	10
Material:	SOIL		
Date entered:	02/20/1997		
Well id:	1414	Geolog id:	56593
Geolog from:	10	Geolog to:	20
Material:	SAND		
Date entered:	02/20/1997		
Well id:	1414	Geolog id:	56594
Geolog from:	20	Geolog to:	50
Material:	SAND AND GRAVEL, WATER BEARING		
Date entered:	02/20/1997		
Well id:	1414	Geolog id:	56595
Geolog from:	50	Geolog to:	60
Material:	GRAVEL, COARSE		
Date entered:	02/20/1997		
Well id:	1414	Geolog id:	56596
Geolog from:	60	Geolog to:	130
Material:	GRAVEL		
Date entered:	02/20/1997		
Well id:	1414	Geolog id:	56597
Geolog from:	130	Geolog to:	136
Material:	GRAVEL AND CLAY, HARD		
Date entered:	02/20/1997		

### Casing Information:

Well id:	1414	Casing id:	1205
Casing from:	0	Casing to:	136
Casing diameter:	18	Casing thickness:	0
Casing type:	Not Reported	Date entered:	06/09/1988

### Perforation Information:

Well id:	1414	Perf id:	27
Perf from:	64	Perf to:	135
Perf type:	Not Reported	Perf width:	Not Reported
Perf length:	Not Reported	Date entered:	06/09/1988

### Well test Recovery Information:

Wellid:	1414	Date of test:	03/02/1967
Testtype:	1	Time:	12
Waterlevel:	0		

### Well Test Yield Information:

Wellid:	1414	Date of test:	03/02/1967
Test type:	1	Time:	12
Yield:	727	Drawdown:	53.5
Date entered:	06/09/1988		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	473410122330901
Site name:	24N/02E-16K01		
Latitude:	473410	EDR Site id:	USGS3277279
Longitude:	1223310	Dec lat:	47.56926333
Dec lon:	-122.55402338	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NW SE S16 T24N R02E W
Location map:	BREMERTON EAST	Map scale:	24000
Altitude:	20		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Stream channel		
Site type:	Ground-water other than Spring	Date construction:	19440101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	136	Hole depth:	Not Reported
Source of depth data:	other reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1948-09-20
Water quality data end date:	1978-07-25	Water quality data count:	8
Ground water data begin date:	1967-02-15	Ground water data end date:	1967-02-15
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
1967-02-15	6	

A3  
SE  
0 - 1/8 Mile  
Lower

WA WELLS WAK100000003499

Well id:	5192
Doe site id:	AAB460
Usgs site id:	473313122330801
Internal project no:	Not Reported
Local name:	US NAVY MANCHESTER FUEL DEPOT USN-5
Local number:	24N/02E-16K03
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	16
Quarter quarter1:	NW
Quarter quarter2:	SE

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elevation: 22.91  
 Well address: Not Reported  
 Well city: Not Reported  
 Well state: Not Reported  
 Well zip: Not Reported  
 Date entered: 2/22/1994 0:00:00  
 Owner first: Not Reported  
 Owner last: US NAVY  
 Owner address1: Not Reported  
 Owner address2: Not Reported  
 Owner city: MANCHESTER  
 Owner state: WA  
 Owner zip: Not Reported  
 WI date: 12/16/1988 0:00:00 Water level: 15.85  
 Status: Not Reported

### Well Log Information:

Well log id:	5176	Well id:	5192
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	Cable
Diameter of well:	16	Well depth drilled:	130
Well depth completed:	130	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	11/18/1988
End construction:	12/22/1988	Date entered:	02/22/1994
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	1
Survey date:	Not Reported		

### Geologic Information:

Well id:	5192	Geolog id:	56585
Geolog from:	0	Geolog to:	19
Material:	BROWN SILTY SAND GRAVEL AND COBBLES		
Date entered:	02/20/1997		
Well id:	5192	Geolog id:	56586
Geolog from:	19	Geolog to:	22
Material:	SAND GRAVEL COBBLES LITTLE WATER		
Date entered:	02/20/1997		
Well id:	5192	Geolog id:	56587
Geolog from:	22	Geolog to:	40
Material:	GRAY SILTY GRAVEL OPEN HOLE		
Date entered:	02/20/1997		
Well id:	5192	Geolog id:	56588
Geolog from:	40	Geolog to:	59
Material:	SANDS GRAY SILTY SAND - OPEN HOLE SOME GRAVEL		
Date entered:	02/20/1997		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id: 5192 Geolog id: 56589  
 Geolog from: 59 Geolog to: 126  
 Material: SAND, GRAVEL, SILT WATER BEARING  
 Date entered: 02/20/1997

Well id: 5192 Geolog id: 56590  
 Geolog from: 126 Geolog to: 128  
 Material: GRAY HARDPACK SILT  
 Date entered: 02/20/1997

Well id: 5192 Geolog id: 56591  
 Geolog from: 128 Geolog to: 130  
 Material: BEDROCK  
 Date entered: 02/20/1997

**Casing Information:**

Well id: 5192 Casing id: 4693  
 Casing from: -2 Casing to: 102  
 Casing diameter: 16 Casing thickness: 0  
 Casing type: Welded Date entered: 02/22/1994

**Screen Information:**

Well id: 5192 Screen id: 7411  
 Screen from: 80 Screen to: 104.8  
 Screen man: JOHNSON Screen type: SS  
 Model num: Not Reported Screen diam: 14  
 Screen slotsize: .0599999999999999 Date entered: 02/20/1997

**Seal Information:**

Well id: 5192 Seal id: 3961  
 Seal top: 0 Seal bottom: 2.0E+001  
 Seal material: Bentonite Unusable water: Not Reported  
 Water type: Not Reported Strata depth: Not Reported  
 Seal method: Not Reported Date entered: 02/20/1997

**Well Test Yield Information:**

Wellid: 5192 Date of test: 12/19/1988  
 Test type: 1 Time: 4  
 Yield: 360 Drawdown: 78  
 Date entered: 02/20/1997

**B4**  
**ENE**  
**0 - 1/8 Mile**  
**Lower**

**FED USGS** **USGS3277302**

Agency cd:	USGS	Site no:	473415122330501
Site name:	24N/02E-16G01	EDR Site id:	USGS3277302
Latitude:	473415	Dec lat:	47.57065223
Longitude:	1223305	Coor meth:	M
Dec lon:	-122.55263445	Latlong datum:	NAD27
Coor accr:	F	District:	53
Dec latlong datum:	NAD83	County:	035
State:	53	Land net:	SW NE S16 T24N R02E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude: 20  
Altitude method: Interpolated from topographic map  
Altitude accuracy: 20  
Altitude datum: National Geodetic Vertical Datum of 1929  
Hydrologic: Puget Sound. Washington. Area = 2550 sq.mi.  
Topographic: Alluvial or marine terrace  
Site type: Ground-water other than Spring Date construction: 19730101  
Date inventoried: Not Reported Mean greenwich time offset: PST  
Local standard time flag: Y  
Type of ground water site: Single well, other than collector or Ranney type  
Aquifer Type: Not Reported  
Aquifer: Not Reported  
Well depth: 90 Hole depth: Not Reported  
Source of depth data: reporting agency (generally USGS)  
Project number: Not Reported  
Real time data flag: 0 Daily flow data begin date: 0000-00-00  
Daily flow data end date: 0000-00-00 Daily flow data count: 0  
Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00  
Peak flow data count: 0 Water quality data begin date: 0000-00-00  
Water quality data end date: 0000-00-00 Water quality data count: 0  
Ground water data begin date: 1973-08-01 Ground water data end date: 1973-08-01  
Ground water data count: 1

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
1973-08-01	17	

A5  
SE  
0 - 1/8 Mile  
Higher

WA WELLS WAK100000003483

Well id: 13931  
Doe site id: AAB467  
Usgs site id: Not Reported  
Internal project no: Not Reported  
Local name: US NAVY MANCHESTER FUEL DEPOT  
Local number: 24N/02E-16K01  
Water right permit no: G1-24296  
Parcel id: Not Reported  
Township: 24  
Range: 2  
Meridian: E  
Section: 16  
Quarter quarter1: NW  
Quarter quarter2: SE  
Elevation: 19.800000000000001  
Well address: Not Reported  
Well city: Not Reported  
Well state: Not Reported  
Well zip: Not Reported  
Date entered: 2/20/1997 12:46:52  
Owner first: Not Reported  
Owner last: US NAVY  
Owner address1: PO BOX 8  
Owner address2: Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Owner city: MANCHESTER  
 Owner state: WA  
 Owner zip: 98353  
 WI date: 12/24/1982 0:00:00  
 Status: Not Reported

Water level: 9.400000000000004

### Well Log Information:

Well log id:	11182	Well id:	13931
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Cable
Diameter of well:	12	Well depth drilled:	182
Well depth completed:	105	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	12/06/1982
End construction:	12/24/1982	Date entered:	02/20/1997
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	1	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	by Driller
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	1
Survey date:	Not Reported		

### Geologic Information:

Well id:	13931	Geolog id:	56616
Geolog from:	0	Geolog to:	5
Material:	BROWN SILTY SAND		
Date entered:	02/20/1997		
Well id:	13931	Geolog id:	56619
Geolog from:	5	Geolog to:	7
Material:	GRAVEL BROWN SILTY SAND GRAVEL GRAY SILTY SAND GRA		
Date entered:	02/20/1997		
Well id:	13931	Geolog id:	56620
Geolog from:	7	Geolog to:	37
Material:	FINE COBBLES		
Date entered:	02/20/1997		
Well id:	13931	Geolog id:	56621
Geolog from:	37	Geolog to:	50
Material:	SILTY SAND AND GRAVEL		
Date entered:	02/20/1997		
Well id:	13931	Geolog id:	56624
Geolog from:	50	Geolog to:	75
Material:	GRAY FINE SILTY SAND		
Date entered:	02/20/1997		
Well id:	13931	Geolog id:	56625
Geolog from:	75	Geolog to:	82
Material:	GRAY TILL		
Date entered:	02/20/1997		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id: 13931 Geolog id: 56626  
 Geolog from: 82 Geolog to: 101  
 Material: GRAY/SAND GRAVEL LAYER OF GRAY/WATER BEARING  
 Date entered: 02/20/1997

Well id: 13931 Geolog id: 56627  
 Geolog from: 101 Geolog to: 116  
 Material: BROWN TILL  
 Date entered: 02/20/1997

Well id: 13931 Geolog id: 56628  
 Geolog from: 116 Geolog to: 136  
 Material: GRAY BROWN SAND AND GRAVEL  
 Date entered: 02/20/1997

Well id: 13931 Geolog id: 56629  
 Geolog from: 136 Geolog to: 154  
 Material: GRAY SAND GRAVEL LOOSE WATER BEARING  
 Date entered: 02/20/1997

Well id: 13931 Geolog id: 56631  
 Geolog from: 154 Geolog to: 182  
 Material: TIGHT SAND-GRAVEL SILT BROWN-WATER DROPPING  
 Date entered: 02/20/1997

**Casing Information:**  
 Well id: 13931 Casing id: 10806  
 Casing from: -2 Casing to: 93  
 Casing diameter: 12 Casing thickness: Not Reported  
 Casing type: Welded Date entered: 02/20/1997

**Screen Information:**  
 Well id: 13931 Screen id: 7414  
 Screen from: 90 Screen to: 100  
 Screen man: JOHNSON Screen type: Not Reported  
 Model num: Not Reported Screen diam: 10  
 Screen slotsize: .02 Date entered: 02/20/1997

**Seal Information:**  
 Well id: 13931 Seal id: 3963  
 Seal top: 0 Seal bottom: 2.0E+001  
 Seal material: Bentonite Unusable water: Not Reported  
 Water type: Not Reported Strata depth: 1.54E+002  
 Seal method: CEMENT Date entered: 02/20/1997

**Well Water Rights Information:**  
 Well id: 13931 Description: Application  
 Wrnumber: G1-24455C Priority date: Not Reported  
 Dblwrqi: 100 Dblwrqa: 69  
 Dblwrqas: Not Reported

**Well Test Yield Information:**  
 Wellid: 13931 Date of test: 12/24/1982  
 Test type: 1 Time: 24  
 Yield: 120 Drawdown: 55  
 Date entered: 02/20/1997

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Water Quality Information:

Sample id: 1268 Well id: 13931  
 Sample id: 12/30/82 sample date: 12/30/1982  
 Treated YN: 0  
 Comments: COLLECTED BY ARMSTRONG DRILLING. WATER MANAGEMENT LAB#8901316

**C6**  
**West**  
**0 - 1/8 Mile**  
**Higher**

WA WELLS WAK100000003517

Well id:	1425
Doe site id:	Not Reported
Usgs site id:	473413122332404
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-16F01
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	16
Quarter quarter1:	SE
Quarter quarter2:	NW
Elevation:	30
Well address:	Not Reported
Well city:	Not Reported
Well state:	Not Reported
Well zip:	Not Reported
Date entered:	2/1/1988 0:00:00
Owner first:	Not Reported
Owner last:	Not Reported
Owner address1:	Not Reported
Owner address2:	Not Reported
Owner city:	Not Reported
Owner state:	Not Reported
Owner zip:	Not Reported
WI date:	Not Reported
Status:	Not Reported
Water level:	2

### Well Log Information:

Well log id:	1425	Well id:	1425
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	6	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	Not Reported
End construction:	Not Reported	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Casing Information:

Well id:	1425	Casing id:	1215
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	30	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

**D7**

**NE**

**1/8 - 1/4 Mile**

**Lower**

**WA WELLS** **WAK100000003542**

Well id:	1434		
Doe site id:	Not Reported		
Usgs site id:	473418122330902		
Internal project no:	Not Reported		
Local name:	NOAA WELL 2		
Local number:	24N/02E-16G03		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	SW		
Quarter quarter2:	NE		
Elevation:	20		
Well address:	GOVT LOT 2		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	6/9/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	US DEPT OF THE INTERIOR, BUREAU OF FISH, WILDLIFE		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	MANCHESTER		
Owner state:	WA		
Owner zip:	Not Reported		
WI date:	8/21/1973 0:00:00	Water level:	17
Status:	Not Reported		

### Well Log Information:

Well log id:	1434	Well id:	1434
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	CABLE
Diameter of well:	12	Well depth drilled:	110
Well depth completed:	90	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	08/02/1973
End construction:	09/04/1973	Date entered:	06/09/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	by Driller
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	1
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Geologic Information:

Well id: 1434 Geolog id: 2318  
 Geolog from: 34 Geolog to: 49  
 Material: SAND, GRAVEL, WATER  
 Date entered: 07/14/1988

Well id: 1434 Geolog id: 2319  
 Geolog from: 49 Geolog to: 60  
 Material: BLUE CLAY  
 Date entered: 07/14/1988

Well id: 1434 Geolog id: 2320  
 Geolog from: 60 Geolog to: 70  
 Material: BLUE CLAY, SILTY  
 Date entered: 07/14/1988

Well id: 1434 Geolog id: 2321  
 Geolog from: 70 Geolog to: 92  
 Material: SAND, GRAVEL, WATER  
 Date entered: 07/14/1988

Well id: 1434 Geolog id: 2322  
 Geolog from: 92 Geolog to: 100  
 Material: SAND, GRAVEL, SILTY CLAY  
 Date entered: 07/14/1988

Well id: 1434 Geolog id: 2323  
 Geolog from: 100 Geolog to: 105  
 Material: SILTY SAND & GRAVEL  
 Date entered: 07/14/1988

Well id: 1434 Geolog id: 56582  
 Geolog from: 0 Geolog to: 34  
 Material: BLUE CLAY  
 Date entered: 02/19/1997

Well id: 1434 Geolog id: 56583  
 Geolog from: 105 Geolog to: 110  
 Material: "BEDROCK SHALE" (PROBABLY NOT-JBN)  
 Date entered: 02/19/1997

### Casing Information:

Well id: 1434 Casing id: 1223  
 Casing from: 0 Casing to: 40  
 Casing diameter: 12 Casing thickness: 0  
 Casing type: Welded Date entered: 06/09/1988

### Screen Information:

Well id: 1434 Screen id: 643  
 Screen from: 40 Screen to: 50  
 Screen man: JOHNSON Screen type: SS  
 Model num: Not Reported Screen diam: 8  
 Screen slotsize: .02 Date entered: Not Reported

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	1434	Screen id:	644
Screen from:	75	Screen to:	90
Screen man:	JOHNSON	Screen type:	SS
Model num:	Not Reported	Screen diam:	8
Screen slotsize:	.016	Date entered:	Not Reported

### Seal Information:

Well id:	1434	Seal id:	3960
Seal top:	0	Seal bottom:	2.0E+001
Seal material:	Bentonite	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	Not Reported
Seal method:	Not Reported	Date entered:	02/19/1997

### Well test Recovery Information:

Wellid:	1434	Date of test:	08/23/1973
Testtype:	1	Time:	4
Waterlevel:	17		

### Well Test Yield Information:

Wellid:	1434	Date of test:	08/23/1973
Test type:	1	Time:	9
Yield:	50	Drawdown:	28
Date entered:	08/27/1998		

D8

NE

1/8 - 1/4 Mile

Lower

WA WELLS WAK100000003541

Well id:	1433
Doe site id:	Not Reported
Usgs site id:	473418122330901
Internal project no:	Not Reported
Local name:	NOAA WELL 1
Local number:	24N/02E-16G02
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	16
Quarter quarter1:	SW
Quarter quarter2:	NE
Elevation:	39
Well address:	Not Reported
Well city:	Not Reported
Well state:	Not Reported
Well zip:	Not Reported
Date entered:	6/9/1988 0:00:00
Owner first:	Not Reported
Owner last:	NOAA WELL 1
Owner address1:	Not Reported
Owner address2:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Owner city:	Not Reported	Water level:	27
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	1/1/1972 0:00:00		
Status:	Not Reported		

### Well Log Information:

Well log id:	1433	Well id:	1433
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	12	Well depth drilled:	151
Well depth completed:	137	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1972
End construction:	01/01/1972	Date entered:	06/09/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	by Driller
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

### Geologic Information:

Well id:	1433	Geolog id:	2310
Geolog from:	0	Geolog to:	4
Material:	HARDPAN & FILL		
Date entered:	07/14/1988		
Well id:	1433	Geolog id:	2311
Geolog from:	4	Geolog to:	60
Material:	GRAY CLAY- HARD & STICKY		
Date entered:	07/14/1988		
Well id:	1433	Geolog id:	2312
Geolog from:	60	Geolog to:	90
Material:	GRAY SILTY CLAY W/ WOOD CHUNKS		
Date entered:	07/14/1988		
Well id:	1433	Geolog id:	2313
Geolog from:	90	Geolog to:	108
Material:	W.B.GRAY SAND, SOME GRAVL&CLAY BALL		
Date entered:	07/14/1988		
Well id:	1433	Geolog id:	2314
Geolog from:	108	Geolog to:	126
Material:	GRAY SILTY CLAY		
Date entered:	07/14/1988		
Well id:	1433	Geolog id:	2315
Geolog from:	126	Geolog to:	129
Material:	GRAY SAND, SOME GRAVEL & CLAY BALLS		
Date entered:	07/14/1988		

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Well id: 1433 Geolog id: 2316  
 Geolog from: 129 Geolog to: 140  
 Material: GRAY CLAY, SAND, STONES-W.B.  
 Date entered: 07/14/1988

Well id: 1433 Geolog id: 56584  
 Geolog from: 140 Geolog to: 151  
 Material: GRAY STICKY CLAY & STONES  
 Date entered: 02/19/1997

### Casing Information:

Well id:	1433	Casing id:	1222
Casing from:	0	Casing to:	151
Casing diameter:	12	Casing thickness:	0
Casing type:	Not Reported	Date entered:	06/09/1988

### Screen Information:

Well id:	1433	Screen id:	640
Screen from:	112	Screen to:	115
Screen man:	Not Reported	Screen type:	WIRE-WOUND
Model num:	Not Reported	Screen diam:	8
Screen slotsize:	Not Reported	Date entered:	Not Reported

Well id:	1433	Screen id:	641
Screen from:	122	Screen to:	137
Screen man:	Not Reported	Screen type:	WIRE-WOUND
Model num:	Not Reported	Screen diam:	8
Screen slotsize:	Not Reported	Date entered:	Not Reported

Well id:	1433	Screen id:	642
Screen from:	90	Screen to:	105
Screen man:	Not Reported	Screen type:	WIRE-WOUND
Model num:	Not Reported	Screen diam:	8
Screen slotsize:	Not Reported	Date entered:	Not Reported

### Well test Recovery Information:

Wellid:	1433	Date of test:	08/01/1972
Testtype:	1	Time:	8
Waterlevel:	0		

### Well Test Yield Information:

Wellid:	1433	Date of test:	08/01/1972
Test type:	1	Time:	8
Yield:	42	Drawdown:	59
Date entered:	06/09/1988		

**B9**  
**ENE**  
**1/8 - 1/4 Mile**  
**Lower**

WA WELLS WAK10000003524

Well id: 1429  
 Doe site id: Not Reported  
 Usgs site id: 473415122330501  
 Internal project no: Not Reported  
 Local name: Not Reported  
 Local number: 24N/02E-16G01  
 Water right permit no: Not Reported  
 Parcel id: Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	SW		
Quarter quarter2:	NE		
Elevation:	20		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	8/1/1973 0:00:00	Water level:	17
Status:	Not Reported		

### Well Log Information:

Well log id:	1429	Well id:	1429
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	Not Reported
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	90	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1973
End construction:	01/01/1973	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

### Casing Information:

Well id:	1429	Casing id:	1218
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	12	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

### Well test Recovery Information:

Wellid:	1429	Date of test:	01/01/1901
Testtype:	1	Time:	9
Waterlevel:	45		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Well Test Yield Information:

Wellid:	1429	Date of test:	01/01/1901
Test type:	1	Time:	9
Yield:	50	Drawdown:	0
Date entered:	02/01/1988		

**C10**  
**WNW**  
**1/8 - 1/4 Mile**  
**Higher**

**WA WELLS** **WAK100000003523**

Well id:	1430		
Doe site id:	Not Reported		
Usgs site id:	473415122332502		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-16F02		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	SE		
Quarter quarter2:	NW		
Elevation:	70		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	2/1/1967 0:00:00	Water level:	25
Status:	Not Reported		

### Well Log Information:

Well log id:	1430	Well id:	1430
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	40	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1930
End construction:	01/01/1930	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Casing Information:

Well id:	1430	Casing id:	1219
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	60	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

**C11**  
**WSW**  
**1/8 - 1/4 Mile**  
**Higher**

**WA WELLS** **WAK100000003498**

Well id:	4427		
Doe site id:	AAA226		
Usgs site id:	Not Reported		
Internal project no:	Not Reported		
Local name:	ANNAPOLIS WD WATAUGA BEACH WELL 1		
Local number:	24N/02E-16L08		
Water right permit no:	Not Reported		
Parcel id:	45810060130001		
Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	NE		
Quarter quarter2:	SW		
Elevation:	59		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/22/1994 0:00:00		
Owner first:	Not Reported		
Owner last:	WATAUGA BEACH COMMUNITY WATER CO		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	PORT ORCHARD		
Owner state:	WA		
Owner zip:	98366		
WI date:	1/7/1954 0:00:00	Water level:	46.5
Status:	Not Reported		

### Well Log Information:

Well log id:	4412	Well id:	4427
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	CABLE
Diameter of well:	8	Well depth drilled:	141
Well depth completed:	141	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	12/01/1953
End construction:	01/07/1954	Date entered:	02/22/1994
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	1
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Geologic Information:

Well id:	4427	Geolog id:	8286
Geolog from:	0	Geolog to:	15
Material:	HARDPAN		
Date entered:	01/13/1994		
Well id:	4427	Geolog id:	8287
Geolog from:	15	Geolog to:	59
Material:	SANDY CLAY		
Date entered:	01/13/1994		
Well id:	4427	Geolog id:	8288
Geolog from:	59	Geolog to:	79
Material:	COARSE HARD GRAVEL		
Date entered:	01/13/1994		
Well id:	4427	Geolog id:	8289
Geolog from:	79	Geolog to:	90
Material:	LOOSE COARSE GRAVEL		
Date entered:	01/13/1994		
Well id:	4427	Geolog id:	8290
Geolog from:	90	Geolog to:	93
Material:	HARDPAN		
Date entered:	01/13/1994		
Well id:	4427	Geolog id:	8291
Geolog from:	93	Geolog to:	99
Material:	GRAVEL & SAND		
Date entered:	01/13/1994		
Well id:	4427	Geolog id:	8292
Geolog from:	99	Geolog to:	105
Material:	HARD SAND & GRAVEL		
Date entered:	01/13/1994		
Well id:	4427	Geolog id:	20016
Geolog from:	105	Geolog to:	110
Material:	LOOSE SAND & GRAVEL		
Date entered:	Not Reported		
Well id:	4427	Geolog id:	20017
Geolog from:	110	Geolog to:	137
Material:	SAND & GRAVEL		
Date entered:	Not Reported		
Well id:	4427	Geolog id:	20018
Geolog from:	137	Geolog to:	141
Material:	HARDPAN		
Date entered:	Not Reported		
<b>Casing Information:</b>			
Well id:	4427	Casing id:	3891
Casing from:	0	Casing to:	141
Casing diameter:	8	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/22/1994

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

### Perforation Information:

Well id:	4427	Perf id:	104
Perf from:	100	Perf to:	137
Perf type:	Not Reported	Perf width:	.375
Perf length:	1.5	Date entered:	01/13/1994

### Well Test Yield Information:

Wellid:	4427	Date of test:	01/07/1954
Test type:	1	Time:	4
Yield:	205	Drawdown:	24.800000000000001
Date entered:	02/22/1994		

### Water Quality Information:

Sample id:	1270	Well id:	4427
Sample id:	8/16/85	sample date:	08/16/1985
Treated YN:	0		
Comments:	COLLECTED BY TOM BARLET. PUBLIC HEALTH LAB#108398		

Sample id:	1271	Well id:	4427
Sample id:	6/1/86	sample date:	06/01/1986
Treated YN:	0		
Comments:	LAB UNKNOWN..		

Sample id:	3307	Well id:	4427
Sample id:	12/14/93	sample date:	12/14/1993
Treated YN:	0		
Comments:	DEPARTMENT OF HEALTH LAB#5408512		

Sample id:	3308	Well id:	4427
Sample id:	9/20/96	sample date:	09/20/1996
Treated YN:	0		
Comments:	SOUND ANALYTICAL LABS		

**E12**  
**NW**  
**1/8 - 1/4 Mile**  
**Higher**

**WA WELLS** **WAK10000003540**

Well id:	1435
Doe site id:	Not Reported
Usgs site id:	473418122332403
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-16F03
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	16
Quarter quarter1:	SE
Quarter quarter2:	NW
Elevation:	70

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	2/17/1967 0:00:00	Water level:	19
Status:	Not Reported		

### Well Log Information:

Well log id:	1435	Well id:	1435
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	64	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1966
End construction:	01/01/1966	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

### Casing Information:

Well id:	1435	Casing id:	1224
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

### Screen Information:

Well id:	1435	Screen id:	645
Screen from:	0	Screen to:	59
Screen man:	Not Reported	Screen type:	Not Reported
Model num:	Not Reported	Screen diam:	Not Reported
Screen slotsize:	Not Reported	Date entered:	Not Reported

### Well test Recovery Information:

Wellid:	1435	Date of test:	01/01/1901
Testtype:	1	Time:	.100000000000000001
Waterlevel:	30		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Well Test Yield Information:

Wellid:	1435	Date of test:	01/01/1901
Test type:	1	Time:	.10000000000000001
Yield:	14	Drawdown:	0
Date entered:	02/01/1988		

**C13**  
**West**  
**1/8 - 1/4 Mile**  
**Higher**

**FED USGS      USGS3277298**

Agency cd:	USGS	Site no:	473413122332404
Site name:	24N/02E-16F04		
Latitude:	473413	EDR Site id:	USGS3277298
Longitude:	1223324	Dec lat:	47.57009659
Dec lon:	-122.55791253	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	SE NW S16 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	30		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19670101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	6	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1967-02-28
Water quality data end date:	1967-03-09	Water quality data count:	2
Ground water data begin date:	1967-02-01	Ground water data end date:	1967-02-01
Ground water data count:	1		

### Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
--	-----------------------	---------------------

1967-02-01 2

**F14**  
**West**  
**1/8 - 1/4 Mile**  
**Higher**

**WA WELLS      WAK10000003511**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	1422		
Doe site id:	Not Reported		
Usgs site id:	473412122332905		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-16L06		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	NE		
Quarter quarter2:	SW		
Elevation:	50		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	2/1/1967 0:00:00	Water level:	6
Status:	Not Reported		

### Well Log Information:

Well log id:	1422	Well id:	1422
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	14	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1942
End construction:	01/01/1942	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Casing Information:

Well id:	1422	Casing id:	1213
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	36	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**F15**  
**WNW**  
**1/8 - 1/4 Mile**  
**Higher**

**FED USGS**      **USGS3277303**

Agency cd:	USGS	Site no:	473415122332502
Site name:	24N/02E-16F03		
Latitude:	473415	EDR Site id:	USGS3277303
Longitude:	1223325	Dec lat:	47.57065214
Dec lon:	-122.55819034	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	SE NW S16 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	65		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Undulating		
Site type:	Ground-water other than Spring	Date construction:	19300101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	40	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1967-02-01	Ground water data end date:	1967-02-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
1967-02-01	25	

**E16**  
**NW**  
**1/8 - 1/4 Mile**  
**Higher**

**WA WELLS**      **WAK100000003553**

Well id:	1444
Doe site id:	Not Reported
Usgs site id:	473420122332501
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-16F04
Water right permit no:	Not Reported
Parcel id:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	SE		
Quarter quarter2:	NW		
Elevation:	50		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	2/1/1967 0:00:00	Water level:	5
Status:	Not Reported		

### Well Log Information:

Well log id:	1444	Well id:	1444
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	11	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1935
End construction:	01/01/1935	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Casing Information:

Well id:	1444	Casing id:	1231
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	48	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

**E17**  
**WWN**  
**1/8 - 1/4 Mile**  
**Higher**

**FED USGS      USGS3277307**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	473418122332403
Site name:	24N/02E-16F02	EDR Site id:	USGS3277307
Latitude:	473418	Dec lat:	47.57148548
Longitude:	1223324	Coor meth:	M
Dec lon:	-122.55791257	Latlong datum:	NAD27
Coor accr:	S	District:	53
Dec latlong datum:	NAD83	County:	035
State:	53	Land net:	SE NW S16 T24N R02E W
Country:	US	Map scale:	24000
Location map:	BREMERTON EAST		
Altitude:	70		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Undulating		
Site type:	Ground-water other than Spring	Date construction:	19660101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	64	Hole depth:	Not Reported
Source of depth data:	other reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1967-02-17
Water quality data end date:	1978-07-24	Water quality data count:	2
Ground water data begin date:	1967-02-17	Ground water data end date:	1967-02-17
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1967-02-17	19	

**F18**  
**WSW**  
**1/8 - 1/4 Mile**  
**Higher**

WA WELLS WAK10000003489

Well id:	1410
Doe site id:	Not Reported
Usgs site id:	47340912233003
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-16L03
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	16
Quarter quarter1:	NE
Quarter quarter2:	SW

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elevation:	60		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	Not Reported	Water level:	33.89999999999999
Status:	Not Reported		

### Well Log Information:

Well log id:	1410	Well id:	1410
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	101	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	Not Reported
End construction:	Not Reported	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

### Casing Information:

Well id:	1410	Casing id:	1202
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

### Screen Information:

Well id:	1410	Screen id:	633
Screen from:	0	Screen to:	95
Screen man:	Not Reported	Screen type:	Not Reported
Model num:	Not Reported	Screen diam:	Not Reported
Screen slotsize:	Not Reported	Date entered:	Not Reported

### Well test Recovery Information:

Wellid:	1410	Date of test:	01/01/1901
Testtype:	1	Time:	.100000000000000001
Waterlevel:	43		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Well Test Yield Information:

Wellid:	1410	Date of test:	01/01/1901
Test type:	1	Time:	.10000000000000001
Yield:	8	Drawdown:	0
Date entered:	02/01/1988		

**G19**  
**WSW**  
**1/8 - 1/4 Mile**  
**Higher**

**WA WELLS** **WAK10000003477**

Well id:	1402		
Doe site id:	Not Reported		
Usgs site id:	473407122332904		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-16L02		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	NE		
Quarter quarter2:	SW		
Elevation:	110		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	2/1/1967 0:00:00	Water level:	47
Status:	Not Reported		

### Well Log Information:

Well log id:	1402	Well id:	1402
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	83	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1954
End construction:	01/01/1954	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Casing Information:

Well id:	1402	Casing id:	1198
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

### Well test Recovery Information:

Wellid:	1402	Date of test:	01/01/1901
Testtype:	1	Time:	.10000000000000001
Waterlevel:	55		

### Well Test Yield Information:

Wellid:	1402	Date of test:	01/01/1901
Test type:	1	Time:	.10000000000000001
Yield:	6	Drawdown:	0
Date entered:	02/01/1988		

**F20**  
**WSW**  
**1/8 - 1/4 Mile**  
**Higher**

**FED USGS      USGS3277280**

Agency cd:	USGS	Site no:	473410122332601
Site name:	24N/02E-16L02		
Latitude:	473410	EDR Site id:	USGS3277280
Longitude:	1223326	Dec lat:	47.56926325
Dec lon:	-122.55846809	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NE SW S16 T24N R02E W
Location map:	BREMERTON EAST	Map scale:	24000
Altitude:	55		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19540107
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	141	Hole depth:	141
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1967-02-14
Water quality data end date:	1978-07-24	Water quality data count:	4
Ground water data begin date:	1976-04-01	Ground water data end date:	1976-04-01
Ground water data count:	1		

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
Date		
-----		
1976-04-01	49	

**F21**  
**WSW**  
**1/8 - 1/4 Mile**  
**Higher**

**WA WELLS** **WA6000000013377**

Objectid:	18186	Pwssrcid:	0260021
Oid :	2248	Pwsid:	02600
Srcnum:	21	Systemname:	ANNAPOLIS WATER DISTRICT
Systemgrp:	A	Systemtype:	Comm
Region:	Southwest	County:	KITSAP
Srcname:	WB #935004 S01 AAA226	Srctype:	Ground Water - Well
Srcuse:	Permanent		
Longitude:	-122.55874		
Latitude:	47.56935		
Locmethod:	GPS	Srcsuscept:	Moderate
Dayphone:	(360) 876-2545	Addr1:	Not Reported
Addr2:	2924 LUND AVE SE	City:	PORT ORCHARD
State:	WA	Zip:	98366
Emailaddr:	Not Reported	Site id:	WA6000000013377

**F22**  
**WSW**  
**1/8 - 1/4 Mile**  
**Higher**

**WA WELLS** **WA6000000013378**

Objectid:	18187	Pwssrcid:	0260022
Oid :	2249	Pwsid:	02600
Srcnum:	22	Systemname:	ANNAPOLIS WATER DISTRICT
Systemgrp:	A	Systemtype:	Comm
Region:	Southwest	County:	KITSAP
Srcname:	WB #935004 S02 AAA210	Srctype:	Ground Water - Well
Srcuse:	Permanent		
Longitude:	-122.55874		
Latitude:	47.56935		
Locmethod:	GPS	Srcsuscept:	Moderate
Dayphone:	(360) 876-2545	Addr1:	Not Reported
Addr2:	2924 LUND AVE SE	City:	PORT ORCHARD
State:	WA	Zip:	98366
Emailaddr:	Not Reported	Site id:	WA6000000013378

**G23**  
**SW**  
**1/8 - 1/4 Mile**  
**Higher**

**WA WELLS** **WAK100000003465**

Well id:	1397
Doe site id:	Not Reported
Usgs site id:	473404122332701
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-16L01
Water right permit no:	Not Reported
Parcel id:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	NE		
Quarter quarter2:	SW		
Elevation:	100		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	4/1/1974 0:00:00	Water level:	77
Status:	Not Reported		

### Well Log Information:

Well log id:	1397	Well id:	1397
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	155	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1974
End construction:	01/01/1974	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

### Casing Information:

Well id:	1397	Casing id:	1196
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

### Screen Information:

Well id:	1397	Screen id:	631
Screen from:	0	Screen to:	150
Screen man:	Not Reported	Screen type:	Not Reported
Model num:	Not Reported	Screen diam:	Not Reported
Screen slotsize:	Not Reported	Date entered:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Well test Recovery Information:

Wellid:	1397	Date of test:	01/01/1901
Testtype:	1	Time:	4
Waterlevel:	89		

### Well Test Yield Information:

Wellid:	1397	Date of test:	01/01/1901
Test type:	1	Time:	4
Yield:	10	Drawdown:	0
Date entered:	02/01/1988		

**F24**

**WSW**

**1/8 - 1/4 Mile**

**Higher**

**WA WELLS**

**WAK100000003497**

Well id:	1415
Doe site id:	Not Reported
Usgs site id:	473410122333202
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-16L04
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	16
Quarter quarter1:	NE
Quarter quarter2:	SW
Elevation:	100
Well address:	Not Reported
Well city:	Not Reported
Well state:	Not Reported
Well zip:	Not Reported
Date entered:	2/1/1988 0:00:00
Owner first:	Not Reported
Owner last:	Not Reported
Owner address1:	Not Reported
Owner address2:	Not Reported
Owner city:	Not Reported
Owner state:	Not Reported
Owner zip:	Not Reported
WI date:	Not Reported
Status:	Not Reported

Water level: 26

### Well Log Information:

Well log id:	1415	Well id:	1415
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	35	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	Not Reported
End construction:	Not Reported	Date entered:	02/01/1988

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Fieldchecked by kpu: 0	Water temp: 0
chem anal: 0	Artpress date: Not Reported
Art flow: 0	Artflow date: Not Reported
Artpress: Not Reported	Artcontrol: Not Reported
Art elevation: Not Reported	By whom: Not Reported
Bailer airtest yn: 0	perf yn: 0
screens yn: 0	Gravel packyn: 0
Surface seal yn: 0	Well test yn: 0
Survey date: Not Reported	

Casing Information:			
Well id: 1415	Casing id: 1206		
Casing from: Not Reported	Casing to: Not Reported		
Casing diameter: 48	Casing thickness: 0		
Casing type: Not Reported	Date entered: 02/01/1988		

25  
NW  
1/8 - 1/4 Mile  
Higher

**FED USGS      USGS3277316**

Agency cd: USGS	Site no: 473420122332501
Site name: 24N/02E-16F01	
Latitude: 473420	EDR Site id: USGS3277316
Longitude: 1223325	Dec lat: 47.57204103
Dec lon: -122.55819038	Coor meth: M
Coor accr: S	Latlong datum: NAD27
Dec latlong datum: NAD83	District: 53
State: 53	County: 035
Country: US	Land net: SE NW S16 T24N R02E W
Location map: Not Reported	Map scale: Not Reported
Altitude: 50	
Altitude method: Interpolated from topographic map	
Altitude accuracy: 10	
Altitude datum: National Geodetic Vertical Datum of 1929	
Hydrologic: Puget Sound. Washington. Area = 2550 sq.mi.	
Topographic: Valley flat	
Site type: Ground-water other than Spring	Date construction: 19350101
Date inventoried: Not Reported	Mean greenwich time offset: PST
Local standard time flag: Y	
Type of ground water site: Single well, other than collector or Ranney type	
Aquifer Type: Not Reported	
Aquifer: Not Reported	
Well depth: 11	Hole depth: Not Reported
Source of depth data: reporting agency (generally USGS)	
Project number: Not Reported	
Real time data flag: 0	Daily flow data begin date: 0000-00-00
Daily flow data end date: 0000-00-00	Daily flow data count: 0
Peak flow data begin date: 0000-00-00	Peak flow data end date: 0000-00-00
Peak flow data count: 0	Water quality data begin date: 0000-00-00
Water quality data end date: 0000-00-00	Water quality data count: 0
Ground water data begin date: 1967-02-01	Ground water data end date: 1967-02-01
Ground water data count: 1	

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
Date		
-----		
1967-02-01	5	

**F26**

**West**

**1/8 - 1/4 Mile**

**Higher**

**WA WELLS** **WAK100000003500**

Well id:	4382		
Doe site id:	AAA120		
Usgs site id:	Not Reported		
Internal project no:	Not Reported		
Local name:	ANNAPOLIS WD WATAUGA BEACH WELL 2		
Local number:	24N/02E-16L07		
Water right permit no:	Not Reported		
Parcel id:	4581-006-013-0001		
Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	NE		
Quarter quarter2:	SW		
Elevation:	65		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/22/1994 0:00:00		
Owner first:	Not Reported		
Owner last:	WATAUGA BEACH		
Owner address1:	5610 WATAUGA BEACH E		
Owner address2:	Not Reported		
Owner city:	PORT ORCHARD		
Owner state:	WA		
Owner zip:	98366		
WI date:	5/9/1988 0:00:00	Water level:	61
Status:	Not Reported		

**Well Log Information:**

Well log id:	4367	Well id:	4382
Startcard:	014667	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	CABLE
Diameter of well:	6	Well depth drilled:	138
Well depth completed:	138	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	04/28/1988
End construction:	05/09/1988	Date entered:	02/22/1994
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	0
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Geologic Information:

Well id:	4382	Geolog id:	19904
Geolog from:	129	Geolog to:	131
Material:	BROWN SAND, SOME GRAVEL, WATER		
Date entered:	Not Reported		
Well id:	4382	Geolog id:	19905
Geolog from:	131	Geolog to:	132
Material:	GRAY SAND, GRAVEL, WATER		
Date entered:	Not Reported		
Well id:	4382	Geolog id:	19906
Geolog from:	132	Geolog to:	138
Material:	GRAY SAND, SOME GRAVEL, WATER		
Date entered:	Not Reported		
Well id:	4382	Geolog id:	8037
Geolog from:	0	Geolog to:	2
Material:	BROWN CLAY		
Date entered:	01/13/1994		
Well id:	4382	Geolog id:	8038
Geolog from:	2	Geolog to:	10
Material:	GRAY SAND, GRAVEL, CLAY		
Date entered:	01/13/1994		
Well id:	4382	Geolog id:	8039
Geolog from:	10	Geolog to:	16
Material:	BROWN SAND, GRAVEL		
Date entered:	01/13/1994		
Well id:	4382	Geolog id:	8040
Geolog from:	16	Geolog to:	76
Material:	GRAY CLAY, STREAKS SAND		
Date entered:	01/13/1994		
Well id:	4382	Geolog id:	8041
Geolog from:	76	Geolog to:	110
Material:	BLUE SAND, GRAVEL, WATER		
Date entered:	01/13/1994		
Well id:	4382	Geolog id:	8042
Geolog from:	110	Geolog to:	124
Material:	BROWN SAND, GRAVEL, WATER		
Date entered:	01/13/1994		
Well id:	4382	Geolog id:	8043
Geolog from:	124	Geolog to:	129
Material:	GRAY GRAVEL, SAND, WATER		
Date entered:	01/13/1994		

### Casing Information:

Well id:	4382	Casing id:	3844
Casing from:	0	Casing to:	117
Casing diameter:	6	Casing thickness:	0
Casing type:	Welded	Date entered:	02/22/1994

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Screen Information:

Well id:	4382	Screen id:	7415
Screen from:	118	Screen to:	122.8
Screen man:	JOHNSON	Screen type:	SS
Model num:	Not Reported	Screen diam:	Not Reported
Screen slotsize:	.040000000000000001	Date entered:	02/20/1997

Well id:	4382	Screen id:	7416
Screen from:	113	Screen to:	128.09999999999999
Screen man:	JOHNSON	Screen type:	SS
Model num:	Not Reported	Screen diam:	Not Reported
Screen slotsize:	.040000000000000001	Date entered:	02/20/1997

Well id:	4382	Screen id:	7417
Screen from:	128	Screen to:	133.5
Screen man:	JOHNSON	Screen type:	SS
Model num:	Not Reported	Screen diam:	Not Reported
Screen slotsize:	.02	Date entered:	02/20/1997

### Seal Information:

Well id:	4382	Seal id:	1695
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	BENTONITE	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	0
Seal method:	Not Reported	Date entered:	02/22/1994

### Waterlevel Information:

Wellid:	4382	Wlid:	2741
Wldate:	11/21/1990	Waterlevel:	82.9000015
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7900000000000625		
Remark:	Not Reported		

Wellid:	4382	Wlid:	2742
Wldate:	01/31/1991	Waterlevel:	74.6100006
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7900000000000625		
Remark:	Not Reported		

Wellid:	4382	Wlid:	2743
Wldate:	02/28/1991	Waterlevel:	70.5899963
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7900000000000625		
Remark:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	4382	Wlid:	2744
Wldate:	04/22/1991	Waterlevel:	69.4000015
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2745
Wldate:	06/05/1991	Waterlevel:	73.8799973
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2746
Wldate:	07/01/1991	Waterlevel:	79.9499969
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2747
Wldate:	07/31/1991	Waterlevel:	104.099998
Status:	P	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2748
Wldate:	08/19/1991	Waterlevel:	108
Status:	P	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2749
Wldate:	08/29/1991	Waterlevel:	105.790001
Status:	P	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	4382	Wlid:	2750
Wldate:	09/11/1991	Waterlevel:	95.5
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2751
Wldate:	11/04/1991	Waterlevel:	84.0500031
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2752
Wldate:	12/04/1991	Waterlevel:	81.2300034
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2753
Wldate:	01/13/1992	Waterlevel:	78.7099991
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2754
Wldate:	02/10/1992	Waterlevel:	76.4300003
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2755
Wldate:	03/18/1992	Waterlevel:	73.6500015
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	4382	Wlid:	2756
Wldate:	04/21/1992	Waterlevel:	78.1100006
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	ADDITIONAL DATA AVAILABLE FROM AQUIFER TESTING OF 4/92 FUEL DEPOT WELL 4		
Wellid:	4382	Wlid:	2757
Wldate:	06/04/1992	Waterlevel:	87.4300003
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2758
Wldate:	07/07/1992	Waterlevel:	73.7699966
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2759
Wldate:	10/30/1992	Waterlevel:	68.1999969
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2760
Wldate:	02/02/1993	Waterlevel:	73.3199997
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2761
Wldate:	02/09/1993	Waterlevel:	74
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	4382	Wlid:	2762
Wldate:	02/22/1993	Waterlevel:	73.1399994
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.79000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2763
Wldate:	03/22/1993	Waterlevel:	62.0699997
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7899999999999915		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2764
Wldate:	04/19/1993	Waterlevel:	62.0200005
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7899999999999915		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2765
Wldate:	05/25/1993	Waterlevel:	62.8899994
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7899999999999915		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2766
Wldate:	06/29/1993	Waterlevel:	63.0800018
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7899999999999915		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2767
Wldate:	07/28/1993	Waterlevel:	61.9599991
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7899999999999915		
Remark:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	4382	Wlid:	2768
Wldate:	09/02/1993	Waterlevel:	65.5599976
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2769
Wldate:	09/30/1993	Waterlevel:	65.6299973
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2770
Wldate:	11/02/1993	Waterlevel:	62.3400002
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7899999999999915		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2771
Wldate:	12/16/1993	Waterlevel:	61.5999985
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7899999999999915		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2772
Wldate:	01/21/1994	Waterlevel:	62.1100006
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7899999999999915		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2773
Wldate:	02/23/1994	Waterlevel:	69.6900024
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	4382	Wlid:	2774
Wldate:	03/22/1994	Waterlevel:	67.9300003
Status:	P	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2775
Wldate:	04/26/1994	Waterlevel:	59.6800003
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7899999999999915		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2776
Wldate:	05/24/1994	Waterlevel:	65.7099991
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2777
Wldate:	07/20/1994	Waterlevel:	75.1800003
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2778
Wldate:	08/17/1994	Waterlevel:	77.4199982
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2779
Wldate:	09/19/1994	Waterlevel:	73.75
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	4382	Wlid:	2780
Wldate:	10/27/1994	Waterlevel:	68.7300034
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2781
Wldate:	11/07/1994	Waterlevel:	78.7200012
Status:	P	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	PUMPING		
Wellid:	4382	Wlid:	2782
Wldate:	12/21/1994	Waterlevel:	63.4500008
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7899999999999915		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2783
Wldate:	01/17/1995	Waterlevel:	69.9199982
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.790000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2784
Wldate:	02/22/1995	Waterlevel:	59.4000015
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7899999999999915		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2785
Wldate:	03/13/1995	Waterlevel:	58.5800018
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7899999999999915		
Remark:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	4382	Wlid:	2786
Wldate:	04/25/1995	Waterlevel:	60
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.7899999999999915		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2787
Wldate:	05/22/1995	Waterlevel:	65.3399963
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.79000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2788
Wldate:	06/19/1995	Waterlevel:	72.3799973
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.79000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2789
Wldate:	07/10/1995	Waterlevel:	77.8499985
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.79000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2790
Wldate:	08/21/1995	Waterlevel:	73.6500015
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.79000000000000625		
Remark:	Not Reported		
Wellid:	4382	Wlid:	2791
Wldate:	09/22/1995	Waterlevel:	73.5500031
Status:	Not Reported	Method:	V
Accuracy:	2	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	65
Stickup:	.79000000000000625		
Remark:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid: 4382 Wlid: 2792  
 Wldate: 10/16/1995 Waterlevel: 69.9499969  
 Status: Not Reported Method: V  
 Accuracy: 2 Installflag: 0  
 Artpress: Not Reported Artdate: Not Reported  
 Artcontrol: Not Reported Elevation: 65  
 Stickup: .790000000000000625  
 Remark: Not Reported

Wellid: 4382 Wlid: 2793  
 Wldate: 11/14/1995 Waterlevel: 66.2699966  
 Status: Not Reported Method: V  
 Accuracy: 2 Installflag: 0  
 Artpress: Not Reported Artdate: Not Reported  
 Artcontrol: Not Reported Elevation: 65  
 Stickup: .790000000000000625  
 Remark: Not Reported

Wellid: 4382 Wlid: 2794  
 Wldate: 12/18/1995 Waterlevel: 65.5999985  
 Status: Not Reported Method: V  
 Accuracy: 2 Installflag: 0  
 Artpress: Not Reported Artdate: Not Reported  
 Artcontrol: Not Reported Elevation: 65  
 Stickup: .790000000000000625  
 Remark: Not Reported

Wellid: 4382 Wlid: 2795  
 Wldate: 01/22/1996 Waterlevel: 60.7000008  
 Status: Not Reported Method: V  
 Accuracy: 2 Installflag: 0  
 Artpress: Not Reported Artdate: Not Reported  
 Artcontrol: Not Reported Elevation: 65  
 Stickup: .78999999999999915  
 Remark: Not Reported

**Well Test Yield Information:**

Wellid:	4382	Date of test:	05/09/1988
Test type:	2	Time:	1
Yield:	10	Drawdown:	1
Date entered:	05/27/1996		

**Water Quality Information:**

Sample id:	1269	Well id:	4382
Sample id:	6/3/88	sample date:	06/03/1988
Treated YN:	0		
Comments:	COLLECTED BY NICHOLSON DRILLING. AM TEST LAB#		

Sample id:	3305	Well id:	4382
Sample id:	12/14/93	sample date:	12/14/1993
Treated YN:	0		
Comments:	DEPARTMENT OF HEALTH LAB#5408512		

Sample id:	3306	Well id:	4382
Sample id:	9/20/96	sample date:	09/20/1996
Treated YN:	0		
Comments:	SOUND ANALYTICAL SERVICES, INC. LAB#5961701		

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**F27**  
**West**  
**1/8 - 1/4 Mile**  
**Higher**

**FED USGS**      **USGS3277293**

Agency cd:	USGS	Site no:	473412122332905
Site name:	24N/02E-16L01		
Latitude:	473412	EDR Site id:	USGS3277293
Longitude:	1223329	Dec lat:	47.56981879
Dec lon:	-122.55930149	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NE SW S16 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	50		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19420101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	14	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1967-03-08
Water quality data end date:	1967-03-08	Water quality data count:	1
Ground water data begin date:	1967-02-01	Ground water data end date:	1967-02-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
1967-02-01	6	

**H28**  
**West**  
**1/4 - 1/2 Mile**  
**Higher**

**WA WELLS**      **WAK100000003506**

Well id:	1420
Doe site id:	Not Reported
Usgs site id:	4734112233401
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-16L05
Water right permit no:	Not Reported
Parcel id:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	NE		
Quarter quarter2:	SW		
Elevation:	60		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	3/1/1967 0:00:00	Water level:	9
Status:	Not Reported		

### Well Log Information:

Well log id:	1420	Well id:	1420
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	15	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1938
End construction:	01/01/1938	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Casing Information:

Well id:	1420	Casing id:	1211
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	48	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

29  
 NE  
 1/4 - 1/2 Mile  
 Lower

WA WELLS WAK100000003557

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	1446		
Doe site id:	Not Reported		
Usgs site id:	473422122330101		
Internal project no:	Not Reported		
Local name:	NOAA TEST HOLE 2		
Local number:	24N/02E-16G04		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	SW		
Quarter quarter2:	NE		
Elevation:	12.1		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	6/9/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	3/19/1979 0:00:00	Water level:	3.899999999999999
Status:	Not Reported		

### Well Log Information:

Well log id:	1446	Well id:	1446
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	8	Well depth drilled:	244
Well depth completed:	138.5999999999999	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	02/22/1979
End construction:	03/01/1979	Date entered:	06/09/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Geologic Information:

Well id:	1446	Geolog id:	16514
Geolog from:	180	Geolog to:	193
Material:	CLAY W , SILT & GRAVEL		
Date entered:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	1446	Geolog id:	16515
Geolog from:	193	Geolog to:	241
Material:	SILT & CLAY, OCC GRAVEL		
Date entered:	Not Reported		
Well id:	1446	Geolog id:	16516
Geolog from:	241	Geolog to:	241.00999999999999
Material:	GRAY SILTY CLAY		
Date entered:	Not Reported		
Well id:	1446	Geolog id:	2337
Geolog from:	0	Geolog to:	1
Material:	BLUE CLAY W/ DARK GRAVEL		
Date entered:	07/14/1988		
Well id:	1446	Geolog id:	2338
Geolog from:	15	Geolog to:	35
Material:	BLUE CLAY		
Date entered:	07/14/1988		
Well id:	1446	Geolog id:	2339
Geolog from:	35	Geolog to:	45
Material:	SILTY CLAY W/ SANDY SEAMS. SOME H2O		
Date entered:	07/14/1988		
Well id:	1446	Geolog id:	2340
Geolog from:	45	Geolog to:	64
Material:	SILTBOUND SAND & GRAVEL W/SHELLS		
Date entered:	07/14/1988		
Well id:	1446	Geolog id:	2341
Geolog from:	64	Geolog to:	10
Material:	BL-GRAY SILTY CLAY W/ GRANULES		
Date entered:	07/14/1988		
Well id:	1446	Geolog id:	2342
Geolog from:	107	Geolog to:	145
Material:	FINE SAND, SOME SILT, OCC GRAVEL.		
Date entered:	07/14/1988		
Well id:	1446	Geolog id:	2343
Geolog from:	145	Geolog to:	180
Material:	GRAY SILTY CL. W/SAND SEAMS,SOM H2O		
Date entered:	07/14/1988		
<b>Casing Information:</b>			
Well id:	1446	Casing id:	1233
Casing from:	-2.299999999999998	Casing to:	123.7
Casing diameter:	8	Casing thickness:	0
Casing type:	Not Reported	Date entered:	06/17/1988
<b>Screen Information:</b>			
Well id:	1446	Screen id:	651
Screen from:	121	Screen to:	138.59999999999999
Screen man:	Not Reported	Screen type:	Not Reported
Model num:	Not Reported	Screen diam:	6
Screen slotsize:	.0129999999999999	Date entered:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**H30**  
**WSW**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS**      **USGS3277272**

Agency cd:	USGS	Site no:	473409122333003
Site name:	24N/02E-16L03		
Latitude:	473409	EDR Site id:	USGS3277272
Longitude:	1223330	Dec lat:	47.56898546
Dec lon:	-122.55957926	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NE SW S16 T24N R02E W
Location map:	BREMERTON EAST	Map scale:	24000
Altitude:	55		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19670101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	101	Hole depth:	Not Reported
Source of depth data:	other reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1967-02-16
Water quality data end date:	1978-07-24	Water quality data count:	2
Ground water data begin date:	1967-02-16	Ground water data end date:	1967-02-16
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1967-02-16	34	

**G31**  
**WSW**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS**      **USGS3277262**

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	473407122332904
Site name:	24N/02E-16L04		
Latitude:	473407	EDR Site id:	USGS3277262
Longitude:	1223329	Dec lat:	47.56842991
Dec lon:	-122.55930145	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NE SW S16 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	105		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	19540101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	83	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1967-02-01	Ground water data end date:	1967-02-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
1967-02-01	47	

32  
SW  
1/4 - 1/2 Mile  
Higher

**FED USGS      USGS3277247**

Agency cd:	USGS	Site no:	473404122332701
Site name:	24N/02E-16L07		
Latitude:	473404	EDR Site id:	USGS3277247
Longitude:	1223327	Dec lat:	47.56759659
Dec lon:	-122.55874584	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NE SW S16 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	90		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	50		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Alluvial or marine terrace		
Site type:	Ground-water other than Spring	Date construction:	19740101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag: Y  
 Type of ground water site: Single well, other than collector or Ranney type  
 Aquifer Type: Not Reported  
 Aquifer: Not Reported  
 Well depth: 155 Hole depth: Not Reported  
 Source of depth data: reporting agency (generally USGS)  
 Project number: Not Reported  
 Real time data flag: 0 Daily flow data begin date: 0000-00-00  
 Daily flow data end date: 0000-00-00 Daily flow data count: 0  
 Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00  
 Peak flow data count: 0 Water quality data begin date: 0000-00-00  
 Water quality data end date: 0000-00-00 Water quality data count: 0  
 Ground water data begin date: 1974-04-01 Ground water data end date: 1974-04-01  
 Ground water data count: 1

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel	
-----			
1974-04-01	77		

**H33**  
**WSW**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS**    **USGS3277281**

Agency cd:	USGS	Site no:	473410122333202
Site name:	24N/02E-16L05		
Latitude:	473410	EDR Site id:	USGS3277281
Longitude:	1223332	Dec lat:	47.56926323
Dec lon:	-122.56013486	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NE SW S16 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	95		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	19670101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	35	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1967-03-01	Ground water data end date:	1967-03-01
Ground water data count:	1		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1967-03-01	26	

I34  
North  
1/4 - 1/2 Mile  
Higher

WA WELLS WAK100000003569

Well id:	1454
Doe site id:	Not Reported
Usgs site id:	473428122331601
Internal project no:	Not Reported
Local name:	NOAA TEST HOLE 1-A
Local number:	24N/02E-16G05
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	16
Quarter quarter1:	SW
Quarter quarter2:	NE
Elevation:	54.200000000000003
Well address:	Not Reported
Well city:	Not Reported
Well state:	Not Reported
Well zip:	Not Reported
Date entered:	6/8/1988 0:00:00
Owner first:	Not Reported
Owner last:	Not Reported
Owner address1:	Not Reported
Owner address2:	Not Reported
Owner city:	Not Reported
Owner state:	Not Reported
Owner zip:	Not Reported
WI date:	3/8/1979 0:00:00
Status:	Not Reported
Water level:	35.600000000000001

Well Log Information:

Well log id:	1454	Well id:	1454
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	8	Well depth drilled:	330
Well depth completed:	330	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	02/02/1979
End construction:	05/01/1979	Date entered:	06/08/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	1
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Geologic Information:

Well id:	1454	Geolog id:	16517
Geolog from:	157	Geolog to:	164
Material:	DARK SILTY SAND W , SHELLS		
Date entered:	Not Reported		
Well id:	1454	Geolog id:	16518
Geolog from:	164	Geolog to:	169
Material:	DARK SAND, SILT, & GRAVEL W , SHELLS		
Date entered:	Not Reported		
Well id:	1454	Geolog id:	16519
Geolog from:	169	Geolog to:	228
Material:	SILT W , WOOD FRAGMENTS		
Date entered:	Not Reported		
Well id:	1454	Geolog id:	16520
Geolog from:	228	Geolog to:	240
Material:	GRAY CLAY		
Date entered:	Not Reported		
Well id:	1454	Geolog id:	16521
Geolog from:	240	Geolog to:	245
Material:	SAND & GRAVEL, SOME WATER		
Date entered:	Not Reported		
Well id:	1454	Geolog id:	16522
Geolog from:	245	Geolog to:	307
Material:	GRAY CLAY W , EMBEDDED GRAVEL		
Date entered:	Not Reported		
Well id:	1454	Geolog id:	16523
Geolog from:	307	Geolog to:	315
Material:	GRAVEL, SAND, SOME BINDER, SOME H2O		
Date entered:	Not Reported		
Well id:	1454	Geolog id:	16524
Geolog from:	315	Geolog to:	315.00999999999999
Material:	VERY FINE SAND, SILT, GRAVEL		
Date entered:	Not Reported		
Well id:	1454	Geolog id:	2351
Geolog from:	0	Geolog to:	3
Material:	BROWN SILTY SAND, SOME GRAVEL		
Date entered:	07/14/1988		
Well id:	1454	Geolog id:	2352
Geolog from:	30	Geolog to:	40
Material:	SAND & GRAVEL- BROWN, SOME WATER		
Date entered:	07/14/1988		
Well id:	1454	Geolog id:	2353
Geolog from:	40	Geolog to:	47
Material:	BRN SAND & GRAVEL W/ CEMENTED SEAMS		
Date entered:	07/14/1988		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id: 1454 Geolog id: 2354  
 Geolog from: 47 Geolog to: 50  
 Material: BLACK GRAVEL & SAND  
 Date entered: 07/14/1988

Well id: 1454 Geolog id: 2355  
 Geolog from: 50 Geolog to: 126  
 Material: BL-GRAY SILTY CLAY W/EMBEDD GRANULE  
 Date entered: 07/14/1988

Well id: 1454 Geolog id: 2356  
 Geolog from: 126 Geolog to: 145  
 Material: GRAY-GREEN SILT  
 Date entered: 07/14/1988

Well id: 1454 Geolog id: 2357  
 Geolog from: 145 Geolog to: 157  
 Material: DARK SAND&GRAVL W/SILTY BINDER. H2O  
 Date entered: 07/14/1988

**Casing Information:**  
 Well id: 1454 Casing id: 1239  
 Casing from: -2 Casing to: 330  
 Casing diameter: 8 Casing thickness: 0  
 Casing type: Not Reported Date entered: 06/17/1988

**Perforation Information:**  
 Well id: 1454 Perf id: 28  
 Perf from: 146 Perf to: 0  
 Perf type: Not Reported Perf width: Not Reported  
 Perf length: Not Reported Date entered: 06/08/1988

Well id: 1454 Perf id: 29  
 Perf from: 310 Perf to: 0  
 Perf type: Not Reported Perf width: Not Reported  
 Perf length: Not Reported Date entered: 06/08/1988

Well id: 1454 Perf id: 30  
 Perf from: 238 Perf to: 0  
 Perf type: Not Reported Perf width: Not Reported  
 Perf length: Not Reported Date entered: 06/08/1988

**Well Test Yield Information:**  
 Wellid: 1454 Date of test: 03/08/1979  
 Test type: 2 Time: 1  
 Yield: 30 Drawdown: 0  
 Date entered: 05/27/1996

I35  
 North  
 1/4 - 1/2 Mile  
 Higher

WA WELLS WAK100000003570

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	1455		
Doe site id:	Not Reported		
Usgs site id:	473428122331602		
Internal project no:	Not Reported		
Local name:	NOAA TEST HOLE 1-B		
Local number:	24N/02E-16G06		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	SW		
Quarter quarter2:	NE		
Elevation:	54.10000000000001		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	6/9/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	3/19/1979 0:00:00	Water level:	8
Status:	Not Reported		

### Well Log Information:

Well log id:	1455	Well id:	1455
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	8	Well depth drilled:	50
Well depth completed:	50	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	02/16/1979
End construction:	02/19/1979	Date entered:	06/09/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	1
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

### Casing Information:

Well id:	1455	Casing id:	1240
Casing from:	-5999999999999998	Casing to:	50
Casing diameter:	8	Casing thickness:	0
Casing type:	Not Reported	Date entered:	06/17/1988

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Perforation Information:

Well id:	1455	Perf id:	31
Perf from:	45	Perf to:	0
Perf type:	Not Reported	Perf width:	Not Reported
Perf length:	Not Reported	Date entered:	06/09/1988
Well id:	1455	Perf id:	32
Perf from:	32	Perf to:	0
Perf type:	Not Reported	Perf width:	Not Reported
Perf length:	Not Reported	Date entered:	06/09/1988

### Well test Recovery Information:

Wellid:	1455	Date of test:	02/19/1979
Testtype:	1	Time:	.2999999999999999
Waterlevel:	0		

### Well Test Yield Information:

Wellid:	1455	Date of test:	02/19/1979
Test type:	1	Time:	.2999999999999999
Yield:	8	Drawdown:	24
Date entered:	06/09/1988		

**H36**  
**West**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS**      **USGS3277288**

Agency cd:	USGS	Site no:	473411122333401
Site name:	24N/02E-16L06		
Latitude:	473411	EDR Site id:	USGS3277288
Longitude:	1223334	Dec lat:	47.56954099
Dec lon:	-122.56069046	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NE SW S16 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	60		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19380101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	15	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1967-03-01	Ground water data end date:	1967-03-01
Ground water data count:	1		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
Date		
-----		
1967-03-01	9	

**J37**  
**West**  
**1/4 - 1/2 Mile**  
**Higher**

**WA WELLS** **WAK100000003488**

Well id:	1411	
Doe site id:	Not Reported	
Usgs site id:	473409122334001	
Internal project no:	Not Reported	
Local name:	Not Reported	
Local number:	24N/02E-16M01	
Water right permit no:	Not Reported	
Parcel id:	Not Reported	
Township:	24	
Range:	2	
Meridian:	E	
Section:	16	
Quarter quarter1:	NW	
Quarter quarter2:	SW	
Elevation:	60	
Well address:	Not Reported	
Well city:	Not Reported	
Well state:	Not Reported	
Well zip:	Not Reported	
Date entered:	2/1/1988 0:00:00	
Owner first:	Not Reported	
Owner last:	Not Reported	
Owner address1:	Not Reported	
Owner address2:	Not Reported	
Owner city:	Not Reported	
Owner state:	Not Reported	
Owner zip:	Not Reported	
WI date:	Not Reported	
Status:	Not Reported	
	Water level:	5

**Well Log Information:**

Well log id:	1411	Well id:	1411
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	10	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	Not Reported
End construction:	Not Reported	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

### Casing Information:

Well id:	1411	Casing id:	1203
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	48	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

38  
SSW  
1/4 - 1/2 Mile  
Higher

WA WELLS WAK100000003447

J39  
WSW  
1/4 - 1/2 Mile  
Higher

WA WELLS WAK100000003476

Well id:	-992958704		
Doe site id:	ACK483		
Usgs site id:	Not Reported		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-16M04		
Water right permit no:	Not Reported		
Parcel id:	16240230052007		
Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	NW		
Quarter quarter2:	SW		
Elevation:	70		
Well address:	6604 BEAVER CREEK ROAD		
Well city:	PORT ORCHARD		
Well state:	WA		
Well zip:	98367		
Date entered:	2/23/2000 9:31:39		
Owner first:	ERIK		
Owner last:	NAGLI		
Owner address1:	2818 SE LELA LANE		
Owner address2:	Not Reported		
Owner city:	PORT ORCHARD		
Owner state:	WA		
Owner zip:	98367		
WI date:	6/24/1997 0:00:00	Water level:	45
Status:	Not Reported		

### Well Log Information:

Well log id:	-2100970031	Well id:	-992958704
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Cable
Diameter of well:	6	Well depth drilled:	139
Well depth completed:	139	Elevation:	Not Reported
Pumpman:	GOULDS	Pumptype:	SUB 10GS07
Pump modelno:	3/4 HP	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	06/20/1997
End construction:	06/23/1997	Date entered:	02/23/2000

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Fieldchecked by kpu: 0	Water temp: 50		
chem anal: 1	Artpress date: Not Reported		
Art flow: 0	Artflow date: Not Reported		
Artpress: Not Reported	Artcontrol: Not Reported		
Art elevation: Not Reported	By whom: by Driller		
Bailer airtest yn: 0	perf yn: 0		
screens yn: 1	Gravel packyn: 0		
Surface seal yn: 1	Well test yn: 1		
Survey date: Not Reported			
 Geologic Information:			
Well id: -992958704	Geolog id: -1758227169		
Geolog from: 65	Geolog to: 77		
Material: GRAY GRAVELLY STICKY CLAY			
Date entered: 02/23/2000			
Well id: -992958704	Geolog id: -1609566995		
Geolog from: 0	Geolog to: 1		
Material: OVERBURDEN			
Date entered: 02/23/2000			
Well id: -992958704	Geolog id: 1702501477		
Geolog from: 105	Geolog to: 127		
Material: GRAY SANDY SILTY CLAY			
Date entered: 02/23/2000			
Well id: -992958704	Geolog id: 366643798		
Geolog from: 49	Geolog to: 65		
Material: GRAY GRAVELLY HARDPAN			
Date entered: 02/23/2000			
Well id: -992958704	Geolog id: 318747112		
Geolog from: 29	Geolog to: 35		
Material: BROWN SILTY SAND			
Date entered: 02/23/2000			
Well id: -992958704	Geolog id: 1815722946		
Geolog from: 127	Geolog to: 139		
Material: BROWN SILTY SAND AND GRAVEL, WATER			
Date entered: 02/23/2000			
Well id: -992958704	Geolog id: 46708169		
Geolog from: 35	Geolog to: 49		
Material: GRAY SANDY SILT			
Date entered: 02/23/2000			
Well id: -992958704	Geolog id: 1918433507		
Geolog from: 8	Geolog to: 29		
Material: BROWN GRAVELLY HARDPAN			
Date entered: 02/23/2000			
Well id: -992958704	Geolog id: -753206358		
Geolog from: 1	Geolog to: 8		
Material: BROWN SILT AND SAND			
Date entered: 02/23/2000			

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	-992958704	Geolog id:	-657780620
Geolog from:	77	Geolog to:	105
Material:	GRAY CLAY		
Date entered:	02/23/2000		

### Casing Information:

Well id:	-992958704	Casing id:	-997448770
Casing from:	0	Casing to:	134
Casing diameter:	6	Casing thickness:	Not Reported
Casing type:	Welded	Date entered:	02/23/2000

### Screen Information:

Well id:	-992958704	Screen id:	775879783
Screen from:	134	Screen to:	139
Screen man:	JOHNSON	Screen type:	SS
Model num:	Not Reported	Screen diam:	5
Screen slotsize:	.01	Date entered:	02/23/2000

### Seal Information:

Well id:	-992958704	Seal id:	244770844
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	Bentonite	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	Not Reported
Seal method:	Not Reported	Date entered:	02/23/2000

### Waterlevel Information:

Wellid:	-992958704	Wlid:	-1957278437
Wldate:	07/11/1997	Waterlevel:	Not Reported
Status:	Not Reported	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	1.399999999999999		
Remark:	BKCHD/LUM		

### Well test Recovery Information:

Wellid:	-992958704	Date of test:	06/24/1997
Testtype:	1	Time:	3
Waterlevel:	45		

### Well Test Yield Information:

Wellid:	-992958704	Date of test:	06/24/1997
Test type:	1	Time:	2
Yield:	15	Drawdown:	13
Date entered:	02/23/2000		

Wellid:	-992958704	Date of test:	06/24/1997
Test type:	2	Time:	1
Yield:	22	Drawdown:	15
Date entered:	02/23/2000		

J40  
WSW  
1/4 - 1/2 Mile  
Higher

FED USGS      USGS3277273

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	473409122334001
Site name:	24N/02E-16M02		
Latitude:	473409	EDR Site id:	USGS3277273
Longitude:	1223340	Dec lat:	47.56898541
Dec lon:	-122.56235721	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NW SW S16 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	60		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19670101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	10	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1967-02-01	Ground water data end date:	1967-02-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
1967-02-01	5	

41  
**WSW**  
**1/4 - 1/2 Mile**  
**Higher**

WA WELLS WAK10000003472

Well id:	13953
Doe site id:	ABA906
Usgs site id:	Not Reported
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-16M03
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	16
Quarter quarter1:	NW
Quarter quarter2:	SW

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elevation: 75  
 Well address: 6598 BEAVER CREEK ROAD  
 Well city: PORT ORCHARD  
 Well state: WA  
 Well zip: 98366  
 Date entered: 3/6/1997 10:24:32  
 Owner first: BRONAH E  
 Owner last: HOLT  
 Owner address1: PO BOX 552  
 Owner address2: Not Reported  
 Owner city: PORT ORCHARD  
 Owner state: WA  
 Owner zip: 98366  
 WI date: 7/31/1995 0:00:00  
 Status: Not Reported

Water level: 32

### Well Log Information:

Well log id:	11241	Well id:	13953
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	Reconditioned	Drilling method:	Cable
Diameter of well:	6	Well depth drilled:	151
Well depth completed:	151	Elevation:	Not Reported
Pumpman:	BERKELEY	Pumptype:	SUB
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	07/25/1995
End construction:	07/31/1995	Date entered:	03/06/1997
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	0
Survey date:	Not Reported		

### Geologic Information:

Well id:	13953	Geolog id:	56943
Geolog from:	0	Geolog to:	2
Material:	SANDY ALDER BOTTOM		
Date entered:	03/06/1997		
Well id:	13953	Geolog id:	56944
Geolog from:	2	Geolog to:	8
Material:	GRAY SANDY CLAY		
Date entered:	03/06/1997		
Well id:	13953	Geolog id:	56945
Geolog from:	8	Geolog to:	25
Material:	LARGE ROCKS - GRAVEL		
Date entered:	03/06/1997		
Well id:	13953	Geolog id:	56946
Geolog from:	25	Geolog to:	32
Material:	HARD PAN - GRAY		
Date entered:	03/06/1997		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	13953	Geolog id:	56947
Geolog from:	32	Geolog to:	43
Material:	BLUE CLAY; GRAVEL HARD PAN GRAY		
Date entered:	03/06/1997		
Well id:	13953	Geolog id:	56948
Geolog from:	43	Geolog to:	66
Material:	SOLID GRAY CLAY		
Date entered:	03/06/1997		
Well id:	13953	Geolog id:	56949
Geolog from:	66	Geolog to:	90
Material:	DIRTY GRAY MIST OF SAND AND CLAY GRAVEL & SEEPAGE		
Date entered:	03/06/1997		
Well id:	13953	Geolog id:	56950
Geolog from:	90	Geolog to:	125
Material:	FINE GRAY SND		
Date entered:	03/06/1997		
Well id:	13953	Geolog id:	56951
Geolog from:	125	Geolog to:	133
Material:	SILTY GRAY CLAY MIXED WITH SAD		
Date entered:	03/06/1997		
Well id:	13953	Geolog id:	56953
Geolog from:	133	Geolog to:	151
Material:	MORE GRAY SAND POSSIBLY CLEANER AN SOMEWHAT COARSE		
Date entered:	03/06/1997		
Well id:	13953	Geolog id:	56954
Geolog from:	151	Geolog to:	151.00999999999999
Material:	WATER BEARING		
Date entered:	03/06/1997		
Casing Information:			
Well id:	13953	Casing id:	10830
Casing from:	133	Casing to:	141.40000000000001
Casing diameter:	6	Casing thickness:	Not Reported
Casing type:	Welded	Date entered:	03/06/1997
Screen Information:			
Well id:	13953	Screen id:	7446
Screen from:	140.6999999999999	Screen to:	151.0999999999999
Screen man:	UNKNOWN	Screen type:	SS
Model num:	Not Reported	Screen diam:	6
Screen slotsize:	.016	Date entered:	03/06/1997
Seal Information:			
Well id:	13953	Seal id:	3991
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	Bentonite	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	Not Reported
Seal method:	Not Reported	Date entered:	03/06/1997

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Well Test Yield Information:

Wellid:	13953	Date of test:	07/31/1995
Test type:	2	Time:	1
Yield:	5	Drawdown:	107
Date entered:	03/06/1997		

**K42**  
**WNW**  
**1/4 - 1/2 Mile**  
**Higher**

**WA WELLS** **WAK100000003549**

Well id:	1440		
Doe site id:	Not Reported		
Usgs site id:	473419122334702		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-16E03		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	SW		
Quarter quarter2:	NW		
Elevation:	85		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	2/1/1967 0:00:00	Water level:	35
Status:	Not Reported		

### Well Log Information:

Well log id:	1440	Well id:	1440
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	Not Reported
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	102	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1962
End construction:	01/01/1962	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

### Casing Information:

Well id:	1440	Casing id:	1228
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

### Screen Information:

Well id:	1440	Screen id:	647
Screen from:	0	Screen to:	102
Screen man:	Not Reported	Screen type:	Not Reported
Model num:	Not Reported	Screen diam:	Not Reported
Screen slotsize:	Not Reported	Date entered:	Not Reported

### Well test Recovery Information:

Wellid:	1440	Date of test:	01/01/1901
Testtype:	1	Time:	0
Waterlevel:	45		

### Well Test Yield Information:

Wellid:	1440	Date of test:	01/01/1901
Test type:	1	Time:	0
Yield:	6	Drawdown:	0
Date entered:	02/01/1988		

K43  
WNW  
1/4 - 1/2 Mile  
Higher

WA WELLS WAK100000003539

Well id:	1436
Doe site id:	Not Reported
Usgs site id:	473418122334901
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-16E02
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	16
Quarter quarter1:	SW
Quarter quarter2:	NW
Elevation:	100
Well address:	Not Reported
Well city:	Not Reported
Well state:	Not Reported
Well zip:	Not Reported
Date entered:	2/1/1988 0:00:00
Owner first:	Not Reported
Owner last:	Not Reported
Owner address1:	Not Reported
Owner address2:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Owner city:	Not Reported	
Owner state:	Not Reported	
Owner zip:	Not Reported	
WI date:	Not Reported	Water level:
Status:	Not Reported	23

### Well Log Information:

Well log id:	1436	Well id:	1436
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	32	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	Not Reported
End construction:	Not Reported	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Casing Information:

Well id:	1436	Casing id:	1225
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	30	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

**L44**  
**West**  
**1/4 - 1/2 Mile**  
**Higher**

**WA WELLS**    **WAK100000003505**

Well id:	1421	
Doe site id:	Not Reported	
Usgs site id:	473411122335001	
Internal project no:	Not Reported	
Local name:	Not Reported	
Local number:	24N/02E-16M02	
Water right permit no:	Not Reported	
Parcel id:	Not Reported	
Township:	24	
Range:	2	
Meridian:	E	
Section:	16	
Quarter quarter1:	NW	
Quarter quarter2:	SW	
Elevation:	105	

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	2/16/1967 0:00:00	Water level:	33.899999999999999
Status:	Not Reported		

### Well Log Information:

Well log id:	1421	Well id:	1421
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	152	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1940
End construction:	01/01/1940	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

### Casing Information:

Well id:	1421	Casing id:	1212
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

### Screen Information:

Well id:	1421	Screen id:	637
Screen from:	0	Screen to:	134
Screen man:	Not Reported	Screen type:	Not Reported
Model num:	Not Reported	Screen diam:	Not Reported
Screen slotsize:	Not Reported	Date entered:	Not Reported

### Well test Recovery Information:

Wellid:	1421	Date of test:	01/01/1901
Testtype:	1	Time:	0
Waterlevel:	0		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Well Test Yield Information:

Wellid:	1421	Date of test:	01/01/1901
Test type:	1	Time:	0
Yield:	25	Drawdown:	0
Date entered:	02/01/1988		

**K45**  
**WNW**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS      USGS3277313**

Agency cd:	USGS	Site no:	473419122334702
Site name:	24N/02E-16E04	EDR Site id:	USGS3277313
Latitude:	473419	Dec lat:	47.57176315
Longitude:	1223347	Coor meth:	M
Dec lon:	-122.56430185	Latlong datum:	NAD27
Coor accr:	S	District:	53
Dec latlong datum:	NAD83	County:	035
State:	53	Land net:	SW NW S16 T24N R02E W
Country:	US	Map scale:	24000
Location map:	BREMERTON EAST		
Altitude:	85		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19620101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	102	Hole depth:	Not Reported
Source of depth data:	other reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1967-02-23
Water quality data end date:	1978-07-24	Water quality data count:	2
Ground water data begin date:	1967-02-01	Ground water data end date:	1967-02-01
Ground water data count:	1		

### Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
--	-----------------------	---------------------

1967-02-01 35

**M46**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3277308**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	473418122334901
Site name:	24N/02E-16E03	EDR Site id:	USGS3277308
Latitude:	473418	Dec lat:	47.57148536
Longitude:	1223349	Coor meth:	M
Dec lon:	-122.56485743	Latlong datum:	NAD27
Coor accr:	S	District:	53
Dec latlong datum:	NAD83	County:	035
State:	53	Land net:	SW NW S16 T24N R02E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	95		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19670101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	32	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1967-02-01	Ground water data end date:	1967-02-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
1967-02-01	23	

**M47**  
**West**  
**1/2 - 1 Mile**  
**Higher**

WA WELLS WAK10000003531

Well id:	1431
Doe site id:	Not Reported
Usgs site id:	473417122335401
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-16E01
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	16
Quarter quarter1:	SW
Quarter quarter2:	NW

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elevation:	100		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	3/1/1956 0:00:00	Water level:	30
Status:	Not Reported		

### Well Log Information:

Well log id:	1431	Well id:	1431
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	114	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1956
End construction:	01/01/1956	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

### Casing Information:

Well id:	1431	Casing id:	1220
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

### Screen Information:

Well id:	1431	Screen id:	639
Screen from:	0	Screen to:	109
Screen man:	Not Reported	Screen type:	Not Reported
Model num:	Not Reported	Screen diam:	Not Reported
Screen slotsize:	Not Reported	Date entered:	Not Reported

### Well test Recovery Information:

Wellid:	1431	Date of test:	01/01/1901
Testtype:	1	Time:	2
Waterlevel:	85		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Well Test Yield Information:

Wellid:	1431	Date of test:	01/01/1901
Test type:	1	Time:	2
Yield:	20	Drawdown:	0
Date entered:	02/01/1988		

**L48**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3277289**

Agency cd:	USGS	Site no:	473411122335001
Site name:	24N/02E-16M01		
Latitude:	473411	EDR Site id:	USGS3277289
Longitude:	1223350	Dec lat:	47.56954092
Dec lon:	-122.56513517	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NW SW S16 T24N R02E W
Location map:	BREMERTON EAST	Map scale:	24000
Altitude:	105		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	19400101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	152	Hole depth:	Not Reported
Source of depth data:	other reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1967-05-11
Water quality data end date:	1978-07-24	Water quality data count:	2
Ground water data begin date:	1967-02-16	Ground water data end date:	1967-02-16
Ground water data count:	1		

### Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
--	-----------------------	---------------------

1967-02-16 34

**49**  
**SW**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS      WA6000000013332**

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	18260	Pwssrcid:	0276201
Oid :	2403	Pwsid:	02762
Srcnum:	01	Systemname:	COYOTE FLATS #2
Systemgrp:	B	Systemtype:	GRPB
Region:	Southwest	County:	KITSAP
Srcname:	WELL #1COYOTE FLATS #2	Srctype:	Ground Water - Well
Srcuse:	Permanent		
Longitude:	-122.563		
Latitude:	47.56477		
Locmethod:	Quarter Quarter Section	Srcsuscept:	Not Rated
Dayphone:	(360) 871-0500	Addr1:	MANCHESTER WATER DISTRICT
Addr2:	PO BOX 98	City:	MANCHESTER
State:	WA	Zip:	98353
Emailaddr:	doconnell@manchesterwater.org	Site id:	WA6000000013332

50  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

WA WELLS WAK10000003451

Well id:	532962758		
Doe site id:	AFP132		
Usgs site id:	Not Reported		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-16M05		
Water right permit no:	Not Reported		
Parcel id:	16240230092003		
Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	NW		
Quarter quarter2:	SW		
Elevation:	180		
Well address:	BEAVER CREEK ROAD		
Well city:	PORT ORCHARD		
Well state:	WA		
Well zip:	Not Reported		
Date entered:	1/28/2003 9:24:47		
Owner first:	JEFF		
Owner last:	MILLER		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	12/2/2002 0:00:00	Water level:	88
Status:	Not Reported		

Well Log Information:			
Well log id:	356802511	Well id:	532962758
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Cable
Diameter of well:	6	Well depth drilled:	133
Well depth completed:	133	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	12/02/2002
End construction:	12/02/2002	Date entered:	01/28/2003

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Fieldchecked by kpu: 0	Water temp: 0
chem anal: 1	Artpress date: Not Reported
Art flow: 0	Artflow date: Not Reported
Artpress: Not Reported	Artcontrol: Not Reported
Art elevation: Not Reported	By whom: by Driller
Bailer airtest yn: 0	perf yn: 0
screens yn: 1	Gravel packyn: 0
Surface seal yn: 1	Well test yn: 1
Survey date: Not Reported	

### Geologic Information:

Well id: 532962758	Geolog id: -198063347
Geolog from: 123	Geolog to: 133
Material: GREY SAND GRAVEL W/B	
Date entered: 01/28/2003	
Well id: 532962758	Geolog id: -1297177909
Geolog from: 0	Geolog to: 38
Material: BROWN CLAY SAND	
Date entered: 01/28/2003	
Well id: 532962758	Geolog id: 1253375920
Geolog from: 38	Geolog to: 51
Material: BROWN CLAY ROCKS	
Date entered: 01/28/2003	
Well id: 532962758	Geolog id: 998838769
Geolog from: 51	Geolog to: 92
Material: GREY CLAY SAND	
Date entered: 01/28/2003	
Well id: 532962758	Geolog id: 611757406
Geolog from: 91	Geolog to: 108
Material: GREY CLAY SAND SEEP	
Date entered: 01/28/2003	
Well id: 532962758	Geolog id: 169799047
Geolog from: 108	Geolog to: 123
Material: GREY CLAY ROCKS SEEP	
Date entered: 01/28/2003	

### Casing Information:

Well id: 532962758	Casing id: 1406718308
Casing from: 0	Casing to: 133
Casing diameter: 6	Casing thickness: Not Reported
Casing type: Welded	Date entered: 01/28/2003

### Screen Information:

Well id: 532962758	Screen id: -298015083
Screen from: 128	Screen to: 133
Screen man: COOK	Screen type: SS
Model num: Not Reported	Screen diam: 1
Screen slotsize: Not Reported	Date entered: 01/28/2003

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

### Seal Information:

Well id:	532962758	Seal id:	-627890638
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	Bentonite	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	Not Reported
Seal method:	Not Reported	Date entered:	01/28/2003

### Waterlevel Information:

Wellid:	532962758	Wlid:	1820539907
Wldate:	12/02/2002	Waterlevel:	88
Status:	ST	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	Not Reported		
Remark:	PUMPING TEST DONE BY DRILLER		

Wellid:	532962758	Wlid:	-345088182
Wldate:	11/20/2002	Waterlevel:	Not Reported
Status:	Not Reported	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	2		
Remark:	BKCHD/LUM		

Wellid:	532962758	Wlid:	750534280
Wldate:	12/02/2002	Waterlevel:	108
Status:	P	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	Not Reported		
Remark:	PUMPING 16 GPM AT 20 FT DRAWDOWN AFTER ONE HOUR		

### Well Test Yield Information:

Wellid:	532962758	Date of test:	12/02/2002
Test type:	2	Time:	2
Yield:	12	Drawdown:	20
Date entered:	01/28/2003		

### Water Quality Information:

Sample id:	-146461207	Well id:	532962758
Sample id:	12/3/02	sample date:	12/03/2002
Treated YN:	0		
Comments:	Collected by Holland Pump. Twiss Lab#01082252		

N51  
NNW  
1/2 - 1 Mile  
Higher

WA WELLS WAK100000003562

Well id:	1447
Doe site id:	Not Reported
Usgs site id:	473423122335501
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-16E04
Water right permit no:	Not Reported
Parcel id:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	SW		
Quarter quarter2:	NW		
Elevation:	100		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	Not Reported	Water level:	Not Reported
Status:	Not Reported		

### Well Log Information:

Well log id:	1447	Well id:	1447
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	86	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1949
End construction:	01/01/1949	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

### Casing Information:

Well id:	1447	Casing id:	1234
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

### Well test Recovery Information:

Wellid:	1447	Date of test:	01/01/1901
Testtype:	1	Time:	0
Waterlevel:	0		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Well Test Yield Information:

Wellid:	1447	Date of test:	01/01/1901
Test type:	1	Time:	0
Yield:	8	Drawdown:	0
Date entered:	02/01/1988		

**052**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS** **WAK100000003398**

Well id:	5216		
Doe site id:	AAB493		
Usgs site id:	473336122331601		
Internal project no:	Not Reported		
Local name:	MANCHESTER WD WELL 11		
Local number:	24N/02E-21B04		
Water right permit no:	Not Reported		
Parcel id:	45800160050001		
Township:	24		
Range:	2		
Meridian:	E		
Section:	21		
Quarter quarter1:	NW		
Quarter quarter2:	NE		
Elevation:	220		
Well address:	MANCHESTER		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	5/17/1993 0:00:00		
Owner first:	Not Reported		
Owner last:	MANCHESTER WATER DISTRICT		
Owner address1:	PO BOX 98		
Owner address2:	Not Reported		
Owner city:	MANCHESTER		
Owner state:	WA		
Owner zip:	Not Reported		
WI date:	5/22/1989 0:00:00	Water level:	122.40000000000001
Status:	Not Reported		

### Well Log Information:

Well log id:	5202	Well id:	5216
Startcard:	027777	Waterright permitno:	Not Reported
Proposed use:	Municipal	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Not Reported
Diameter of well:	8	Well depth drilled:	277
Well depth completed:	277	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	03/31/1989
End construction:	05/26/1989	Date entered:	05/17/1993
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	1	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	by Driller
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	1
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Geologic Information:

Well id:	5216	Geolog id:	11898
Geolog from:	0	Geolog to:	6
Material:	BROWN SAND		
Date entered:	05/17/1993		
Well id:	5216	Geolog id:	11899
Geolog from:	6	Geolog to:	20
Material:	BROWN SANDY CLAY		
Date entered:	05/17/1993		
Well id:	5216	Geolog id:	11900
Geolog from:	20	Geolog to:	26
Material:	BROWN CLAYEY SAND		
Date entered:	05/17/1993		
Well id:	5216	Geolog id:	11901
Geolog from:	26	Geolog to:	31
Material:	BROWN MEDIUM SAND		
Date entered:	05/17/1993		
Well id:	5216	Geolog id:	11902
Geolog from:	31	Geolog to:	50
Material:	BROWN FINE-MEDIUM SAND		
Date entered:	05/17/1993		
Well id:	5216	Geolog id:	11903
Geolog from:	50	Geolog to:	61
Material:	BROWN FINE-MEDIUM SAND, WATER		
Date entered:	05/17/1993		
Well id:	5216	Geolog id:	11904
Geolog from:	61	Geolog to:	122
Material:	BLUECLAY		
Date entered:	05/17/1993		
Well id:	5216	Geolog id:	21984
Geolog from:	122	Geolog to:	125
Material:	GREEN CLAY		
Date entered:	Not Reported		
Well id:	5216	Geolog id:	21985
Geolog from:	125	Geolog to:	128
Material:	BLUE SAND & GRAVEL, WATER		
Date entered:	Not Reported		
Well id:	5216	Geolog id:	21986
Geolog from:	128	Geolog to:	159
Material:	GRAY CLAY		
Date entered:	Not Reported		
Well id:	5216	Geolog id:	21987
Geolog from:	159	Geolog to:	170
Material:	DARK GRAY SAND & GRAVEL, WATER		
Date entered:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	5216	Geolog id:	21988
Geolog from:	170	Geolog to:	172
Material:	GRAVEL, BOULDER		
Date entered:	Not Reported		
Well id:	5216	Geolog id:	21989
Geolog from:	172	Geolog to:	204
Material:	CEMENTED GRAY SILTY SAND & GRAVEL		
Date entered:	Not Reported		
Well id:	5216	Geolog id:	21990
Geolog from:	204	Geolog to:	212
Material:	SILTY CEMENTED SAND&GRAV.,SOME CLAY		
Date entered:	Not Reported		
Well id:	5216	Geolog id:	21991
Geolog from:	212	Geolog to:	225
Material:	GREEN GRAVELLY CLAY & SAND		
Date entered:	Not Reported		
Well id:	5216	Geolog id:	21992
Geolog from:	225	Geolog to:	230
Material:	GREEN SAND W , CLAY LAYERS		
Date entered:	Not Reported		
Well id:	5216	Geolog id:	21993
Geolog from:	230	Geolog to:	232
Material:	GREEN-BROWN SANDY CLAY		
Date entered:	Not Reported		
Well id:	5216	Geolog id:	21994
Geolog from:	232	Geolog to:	254
Material:	BROWN SAND W , MINOR GRAVEL, WATER		
Date entered:	Not Reported		
Well id:	5216	Geolog id:	21995
Geolog from:	254	Geolog to:	267
Material:	BROWN GRAVEL & SAND, WATER		
Date entered:	Not Reported		
Well id:	5216	Geolog id:	21996
Geolog from:	267	Geolog to:	270
Material:	SAND & GRAVEL W , SILTY CLAY LAYERS		
Date entered:	Not Reported		
Well id:	5216	Geolog id:	21997
Geolog from:	270	Geolog to:	277
Material:	BRN.SILTY FN-MED.SAND,OCC.GRAV.,H2O		
Date entered:	Not Reported		
Casing Information:			
Well id:	5216	Casing id:	4728
Casing from:	-2	Casing to:	253.90000000000001
Casing diameter:	8	Casing thickness:	0
Casing type:	Welded	Date entered:	05/17/1993

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Screen Information:

Well id:	5216	Screen id:	3060
Screen from:	264	Screen to:	269.19999999999999
Screen man:	COOK	Screen type:	SS
Model num:	Not Reported	Screen diam:	8
Screen slotsize:	.02	Date entered:	Not Reported

Well id:	5216	Screen id:	3061
Screen from:	254	Screen to:	255.90000000000001
Screen man:	Not Reported	Screen type:	SS
Model num:	Not Reported	Screen diam:	8
Screen slotsize:	.0149999999999999	Date entered:	Not Reported

Well id:	5216	Screen id:	3062
Screen from:	256	Screen to:	264.10000000000002
Screen man:	Not Reported	Screen type:	SS
Model num:	Not Reported	Screen diam:	8
Screen slotsize:	.080000000000000002	Date entered:	Not Reported

### Seal Information:

Well id:	5216	Seal id:	2496
Seal top:	0	Seal bottom:	2.0E+001
Seal material:	BENTONITE	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	0
Seal method:	Not Reported	Date entered:	05/17/1993

### Well test Recovery Information:

Wellid:	5216	Date of test:	05/25/1989
Testtype:	1	Time:	1
Waterlevel:	200		

Wellid:	5216	Date of test:	05/25/1989
Testtype:	1	Time:	10
Waterlevel:	133.3199999999999		

Wellid:	5216	Date of test:	05/25/1989
Testtype:	1	Time:	11
Waterlevel:	129.1699999999999		

Wellid:	5216	Date of test:	05/25/1989
Testtype:	1	Time:	195
Waterlevel:	126.3499999999999		

Wellid:	5216	Date of test:	05/25/1989
Testtype:	1	Time:	435
Waterlevel:	125.2		

Wellid:	5216	Date of test:	05/25/1989
Testtype:	1	Time:	1170
Waterlevel:	124.4599999999999		

### Well Test Yield Information:

Wellid:	5216	Date of test:	05/25/1989
Test type:	1	Time:	24
Yield:	80	Drawdown:	113.5
Date entered:	05/17/1993		

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

### Water Quality Information:

Sample id: -1738565678 Well id: 5216  
Sample id: 9/19/97 sample date: 09/19/1997  
Treated YN: 0  
Comments: COLLECTED BY MANCHESTER WATER. TWISS LAB#01018457

Sample id: -472221442 Well id: 5216  
Sample id: 4/13/99 sample date: 04/13/1999  
Treated YN: 0  
Comments: COLLECTED BY MANCHESTER WATER. TWISS LAB#01033710

Sample id: -1186991758 Well id: 5216  
Sample id: 7/22/93 sample date: 07/22/1993  
Treated YN: 0  
Comments: COLLECTED BY DON HOSKINSON. DEPARTMENT OF HEALTH LAB#10104236

Sample id: -1358345648 Well id: 5216  
Sample id: 9/28/98 sample date: 09/28/1998  
Treated YN: 0  
Comments: COLLECTED BY MANCHESTER WATER. TWISS LAB#01028558

Sample id: 1293 Well id: 5216  
Sample id: 3/15/93 sample date: 03/15/1993  
Treated YN: 0  
Comments: COLLECTED BY JACK MASTERS. DEPARTMENT OF HELTH LAB#5114410

Sample id: 1294 Well id: 5216  
Sample id: 3/18/93 sample date: 03/18/1993  
Treated YN: 0  
Comments: DEPARTMENT OF HEALTH PUBLIC LAB#5407357

Sample id: 2533 Well id: 5216  
Sample id: 5/26/89 sample date: 05/26/1989  
Treated YN: 0  
Comments: COLLECTED BY ROBINSON & NOBLE. WATER MANAGEMENT LAB#8903425

Sample id: 1272436273 Well id: 5216  
Sample id: 4/29/96 sample date: 04/29/1996  
Treated YN: 0  
Comments: COLLECTED BY DON HOSKINSON. TWISS LAB#01008144. CN done by Sound Analytical Services; Lab Code:107.

**P53**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

WA WELLS WAK100000003587

Well id: 1463  
Doe site id: Not Reported  
Usgs site id: 473435122334301  
Internal project no: Not Reported  
Local name: Not Reported  
Local number: 24N/02E-16D01  
Water right permit no: Not Reported  
Parcel id: Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	NW		
Quarter quarter2:	NW		
Elevation:	90		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	6/15/1982 0:00:00	Water level:	15
Status:	Not Reported		

### Well Log Information:

Well log id:	1463	Well id:	1463
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	AIR ROTARY
Diameter of well:	Not Reported	Well depth drilled:	340
Well depth completed:	340	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	06/14/1982
End construction:	06/14/1982	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	1
Survey date:	Not Reported		

### Casing Information:

Well id:	1463	Casing id:	1245
Casing from:	0	Casing to:	20
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

### Seal Information:

Well id:	1463	Seal id:	429
Seal top:	Not Reported	Seal bottom:	1.8E+001
Seal material:	BENTONITE	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	0
Seal method:	Not Reported	Date entered:	02/01/1988

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well test Recovery Information:

Wellid:	1463	Date of test:	06/15/1982
Testtype:	1	Time:	1
Waterlevel:	0		

Well Test Yield Information:

Wellid:	1463	Date of test:	06/15/1982
Test type:	1	Time:	1
Yield:	1	Drawdown:	0
Date entered:	02/01/1988		

54  
West  
1/2 - 1 Mile  
Higher

**FED USGS      USGS3277304**

Agency cd:	USGS	Site no:	473417122335401
Site name:	24N/02E-16E02		
Latitude:	473417	EDR Site id:	USGS3277304
Longitude:	1223354	Dec lat:	47.57120756
Dec lon:	-122.5662464	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	SW NW S16 T24N R02E W
Location map:	BREMERTON EAST	Map scale:	24000
Altitude:	95		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Undulating		
Site type:	Ground-water other than Spring	Date construction:	19560101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	114	Hole depth:	Not Reported
Source of depth data:	other reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1967-05-11
Water quality data end date:	1978-07-24	Water quality data count:	2
Ground water data begin date:	1956-03-01	Ground water data end date:	1956-03-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1956-03-01	30	

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Database	EDR ID Number	
Direction			
Distance			
Elevation			
<b>55</b>	<b>WA WELLS</b>	<b>WAK100000003487</b>	
<b>West</b>			
<b>1/2 - 1 Mile</b>			
<b>Higher</b>			
Well id:	1412		
Doe site id:	Not Reported		
Usgs site id:	473409122335901		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-17J01		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	17		
Quarter quarter1:	NE		
Quarter quarter2:	SE		
Elevation:	100		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	7/20/1988 0:00:00		
Owner first:	KEVIN		
Owner last:	KILBRIDGE		
Owner address1:	6350 E BEAVER CREEK ROAD		
Owner address2:	Not Reported		
Owner city:	PORT ORCHARD		
Owner state:	WA		
Owner zip:	98366		
WI date:	2/14/1987 0:00:00	Water level:	
Status:	Not Reported	36	
Well Log Information:			
Well log id:	1412	Well id:	1412
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Rotary
Diameter of well:	6	Well depth drilled:	154
Well depth completed:	154	Elevation:	Not Reported
Pumpman:	BERKELEY	Pumptype:	SUB
Pump modelno:	1/2 HP	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	02/12/1987
End construction:	02/14/1987	Date entered:	07/20/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	0
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Geologic Information:

Well id: 1412 Geolog id: 2296  
 Geolog from: 0 Geolog to: 2  
 Material: BROWN SAND GRAVEL SOME CLAY  
 Date entered: 07/26/1988

Well id: 1412 Geolog id: 2297  
 Geolog from: 2 Geolog to: 3  
 Material: BRN SAND GRVL SOME CLAY SEEPS H2O  
 Date entered: 07/26/1988

Well id: 1412 Geolog id: 2298  
 Geolog from: 3 Geolog to: 17  
 Material: BRN SAND GRVL CLAY STRAKS S,G,CL  
 Date entered: 07/26/1988

Well id: 1412 Geolog id: 2299  
 Geolog from: 17 Geolog to: 50  
 Material: BROWN CLAY  
 Date entered: 07/26/1988

Well id: 1412 Geolog id: 2300  
 Geolog from: 50 Geolog to: 101  
 Material: GRAY CLAY  
 Date entered: 07/26/1988

Well id: 1412 Geolog id: 2301  
 Geolog from: 101 Geolog to: 109  
 Material: GRAY SAND WATER  
 Date entered: 07/26/1988

Well id: 1412 Geolog id: 2302  
 Geolog from: 109 Geolog to: 140  
 Material: GRAY CLAY  
 Date entered: 07/26/1988

Well id: 1412 Geolog id: 56632  
 Geolog from: 140 Geolog to: 154  
 Material: GRAY SAND WATER  
 Date entered: 02/20/1997

### Casing Information:

Well id: 1412 Casing id: 1204  
 Casing from: 0 Casing to: 148  
 Casing diameter: 6 Casing thickness: 0  
 Casing type: Not Reported Date entered: 07/20/1988

### Screen Information:

Well id: 1412 Screen id: 634  
 Screen from: 149 Screen to: 154  
 Screen man: JOHNSON Screen type: SS  
 Model num: Not Reported Screen diam: 6  
 Screen slotsize: .01799999999999999 Date entered: Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

**Seal Information:**

Well id:	1412	Seal id:	418
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	BENTONITE	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	0
Seal method:	Not Reported	Date entered:	07/20/1988

**Well Test Yield Information:**

Wellid:	1412	Date of test:	02/14/1987
Test type:	2	Time:	1
Yield:	20	Drawdown:	15
Date entered:	05/27/1996		

**Q56**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS** **WA6000000013287**

Objectid:	9828	Pwssrcid:	5070011
Oid :	14174	Pwsid:	50700
Srcnum:	11	Systemname:	MANCHESTER WATER DISTRICT
Systemgrp:	A	Systemtype:	Comm
Region:	Southwest	County:	KITSAP
Srcname:	WELL # 11 AAB493	Srctype:	Ground Water - Well
Srcuse:	Permanent		
Longitude:	-122.55513		
Latitude:	47.56148		
Locmethod:	GPS	Srcsuscept:	Low
Dayphone:	(360) 871-0500	Addr1:	MANCHESTER WATER DISTRICT
Addr2:	PO BOX 98	City:	MANCHESTER
State:	WA	Zip:	98353
Emailaddr:	doconnell@manchesterwater.org	Site id:	WA6000000013287

**P57**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS** **USGS3277355**

Agency cd:	USGS	Site no:	473435122334301
Site name:	24N/02E-16D01		
Latitude:	473435	EDR Site id:	USGS3277355
Longitude:	1223343	Dec lat:	47.5762076
Dec lon:	-122.56319081	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NW NW S16 T24N R02E W
Location map:	BREMERTON EAST	Map scale:	24000
Altitude:	90		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19820614
Date inventoried:	Not Reported	Mean greenwich time offset:	PST

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag: Y  
 Type of ground water site: Single well, other than collector or Ranney type  
 Aquifer Type: Not Reported  
 Aquifer: Not Reported  
 Well depth: 340 Hole depth: 340  
 Source of depth data: driller  
 Project number: Not Reported  
 Real time data flag: 0 Daily flow data begin date: 0000-00-00  
 Daily flow data end date: 0000-00-00 Daily flow data count: 0  
 Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00  
 Peak flow data count: 0 Water quality data begin date: 0000-00-00  
 Water quality data end date: 0000-00-00 Water quality data count: 0  
 Ground water data begin date: 1982-06-15 Ground water data end date: 1982-06-15  
 Ground water data count: 1

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1982-06-15	15	

**Q58**  
**South**  
**1/2 - 1 Mile**  
**Higher**

WA WELLS WA6000000013285

Objectid:	9827	Pwssrcid:	5070010
Oid :	14173	Pwsid:	50700
Srcnum:	10	Systemname:	MANCHESTER WATER DISTRICT
Systemgrp:	A	Systemtype:	Comm
Region:	Southwest	County:	KITSAP
Srcname:	WELL #10 AAB743	Srctype:	Ground Water - Well
Srcuse:	Permanent		
Longitude:	-122.55505	Srcsuscept:	Low
Latitude:	47.56133	Addr1:	MANCHESTER WATER DISTRICT
Locmethod:	GPS	City:	MANCHESTER
Dayphone:	(360) 871-0500	Zip:	98353
Addr2:	PO BOX 98	Site id:	WA6000000013285
State:	WA		
Emailaddr:	doconnell@manchesterwater.org		

**O59**  
**South**  
**1/2 - 1 Mile**  
**Higher**

WA WELLS WAK100000003376

Well id:	5391
Doe site id:	AAB492
Usgs site id:	473337122331301
Internal project no:	Not Reported
Local name:	MANCHESTER WD WELL 10
Local number:	24N/02E-21B05
Water right permit no:	Not Reported
Parcel id:	45800160050001

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Township:	24		
Range:	2		
Meridian:	E		
Section:	21		
Quarter quarter1:	NW		
Quarter quarter2:	NE		
Elevation:	220		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	5/17/1993 0:00:00		
Owner first:	Not Reported		
Owner last:	MANCHESTER WATER DISTRICT		
Owner address1:	PO BOX 98		
Owner address2:	Not Reported		
Owner city:	MANCHESTER		
Owner state:	WA		
Owner zip:	98353		
WI date:	8/4/1988 0:00:00	Water level:	175.75
Status:	Not Reported		

### Well Log Information:

Well log id:	11188	Well id:	5391
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Municipal	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Cable
Diameter of well:	8	Well depth drilled:	359
Well depth completed:	356	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	05/18/1988
End construction:	08/05/1988	Date entered:	02/21/1997
Fieldchecked by kpud:	0	Water temp:	49.5
chem anal:	1	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	RONBINSON & NOBLES
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	1
Survey date:	Not Reported		

### Geologic Information:

Well id:	5391	Geolog id:	12743
Geolog from:	0	Geolog to:	2
Material:	FILL		
Date entered:	09/21/1988		
Well id:	5391	Geolog id:	12744
Geolog from:	2	Geolog to:	10
Material:	BROWN SAND		
Date entered:	09/21/1988		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	5391	Geolog id:	12745
Geolog from:	10	Geolog to:	19
Material:	BROWN SANDY CLAY		
Date entered:	09/21/1988		
Well id:	5391	Geolog id:	12746
Geolog from:	19	Geolog to:	35
Material:	BROWN M-C SAND WITH SILT		
Date entered:	09/21/1988		
Well id:	5391	Geolog id:	12747
Geolog from:	35	Geolog to:	43
Material:	BROWN SAND WITH CLAY LAYERS		
Date entered:	09/21/1988		
Well id:	5391	Geolog id:	12748
Geolog from:	43	Geolog to:	58
Material:	GRAYISH BWN F-M SAND, SOME GRVL,H2O		
Date entered:	09/21/1988		
Well id:	5391	Geolog id:	12749
Geolog from:	58	Geolog to:	140
Material:	GRAY CLAY		
Date entered:	09/21/1988		
Well id:	5391	Geolog id:	22400
Geolog from:	140	Geolog to:	147
Material:	DK GRAY CLAY W ,SAND & GRAVEL		
Date entered:	Not Reported		
Well id:	5391	Geolog id:	22401
Geolog from:	147	Geolog to:	166
Material:	GRAY CLAY W ,SAND & GRAVL LAYERS,H2O		
Date entered:	Not Reported		
Well id:	5391	Geolog id:	22402
Geolog from:	166	Geolog to:	185
Material:	GRAY CLAYEY, SANDY SILT, SOME GRAVL		
Date entered:	Not Reported		
Well id:	5391	Geolog id:	22403
Geolog from:	185	Geolog to:	215
Material:	SILT TO SILTY CLAY, SOME SAND&GRAVL		
Date entered:	Not Reported		
Well id:	5391	Geolog id:	22404
Geolog from:	215	Geolog to:	224
Material:	GRAY SANDY SILT		
Date entered:	Not Reported		
Well id:	5391	Geolog id:	22405
Geolog from:	224	Geolog to:	225
Material:	LAMINATED CLAY		
Date entered:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	5391	Geolog id:	22406
Geolog from:	225	Geolog to:	243
Material:	BROWN SILTY SAND, MINOR WATER		
Date entered:	Not Reported		
Well id:	5391	Geolog id:	22407
Geolog from:	243	Geolog to:	267
Material:	GRY-BRN S & G PARTLY CEMENTD, H2O		
Date entered:	Not Reported		
Well id:	5391	Geolog id:	22408
Geolog from:	267	Geolog to:	284
Material:	RED-BRN S & G PARTLY CEMENTD, H2O		
Date entered:	Not Reported		
Well id:	5391	Geolog id:	22409
Geolog from:	284	Geolog to:	292
Material:	BRN SAND & GRAVEL IN SILT		
Date entered:	Not Reported		
Well id:	5391	Geolog id:	22410
Geolog from:	292	Geolog to:	295
Material:	BRN SAND, WATER		
Date entered:	Not Reported		
Well id:	5391	Geolog id:	22411
Geolog from:	295	Geolog to:	311
Material:	GRAY SAND, SOME GRAVEL, WATER		
Date entered:	Not Reported		
Well id:	5391	Geolog id:	22412
Geolog from:	311	Geolog to:	321
Material:	GRAY SAND & GRAVEL IN SILT & CLAY		
Date entered:	Not Reported		
Well id:	5391	Geolog id:	22413
Geolog from:	321	Geolog to:	326
Material:	BRN->RED-BRN SAND & GRAVEL, WATER		
Date entered:	Not Reported		
Well id:	5391	Geolog id:	22414
Geolog from:	326	Geolog to:	331
Material:	BRN SAND & GRAVEL IN SILT		
Date entered:	Not Reported		
Well id:	5391	Geolog id:	22415
Geolog from:	331	Geolog to:	350
Material:	RED-BRN TO GRY-BRN S & G, H2O		
Date entered:	Not Reported		
Well id:	5391	Geolog id:	22416
Geolog from:	350	Geolog to:	359
Material:	BRN->GRY S,SOME G,BECOMES SILTY,H2O		
Date entered:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Casing Information:

Well id:	5391	Casing id:	4900
Casing from:	-1.8	Casing to:	331
Casing diameter:	8	Casing thickness:	0
Casing type:	Not Reported	Date entered:	05/17/1993

### Screen Information:

Well id:	5391	Screen id:	3219
Screen from:	329	Screen to:	350.39999999999998
Screen man:	JOHNSON	Screen type:	SS
Model num:	Not Reported	Screen diam:	8
Screen slotsize:	.0599999999999998	Date entered:	Not Reported

### Seal Information:

Well id:	5391	Seal id:	2690
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	BENTONITE	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	0
Seal method:	Not Reported	Date entered:	05/17/1993

### Well test Recovery Information:

Wellid:	5391	Date of test:	08/04/1988
Testtype:	1	Time:	1
Waterlevel:	214.6999999999999		

Wellid:	5391	Date of test:	08/04/1988
Testtype:	1	Time:	5
Waterlevel:	179.84		

Wellid:	5391	Date of test:	08/04/1988
Testtype:	1	Time:	10
Waterlevel:	180.2899999999999		

Wellid:	5391	Date of test:	08/04/1988
Testtype:	1	Time:	20
Waterlevel:	180.12		

Wellid:	5391	Date of test:	08/04/1988
Testtype:	1	Time:	30
Waterlevel:	179.53		

Wellid:	5391	Date of test:	08/04/1988
Testtype:	1	Time:	40
Waterlevel:	179.09		

Wellid:	5391	Date of test:	08/04/1988
Testtype:	1	Time:	60
Waterlevel:	178.4499999999999		

Wellid:	5391	Date of test:	08/04/1988
Testtype:	1	Time:	100
Waterlevel:	177.5399999999999		

Wellid:	5391	Date of test:	08/04/1988
Testtype:	1	Time:	240
Waterlevel:	175.8199999999999		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Test Yield Information:

Wellid:	5391	Date of test:	08/04/1988
Test type:	1	Time:	24
Yield:	310	Drawdown:	136.90000000000001
Date entered:	05/17/1993		

Water Quality Information:

Sample id:	-1983231369	Well id:	5391
Sample id:	7/22/93	sample date:	07/22/1993
Treated YN:	0		
Comments:	COLLECTED BY DON HOSKINSON. DEPARTMENT OF HEALTH LAB#10104237		

Sample id:	-802619142	Well id:	5391
Sample id:	9/19/97	sample date:	09/19/1997
Treated YN:	0		
Comments:	COLLECTED BY MANCHESTER WATER. TWISS LAB#01018456		

Sample id:	1288	Well id:	5391
Sample id:	8/5/88	sample date:	08/05/1988
Treated YN:	0		
Comments:	COLLECTED BY ROBINSON AND NOBLE. WATER MANAGEMENT LAB#8902060		

Sample id:	1289	Well id:	5391
Sample id:	3/18/93	sample date:	03/18/1993
Treated YN:	0		
Comments:	COLLECTED BY JACK MASTERS. DEPARTMENT OF HEALTH LAB#5114409.		

Sample id:	1290	Well id:	5391
Sample id:	4/15/93	sample date:	04/15/1993
Treated YN:	0		
Comments:	DEPARTMENT OF HEALTH. LAB#5225703. RESAMPLE		

Sample id:	733509560	Well id:	5391
Sample id:	9/28/98	sample date:	09/28/1998
Treated YN:	0		
Comments:	COLLECTED BY MANCHESTER WATER. TWISS LAB#01028557		

Sample id:	2142110886	Well id:	5391
Sample id:	4/13/99	sample date:	04/13/1999
Treated YN:	0		
Comments:	COLLECTED BY MANCHESTER WATER. TWISS LAB#01033709		

**N60**  
**WWN**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**      **USGS3277322**

Agency cd:	USGS	Site no:	473423122335501
Site name:	24N/02E-16E01		
Latitude:	473423	EDR Site id:	USGS3277322
Longitude:	1223355	Dec lat:	47.57287422
Dec lon:	-122.56652424	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	SW NW S16 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	100		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19490101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	86	Hole depth:	Not Reported
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

R61  
SSW  
1/2 - 1 Mile  
Higher

WA WELLS WAK100000003378

Well id:	1364
Doe site id:	Not Reported
Usgs site id:	473341122332401
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-21C02
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	21
Quarter quarter1:	NE
Quarter quarter2:	NW
Elevation:	240
Well address:	Not Reported
Well city:	Not Reported
Well state:	Not Reported
Well zip:	Not Reported
Date entered:	2/1/1988 0:00:00
Owner first:	Not Reported
Owner last:	Not Reported
Owner address1:	Not Reported
Owner address2:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Owner city:	Not Reported	Water level:	6
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	Not Reported		
Status:	Not Reported		

### Well Log Information:

Well log id:	1364	Well id:	1364
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	12	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	Not Reported
End construction:	Not Reported	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Casing Information:

Well id:	1364	Casing id:	1168
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	30	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

**S62**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS**    **WAK10000003610**

Well id:	1474
Doe site id:	Not Reported
Usgs site id:	473444122332701
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-09P01
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	9
Quarter quarter1:	SE
Quarter quarter2:	SW
Elevation:	80

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	Not Reported	Water level:	9
Status:	Not Reported		

### Well Log Information:

Well log id:	1474	Well id:	1474
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	Not Reported
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	24	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	Not Reported
End construction:	Not Reported	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Casing Information:

Well id:	1474	Casing id:	1256
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	66	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

**S63**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**      **USGS3277387**

Agency cd:	USGS	Site no:	473444122332701
Site name:	24N/02E-09P01		
Latitude:	473444	EDR Site id:	USGS3277387
Longitude:	1223327	Dec lat:	47.57870766
Dec lon:	-122.55874616	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	SE SW S09 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude: 80  
 Altitude method: Interpolated from topographic map  
 Altitude accuracy: 10  
 Altitude datum: National Geodetic Vertical Datum of 1929  
 Hydrologic: Puget Sound. Washington. Area = 2550 sq.mi.  
 Topographic: Hillside (slope)  
 Site type: Ground-water other than Spring Date construction: Not Reported  
 Date inventoried: Not Reported Mean greenwich time offset: PST  
 Local standard time flag: Y  
 Type of ground water site: Single well, other than collector or Ranney type  
 Aquifer Type: Not Reported  
 Aquifer: Not Reported  
 Well depth: 24 Hole depth: Not Reported  
 Source of depth data: reporting agency (generally USGS)  
 Project number: Not Reported  
 Real time data flag: 0 Daily flow data begin date: 0000-00-00  
 Daily flow data end date: 0000-00-00 Daily flow data count: 0  
 Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00  
 Peak flow data count: 0 Water quality data begin date: 0000-00-00  
 Water quality data end date: 0000-00-00 Water quality data count: 0  
 Ground water data begin date: 1967-02-01 Ground water data end date: 1967-02-01  
 Ground water data count: 1

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1967-02-01	9	

**R64**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**    **USGS3277193**

Agency cd: USGS Site no: 473341122332401  
 Site name: 24N/02E-21C01 EDR Site id: USGS3277193  
 Latitude: 473341 Dec lat: 47.56120773  
 Longitude: 1223324 Dec lon: -122.55791227 Coor meth: M  
 Coor accr: S Latlong datum: NAD27  
 Dec latlong datum: NAD83 District: 53  
 State: 53 County: 035  
 Country: US Land net: NE NW S21 T24N R02E W  
 Location map: Not Reported Map scale: Not Reported  
 Altitude: 235  
 Altitude method: Interpolated from topographic map  
 Altitude accuracy: 10  
 Altitude datum: National Geodetic Vertical Datum of 1929  
 Hydrologic: Puget Sound. Washington. Area = 2550 sq.mi.  
 Topographic: Not Reported  
 Site type: Ground-water other than Spring Date construction: 19670101  
 Date inventoried: Not Reported Mean greenwich time offset: PST  
 Local standard time flag: Y  
 Type of ground water site: Single well, other than collector or Ranney type  
 Aquifer Type: Not Reported  
 Aquifer: Not Reported  
 Well depth: 12 Hole depth: Not Reported  
 Source of depth data: reporting agency (generally USGS)  
 Project number: Not Reported  
 Real time data flag: 0 Daily flow data begin date: 0000-00-00  
 Daily flow data end date: 0000-00-00 Daily flow data count: 0  
 Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0  
 Water quality data end date: 0000-00-00  
 Ground water data begin date: 1967-04-01  
 Ground water data count: 1

Water quality data begin date: 0000-00-00  
 Water quality data count: 0  
 Ground water data end date: 1967-04-01

Ground-water levels, Number of Measurements: 1

	Feet below Date	Feet to Surface	Sealevel
-----			
1967-04-01	6		

65  
 SW  
 1/2 - 1 Mile  
 Higher

WA WELLS WAK100000003438

T66  
 SSE  
 1/2 - 1 Mile  
 Higher

WA WELLS WAK100000003368

Well id: 1361  
 Doe site id: Not Reported  
 Usgs site id: 473339122330201  
 Internal project no: Not Reported  
 Local name: Not Reported  
 Local number: 24N/02E-21B02  
 Water right permit no: Not Reported  
 Parcel id: Not Reported  
 Township: 24  
 Range: 2  
 Meridian: E  
 Section: 21  
 Quarter quarter1: NW  
 Quarter quarter2: NE  
 Elevation: 180  
 Well address: Not Reported  
 Well city: Not Reported  
 Well state: Not Reported  
 Well zip: Not Reported  
 Date entered: 2/1/1988 0:00:00  
 Owner first: Not Reported  
 Owner last: Not Reported  
 Owner address1: Not Reported  
 Owner address2: Not Reported  
 Owner city: Not Reported  
 Owner state: Not Reported  
 Owner zip: Not Reported  
 WI date: Not Reported  
 Status: Not Reported

Water level: 90

Well Log Information:

Well log id: 1361	Well id: 1361
Startcard: Not Reported	Waterright permitno: Not Reported
Proposed use: Not Reported	Proposed type: Not Reported
Type of work: Not Reported	Drilling method: CABLE
Diameter of well: Not Reported	Well depth drilled: Not Reported
Well depth completed: 108	Elevation: Not Reported
Pumpman: Not Reported	Pumptype: Not Reported
Pump modelno: Not Reported	Pump horsepower: Not Reported
Pump intake: 0	Start construction: Not Reported
End construction: Not Reported	Date entered: 02/01/1988

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Fieldchecked by kpu: 0	Water temp: 0
chem anal: 0	Artpress date: Not Reported
Art flow: 0	Artflow date: Not Reported
Artpress: Not Reported	Artcontrol: Not Reported
Art elevation: Not Reported	By whom: Not Reported
Bailer airtest yn: 0	perf yn: 0
screens yn: 0	Gravel packyn: 0
Surface seal yn: 0	Well test yn: 0
Survey date: Not Reported	

### Casing Information:

Well id: 1361	Casing id: 1165
Casing from: Not Reported	Casing to: Not Reported
Casing diameter: 6	Casing thickness: 0
Casing type: Not Reported	Date entered: 02/01/1988

**T67**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3277179**

Agency cd: USGS	Site no: 473339122330201
Site name: 24N/02E-21B01	
Latitude: 473339	EDR Site id: USGS3277179
Longitude: 1223302	Dec lat: 47.56065228
Dec lon: -122.55180079	Coor meth: M
Coor accr: S	Latlong datum: NAD27
Dec latlong datum: NAD83	District: 53
State: 53	County: 035
Country: US	Land net: NW NE S21 T24N R02E W
Location map: Not Reported	Map scale: Not Reported
Altitude: 180	
Altitude method: Interpolated from topographic map	
Altitude accuracy: 10	
Altitude datum: National Geodetic Vertical Datum of 1929	
Hydrologic: Puget Sound. Washington. Area = 2550 sq.mi.	
Topographic: Not Reported	
Site type: Ground-water other than Spring	Date construction: 19490101
Date inventoried: Not Reported	Mean greenwich time offset: PST
Local standard time flag: Y	
Type of ground water site: Single well, other than collector or Ranney type	
Aquifer Type: Not Reported	
Aquifer: Not Reported	
Well depth: 108	Hole depth: Not Reported
Source of depth data: owner	
Project number: Not Reported	
Real time data flag: 0	Daily flow data begin date: 0000-00-00
Daily flow data end date: 0000-00-00	Daily flow data count: 0
Peak flow data begin date: 0000-00-00	Peak flow data end date: 0000-00-00
Peak flow data count: 0	Water quality data begin date: 0000-00-00
Water quality data end date: 0000-00-00	Water quality data count: 0
Ground water data begin date: 1949-03-01	Ground water data end date: 1949-03-01
Ground water data count: 1	

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1949-03-01	90	

**U68**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS** **WAK100000003367**

Well id:	1362	
Doe site id:	Not Reported	
Usgs site id:	473339122333001	
Internal project no:	Not Reported	
Local name:	Not Reported	
Local number:	24N/02E-21C01	
Water right permit no:	Not Reported	
Parcel id:	Not Reported	
Township:	24	
Range:	2	
Meridian:	E	
Section:	21	
Quarter quarter1:	NE	
Quarter quarter2:	NW	
Elevation:	250	
Well address:	Not Reported	
Well city:	Not Reported	
Well state:	Not Reported	
Well zip:	Not Reported	
Date entered:	2/1/1988 0:00:00	
Owner first:	Not Reported	
Owner last:	Not Reported	
Owner address1:	Not Reported	
Owner address2:	Not Reported	
Owner city:	Not Reported	
Owner state:	Not Reported	
Owner zip:	Not Reported	
WI date:	1/1/1975 0:00:00	
Status:	Not Reported	
	Water level:	134

**Well Log Information:**

Well log id:	1362	Well id:	1362
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	267	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1975
End construction:	01/01/1975	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

### Casing Information:

Well id:	1362	Casing id:	1166
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

### Screen Information:

Well id:	1362	Screen id:	618
Screen from:	0	Screen to:	261
Screen man:	Not Reported	Screen type:	Not Reported
Model num:	Not Reported	Screen diam:	Not Reported
Screen slotsize:	Not Reported	Date entered:	Not Reported

### Well test Recovery Information:

Wellid:	1362	Date of test:	01/01/1901
Testtype:	1	Time:	1
Waterlevel:	241		

### Well Test Yield Information:

Wellid:	1362	Date of test:	01/01/1901
Test type:	1	Time:	1
Yield:	20	Drawdown:	0
Date entered:	02/01/1988		

**V69**

**SW**

**1/2 - 1 Mile**

**Higher**

**WA WELLS**

**WA6000000013292**

Objectid:	18067	Pwssrcid:	0229001
Oid :	1979	Pwsid:	02290
Srcnum:	01	Systemname:	COYOTE FLATS
Systemgrp:	B	Systemtype:	GRPB
Region:	Southwest	County:	KITSAP
Srcname:	COYOTE FLATS	Srctype:	Ground Water - Well
Srcuse:	Permanent		
Longitude:	-122.56361		
Latitude:	47.5625		
Locmethod:	GPS	Srcsuscept:	Not Rated
Dayphone:	(360) 779-7656	Addr1:	Not Reported
Addr2:	P O BOX 348	City:	PORT ORCHARD
State:	WA	Zip:	98366
Emailaddr:	Not Reported	Site id:	WA6000000013292

**V70**

**SW**

**1/2 - 1 Mile**

**Higher**

**WA WELLS**

**WAK100000003405**

Well id:	5003
Doe site id:	AAA991
Usgs site id:	473345122334901
Internal project no:	Not Reported
Local name:	COYOTE FLATS (SO-1)
Local number:	24N/02E-16N02
Water right permit no:	Not Reported
Parcel id:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Township:	24		
Range:	2		
Meridian:	E		
Section:	16		
Quarter quarter1:	SW		
Quarter quarter2:	SW		
Elevation:	206		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	7/23/1993 0:00:00		
Owner first:	Not Reported		
Owner last:	BRAVIN CONSTRUCTION		
Owner address1:	PO BOX 348		
Owner address2:	Not Reported		
Owner city:	PORT ORCHARD		
Owner state:	WA		
Owner zip:	98366		
WI date:	11/13/1992 0:00:00	Water level:	126
Status:	Not Reported		

### Well Log Information:

Well log id:	4986	Well id:	5003
Startcard:	200875	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Not Reported
Diameter of well:	6	Well depth drilled:	298
Well depth completed:	298	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	10/16/1992
End construction:	11/13/1992	Date entered:	07/23/1993
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	0
Survey date:	Not Reported		

### Geologic Information:

Well id:	5003	Geolog id:	10797
Geolog from:	0	Geolog to:	22
Material:	BROWN CLAY, SAND		
Date entered:	05/12/1993		
Well id:	5003	Geolog id:	10798
Geolog from:	22	Geolog to:	34
Material:	BLUECLAY		
Date entered:	05/12/1993		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	5003	Geolog id:	10799
Geolog from:	34	Geolog to:	77
Material:	BROWN CLAY, SAND		
Date entered:	05/12/1993		
Well id:	5003	Geolog id:	10800
Geolog from:	77	Geolog to:	96
Material:	HARD BROWN TILL		
Date entered:	05/12/1993		
Well id:	5003	Geolog id:	10801
Geolog from:	96	Geolog to:	99
Material:	BROWN SAND & GRAVEL, SEEP		
Date entered:	05/12/1993		
Well id:	5003	Geolog id:	10802
Geolog from:	99	Geolog to:	103
Material:	DRY GRAY TILL		
Date entered:	05/12/1993		
Well id:	5003	Geolog id:	10803
Geolog from:	103	Geolog to:	116
Material:	BLUECLAY, SMALL ROCKS		
Date entered:	05/12/1993		
Well id:	5003	Geolog id:	21430
Geolog from:	116	Geolog to:	125
Material:	BLUECLAY		
Date entered:	Not Reported		
Well id:	5003	Geolog id:	21431
Geolog from:	125	Geolog to:	126
Material:	BROWN TILL, SEEPS		
Date entered:	Not Reported		
Well id:	5003	Geolog id:	21432
Geolog from:	126	Geolog to:	182
Material:	BROWN TILL		
Date entered:	Not Reported		
Well id:	5003	Geolog id:	21433
Geolog from:	182	Geolog to:	291
Material:	GRAY CLAY, SAND, SEEP		
Date entered:	Not Reported		
Well id:	5003	Geolog id:	21434
Geolog from:	291	Geolog to:	298
Material:	GRAY SAND & GRAVEL, WATER-BEARING		
Date entered:	Not Reported		
Well id:	5003	Geolog id:	21435
Geolog from:	298	Geolog to:	298.00999999999999
Material:	FINE GRAY SAND, SEEP		
Date entered:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Casing Information:

Well id:	5003	Casing id:	4504
Casing from:	0	Casing to:	293
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	05/12/1993

### Screen Information:

Well id:	5003	Screen id:	2847
Screen from:	293	Screen to:	298
Screen man:	JOHNSON	Screen type:	SS
Model num:	Not Reported	Screen diam:	5
Screen slotsize:	.02	Date entered:	Not Reported

### Seal Information:

Well id:	5003	Seal id:	2257
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	BENTONITE	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	0
Seal method:	Not Reported	Date entered:	05/12/1993

### Well Test Yield Information:

Wellid:	5003	Date of test:	11/19/1992
Test type:	2	Time:	3
Yield:	15	Drawdown:	42
Date entered:	05/27/1996		

### Water Quality Information:

Sample id:	1273	Well id:	5003
Sample id:	11/12/92	sample date:	11/12/1992
Treated YN:	0		
Comments:	COLLECTED BY OLSEN DRILLING. ORION LABS#592554102		

Sample id:	1274	Well id:	5003
Sample id:	11/29/92	sample date:	11/29/1992
Treated YN:	0		
Comments:	COLLECTED BY OSLEN DRILLING. DEPARTMENT OF HEALTH.		

Sample id:	1275	Well id:	5003
Sample id:	3/8/93	sample date:	03/08/1993
Treated YN:	0		
Comments:	COLLECTED BY OLSEN DRILLING. WATER MANAGEMENT LAB#8970841		

**W71**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS** **WAK100000003601**

Well id:	1471
Doe site id:	Not Reported
Usgs site id:	473441122334701
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-09N01
Water right permit no:	Not Reported
Parcel id:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Township:	24		
Range:	2		
Meridian:	E		
Section:	9		
Quarter quarter1:	SW		
Quarter quarter2:	SW		
Elevation:	100		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	11/22/1983 0:00:00	Water level:	21
Status:	Not Reported		

### Well Log Information:

Well log id:	1471	Well id:	1471
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	AIR ROTARY
Diameter of well:	Not Reported	Well depth drilled:	223
Well depth completed:	223	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	11/21/1983
End construction:	11/22/1983	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	1
Survey date:	Not Reported		

### Casing Information:

Well id:	1471	Casing id:	1252
Casing from:	0	Casing to:	19
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988
Well id:	1471	Casing id:	1253
Casing from:	9	Casing to:	223
Casing diameter:	4	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Screen Information:

Well id:	1471	Screen id:	653
Screen from:	160	Screen to:	210
Screen man:	Not Reported	Screen type:	Not Reported
Model num:	Not Reported	Screen diam:	Not Reported
Screen slotsize:	Not Reported	Date entered:	Not Reported

### Seal Information:

Well id:	1471	Seal id:	430
Seal top:	Not Reported	Seal bottom:	1.8E+001
Seal material:	BENTONITE	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	0
Seal method:	Not Reported	Date entered:	02/01/1988

### Well test Recovery Information:

Wellid:	1471	Date of test:	11/22/1983
Testtype:	1	Time:	2
Waterlevel:	0		

### Well Test Yield Information:

Wellid:	1471	Date of test:	11/22/1983
Test type:	1	Time:	2
Yield:	10	Drawdown:	0
Date entered:	02/01/1988		

V72

SW

1/2 - 1 Mile

Higher

WA WELLS WAK100000003400

Well id:	4996
Doe site id:	AAA886
Usgs site id:	Not Reported
Internal project no:	Not Reported
Local name:	COYOTE FLATS (SO-2)
Local number:	24N/02E-16N01
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	16
Quarter quarter1:	SW
Quarter quarter2:	SW
Elevation:	240
Well address:	6300 EAST MICHIGAN
Well city:	PORT ORCHARD
Well state:	WA
Well zip:	98366
Date entered:	2/15/1994 0:00:00
Owner first:	Not Reported
Owner last:	COYOTE FLATS
Owner address1:	Not Reported
Owner address2:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Owner city: Not Reported  
 Owner state: Not Reported  
 Owner zip: Not Reported  
 WI date: 8/24/1993 0:00:00  
 Status: Not Reported

Water level: 124

### Well Log Information:

Well log id:	4978	Well id:	4996
Startcard:	33933	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	CABLE
Diameter of well:	6	Well depth drilled:	299
Well depth completed:	299	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	08/11/1993
End construction:	08/24/1993	Date entered:	02/15/1994
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	0
Survey date:	Not Reported		

### Geologic Information:

Well id:	4996	Geolog id:	10762
Geolog from:	0	Geolog to:	22
Material:	BROWN CLAY, SAND		
Date entered:	02/15/1994		
Well id:	4996	Geolog id:	10763
Geolog from:	22	Geolog to:	31
Material:	BLUE CLAY		
Date entered:	02/15/1994		
Well id:	4996	Geolog id:	10764
Geolog from:	31	Geolog to:	100
Material:	BROWN CLAY & SAND		
Date entered:	02/15/1994		
Well id:	4996	Geolog id:	10765
Geolog from:	100	Geolog to:	124
Material:	BLUE-GRAY TILL, CLAY		
Date entered:	02/15/1994		
Well id:	4996	Geolog id:	10766
Geolog from:	124	Geolog to:	180
Material:	BROWN TILL		
Date entered:	02/15/1994		
Well id:	4996	Geolog id:	10767
Geolog from:	180	Geolog to:	293
Material:	GRAY CLAY, SAND, SEEP		
Date entered:	02/15/1994		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id: 4996 Geolog id: 10768  
 Geolog from: 293 Geolog to: 299  
 Material: GRAY SAND, GRAVEL, WATER-BEARING  
 Date entered: 02/15/1994

**Casing Information:**

Well id:	4996	Casing id:	4494
Casing from:	0	Casing to:	294
Casing diameter:	6	Casing thickness:	0
Casing type:	Welded	Date entered:	02/15/1994

**Screen Information:**

Well id:	4996	Screen id:	2841
Screen from:	94	Screen to:	99
Screen man:	JOHNSON	Screen type:	SS
Model num:	Not Reported	Screen diam:	5
Screen slotsize:	.02	Date entered:	Not Reported

**Seal Information:**

Well id:	4996	Seal id:	2250
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	CEMENT GROUT	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	0
Seal method:	Not Reported	Date entered:	02/15/1994

**Well Test Yield Information:**

Wellid:	4996	Date of test:	08/24/1993
Test type:	2	Time:	3
Yield:	18	Drawdown:	62
Date entered:	05/27/1996		

**Water Quality Information:**

Sample id:	1272	Well id:	4996
Sample id:	4/20/95	sample date:	04/20/1995
Treated YN:	0		
Comments:	COLLECTED BY KPU. TWISS LAB #01001804		

Sample id:	3363	Well id:	4996
Sample id:	2/17/98	sample date:	02/17/1998
Treated YN:	0		
Comments:	TWISS LAB#01022532		

73  
 South  
 1/2 - 1 Mile  
 Higher

WA WELLS WAK100000003351

Well id:	1356
Doe site id:	Not Reported
Usgs site id:	473336122331603
Internal project no:	Not Reported
Local name:	MCCORMICK WOODS WATER SYSTEM WELL 3
Local number:	23N/01E-09C03
Water right permit no:	Not Reported
Parcel id:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Township:	23		
Range:	1		
Meridian:	E		
Section:	9		
Quarter quarter1:	NE		
Quarter quarter2:	NW		
Elevation:	420		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1991 0:00:00		
Owner first:	Not Reported		
Owner last:	MCCORMICK WOODS WATER CO.		
Owner address1:	5155 MCCORMICK WOODS DRIVE SW		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	7/6/1989 0:00:00	Water level:	135
Status:	Not Reported		

### Well Log Information:

Well log id:	1356	Well id:	1356
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	CABLE
Diameter of well:	12	Well depth drilled:	229
Well depth completed:	188.30000000000001	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	06/09/1989
End construction:	07/07/1989	Date entered:	02/01/1991
Fieldchecked by kpud:	0	Water temp:	48
chem anal:	1	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	1
Survey date:	Not Reported		

### Geologic Information:

Well id:	1356	Geolog id:	16462
Geolog from:	111	Geolog to:	127
Material:	BWN SAND AND GRAVEL, DRY		
Date entered:	Not Reported		
Well id:	1356	Geolog id:	16463
Geolog from:	127	Geolog to:	145
Material:	BWN SILTY SAND		
Date entered:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	1356	Geolog id:	16464
Geolog from:	145	Geolog to:	151
Material:	BWN FINE-MED SAND, SOME WATER		
Date entered:	Not Reported		
Well id:	1356	Geolog id:	16465
Geolog from:	151	Geolog to:	157
Material:	ORANGE-BWN SAND & GRAVEL		
Date entered:	Not Reported		
Well id:	1356	Geolog id:	16466
Geolog from:	157	Geolog to:	164
Material:	BWN SILT W , PEAT, SOME GRAVEL		
Date entered:	Not Reported		
Well id:	1356	Geolog id:	16467
Geolog from:	164	Geolog to:	183
Material:	ORANGE-BWN GRAVEL & SAND, OCC SILT		
Date entered:	Not Reported		
Well id:	1356	Geolog id:	16468
Geolog from:	183	Geolog to:	203
Material:	BWN SILTY MEDIUM SAND		
Date entered:	Not Reported		
Well id:	1356	Geolog id:	16469
Geolog from:	203	Geolog to:	219
Material:	BWN GRAVEL & SAND, WATER		
Date entered:	Not Reported		
Well id:	1356	Geolog id:	16470
Geolog from:	219	Geolog to:	229
Material:	BWN FINE-MED SAND, OCC GVL, WATER		
Date entered:	Not Reported		
Well id:	1356	Geolog id:	2232
Geolog from:	24	Geolog to:	46
Material:	BWN SILT SAND & GRAVEL		
Date entered:	11/16/1990		
Well id:	1356	Geolog id:	2233
Geolog from:	46	Geolog to:	60
Material:	BWN SAND, SOME GRAVEL		
Date entered:	11/16/1990		
Well id:	1356	Geolog id:	2234
Geolog from:	60	Geolog to:	87
Material:	BWN SAND & GRAVEL, SOME WATER		
Date entered:	11/16/1990		
Well id:	1356	Geolog id:	2235
Geolog from:	87	Geolog to:	91
Material:	BWN SILT		
Date entered:	11/16/1990		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	1356	Geolog id:	2236
Geolog from:	91	Geolog to:	97
Material:	GRAY SILT		
Date entered:	11/16/1990		
Well id:	1356	Geolog id:	2237
Geolog from:	97	Geolog to:	111
Material:	GRAY SILT & GRAVEL		
Date entered:	11/16/1990		
Well id:	1356	Geolog id:	59695
Geolog from:	0	Geolog to:	24
Material:	GRAY SILT, SAND & GRAVEL		
Date entered:	07/15/1997		
<b>Casing Information:</b>			
Well id:	1356	Casing id:	1160
Casing from:	-1.8	Casing to:	172.90000000000001
Casing diameter:	12	Casing thickness:	0
Casing type:	Welded	Date entered:	11/16/1990
<b>Screen Information:</b>			
Well id:	1356	Screen id:	616
Screen from:	173	Screen to:	183.1999999999999
Screen man:	JOHNSON	Screen type:	SS
Model num:	Not Reported	Screen diam:	10
Screen slotsize:	.1000000000000001	Date entered:	Not Reported
<b>Seal Information:</b>			
Well id:	1356	Seal id:	4197
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	Bentonite	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	Not Reported
Seal method:	Not Reported	Date entered:	07/15/1997
<b>Well test Recovery Information:</b>			
Wellid:	1356	Date of test:	07/06/1989
Testtype:	1	Time:	0
Waterlevel:	148.6699999999999		
Wellid:	1356	Date of test:	07/06/1989
Testtype:	1	Time:	1
Waterlevel:	140.25		
Wellid:	1356	Date of test:	07/06/1989
Testtype:	1	Time:	3
Waterlevel:	139.4199999999999		
Wellid:	1356	Date of test:	07/06/1989
Testtype:	1	Time:	9
Waterlevel:	137.6699999999999		
Wellid:	1356	Date of test:	07/06/1989
Testtype:	1	Time:	30
Waterlevel:	136.33000000000001		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid: 1356 Date of test: 07/06/1989  
 Testtype: 1 Time: 60  
 Waterlevel: 135.75

Well Test Yield Information:

Wellid: 1356 Date of test: 07/06/1989  
 Test type: 1 Time: 6.799999999999998  
 Yield: 408 Drawdown: 13.800000000000001  
 Date entered: 11/29/1990

**U74**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3277180**

Agency cd:	USGS	Site no:	473339122333001
Site name:	24N/02E-21C02	EDR Site id:	USGS3277180
Latitude:	473339	Dec lat:	47.56065215
Longitude:	1223330	Coor meth:	M
Dec lon:	-122.55957902	Latlong datum:	NAD27
Coor accr:	F	District:	53
Dec latlong datum:	NAD83	County:	035
State:	53	Land net:	NE NW S21 T24N R02E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	250		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19750101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	267	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1975-01-01	Ground water data end date:	1975-01-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
1975-01-01	134	

**X75**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3277175**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	473338122325300
Site name:	24N/02E-21A02	EDR Site id:	USGS3277175
Latitude:	473338	Dec lat:	47.56037455
Longitude:	1223253	Coor meth:	M
Dec lon:	-122.54930064	Latlong datum:	NAD27
Coor accr:	F	District:	53
Dec latlong datum:	NAD83	County:	035
State:	53	Land net:	NE NE S21 T24N R02E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	120		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	20		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19550101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	56	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1967-04-01	Ground water data end date:	1967-04-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
1967-04-01	43	

**Y76**  
**SW**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS** **WAK100000003421**

**T77**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS** **WAK100000003352**

Well id:	1355
Doe site id:	Not Reported
Usgs site id:	473336122330201
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-21B01
Water right permit no:	Not Reported
Parcel id:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Township:	24		
Range:	2		
Meridian:	E		
Section:	21		
Quarter quarter1:	NW		
Quarter quarter2:	NE		
Elevation:	190		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	8/1/1949 0:00:00	Water level:	93
Status:	Not Reported		

### Well Log Information:

Well log id:	1355	Well id:	1355
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	111	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1949
End construction:	01/01/1949	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Casing Information:

Well id:	1355	Casing id:	1159
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

X78  
 SSE  
 1/2 - 1 Mile  
 Higher

WA WELLS WAK100000003363

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	1359		
Doe site id:	Not Reported		
Usgs site id:	473338122325300		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-21A02		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	21		
Quarter quarter1:	NE		
Quarter quarter2:	NE		
Elevation:	120		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	4/1/1967 0:00:00	Water level:	43
Status:	Not Reported		

### Well Log Information:

Well log id:	1359	Well id:	1359
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	Not Reported
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	56	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1955
End construction:	Not Reported	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Casing Information:

Well id:	1359	Casing id:	1163
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
<b>79</b> <b>South</b> <b>1/2 - 1 Mile</b> <b>Higher</b>	<b>FED USGS</b>	<b>USGS3277167</b>
Agency cd: USGS	Site no:	473336122330201
Site name: 24N/02E-21B02	EDR Site id:	USGS3277167
Latitude: 473336	Dec lat:	47.55981895
Longitude: 1223302	Coor meth:	M
Dec lon: -122.55180077	Latlong datum:	NAD27
Coor accr: F	District:	53
Dec latlong datum: NAD83	County:	035
State: 53	Land net:	NW NE S21 T24N R02E W
Country: US	Map scale:	Not Reported
Location map: Not Reported		
Altitude: 185		
Altitude method: Interpolated from topographic map		
Altitude accuracy: 10		
Altitude datum: National Geodetic Vertical Datum of 1929		
Hydrologic: Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic: Not Reported		
Site type: Ground-water other than Spring	Date construction:	19490101
Date inventoried: Not Reported	Mean greenwich time offset:	PST
Local standard time flag: Y		
Type of ground water site: Single well, other than collector or Ranney type		
Aquifer Type: Not Reported		
Aquifer: Not Reported		
Well depth: 111	Hole depth:	Not Reported
Source of depth data: owner		
Project number: Not Reported		
Real time data flag: 0	Daily flow data begin date:	0000-00-00
Daily flow data end date: 0000-00-00	Daily flow data count:	0
Peak flow data begin date: 0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count: 0	Water quality data begin date:	0000-00-00
Water quality data end date: 0000-00-00	Water quality data count:	0
Ground water data begin date: 1949-08-01	Ground water data end date:	1949-08-01
Ground water data count: 1		
Ground-water levels, Number of Measurements: 1		
	Feet below Date	Feet to Surface
		Sealevel
-----		
1949-08-01	93	

<b>W80</b> <b>NW</b> <b>1/2 - 1 Mile</b> <b>Higher</b>	<b>FED USGS</b>	<b>USGS3277376</b>
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## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	473441122334701
Site name:	24N/02E-09N01		
Latitude:	473441	EDR Site id:	USGS3277376
Longitude:	1223347	Dec lat:	47.57787424
Dec lon:	-122.56430204	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	SW SW S09 T24N R02E W
Location map:	BREMERTON EAST	Map scale:	24000
Altitude:	100		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19831121
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	223	Hole depth:	223
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1983-11-22	Ground water data end date:	1983-11-22
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1983-11-22	21	

81  
West  
1/2 - 1 Mile  
Higher

WA WELLS WAK100000003516

82  
WNW  
1/2 - 1 Mile  
Higher

WA WELLS WA6000000013406

Objectid:	5805	Pwssrcid:	2391001
Oid :	10151	Pwsid:	23910
Srcnum:	01	Systemname:	LANG, TONY
Systemgrp:	B	Systemtype:	GRPB
Region:	Southwest	County:	KITSAP
Srcname:	WELL #1	Srctype:	Ground Water - Well
Srcuse:	Permanent		
Longitude:	-122.56893		
Latitude:	47.57355		
Locmethod:	GPS	Srcsuscept:	Not Rated

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Dayphone: (360) 871-3578 Addr1: Not Reported  
 Addr2: 4456 WOODS RD SE City: PORT ORCHARD  
 State: WA Zip: 98366  
 Emailaddr: Not Reported Site id: WA6000000013406

**X83**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3277169**

Agency cd:	USGS	Site no:	473337122325102
Site name:	24N/02E-21A01	EDR Site id:	USGS3277169
Latitude:	473337	Dec lat:	47.56009678
Longitude:	1223251	Coor meth:	M
Dec lon:	-122.54874505	Latlong datum:	NAD27
Coor accr:	S	District:	53
Dec latlong datum:	NAD83	County:	035
State:	53	Land net:	NE NE S21 T24N R02E W
Country:	US	Map scale:	24000
Location map:	BREMERTON EAST		
Altitude:	120		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19570101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	125	Hole depth:	Not Reported
Source of depth data:	other reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1978-07-24
Water quality data end date:	1978-07-24	Water quality data count:	1
Ground water data begin date:	1967-04-07	Ground water data end date:	1967-04-07
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1967-04-07	86	

**Y84**  
**SW**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS      WAK100000003402**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id: 515149970  
 Doe site id: AEK537  
 Usgs site id: Not Reported  
 Internal project no: Not Reported  
 Local name: Not Reported  
 Local number: 24N/02E-16N03  
 Water right permit no: Not Reported  
 Parcel id: 45810320110108  
 Township: 24  
 Range: 2  
 Meridian: E  
 Section: 16  
 Quarter quarter1: SW  
 Quarter quarter2: SW  
 Elevation: 260  
 Well address: FARMER DELL ROAD  
 Well city: PORT ORCHARD  
 Well state: WA  
 Well zip: 98366  
 Date entered: 4/9/1999 14:22:00  
 Owner first: JEFF & PATTY  
 Owner last: WEISERT  
 Owner address1: PO BOX 1091  
 Owner address2: Not Reported  
 Owner city: PORT ORCHARD  
 Owner state: WA  
 Owner zip: 98366  
 WI date: 3/22/1999 0:00:00  
 Water level: 22.5  
 Status: Not Reported

### Well Log Information:

Well log id:	1780520363	Well id:	515149970
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Cable
Diameter of well:	6	Well depth drilled:	77
Well depth completed:	71.20000000000003	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	03/15/1999
End construction:	03/22/1999	Date entered:	04/09/1999
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	0
Survey date:	Not Reported		

### Geologic Information:

Well id:	515149970	Geolog id:	-153479443
Geolog from:	6	Geolog to:	11
Material:	BROWN AND BLUE MARBLED CLAY SAND		
Date entered:	04/09/1999		

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	515149970	Geolog id:	-1450641463
Geolog from:	71	Geolog to:	77
Material:	GRAY SILT CLAY WEEPS		
Date entered:	04/09/1999		
Well id:	515149970	Geolog id:	1733086823
Geolog from:	0	Geolog to:	1.5
Material:	PIPE STICK UP		
Date entered:	04/09/1999		
Well id:	515149970	Geolog id:	791606698
Geolog from:	11	Geolog to:	31
Material:	BLUE SANDY CLAY		
Date entered:	04/09/1999		
Well id:	515149970	Geolog id:	11588124
Geolog from:	1.5	Geolog to:	6
Material:	BROWN SAND		
Date entered:	04/09/1999		
Well id:	515149970	Geolog id:	343403235
Geolog from:	31	Geolog to:	64
Material:	BROWN FILE SAND WATER BEARING		
Date entered:	04/09/1999		
Well id:	515149970	Geolog id:	-539214872
Geolog from:	64	Geolog to:	71
Material:	GRAY FINE SAND WATER BEARING		
Date entered:	04/09/1999		
<b>Casing Information:</b>			
Well id:	515149970	Casing id:	1106374928
Casing from:	0	Casing to:	61.100000000000001
Casing diameter:	6	Casing thickness:	Not Reported
Casing type:	Welded	Date entered:	04/09/1999
<b>Screen Information:</b>			
Well id:	515149970	Screen id:	-367280175
Screen from:	60.700000000000003	Screen to:	71.200000000000003
Screen man:	JOHNSON	Screen type:	SS
Model num:	Not Reported	Screen diam:	6
Screen slotsize:	.012	Date entered:	04/09/1999
<b>Seal Information:</b>			
Well id:	515149970	Seal id:	-1267302978
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	Bentonite	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	Not Reported
Seal method:	Not Reported	Date entered:	04/09/1999
<b>Waterlevel Information:</b>			
Wellid:	515149970	Wlid:	-1594743722
Wldate:	03/24/1999	Waterlevel:	25.600004
Status:	ST	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	Not Reported		
Remark:	PUMPING TEST DONE BY DRILLER		

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	515149970	Wlid:	-1095391457
Wldate:	03/24/1999	Waterlevel:	55.2999992
Status:	P	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	Not Reported		
Remark:	PUMPING 25 GPM AT 29.7 FT DRAWDOWN AFTER ONE HOUR		

### Well Test Yield Information:

Wellid:	515149970	Date of test:	03/22/1999
Test type:	2	Time:	1
Yield:	18	Drawdown:	25
Date entered:	04/09/1999		

### Water Quality Information:

Sample id:	651442804	Well id:	515149970
Sample id:	Not Reported	sample date:	03/24/1999
Treated YN:	0		
Comments:	COLLECTED BY NICHOLSON DRILLING. TWISS LAB#01033241		

85  
SSE  
1/2 - 1 Mile  
Higher

WA WELLS WAK100000003357

Well id:	1357
Doe site id:	Not Reported
Usgs site id:	473337122325102
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-21A01
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	21
Quarter quarter1:	NE
Quarter quarter2:	NE
Elevation:	120
Well address:	Not Reported
Well city:	Not Reported
Well state:	Not Reported
Well zip:	Not Reported
Date entered:	2/1/1988 0:00:00
Owner first:	Not Reported
Owner last:	Not Reported
Owner address1:	Not Reported
Owner address2:	Not Reported
Owner city:	Not Reported
Owner state:	Not Reported
Owner zip:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

WI date: 4/7/1967 0:00:00 Water level: 85.5  
 Status: Not Reported

**Well Log Information:**

Well log id:	1357	Well id:	1357
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	125	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1957
End construction:	01/01/1957	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

**Casing Information:**

Well id:	1357	Casing id:	1161
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

**Screen Information:**

Well id:	1357	Screen id:	617
Screen from:	0	Screen to:	120
Screen man:	Not Reported	Screen type:	Not Reported
Model num:	Not Reported	Screen diam:	Not Reported
Screen slotsize:	Not Reported	Date entered:	Not Reported

**Well test Recovery Information:**

Wellid:	1357	Date of test:	01/01/1901
Testtype:	1	Time:	0
Waterlevel:	92		

**Well Test Yield Information:**

Wellid:	1357	Date of test:	01/01/1901
Test type:	1	Time:	0
Yield:	10	Drawdown:	0
Date entered:	02/01/1988		

X86  
 SSE  
 1/2 - 1 Mile  
 Higher

WA WELLS WAK100000003344

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id: 4657  
 Doe site id: AAA507  
 Usgs site id: Not Reported  
 Internal project no: Not Reported  
 Local name: REDA PRIVATE WELL  
 Local number: 24N/02E-21A03  
 Water right permit no: Not Reported  
 Parcel id: Not Reported  
 Township: 24  
 Range: 2  
 Meridian: E  
 Section: 21  
 Quarter quarter1: NE  
 Quarter quarter2: NE  
 Elevation: 140  
 Well address: 820 FT WEST AND 170 FT N FROM SE CORNER GOV LOT1  
 Well city: Not Reported  
 Well state: Not Reported  
 Well zip: Not Reported  
 Date entered: 8/19/1993 0:00:00  
 Owner first: KERMIT B  
 Owner last: JOHNSON  
 Owner address1: RT 6 BOX 144A  
 Owner address2: Not Reported  
 Owner city: PORT ORCHARD  
 Owner state: WA  
 Owner zip: 98366  
 WI date: 4/24/1959 0:00:00  
 Water level: 80  
 Status: Not Reported

### Well Log Information:

Well log id:	4642	Well id:	4657
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	CABLE
Diameter of well:	6	Well depth drilled:	126
Well depth completed:	126	Elevation:	Not Reported
Pumpman:	CONTINENTAL PUMP	Pumptype:	SUB
Pump modelno:	SM102-30 1 HP	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	04/01/1959
End construction:	04/24/1959	Date entered:	08/19/1993
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	1
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Geologic Information:

Well id:	4657	Geolog id:	9549
Geolog from:	0	Geolog to:	45
Material:	CLAY & SAND		
Date entered:	01/07/1993		

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	4657	Geolog id:	9550
Geolog from:	45	Geolog to:	58
Material:	HARDPAN		
Date entered:	01/07/1993		
Well id:	4657	Geolog id:	9551
Geolog from:	58	Geolog to:	60
Material:	CLAY & PEAT		
Date entered:	01/07/1993		
Well id:	4657	Geolog id:	9552
Geolog from:	60	Geolog to:	101
Material:	CLAY, PEAT & WOOD		
Date entered:	01/07/1993		
Well id:	4657	Geolog id:	9553
Geolog from:	101	Geolog to:	115
Material:	PEAT		
Date entered:	01/07/1993		
Well id:	4657	Geolog id:	9554
Geolog from:	115	Geolog to:	121
Material:	YELLOW CLAY & GRAVEL		
Date entered:	01/07/1993		
Well id:	4657	Geolog id:	9555
Geolog from:	121	Geolog to:	126
Material:	BLUE GRAVEL		
Date entered:	01/07/1993		
<b>Casing Information:</b>			
Well id:	4657	Casing id:	4127
Casing from:	0	Casing to:	126
Casing diameter:	6	Casing thickness:	0
Casing type:	Welded	Date entered:	01/07/1993
<b>Perforation Information:</b>			
Well id:	4657	Perf id:	107
Perf from:	120	Perf to:	126
Perf type:	CUTTING TORCH	Perf width:	.025000000000000001
Perf length:	1.25	Date entered:	01/07/1993
<b>Waterlevel Information:</b>			
Wellid:	4657	Wlid:	-1591331919
Wldate:	10/30/1991	Waterlevel:	90
Status:	Not Reported	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	.2999999999999999		
Remark:	PRIVATE WELL PROGRAM		
Wellid:	4657	Wlid:	-580379618
Wldate:	06/10/1992	Waterlevel:	89.1900024
Status:	Not Reported	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	.2999999999999999		
Remark:	PRIVATE WELL PROGRAM		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Test Yield Information:

Wellid:	4657	Date of test:	04/24/1959
Test type:	2	Time:	2
Yield:	2	Drawdown:	20
Date entered:	05/27/1996		

Water Quality Information:

Sample id:	1292	Well id:	4657
Sample id:	10/30/91	sample date:	10/30/1991
Treated YN:	0		
Comments:	COLLECTED BY KPUD/BA. DEPARTMENT OF HEALTH LAB#630127		

**Z87**  
**SE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**

**USGS3277225**

Agency cd:	USGS	Site no:	473348122322501
Site name:	24N/02E-15N01		
Latitude:	473348	EDR Site id:	USGS3277225
Longitude:	1223225	Dec lat:	47.56315244
Dec lon:	-122.54152248	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	SW SW S15 T24N R02E W
Location map:	BREMERTON EAST	Map scale:	24000
Altitude:	92		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	19420101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	305	Hole depth:	Not Reported
Source of depth data:	other reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1948-09-20
Water quality data end date:	1978-07-24	Water quality data count:	6
Ground water data begin date:	1944-01-01	Ground water data end date:	1944-01-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below	Feet to
Date	Surface	Sealevel

1944-01-01 79

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Database	EDR ID Number	
Direction			
Distance			
Elevation			
<b>88</b>	<b>WA WELLS</b>	<b>WAK10000003621</b>	
<b>NNW</b>			
<b>1/2 - 1 Mile</b>			
<b>Higher</b>			
Well id:	1481		
Doe site id:	Not Reported		
Usgs site id:	473448122334201		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-09E01		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	9		
Quarter quarter1:	SW		
Quarter quarter2:	NW		
Elevation:	70		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	7/20/1988 0:00:00		
Owner first:	LARRY		
Owner last:	VANBOYENT		
Owner address1:	6880 BEACH DRIVE E		
Owner address2:	Not Reported		
Owner city:	PORT ORCHARD		
Owner state:	WA		
Owner zip:	98366		
WI date:	1/7/1986 0:00:00	Water level:	
Status:	Not Reported	41	
Well Log Information:			
Well log id:	1481	Well id:	1481
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Rotary
Diameter of well:	6	Well depth drilled:	312
Well depth completed:	312	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/02/1986
End construction:	01/07/1986	Date entered:	07/20/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	1
screens yn:	0	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	0
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Geologic Information:

Well id:	1481	Geolog id:	2373
Geolog from:	11	Geolog to:	23
Material:	GRAY CLAY HARD		
Date entered:	07/26/1988		
Well id:	1481	Geolog id:	2374
Geolog from:	23	Geolog to:	121
Material:	GRAY & BROWN SHALE STREAKS BRN SAND		
Date entered:	07/26/1988		
Well id:	1481	Geolog id:	2375
Geolog from:	121	Geolog to:	126
Material:	BROWN SAND CEMENTED		
Date entered:	07/26/1988		
Well id:	1481	Geolog id:	2376
Geolog from:	126	Geolog to:	280
Material:	DRK GRAY & BRN SHALE BROKEN AREAS		
Date entered:	07/26/1988		
Well id:	1481	Geolog id:	56577
Geolog from:	280	Geolog to:	312
Material:	LIGHT GRAY & GREEN SHALE		
Date entered:	02/19/1997		
Well id:	1481	Geolog id:	66121
Geolog from:	0	Geolog to:	11
Material:	BROWN CLAY SOME SAND GRAVEL		
Date entered:	08/27/1998		

### Casing Information:

Well id:	1481	Casing id:	1261
Casing from:	0	Casing to:	312
Casing diameter:	4	Casing thickness:	0
Casing type:	PVC	Date entered:	07/20/1988
Well id:	1481	Casing id:	1262
Casing from:	0	Casing to:	78
Casing diameter:	6	Casing thickness:	0
Casing type:	Welded	Date entered:	07/20/1988

### Perforation Information:

Well id:	1481	Perf id:	199
Perf from:	78	Perf to:	312
Perf type:	SAW CUT	Perf width:	.5999999999999998
Perf length:	.10000000000000001	Date entered:	02/19/1997

### Seal Information:

Well id:	1481	Seal id:	433
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	BENTONITE	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	0
Seal method:	Not Reported	Date entered:	07/20/1988

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Well Test Yield Information:

Wellid:	1481	Date of test:	01/07/1985
Test type:	2	Time:	1
Yield:	2	Drawdown:	147
Date entered:	05/27/1996		

89  
West  
1/2 - 1 Mile  
Higher

WA WELLS WAK100000003486

Well id:	14281		
Doe site id:	ACR222		
Usgs site id:	Not Reported		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-17J02		
Water right permit no:	Not Reported		
Parcel id:	17240240212004		
Township:	24		
Range:	2		
Meridian:	E		
Section:	17		
Quarter quarter1:	NE		
Quarter quarter2:	SE		
Elevation:	170		
Well address:	3745 WOODS ROAD E		
Well city:	PORT ORCHARD		
Well state:	WA		
Well zip:	98366		
Date entered:	10/13/1997 8:39:09		
Owner first:	JOHN		
Owner last:	BAILEY		
Owner address1:	3745 WOODS ROAD E		
Owner address2:	Not Reported		
Owner city:	PORT ORCHARD		
Owner state:	WA		
Owner zip:	98366		
WI date:	9/15/1997 0:00:00	Water level:	112
Status:	Not Reported		

### Well Log Information:

Well log id:	11952	Well id:	14281
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Rotary
Diameter of well:	6	Well depth drilled:	230.800003
Well depth completed:	230.80000000000001	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	09/11/1997
End construction:	09/15/1997	Date entered:	10/13/1997
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	0
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Geologic Information:

Well id:	14281	Geolog id:	61897
Geolog from:	0	Geolog to:	1
Material:	PIPE STICK-UP		
Date entered:	10/13/1997		
Well id:	14281	Geolog id:	61898
Geolog from:	1	Geolog to:	3
Material:	BROWN SAND SOME CLAY		
Date entered:	10/13/1997		
Well id:	14281	Geolog id:	61899
Geolog from:	3	Geolog to:	6
Material:	BROWN GRAY SAND		
Date entered:	10/13/1997		
Well id:	14281	Geolog id:	61900
Geolog from:	6	Geolog to:	10
Material:	BROWN SAND		
Date entered:	10/13/1997		
Well id:	14281	Geolog id:	61901
Geolog from:	10	Geolog to:	14
Material:	BROWNS AND WET		
Date entered:	10/13/1997		
Well id:	14281	Geolog id:	61902
Geolog from:	14	Geolog to:	33
Material:	BROWN CLAY SAND		
Date entered:	10/13/1997		
Well id:	14281	Geolog id:	61903
Geolog from:	33	Geolog to:	40
Material:	BROWN SAND GRAVEL AND WATER		
Date entered:	10/13/1997		
Well id:	14281	Geolog id:	61904
Geolog from:	40	Geolog to:	43
Material:	BROWN SAND GRAVEL AND CLAY		
Date entered:	10/13/1997		
Well id:	14281	Geolog id:	61905
Geolog from:	43	Geolog to:	110
Material:	GRAY CLAY		
Date entered:	10/13/1997		
Well id:	14281	Geolog id:	61907
Geolog from:	110	Geolog to:	119
Material:	GRAY CLAY SEAMS, FINE GRAY SAND		
Date entered:	10/13/1997		
Well id:	14281	Geolog id:	61908
Geolog from:	119	Geolog to:	165
Material:	GRAY CLAY SAND AND GRAVEL		
Date entered:	10/13/1997		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	14281	Geolog id:	61909
Geolog from:	165	Geolog to:	216
Material:	GRAY CLAY		
Date entered:	10/13/1997		
Well id:	14281	Geolog id:	61910
Geolog from:	216	Geolog to:	220
Material:	GRAY SAND WATER		
Date entered:	10/13/1997		
<b>Casing Information:</b>			
Well id:	14281	Casing id:	11211
Casing from:	-1	Casing to:	230.80000000000001
Casing diameter:	6	Casing thickness:	Not Reported
Casing type:	Welded	Date entered:	10/13/1997
<b>Screen Information:</b>			
Well id:	14281	Screen id:	7868
Screen from:	225.5	Screen to:	230.80000000000001
Screen man:	JOHNSON	Screen type:	SS
Model num:	Not Reported	Screen diam:	6
Screen slotsize:	.016	Date entered:	10/13/1997
<b>Seal Information:</b>			
Well id:	14281	Seal id:	4351
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	Bentonite	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	Not Reported
Seal method:	Not Reported	Date entered:	10/13/1997
<b>Waterlevel Information:</b>			
Wellid:	14281	Wlid:	1440867212
Wldate:	09/25/1997	Waterlevel:	124.599998
Status:	P	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	Not Reported		
Remark:	PUMPING 17.5 GPM AT 13.4 FT DRAWDOWN AFTER ONE HOUR		
Wellid:	14281	Wlid:	-467862633
Wldate:	09/25/1997	Waterlevel:	111.300003
Status:	ST	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	Not Reported		
Remark:	PUMPING TEST DONE BY DRILLER		
<b>Well Test Yield Information:</b>			
Wellid:	14281	Date of test:	09/25/1997
Test type:	2	Time:	2
Yield:	20	Drawdown:	18
Date entered:	10/13/1997		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Water Quality Information:

Sample id:	3055	Well id:	14281
Sample id:	9/25/97	sample date:	09/25/1997
Treated YN:	0		
Comments:	TWISS LAB#01018680		

**Z90**  
**SE**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS** **WAK100000003422**

Well id:	1379		
Doe site id:	AAB916		
Usgs site id:	473348122322501		
Internal project no:	Not Reported		
Local name:	US NAVY MANCHESTER FUEL DEPOT USN-1		
Local number:	24N/02E-15N01		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	15		
Quarter quarter1:	SW		
Quarter quarter2:	SW		
Elevation:	92		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	6/6/1989 0:00:00		
Owner first:	Not Reported		
Owner last:	USN		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	Not Reported	Water level:	79
Status:	Not Reported		

### Well Log Information:

Well log id:	1379	Well id:	1379
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Abandoned	Drilling method:	Not Reported
Diameter of well:	12	Well depth drilled:	305
Well depth completed:	305	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	Not Reported
End construction:	01/01/1942	Date entered:	06/06/1989
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	by Driller
Bailer airtest yn:	0	perf yn:	1
screens yn:	1	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Geologic Information:

Well id: 1379 Geolog id: 2252  
 Geolog from: 0 Geolog to: 2  
 Material: SAND, BROWN, HARD  
 Date entered: 07/03/1988

Well id: 1379 Geolog id: 2253  
 Geolog from: 20 Geolog to: 50  
 Material: SAND, BROWN  
 Date entered: 07/03/1988

Well id: 1379 Geolog id: 2254  
 Geolog from: 50 Geolog to: 108  
 Material: CLAY, BROWN, SANDY  
 Date entered: 07/03/1988

Well id: 1379 Geolog id: 2255  
 Geolog from: 108 Geolog to: 122  
 Material: CLAY, GREEN, SANDY  
 Date entered: 07/03/1988

Well id: 1379 Geolog id: 2256  
 Geolog from: 122 Geolog to: 151  
 Material: CLAY, BROWN, W/ SAND AND GRAVEL  
 Date entered: 07/03/1988

Well id: 1379 Geolog id: 2257  
 Geolog from: 151 Geolog to: 233  
 Material: HARDPAN, GRAY  
 Date entered: 07/03/1988

Well id: 1379 Geolog id: 2258  
 Geolog from: 233 Geolog to: 255  
 Material: SHALE WITH SAND AND GRAVEL  
 Date entered: 07/03/1988

Well id: 1379 Geolog id: 56578  
 Geolog from: 255 Geolog to: 305  
 Material: GRAVEL, CEMENTED  
 Date entered: 02/19/1997

### Casing Information:

Well id: 1379 Casing id: 1181  
 Casing from: 0 Casing to: 295  
 Casing diameter: 12 Casing thickness: 0  
 Casing type: Not Reported Date entered: 06/06/1989

### Perforation Information:

Well id: 1379 Perf id: 23  
 Perf from: 155 Perf to: 160  
 Perf type: Not Reported Perf width: Not Reported  
 Perf length: Not Reported Date entered: 06/15/1989

Well id: 1379 Perf id: 24  
 Perf from: 255 Perf to: 260  
 Perf type: Not Reported Perf width: Not Reported  
 Perf length: Not Reported Date entered: 06/15/1989

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Screen Information:

Well id:	1379	Screen id:	625
Screen from:	295	Screen to:	305
Screen man:	Not Reported	Screen type:	SS
Model num:	Not Reported	Screen diam:	Not Reported
Screen slotsize:	Not Reported	Date entered:	Not Reported

### Well test Recovery Information:

Wellid:	1379	Date of test:	01/01/1901
Testtype:	1	Time:	8
Waterlevel:	131		

### Well Test Yield Information:

Wellid:	1379	Date of test:	01/01/1901
Test type:	1	Time:	8
Yield:	60	Drawdown:	52
Date entered:	06/06/1989		

91  
SSE  
1/2 - 1 Mile  
Higher

WA WELLS WAK100000003347

Well id:	1354	
Doe site id:	Not Reported	
Usgs site id:	473335122324601	
Internal project no:	Not Reported	
Local name:	Not Reported	
Local number:	24N/01E-21A01	
Water right permit no:	Not Reported	
Parcel id:	Not Reported	
Township:	24	
Range:	1	
Meridian:	E	
Section:	21	
Quarter quarter1:	NE	
Quarter quarter2:	NE	
Elevation:	90	
Well address:	820 FT W & 170 FT N FROM SE CORNER GOV LOT 1 SEC 21	
Well city:	Not Reported	
Well state:	Not Reported	
Well zip:	Not Reported	
Date entered:	10/9/1989 0:00:00	
Owner first:	KERMIT B	
Owner last:	JOHNSON	
Owner address1:	RT 6 BOX 144A	
Owner address2:	Not Reported	
Owner city:	PORT ORCHARD	
Owner state:	WA	
Owner zip:	Not Reported	
WI date:	4/24/1959 0:00:00	
Status:	Not Reported	
	Water level:	80

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Well Log Information:

Well log id:	1354	Well id:	1354
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	CABLE
Diameter of well:	6	Well depth drilled:	126
Well depth completed:	126	Elevation:	Not Reported
Pumpman:	CONTINENTAL PUMP	Pumptype:	SUB SM 102-30
Pump modelno:	1 HP	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	04/01/1959
End construction:	04/24/1959	Date entered:	10/09/1989
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	1
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Geologic Information:

Well id:	1354	Geolog id:	2225
Geolog from:	45	Geolog to:	58
Material:	HARDPAN		
Date entered:	07/26/1988		
Well id:	1354	Geolog id:	2226
Geolog from:	58	Geolog to:	60
Material:	CLAY & PEAT		
Date entered:	07/26/1988		
Well id:	1354	Geolog id:	2227
Geolog from:	60	Geolog to:	101
Material:	CLAY & PEAT & WOOD		
Date entered:	07/26/1988		
Well id:	1354	Geolog id:	2228
Geolog from:	101	Geolog to:	115
Material:	PEAT		
Date entered:	07/26/1988		
Well id:	1354	Geolog id:	2229
Geolog from:	115	Geolog to:	121
Material:	YELLOW CLAY & GRAVEL		
Date entered:	07/26/1988		
Well id:	1354	Geolog id:	2230
Geolog from:	121	Geolog to:	121.01000000000001
Material:	BLUE GRAVEL		
Date entered:	07/26/1988		
Well id:	1354	Geolog id:	56467
Geolog from:	0	Geolog to:	45
Material:	CLAY & SAND		
Date entered:	02/13/1997		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Casing Information:

Well id:	1354	Casing id:	1158
Casing from:	0	Casing to:	126
Casing diameter:	6	Casing thickness:	0
Casing type:	Welded	Date entered:	07/20/1988

### Perforation Information:

Well id:	1354	Perf id:	197
Perf from:	120	Perf to:	126
Perf type:	CUTTING TORCH	Perf width:	.025000000000000001
Perf length:	.006499999999999997	Date entered:	02/13/1997

### Screen Information:

Well id:	1354	Screen id:	615
Screen from:	Not Reported	Screen to:	Not Reported
Screen man:	Not Reported	Screen type:	Not Reported
Model num:	Not Reported	Screen diam:	Not Reported
Screen slotsize:	Not Reported	Date entered:	Not Reported

### Well Test Yield Information:

Wellid:	1354	Date of test:	04/24/1959
Test type:	2	Time:	2
Yield:	11	Drawdown:	20
Date entered:	05/27/1996		

AA92  
SW  
1/2 - 1 Mile  
Higher

WA WELLS WAK10000003397

AA93  
SW  
1/2 - 1 Mile  
Higher

WA WELLS WAK10000003389

Well id:	1365
Doe site id:	Not Reported
Usgs site id:	473342122335901
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-20A01
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	20
Quarter quarter1:	NE
Quarter quarter2:	NE
Elevation:	290
Well address:	Not Reported
Well city:	Not Reported
Well state:	Not Reported
Well zip:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Date entered: 2/1/1988 0:00:00  
 Owner first: Not Reported  
 Owner last: Not Reported  
 Owner address1: Not Reported  
 Owner address2: Not Reported  
 Owner city: Not Reported  
 Owner state: Not Reported  
 Owner zip: Not Reported  
 WI date: 3/1/1940 0:00:00  
 Status: Not Reported

Water level: 1

### Well Log Information:

Well log id:	1365	Well id:	1365
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	10	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1939
End construction:	01/01/1939	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Casing Information:

Well id:	1365	Casing id:	1169
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	36	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

94  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

WA WELLS WAK100000003457

Well id: 971718080  
 Doe site id: AFJ181  
 Usgs site id: Not Reported  
 Internal project no: Not Reported  
 Local name: Not Reported  
 Local number: 24N/02E-17R01  
 Water right permit no: Not Reported  
 Parcel id: 17240240182009  
 Township: 24  
 Range: 2  
 Meridian: E  
 Section: 17  
 Quarter quarter1: SE  
 Quarter quarter2: SE

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elevation: 220  
 Well address: 3603 WOODS ROAD E  
 Well city: PORT ORCHARD  
 Well state: WA  
 Well zip: 98366  
 Date entered: 10/16/2000 10:41:20  
 Owner first: JIM  
 Owner last: NEWELL  
 Owner address1: 3603 WOODS ROAD E  
 Owner address2: Not Reported  
 Owner city: PORT ORCHARD  
 Owner state: WA  
 Owner zip: 98366  
 WI date: 9/15/2000 0:00:00  
 Status: Not Reported

Water level: 175

### Well Log Information:

Well log id:	936663745	Well id:	971718080
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Cable
Diameter of well:	6	Well depth drilled:	236
Well depth completed:	236	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	08/18/2000
End construction:	09/15/2000	Date entered:	10/16/2000
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	0
Survey date:	Not Reported		

### Geologic Information:

Well id:	971718080	Geolog id:	-2070503239
Geolog from:	85	Geolog to:	100
Material:	GRAY CEMENTED SAND		
Date entered:	10/16/2000		
Well id:	971718080	Geolog id:	-1798720912
Geolog from:	236	Geolog to:	236.00999999999999
Material:	BLUE CLAY		
Date entered:	10/16/2000		
Well id:	971718080	Geolog id:	-199199098
Geolog from:	100	Geolog to:	108
Material:	GRAY TILL		
Date entered:	10/16/2000		
Well id:	971718080	Geolog id:	-1749993073
Geolog from:	108	Geolog to:	111
Material:	GREY CLAY ROCKS		
Date entered:	10/16/2000		

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	971718080	Geolog id:	-84318637
Geolog from:	15	Geolog to:	18
Material:	BROWN CLAY/SAND WATER		
Date entered:	10/16/2000		
Well id:	971718080	Geolog id:	-1439055651
Geolog from:	0	Geolog to:	2
Material:	BROWN TOP		
Date entered:	10/16/2000		
Well id:	971718080	Geolog id:	-1130522588
Geolog from:	111	Geolog to:	130
Material:	GREENISH CLAY		
Date entered:	10/16/2000		
Well id:	971718080	Geolog id:	1703251608
Geolog from:	18	Geolog to:	85
Material:	BLUE CLAY		
Date entered:	10/16/2000		
Well id:	971718080	Geolog id:	1588238475
Geolog from:	220	Geolog to:	236
Material:	GRAY FINE SAND		
Date entered:	10/16/2000		
Well id:	971718080	Geolog id:	1974301914
Geolog from:	2	Geolog to:	15
Material:	BROWN SAND		
Date entered:	10/16/2000		
Well id:	971718080	Geolog id:	325326421
Geolog from:	130	Geolog to:	174
Material:	GRAY CLAY, PEBBLES		
Date entered:	10/16/2000		
Well id:	971718080	Geolog id:	15223538
Geolog from:	174	Geolog to:	220
Material:	GRAY CLAY SAND, SILT		
Date entered:	10/16/2000		
<b>Casing Information:</b>			
Well id:	971718080	Casing id:	1159551470
Casing from:	0	Casing to:	226
Casing diameter:	6	Casing thickness:	Not Reported
Casing type:	Welded	Date entered:	10/16/2000
<b>Screen Information:</b>			
Well id:	971718080	Screen id:	-629890345
Screen from:	226	Screen to:	235
Screen man:	WESCO	Screen type:	SS
Model num:	Not Reported	Screen diam:	5
Screen slotsize:	.008000000000000002	Date entered:	10/16/2000
<b>Seal Information:</b>			
Well id:	971718080	Seal id:	-208811572
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	Bentonite	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	Not Reported
Seal method:	Not Reported	Date entered:	10/16/2000

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Waterlevel Information:

Wellid:	971718080	Wlid:	-1280065721
Wldate:	09/18/2000	Waterlevel:	190.199997
Status:	P	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	Not Reported		
Remark:	PUMPING 13 GPM AT 16.6 FT DRAWDOWN AFTER ONE HOUR		

Wellid:	971718080	Wlid:	-909836879
Wldate:	08/23/2000	Waterlevel:	Not Reported
Status:	Not Reported	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	2		
Remark:	BKCHD/LUM		

Wellid:	971718080	Wlid:	718118430
Wldate:	09/18/2000	Waterlevel:	173.600006
Status:	ST	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	Not Reported		
Remark:	PUMPING TEST DONE BY DRILLER		

### Well Test Yield Information:

Wellid:	971718080	Date of test:	09/15/2000
Test type:	2	Time:	2
Yield:	10	Drawdown:	14
Date entered:	10/16/2000		

### Water Quality Information:

Sample id:	-1020106372	Well id:	971718080
Sample id:	9/18/00	sample date:	09/18/2000
Treated YN:	0		
Comments:	COLLECTED BY AQUARIUS PUMP CO. TWISS LAB#01050194		

**AB95**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS** **WAK100000003551**

Well id:	1441
Doe site id:	Not Reported
Usgs site id:	473419122341801
Internal project no:	Not Reported
Local name:	MYGATT
Local number:	24N/02E-17H01
Water right permit no:	Not Reported
Parcel id:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Township: 24  
 Range: 2  
 Meridian: E  
 Section: 17  
 Quarter quarter1: SE  
 Quarter quarter2: NE  
 Elevation: 115  
 Well address: WOODS ROAD  
 Well city: Not Reported  
 Well state: Not Reported  
 Well zip: Not Reported  
 Date entered: 8/16/1993 0:00:00  
 Owner first: ROBERT A  
 Owner last: MYGATT  
 Owner address1: RT 6 BOX 375  
 Owner address2: Not Reported  
 Owner city: PORT ORCHARD  
 Owner state: WA  
 Owner zip: 98366  
 Wl date: 4/27/1992 0:00:00  
 Status: Not Reported

Water level: 41.600000000000001

### Well Log Information:

Well log id:	1441	Well id:	1441
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	Not Reported
Diameter of well:	6	Well depth drilled:	Not Reported
Well depth completed:	108	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1967
End construction:	01/01/1967	Date entered:	08/16/1993
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Screen Information:

Well id:	1441	Screen id:	648
Screen from:	Not Reported	Screen to:	Not Reported
Screen man:	Not Reported	Screen type:	Not Reported
Model num:	Not Reported	Screen diam:	Not Reported
Screen slotsize:	.01	Date entered:	Not Reported

### Waterlevel Information:

Wellid:	1441	Wlid:	1945718190
Wldate:	04/27/1992	Waterlevel:	42.200008
Status:	ST	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	.5999999999999998		
Remark:	PRIVATE WELL PROGRAM		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Water Quality Information:

Sample id: 1277 Well id: 1441  
Sample id: 4/27/92 sample date: 04/27/1992  
Treated YN: 0  
Comments: PRIVATE WELL PROGRAM. COLELCTED BY KPUD/BA. DEPARTMENT OF HEALTH LAB#630805

**AB96**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS** **WAK100000003538**

Well id:	1437	
Doe site id:	Not Reported	
Usgs site id:	473418122341901	
Internal project no:	Not Reported	
Local name:	Not Reported	
Local number:	24N/02E-17G01	
Water right permit no:	Not Reported	
Parcel id:	Not Reported	
Township:	24	
Range:	2	
Meridian:	E	
Section:	17	
Quarter quarter1:	SW	
Quarter quarter2:	NE	
Elevation:	120	
Well address:	Not Reported	
Well city:	Not Reported	
Well state:	Not Reported	
Well zip:	Not Reported	
Date entered:	2/1/1988 0:00:00	
Owner first:	Not Reported	
Owner last:	Not Reported	
Owner address1:	Not Reported	
Owner address2:	Not Reported	
Owner city:	Not Reported	
Owner state:	Not Reported	
Owner zip:	Not Reported	
WI date:	4/1/1959 0:00:00	Water level:
Status:	Not Reported	Not Reported

### Well Log Information:

Well log id:	1437	Well id:	1437
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	175	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1959
End construction:	01/01/1959	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Casing Information:

Well id:	1437	Casing id:	1226
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

**AC97**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS** **WAK100000003315**

Well id:	1343	Water level:	99
Doe site id:	Not Reported		
Usgs site id:	473328122332701		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-21F03		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	21		
Quarter quarter1:	SE		
Quarter quarter2:	NW		
Elevation:	280		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	4/1/1967 0:00:00		
Status:	Not Reported		

### Well Log Information:

Well log id:	1343	Well id:	1343
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	Not Reported
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	184	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1957
End construction:	01/01/1957	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Casing Information:

Well id:	1343	Casing id:	1147
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

### Well test Recovery Information:

Wellid:	1343	Date of test:	01/01/1901
Testtype:	1	Time:	0
Waterlevel:	0		

### Well Test Yield Information:

Wellid:	1343	Date of test:	01/01/1901
Test type:	1	Time:	0
Yield:	10	Drawdown:	0
Date entered:	02/01/1988		

**AA98**  
**SW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**    **USGS3277197**

Agency cd:	USGS	Site no:	473342122335901
Site name:	24N/02E-20A02		
Latitude:	473342	EDR Site id:	USGS3277197
Longitude:	1223359	Dec lat:	47.56148535
Dec lon:	-122.56763507	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NE NE S20 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	290		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19390101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	10	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1940-03-01	Ground water data end date:	1940-03-01
Ground water data count:	1		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
Date		
-----		
1940-03-01	1	

99  
SSW  
1/2 - 1 Mile  
Higher

WA WELLS WAK100000003320

Well id:	14768		
Doe site id:	AEA517		
Usgs site id:	Not Reported		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-21F06		
Water right permit no:	Not Reported		
Parcel id:	45900000150001		
Township:	24		
Range:	2		
Meridian:	E		
Section:	21		
Quarter quarter1:	SE		
Quarter quarter2:	NW		
Elevation:	285		
Well address:	LOT 15 MARTIN AVENUE E		
Well city:	PORT ORCHARD		
Well state:	WA		
Well zip:	98367		
Date entered:	10/9/1998 9:17:34		
Owner first:	RICK		
Owner last:	TRONDSON (TRONDSON CONST INC.)		
Owner address1:	7985 VANDECAR ROAD SE		
Owner address2:	Not Reported		
Owner city:	PORT ORCHARD		
Owner state:	WA		
Owner zip:	98367		
WI date:	7/10/1998 0:00:00	Water level:	126
Status:	Not Reported		

Well Log Information:

Well log id:	12446	Well id:	14768
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Rotary
Diameter of well:	6	Well depth drilled:	177
Well depth completed:	177	Elevation:	Not Reported
Pumpman:	GOULDS	Pumptype:	SUB 10LS10
Pump modelno:	1 HP	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	07/06/1998
End construction:	07/07/1998	Date entered:	10/09/1998
Fieldchecked by kpud:	0	Water temp:	50
chem anal:	1	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	by Driller
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	1
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Geologic Information:

Well id:	14768	Geolog id:	66562
Geolog from:	0	Geolog to:	25
Material:	BROWN SILTY SAND AND GRAVEL		
Date entered:	10/09/1998		
Well id:	14768	Geolog id:	66563
Geolog from:	25	Geolog to:	129
Material:	LOOSE BROWN SILTY SAND AND GRAVEL		
Date entered:	10/09/1998		
Well id:	14768	Geolog id:	66564
Geolog from:	129	Geolog to:	141
Material:	DENSE GRAY HARDPAN		
Date entered:	10/09/1998		
Well id:	14768	Geolog id:	66565
Geolog from:	141	Geolog to:	165
Material:	GRAY SILTY COARSE SAND AND GRAVEL		
Date entered:	10/09/1998		
Well id:	14768	Geolog id:	66566
Geolog from:	165	Geolog to:	177
Material:	GRAY GRAVEL, WATER		
Date entered:	10/09/1998		

### Casing Information:

Well id:	14768	Casing id:	11687
Casing from:	0	Casing to:	177
Casing diameter:	6	Casing thickness:	Not Reported
Casing type:	Welded	Date entered:	10/09/1998

### Seal Information:

Well id:	14768	Seal id:	4810
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	Bentonite	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	Not Reported
Seal method:	Not Reported	Date entered:	10/09/1998

### Well test Recovery Information:

Wellid:	14768	Date of test:	07/10/1998
Testtype:	1	Time:	1
Waterlevel:	126		

### Well Test Yield Information:

Wellid:	14768	Date of test:	07/10/1998
Test type:	1	Time:	1
Yield:	26	Drawdown:	2
Date entered:	10/09/1998		

Wellid:	14768	Date of test:	07/10/1998
Test type:	3	Time:	1
Yield:	30	Drawdown:	0
Date entered:	10/09/1998		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Water Quality Information:

Sample id: 4045 Well id: 14768  
 Sample id: 7/10/98 sample date: 07/10/1998  
 Treated YN: 0  
 Comments: COLLECTED BY OLY'S PUMP SERVICE. TWISS LAB#01026286

**100**  
**South**  
**1/2 - 1 Mile**  
**Higher**

WA WELLS WAK100000003310

Well id:	1342
Doe site id:	Not Reported
Usgs site id:	473327122330901
Internal project no:	Not Reported
Local name:	FAIRGRIEVE
Local number:	24N/02E-21G02
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	21
Quarter quarter1:	SW
Quarter quarter2:	NE
Elevation:	230
Well address:	Not Reported
Well city:	Not Reported
Well state:	Not Reported
Well zip:	Not Reported
Date entered:	8/16/1993 0:00:00
Owner first:	Not Reported
Owner last:	Not Reported
Owner address1:	Not Reported
Owner address2:	Not Reported
Owner city:	Not Reported
Owner state:	Not Reported
Owner zip:	Not Reported
WI date:	Not Reported
Status:	Not Reported
Water level:	2.3500000000000001

### Well Log Information:

Well log id:	1342	Well id:	1342
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	Not Reported
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	Not Reported	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	Not Reported
End construction:	Not Reported	Date entered:	08/16/1993
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Waterlevel Information:

Wellid:	1342	Wlid:	-785217331
Wldate:	09/18/1991	Waterlevel:	5
Status:	Not Reported	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	2.649999999999999		
Remark:	PRIVATE WELL PROGRAM		

Water Quality Information:

Sample id:	1295	Well id:	1342
Sample id:	9/18/91	sample date:	09/18/1991
Treated YN:	0		
Comments:	COLLECTED BY KPUD/BA. DEPARTMENT OF HEALTH LAB#6307		

**AC101**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**      **USGS3277146**

Agency cd:	USGS	Site no:	473328122332701
Site name:	24N/02E-21F01		
Latitude:	473328	EDR Site id:	USGS3277146
Longitude:	1223327	Dec lat:	47.55759662
Dec lon:	-122.55874555	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	SE NW S21 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	275		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19570101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	184	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1967-04-01	Ground water data end date:	1967-04-01
Ground water data count:	1		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1967-04-01	99	

**AD102**

**WNW**

**1/2 - 1 Mile**

**Higher**

**WA WELLS** **WAK100000003563**

Well id:	14080		
Doe site id:	ACN368		
Usgs site id:	Not Reported		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-17G03		
Water right permit no:	Not Reported		
Parcel id:	17240210282003		
Township:	24		
Range:	2		
Meridian:	E		
Section:	17		
Quarter quarter1:	SW		
Quarter quarter2:	NE		
Elevation:	90		
Well address:	4390 WOODS ROAD E		
Well city:	PORT ORCHARD		
Well state:	WA		
Well zip:	98366		
Date entered:	5/19/1997 12:12:35		
Owner first:	DEBRA		
Owner last:	GOODELL		
Owner address1:	4390 WOODS ROAD E		
Owner address2:	Not Reported		
Owner city:	PORT ORCHARD		
Owner state:	WA		
Owner zip:	98366		
WI date:	8/6/1996 0:00:00	Water level:	30
Status:	Not Reported		

**Well Log Information:**

Well log id:	11535	Well id:	14080
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Rotary
Diameter of well:	6	Well depth drilled:	93
Well depth completed:	92	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	08/06/1996
End construction:	08/06/1996	Date entered:	05/19/1997
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	0
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Geologic Information:

Well id: 14080 Geolog id: 58625  
 Geolog from: 0 Geolog to: 18  
 Material: COARSE SAND COBBLES YELLOW CLAY BINDER  
 Date entered: 05/19/1997

Well id: 14080 Geolog id: 58626  
 Geolog from: 18 Geolog to: 30  
 Material: HARD PAN AND COARSE SAND  
 Date entered: 05/19/1997

Well id: 14080 Geolog id: 58627  
 Geolog from: 30 Geolog to: 49  
 Material: FINE SAND WATER BEARING  
 Date entered: 05/19/1997

Well id: 14080 Geolog id: 58628  
 Geolog from: 49 Geolog to: 78  
 Material: GRAY COARSE SAND WATER BEARING  
 Date entered: 05/19/1997

Well id: 14080 Geolog id: 58629  
 Geolog from: 78 Geolog to: 93  
 Material: GRAY COARSE SAND GRAVEL AND WATER  
 Date entered: 05/19/1997

### Casing Information:

Well id: 14080 Casing id: 10971  
 Casing from: -1 Casing to: 89.599999999999994  
 Casing diameter: 6 Casing thickness: Not Reported  
 Casing type: Welded Date entered: 05/19/1997

### Screen Information:

Well id: 14080 Screen id: 7612  
 Screen from: 89.59999999999994 Screen to: 92  
 Screen man: HOUSTON Screen type: SLOTTED  
 Model num: Not Reported Screen diam: 5  
 Screen slotsize: .016 Date entered: 05/19/1997

### Seal Information:

Well id: 14080 Seal id: 4137  
 Seal top: 0 Seal bottom: 2.0E+001  
 Seal material: Bentonite Unusable water: Not Reported  
 Water type: Not Reported Strata depth: Not Reported  
 Seal method: Not Reported Date entered: 05/19/1997

### Waterlevel Information:

Wellid: 14080 Wlid: -612352037  
 Wldate: 08/17/1996 Waterlevel: 34.5800018  
 Status: P Method: Not Reported  
 Accuracy: Not Reported Installflag: 0  
 Artpress: Not Reported Artdate: Not Reported  
 Artcontrol: Not Reported Elevation: Not Reported  
 Stickup: Not Reported  
 Remark: PUMPING 10 GPM AT 4.4 FT DRAWDOWN AFTER ONE HOUR

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	14080	Wlid:	-416812670
Wldate:	08/17/1996	Waterlevel:	30.1800003
Status:	ST	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	Not Reported		
Remark:	PUMPING TEST DONE BY DRILLER		

### Well Test Yield Information:

Wellid:	14080	Date of test:	08/06/1996
Test type:	3	Time:	1
Yield:	75	Drawdown:	0
Date entered:	05/19/1997		

### Water Quality Information:

Sample id:	2068	Well id:	14080
Sample id:	8/7/96	sample date:	08/07/1996
Treated YN:	0		
Comments:	COLLECTED BY ARCADIA DRILLING. WATER MANGEMENT LAB#8925956		

**AE103**

**SE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS**      **USGS3277221**

Agency cd:	USGS	Site no:	473347122321301
Site name:	24N/02E-15P01		
Latitude:	473347	EDR Site id:	USGS3277221
Longitude:	1223213	Dec lat:	47.56287472
Dec lon:	-122.53818895	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	SE SW S15 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	63		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Alluvial or marine terrace		
Site type:	Ground-water other than Spring	Date construction:	19420101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	353	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1948-09-20
Water quality data end date:	1948-09-20	Water quality data count:	1
Ground water data begin date:	1967-02-01	Ground water data end date:	1967-02-01
Ground water data count:	1		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1967-02-01	30	

**AF104**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS** **WAK100000003648**

Well id:	1488	
Doe site id:	Not Reported	
Usgs site id:	473457122333501	
Internal project no:	Not Reported	
Local name:	Not Reported	
Local number:	24N/02E-09L01	
Water right permit no:	Not Reported	
Parcel id:	Not Reported	
Township:	24	
Range:	2	
Meridian:	E	
Section:	9	
Quarter quarter1:	NE	
Quarter quarter2:	SW	
Elevation:	45	
Well address:	Not Reported	
Well city:	Not Reported	
Well state:	Not Reported	
Well zip:	Not Reported	
Date entered:	2/1/1988 0:00:00	
Owner first:	Not Reported	
Owner last:	Not Reported	
Owner address1:	Not Reported	
Owner address2:	Not Reported	
Owner city:	Not Reported	
Owner state:	Not Reported	
Owner zip:	Not Reported	
WI date:	1/1/1949 0:00:00	
Status:	Not Reported	
	Water level:	1

**Well Log Information:**

Well log id:	1488	Well id:	1488
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	184	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1945
End construction:	01/01/1945	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Casing Information:

Well id:	1488	Casing id:	1265
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	12	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

**AG105**

**West**

**1/2 - 1 Mile**

**Higher**

**FED USGS**

**USGS3277309**

Agency cd:	USGS	Site no:	473418122341901
Site name:	24N/02E-17G01	EDR Site id:	USGS3277309
Latitude:	473418	Dec lat:	47.57148523
Longitude:	1223419	Coor meth:	M
Dec lon:	-122.57319127	Latlong datum:	NAD27
Coor accr:	F	District:	53
Dec latlong datum:	NAD83	County:	035
State:	53	Land net:	SW NE S17 T24N R02E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	110		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	20		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Hilltop		
Site type:	Ground-water other than Spring	Date construction:	19590101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	175	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1959-04-01	Ground water data end date:	1959-04-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
------	-----------------------	---------------------

1959-04-01

Note: The site was flowing, but the head could not be measured without additional equipment.

**AE106**

**ESE**

**1/2 - 1 Mile**

**Lower**

**WA WELLS**

**WAK100000003415**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	1376		
Doe site id:	AAB465		
Usgs site id:	473347122321301		
Internal project no:	Not Reported		
Local name:	US NAVY MANCHESTER FUEL DEPOT USN-2		
Local number:	24N/02E-15P01		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	15		
Quarter quarter1:	SE		
Quarter quarter2:	SW		
Elevation:	63		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	6/6/1989 0:00:00		
Owner first:	Not Reported		
Owner last:	USN		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	2/15/1967 0:00:00	Water level:	29.600000000000001
Status:	Not Reported		

### Well Log Information:

Well log id:	1376	Well id:	1376
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Abandoned	Drilling method:	CABLE
Diameter of well:	10	Well depth drilled:	353
Well depth completed:	353	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1942
End construction:	01/01/1942	Date entered:	06/06/1989
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	by Driller
Bailer airtest yn:	0	perf yn:	1
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	1
Survey date:	Not Reported		

### Geologic Information:

Well id:	1376	Geolog id:	2245
Geolog from:	0	Geolog to:	4
Material:	CLAY, BROWN, SANDY		
Date entered:	07/03/1988		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id: 1376 Geolog id: 2246  
 Geolog from: 40 Geolog to: 218  
 Material: SAND, BRN, W/SANDY CLAY & GRAVEL  
 Date entered: 07/03/1988

Well id: 1376 Geolog id: 2247  
 Geolog from: 218 Geolog to: 226  
 Material: SAND AND GRAVEL  
 Date entered: 07/03/1988

Well id: 1376 Geolog id: 2248  
 Geolog from: 226 Geolog to: 237  
 Material: GRAVEL, GREEN, CEMENTED  
 Date entered: 07/03/1988

Well id: 1376 Geolog id: 2249  
 Geolog from: 237 Geolog to: 241  
 Material: SANDSTONE, BLACK  
 Date entered: 07/03/1988

Well id: 1376 Geolog id: 2250  
 Geolog from: 241 Geolog to: 270  
 Material: CLAY, BLUE  
 Date entered: 07/03/1988

Well id: 1376 Geolog id: 56579  
 Geolog from: 270 Geolog to: 353  
 Material: CLAY, BLUE, SANDY, SOME GRAVEL  
 Date entered: 02/19/1997

**Casing Information:**  
 Well id: 1376 Casing id: 1179  
 Casing from: 0 Casing to: 353  
 Casing diameter: 10 Casing thickness: 0  
 Casing type: Not Reported Date entered: 06/06/1989

**Perforation Information:**  
 Well id: 1376 Perf id: 22  
 Perf from: 220 Perf to: 226  
 Perf type: Not Reported Perf width: Not Reported  
 Perf length: Not Reported Date entered: 06/06/1989

**Well test Recovery Information:**  
 Wellid: 1376 Date of test: 02/15/1967  
 Testtype: 1 Time: 8  
 Waterlevel: 87

**Well Test Yield Information:**  
 Wellid: 1376 Date of test: 02/15/1967  
 Test type: 1 Time: 8  
 Yield: 200 Drawdown: 0  
 Date entered: 06/06/1989

**AD107**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS**   **WAK10000003567**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	1452		
Doe site id:	Not Reported		
Usgs site id:	473426122342101		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-17B01		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	17		
Quarter quarter1:	NW		
Quarter quarter2:	NE		
Elevation:	50		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	Not Reported	Water level:	Not Reported
Status:	Not Reported		

### Well Log Information:

Well log id:	1452	Well id:	1452
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	130	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1948
End construction:	01/01/1948	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

**AF108**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3277428**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	473457122333501
Site name:	24N/02E-09L01		
Latitude:	473457	EDR Site id:	USGS3277428
Longitude:	1223335	Dec lat:	47.58231873
Dec lon:	-122.56096863	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NE SW S09 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	45		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Hilltop		
Site type:	Ground-water other than Spring	Date construction:	19450101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	184	Hole depth:	Not Reported
Source of depth data:	other		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1949-00-00
Water quality data end date:	1949-00-00	Water quality data count:	1
Ground water data begin date:	1949-01-01	Ground water data end date:	1949-01-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
--	-----------------------	---------------------

1949-01-01

Note: The site was flowing, but the head could not be measured without additional equipment.

AG109  
West  
1/2 - 1 Mile  
Higher

WA WELLS WAK100000003532

Well id:	604589624
Doe site id:	AEK572
Usgs site id:	Not Reported
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-17G05
Water right permit no:	Not Reported
Parcel id:	17240210652007
Township:	24
Range:	2
Meridian:	E
Section:	17
Quarter quarter1:	SW
Quarter quarter2:	NE

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elevation: 110  
 Well address: WOODS ROAD/BEAVER CREEK ROAD  
 Well city: PORT ORCHARD  
 Well state: WA  
 Well zip: 98366  
 Date entered: 9/14/1999 11:06:10  
 Owner first: RICHARD  
 Owner last: FREIBOTH  
 Owner address1: 7318 E RAINTREE LANE  
 Owner address2: Not Reported  
 Owner city: PORT ORCHARD  
 Owner state: WA  
 Owner zip: 98366  
 WI date: 8/23/1999 0:00:00 Water level: 59.5  
 Status: Not Reported

### Well Log Information:

Well log id:	669585369	Well id:	604589624
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Rotary
Diameter of well:	6	Well depth drilled:	123
Well depth completed:	123	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	08/20/1999
End construction:	08/23/1999	Date entered:	09/14/1999
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	0
Survey date:	Not Reported		

### Geologic Information:

Well id:	604589624	Geolog id:	-1800922434
Geolog from:	71	Geolog to:	94
Material:	GRAY SAND GRAVEL AND CLAY		
Date entered:	09/14/1999		
Well id:	604589624	Geolog id:	-274009903
Geolog from:	64	Geolog to:	71
Material:	GRAY SAND GRAVEL AND WATER		
Date entered:	09/14/1999		
Well id:	604589624	Geolog id:	-1559009433
Geolog from:	94	Geolog to:	106
Material:	GRAY SAND WATER		
Date entered:	09/14/1999		
Well id:	604589624	Geolog id:	-1119517168
Geolog from:	23	Geolog to:	64
Material:	GRAY SAND GRAVEL AND CLAY		
Date entered:	09/14/1999		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	604589624	Geolog id:	806336284
Geolog from:	106	Geolog to:	120
Material:	GRAY SANDY CLAY		
Date entered:	09/14/1999		
Well id:	604589624	Geolog id:	1271701163
Geolog from:	3	Geolog to:	23
Material:	BROWN SAND GRAVEL AND CLAY		
Date entered:	09/14/1999		
Well id:	604589624	Geolog id:	-867805203
Geolog from:	120	Geolog to:	123
Material:	GRAYS AND WATER		
Date entered:	09/14/1999		
Well id:	604589624	Geolog id:	-810066542
Geolog from:	0	Geolog to:	3
Material:	PIPE STICK UP		
Date entered:	09/14/1999		
<b>Casing Information:</b>			
Well id:	604589624	Casing id:	-512442586
Casing from:	0	Casing to:	96.29999999999997
Casing diameter:	6	Casing thickness:	Not Reported
Casing type:	Welded	Date entered:	09/14/1999
<b>Screen Information:</b>			
Well id:	604589624	Screen id:	281132463
Screen from:	97.79999999999997	Screen to:	103
Screen man:	JOHNSON	Screen type:	SS
Model num:	Not Reported	Screen diam:	6
Screen slotsize:	.01799999999999999	Date entered:	09/14/1999
Well id:	604589624	Screen id:	1127846340
Screen from:	118	Screen to:	123.09999999999999
Screen man:	JOHNSON	Screen type:	SS
Model num:	Not Reported	Screen diam:	6
Screen slotsize:	.014	Date entered:	09/14/1999
<b>Seal Information:</b>			
Well id:	604589624	Seal id:	655669109
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	Bentonite	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	Not Reported
Seal method:	Not Reported	Date entered:	09/14/1999
<b>Waterlevel Information:</b>			
Wellid:	604589624	Wlid:	899441322
Wldate:	08/27/1999	Waterlevel:	59.5
Status:	ST	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	Not Reported		
Remark:	PUMPING TEST DONE BY DRILLER		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	604589624	Wlid:	-979233821
Wldate:	08/27/1999	Waterlevel:	95
Status:	P	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	Not Reported		
Remark:	PUMPING 30 GPM AT 35.5 FT DRAWDOWN AFTER ONE HOUR		

Wellid:	604589624	Wlid:	-21379045
Wldate:	08/24/1999	Waterlevel:	Not Reported
Status:	Not Reported	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	3		
Remark:	BKCHD/LUM		

### Well Test Yield Information:

Wellid:	604589624	Date of test:	08/23/1999
Test type:	2	Time:	1
Yield:	15	Drawdown:	20
Date entered:	09/14/1999		

### Water Quality Information:

Sample id:	622555368	Well id:	604589624
Sample id:	8/27/99	sample date:	08/27/1999
Treated YN:	0		
Comments:	COLLECTED BY NICHOLSON DRILLING. TWISS LAB#01037414		

**AH110**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS**   **WAK100000003582**

Well id:	1461
Doe site id:	Not Reported
Usgs site id:	473432122341901
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-17B04
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	17
Quarter quarter1:	NW
Quarter quarter2:	NE
Elevation:	60
Well address:	Not Reported
Well city:	Not Reported
Well state:	Not Reported
Well zip:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	Not Reported	Water level:	1
Status:	Not Reported		

### Well Log Information:

Well log id:	1461	Well id:	1461
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	31	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	Not Reported
End construction:	Not Reported	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

AI111  
**SW**  
 1/2 - 1 Mile  
**Higher**

WA WELLS WAK100000003373

AG112  
**West**  
 1/2 - 1 Mile  
**Higher**

WA WELLS WAK100000003548

Well id:	1442
Doe site id:	Not Reported
Usgs site id:	473419122342501
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/01E-17G01
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	1
Meridian:	E
Section:	17
Quarter quarter1:	SW
Quarter quarter2:	NE

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elevation: 0  
 Well address: 694 KITSAP LAKE ROAD  
 Well city: BREMERTON  
 Well state: WA  
 Well zip: Not Reported  
 Date entered: 8/27/1991 0:00:00  
 Owner first: CLAUDE  
 Owner last: BROOKMAN  
 Owner address1: 694 KITSAP LAKE ROAD NW  
 Owner address2: Not Reported  
 Owner city: BREMERTON  
 Owner state: WA  
 Owner zip: Not Reported  
 WI date: 12/11/1989 0:00:00  
 Status: Not Reported

Water level: 69

### Well Log Information:

Well log id:	1442	Well id:	1442
Startcard:	036135	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	CABLE
Diameter of well:	6	Well depth drilled:	333
Well depth completed:	333	Elevation:	Not Reported
Pumpman:	BERKELEY	Pumptype:	SUB
Pump modelno:	1 HP	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	11/24/1989
End construction:	12/11/1989	Date entered:	08/27/1991
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	1
Survey date:	Not Reported		

### Geologic Information:

Well id:	1442	Geolog id:	16512
Geolog from:	300	Geolog to:	328
Material:	BL CLAY ,ROBBERY		
Date entered:	Not Reported		
Well id:	1442	Geolog id:	16513
Geolog from:	328	Geolog to:	328.00999999999999
Material:	BRN COARSE WATER ,SAND ,GRAVEL		
Date entered:	Not Reported		
Well id:	1442	Geolog id:	2324
Geolog from:	0	Geolog to:	4
Material:	BRN CLAY/SAND/GRAVEL		
Date entered:	Not Reported		
Well id:	1442	Geolog id:	2325
Geolog from:	4	Geolog to:	28
Material:	BRN CLAY/GRAVEL		
Date entered:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id: 1442 Geolog id: 2326  
 Geolog from: 28 Geolog to: 82  
 Material: BL CLAY  
 Date entered: Not Reported

Well id: 1442 Geolog id: 2327  
 Geolog from: 82 Geolog to: 84  
 Material: GRY SILTY SAND  
 Date entered: Not Reported

Well id: 1442 Geolog id: 2328  
 Geolog from: 84 Geolog to: 280  
 Material: BL CLAY  
 Date entered: Not Reported

Well id: 1442 Geolog id: 2329  
 Geolog from: 280 Geolog to: 290  
 Material: BL CLAY W SILT LAYERS  
 Date entered: Not Reported

Well id: 1442 Geolog id: 2330  
 Geolog from: 290 Geolog to: 300  
 Material: BL CLAY  
 Date entered: Not Reported

**Casing Information:**  
 Well id: 1442 Casing id: 1229  
 Casing from: 0 Casing to: 229  
 Casing diameter: 6 Casing thickness: 0  
 Casing type: Welded Date entered: 08/27/1991

**Screen Information:**  
 Well id: 1442 Screen id: 649  
 Screen from: 229 Screen to: 333  
 Screen man: JOHNSON Screen type: SS  
 Model num: Not Reported Screen diam: 5  
 Screen slotsize: .012 Date entered: Not Reported

**Seal Information:**  
 Well id: 1442 Seal id: 424  
 Seal top: 0 Seal bottom: 2.0E+001  
 Seal material: BENTONITE Unusable water: Not Reported  
 Water type: Not Reported Strata depth: 0  
 Seal method: Not Reported Date entered: 08/27/1991

**Well Test Yield Information:**  
 Wellid: 1442 Date of test: 12/11/1989  
 Test type: 1 Time: 4  
 Yield: 15 Drawdown: 45  
 Date entered: 02/13/1997

Wellid: 1442 Date of test: 12/11/1989  
 Test type: 2 Time: 4  
 Yield: 10 Drawdown: 30  
 Date entered: 02/13/1997

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Database	EDR ID Number	
Direction			
Distance			
Elevation			
<b>AH113</b>	<b>WA WELLS</b>	<b>WAK100000003586</b>	
<b>WNW</b>			
<b>1/2 - 1 Mile</b>			
<b>Higher</b>			
Well id:	1464		
Doe site id:	Not Reported		
Usgs site id:	473435122341801		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-17B05		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	17		
Quarter quarter1:	NW		
Quarter quarter2:	NE		
Elevation:	50		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	Not Reported	Water level:	
Status:	Not Reported	Not Reported	
Well Log Information:			
Well log id:	1464	Well id:	1464
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	72	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1935
End construction:	01/01/1935	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Casing Information:

Well id:	1464	Casing id:	1246
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

**AI114**  
**SW**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS** **WA6000000013284**

Objectid:	13259	Pwssrcid:	8389101
Oid :	17605	Pwsid:	83891
Srcnum:	01	Systemname:	STEAD WATER
Systemgrp:	B	Systemtype:	GRPB
Region:	Southwest	County:	KITSAP
Srcname:	WELL	Srctype:	Ground Water - Well
Srcuse:	Permanent		
Longitude:	-122.569		
Latitude:	47.56115		
Locmethod:	Quarter Quarter Section	Srcsuscept:	Not Rated
Dayphone:	(360) 871-0635	Addr1:	Not Reported
Addr2:	2856 WOODS RD SE	City:	PORT ORCHARD
State:	WA	Zip:	98366
Emailaddr:	Not Reported	Site id:	WA6000000013284

**AJ115**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS** **USGS3277437**

Agency cd:	USGS	Site no:	473500122325203
Site name:	24N/02E-09J03		
Latitude:	473500	EDR Site id:	USGS3277437
Longitude:	1223252	Dec lat:	47.58315225
Dec lon:	-122.54902345	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NE SE S09 T24N R02E W
Location map:	BREMERTON EAST	Map scale:	24000
Altitude:	15		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Alluvial or marine terrace		
Site type:	Ground-water other than Spring	Date construction:	19500101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	29	Hole depth:	Not Reported
Source of depth data:	other reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0  
Water quality data end date: 1978-07-25  
Ground water data begin date: 1967-05-16  
Ground water data count: 1

Water quality data begin date: 1967-05-16  
Water quality data count: 2  
Ground water data end date: 1967-05-16

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
1967-05-16	4	

AK116  
WNW  
1/2 - 1 Mile  
Higher

WA WELLS WAK100000003588

Well id:	1465
Doe site id:	Not Reported
Usgs site id:	473437122341701
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-17B06
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	17
Quarter quarter1:	NW
Quarter quarter2:	NE
Elevation:	60
Well address:	Not Reported
Well city:	Not Reported
Well state:	Not Reported
Well zip:	Not Reported
Date entered:	2/1/1988 0:00:00
Owner first:	Not Reported
Owner last:	Not Reported
Owner address1:	Not Reported
Owner address2:	Not Reported
Owner city:	Not Reported
Owner state:	Not Reported
Owner zip:	Not Reported
WI date:	Not Reported
Status:	Not Reported
Water level:	Not Reported

### Well Log Information:

Well log id:	1465	Well id:	1465
Start card:	Not Reported	Water right permit no:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	CABLE
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	620	Elevation:	Not Reported
Pumpman:	Not Reported	Pump type:	Not Reported
Pump model no:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1935
End construction:	01/01/1935	Date entered:	02/01/1988

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Fieldchecked by kpu: 0	Water temp: 0
chem anal: 0	Artpress date: Not Reported
Art flow: 0	Artflow date: Not Reported
Artpress: Not Reported	Artcontrol: Not Reported
Art elevation: Not Reported	By whom: Not Reported
Bailer airtest yn: 0	perf yn: 0
screens yn: 0	Gravel packyn: 0
Surface seal yn: 0	Well test yn: 0
Survey date: Not Reported	

### Casing Information:

Well id: 1465	Casing id: 1247
Casing from: Not Reported	Casing to: Not Reported
Casing diameter: 6	Casing thickness: 0
Casing type: Not Reported	Date entered: 02/01/1988

**AH117**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS** **WAK100000003576**

Well id: 1460	
Doe site id: Not Reported	
Usgs site id: 473430122342201	
Internal project no: Not Reported	
Local name: Not Reported	
Local number: 24N/02E-17B03	
Water right permit no: Not Reported	
Parcel id: Not Reported	
Township: 24	
Range: 2	
Meridian: E	
Section: 17	
Quarter quarter1: NW	
Quarter quarter2: NE	
Elevation: 80	
Well address: Not Reported	
Well city: Not Reported	
Well state: Not Reported	
Well zip: Not Reported	
Date entered: 2/1/1988 0:00:00	
Owner first: Not Reported	
Owner last: Not Reported	
Owner address1: Not Reported	
Owner address2: Not Reported	
Owner city: Not Reported	
Owner state: Not Reported	
Owner zip: Not Reported	
WI date: 1/1/1948 0:00:00	Water level: 110
Status: Not Reported	

### Well Log Information:

Well log id: 1460	Well id: 1460
Startcard: Not Reported	Waterright permitno: Not Reported
Proposed use: Not Reported	Proposed type: Not Reported
Type of work: Not Reported	Drilling method: CABLE
Diameter of well: Not Reported	Well depth drilled: Not Reported
Well depth completed: 140	Elevation: Not Reported
Pumpman: Not Reported	Pumptype: Not Reported
Pump modelno: Not Reported	Pump horsepower: Not Reported
Pump intake: 0	Start construction: 01/01/1948
End construction: 01/01/1948	Date entered: 02/01/1988

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Fieldchecked by kpu: 0	Water temp: 0
chem anal: 0	Artpress date: Not Reported
Art flow: 0	Artflow date: Not Reported
Artpress: Not Reported	Artcontrol: Not Reported
Art elevation: Not Reported	By whom: Not Reported
Bailer airtest yn: 0	perf yn: 0
screens yn: 0	Gravel packyn: 0
Surface seal yn: 0	Well test yn: 0
Survey date: Not Reported	

**AL118**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS** **WAK100000003302**

Well id: 1339	
Doe site id: Not Reported	
Usgs site id: 473324122332601	
Internal project no: Not Reported	
Local name: Not Reported	
Local number: 24N/02E-21F01	
Water right permit no: Not Reported	
Parcel id: Not Reported	
Township: 24	
Range: 2	
Meridian: E	
Section: 21	
Quarter quarter1: SE	
Quarter quarter2: NW	
Elevation: 290	
Well address: Not Reported	
Well city: Not Reported	
Well state: Not Reported	
Well zip: Not Reported	
Date entered: 2/1/1988 0:00:00	
Owner first: Not Reported	
Owner last: Not Reported	
Owner address1: Not Reported	
Owner address2: Not Reported	
Owner city: Not Reported	
Owner state: Not Reported	
Owner zip: Not Reported	
WI date: 4/1/1967 0:00:00	Water level: 176
Status: Not Reported	

**Well Log Information:**

Well log id: 1339	Well id: 1339
Startcard: Not Reported	Waterright permitno: Not Reported
Proposed use: Not Reported	Proposed type: Not Reported
Type of work: Not Reported	Drilling method: Not Reported
Diameter of well: Not Reported	Well depth drilled: Not Reported
Well depth completed: 226	Elevation: Not Reported
Pumpman: Not Reported	Pumptype: Not Reported
Pump modelno: Not Reported	Pump horsepower: Not Reported
Pump intake: 0	Start construction: 01/01/1967
End construction: 01/01/1967	Date entered: 02/01/1988

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Fieldchecked by kpu: 0	Water temp: 0
chem anal: 0	Artpress date: Not Reported
Art flow: 0	Artflow date: Not Reported
Artpress: Not Reported	Artcontrol: Not Reported
Art elevation: Not Reported	By whom: Not Reported
Bailer airtest yn: 0	perf yn: 0
screens yn: 1	Gravel packyn: 0
Surface seal yn: 0	Well test yn: 1
Survey date: Not Reported	

### Casing Information:

Well id: 1339	Casing id: 1144
Casing from: Not Reported	Casing to: Not Reported
Casing diameter: 6	Casing thickness: 0
Casing type: Not Reported	Date entered: 02/01/1988

### Screen Information:

Well id: 1339	Screen id: 611
Screen from: 0	Screen to: 222
Screen man: Not Reported	Screen type: Not Reported
Model num: Not Reported	Screen diam: Not Reported
Screen slotsize: Not Reported	Date entered: Not Reported

### Well test Recovery Information:

Wellid: 1339	Date of test: 01/01/1901
Testtype: 1	Time: 3
Waterlevel: 182	

### Well Test Yield Information:

Wellid: 1339	Date of test: 01/01/1901
Test type: 1	Time: 3
Yield: 12	Drawdown: 0
Date entered: 02/01/1988	

119  
WSW  
1/2 - 1 Mile  
Higher

WA WELLS WAK10000003411

AM120  
SW  
1/2 - 1 Mile  
Higher

WA WELLS WAK10000003396

Well id: 1368	
Doe site id: Not Reported	
Usgs site id: 473343122341301	
Internal project no: Not Reported	
Local name: Not Reported	
Local number: 24N/02E-20A02	
Water right permit no: Not Reported	
Parcel id: Not Reported	

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Township:	24		
Range:	2		
Meridian:	E		
Section:	20		
Quarter quarter1:	NE		
Quarter quarter2:	NE		
Elevation:	300		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	Not Reported	Water level:	26
Status:	Not Reported		

### Well Log Information:

Well log id:	1368	Well id:	1368
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	35	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	Not Reported
End construction:	Not Reported	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Casing Information:

Well id:	1368	Casing id:	1172
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	30	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

AI121  
SW  
1/2 - 1 Mile  
Higher

WA WELLS WA6000000013286

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	17044	Pwssrcid:	0203701
Oid :	1747	Pwsid:	02037
Srcnum:	01	Systemname:	CORBETT
Systemgrp:	B	Systemtype:	GRPB
Region:	Southwest	County:	KITSAP
Srcname:	Well 01	Srctype:	Ground Water - Well
Srcuse:	Permanent		
Longitude:	-122.56974		
Latitude:	47.56146		
Locmethod:	GPS	Srcsuscept:	Not Rated
Dayphone:	(360) 871-4559	Addr1:	Not Reported
Addr2:	2935 WOODS RD E	City:	PORT ORCHARD
State:	WA	Zip:	98366
Emailaddr:	Not Reported	Site id:	WA6000000013286

122  
WSW  
1/2 - 1 Mile  
Higher

WA WELLS WAK100000003460

Well id:	5297		
Doe site id:	AAB581		
Usgs site id:	Not Reported		
Internal project no:	Not Reported		
Local name:	JOHANSON PRIVATE WELL		
Local number:	24N/02E-17K01		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	17		
Quarter quarter1:	NW		
Quarter quarter2:	SE		
Elevation:	268		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/10/1993 0:00:00		
Owner first:	JOHN		
Owner last:	JOHANSON		
Owner address1:	3604 WOODS ROAD		
Owner address2:	Not Reported		
Owner city:	PORT ORCHARD		
Owner state:	WA		
Owner zip:	98366		
WI date:	5/30/1980 0:00:00	Water level:	27
Status:	Not Reported		

Well Log Information:			
Well log id:	11183	Well id:	5297
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Cable
Diameter of well:	6	Well depth drilled:	47.5
Well depth completed:	47.5	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	05/16/1980
End construction:	05/30/1980	Date entered:	02/20/1997

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Fieldchecked by kpu: 0	Water temp: 0
chem anal: 0	Artpress date: Not Reported
Art flow: 0	Artflow date: Not Reported
Artpress: Not Reported	Artcontrol: Not Reported
Art elevation: Not Reported	By whom: Not Reported
Bailer airtest yn: 0	perf yn: 0
screens yn: 1	Gravel packyn: 0
Surface seal yn: 1	Well test yn: 0
Survey date: Not Reported	

### Geologic Information:

Well id: 5297	Geolog id: 56633		
Geolog from: 0	Geolog to: 5		
Material: TOP SOIL BROWN HARDPAN			
Date entered: 02/20/1997			
Well id: 5297	Geolog id: 56634		
Geolog from: 5	Geolog to: 11		
Material: BROWN SANDY CLAY			
Date entered: 02/20/1997			
Well id: 5297	Geolog id: 56635		
Geolog from: 11	Geolog to: 12		
Material: BROWN HARDPAN			
Date entered: 02/20/1997			
Well id: 5297	Geolog id: 56636		
Geolog from: 12	Geolog to: 23		
Material: BROWN SANDY CLAY			
Date entered: 02/20/1997			
Well id: 5297	Geolog id: 56637		
Geolog from: 23	Geolog to: 28.5		
Material: SILTY WATER BEARING BROWN SND AND CLAY			
Date entered: 02/20/1997			
Well id: 5297	Geolog id: 56638		
Geolog from: 28.5	Geolog to: 29		
Material: BROWN DRY SANDY CLAY			
Date entered: 02/20/1997			
Well id: 5297	Geolog id: 56639		
Geolog from: 29	Geolog to: 46.5		
Material: LOSE WATER BEARING FINE BROWN SAND			
Date entered: 02/20/1997			
Well id: 5297	Geolog id: 56640		
Geolog from: 46.5	Geolog to: 47.5		
Material: BLUE CLAY			
Date entered: 02/20/1997			
<b>Casing Information:</b>			
Well id: 5297	Casing id: 4811		
Casing from: 46.5	Casing to: 47.5		
Casing diameter: 5	Casing thickness: 0		
Casing type: Welded	Date entered: 02/10/1993		

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	5297	Casing id:	4812
Casing from:	0	Casing to:	36.5
Casing diameter:	6	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/10/1993

Screen Information:

Well id:	5297	Screen id:	3140
Screen from:	36	Screen to:	46.5
Screen man:	JOHNSON	Screen type:	SS
Model num:	Not Reported	Screen diam:	6
Screen slotsize:	.01	Date entered:	Not Reported

Seal Information:

Well id:	5297	Seal id:	2577
Seal top:	0	Seal bottom:	1.9E+001
Seal material:	BENTONITE	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	0
Seal method:	Not Reported	Date entered:	02/10/1993

Well Test Yield Information:

Wellid:	5297	Date of test:	05/30/1980
Test type:	2	Time:	4
Yield:	5	Drawdown:	5
Date entered:	05/27/1996		

Water Quality Information:

Sample id:	1278	Well id:	5297
Sample id:	1/25/93	sample date:	01/25/1993
Treated YN:	0		
Comments:	COLLECTED BY KPUD/MM. DEPARTMENT OF HEALTH LAB#6301024		

AJ123  
NNE  
1/2 - 1 Mile  
Higher

**FED USGS**

**USGS3277446**

Agency cd:	USGS	Site no:	473501122325302
Site name:	24N/02E-09J02		
Latitude:	473501	EDR Site id:	USGS3277446
Longitude:	1223253	Dec lat:	47.58343002
Dec lon:	-122.54930126	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NE SE S09 T24N R02E W
Location map:	BREMERTON EAST	Map scale:	24000
Altitude:	15		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Alluvial or marine terrace		
Site type:	Ground-water other than Spring	Date construction:	19410101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	24	Hole depth:	Not Reported
Source of depth data:	other reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0  
 Water quality data end date: 1978-10-11  
 Ground water data begin date: 1967-05-16  
 Ground water data count: 1

Water quality data begin date: 1967-05-16  
 Water quality data count: 3  
 Ground water data end date: 1967-05-16

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1967-05-16	4	

**AL124**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS** **WAK100000003301**

Well id: 1340  
 Doe site id: Not Reported  
 Usgs site id: 47332412233003  
 Internal project no: Not Reported  
 Local name: Not Reported  
 Local number: 24N/02E-21F02  
 Water right permit no: Not Reported  
 Parcel id: Not Reported  
 Township: 24  
 Range: 2  
 Meridian: E  
 Section: 21  
 Quarter quarter1: SE  
 Quarter quarter2: NW  
 Elevation: 280  
 Well address: Not Reported  
 Well city: Not Reported  
 Well state: Not Reported  
 Well zip: Not Reported  
 Date entered: 2/1/1988 0:00:00  
 Owner first: Not Reported  
 Owner last: Not Reported  
 Owner address1: Not Reported  
 Owner address2: Not Reported  
 Owner city: Not Reported  
 Owner state: Not Reported  
 Owner zip: Not Reported  
 WI date: 4/1/1967 0:00:00      Water level: 73  
 Status: Not Reported

**Well Log Information:**

Well log id:	1340	Well id:	1340
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	81	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1967
End construction:	01/01/1967	Date entered:	02/01/1988

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Fieldchecked by kpu: 0	Water temp: 0
chem anal: 0	Artpress date: Not Reported
Art flow: 0	Artflow date: Not Reported
Artpress: Not Reported	Artcontrol: Not Reported
Art elevation: Not Reported	By whom: Not Reported
Bailer airtest yn: 0	perf yn: 0
screens yn: 0	Gravel packyn: 0
Surface seal yn: 0	Well test yn: 0
Survey date: Not Reported	

### Casing Information:

Well id: 1340	Casing id: 1145
Casing from: Not Reported	Casing to: Not Reported
Casing diameter: 30	Casing thickness: 0
Casing type: Not Reported	Date entered: 02/01/1988

**125**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3277331**

Agency cd: USGS	Site no: 473426122342101
Site name: 24N/02E-17B05	
Latitude: 473426	EDR Site id: USGS3277331
Longitude: 1223421	Dec lat: 47.57370743
Dec lon: -122.57374693	Coor meth: M
Coor accr: F	Latlong datum: NAD27
Dec latlong datum: NAD83	District: 53
State: 53	County: 035
Country: US	Land net: NW NE S17 T24N R02E W
Location map: Not Reported	Map scale: Not Reported
Altitude: 50	
Altitude method: Interpolated from topographic map	
Altitude accuracy: 10	
Altitude datum: National Geodetic Vertical Datum of 1929	
Hydrologic: Puget Sound. Washington. Area = 2550 sq.mi.	
Topographic: Hilltop	
Site type: Ground-water other than Spring	Date construction: 19480101
Date inventoried: Not Reported	Mean greenwich time offset: PST
Local standard time flag: Y	
Type of ground water site: Single well, other than collector or Ranney type	
Aquifer Type: Not Reported	
Aquifer: Not Reported	
Well depth: 130	Hole depth: Not Reported
Source of depth data: driller	
Project number: Not Reported	
Real time data flag: Not Reported	Daily flow data begin date: Not Reported
Daily flow data end date: Not Reported	Daily flow data count: Not Reported
Peak flow data begin date: Not Reported	Peak flow data end date: Not Reported
Peak flow data count: Not Reported	Water quality data begin date: Not Reported
Water quality data end date: Not Reported	Water quality data count: Not Reported
Ground water data begin date: Not Reported	Ground water data end date: Not Reported
Ground water data count: Not Reported	

Ground-water levels, Number of Measurements: 0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Database	EDR ID Number	
Direction			
Distance			
Elevation			
<b>AN126</b>	<b>WA WELLS</b>	<b>WAK100000003306</b>	
<b>SSW</b>			
<b>1/2 - 1 Mile</b>			
<b>Higher</b>			
Well id:	14081		
Doe site id:	ABV990		
Usgs site id:	Not Reported		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-21F04		
Water right permit no:	Not Reported		
Parcel id:	45900000290005		
Township:	24		
Range:	2		
Meridian:	E		
Section:	21		
Quarter quarter1:	SE		
Quarter quarter2:	NW		
Elevation:	285		
Well address:	2991 MARTIN ROAD		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	5/19/1997 12:56:58		
Owner first:	RICK		
Owner last:	TRONDSON		
Owner address1:	2991 MARTIN ROAD		
Owner address2:	Not Reported		
Owner city:	PORT ORCHARD		
Owner state:	WA		
Owner zip:	98366		
WI date:	2/28/1997 0:00:00	Water level:	
Status:	Not Reported	147	
Well Log Information:			
Well log id:	11536	Well id:	14081
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Cable
Diameter of well:	6	Well depth drilled:	178
Well depth completed:	178	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	02/14/1997
End construction:	02/28/1997	Date entered:	05/19/1997
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	0
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Geologic Information:

Well id:	14081	Geolog id:	58630
Geolog from:	1	Geolog to:	51
Material:	BROWN SANDY CLAY		
Date entered:	05/19/1997		
Well id:	14081	Geolog id:	58631
Geolog from:	51	Geolog to:	96
Material:	BROWN SAND		
Date entered:	05/19/1997		
Well id:	14081	Geolog id:	58632
Geolog from:	96	Geolog to:	110
Material:	BROWN TILL		
Date entered:	05/19/1997		
Well id:	14081	Geolog id:	58633
Geolog from:	110	Geolog to:	132
Material:	BROWN ROCKY TILL		
Date entered:	05/19/1997		
Well id:	14081	Geolog id:	58634
Geolog from:	132	Geolog to:	140
Material:	BLUE CLAY ROCKS		
Date entered:	05/19/1997		
Well id:	14081	Geolog id:	58635
Geolog from:	140	Geolog to:	145
Material:	GREY TILL		
Date entered:	05/19/1997		
Well id:	14081	Geolog id:	58636
Geolog from:	145	Geolog to:	175
Material:	BROWN TILL		
Date entered:	05/19/1997		
Well id:	14081	Geolog id:	66122
Geolog from:	175	Geolog to:	180
Material:	BROWN GRAVELWATER BEARING		
Date entered:	08/28/1998		

### Casing Information:

Well id:	14081	Casing id:	10972
Casing from:	0	Casing to:	178
Casing diameter:	6	Casing thickness:	Not Reported
Casing type:	Not Reported	Date entered:	05/19/1997

### Seal Information:

Well id:	14081	Seal id:	4138
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	Bentonite	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	Not Reported
Seal method:	Not Reported	Date entered:	05/19/1997

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Waterlevel Information:

Wellid:	14081	Wlid:	1712317767
Wldate:	04/02/1997	Waterlevel:	147
Status:	ST	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	Not Reported		
Remark:	PUMPING TEST DONE BY DRILLER		

Wellid:	14081	Wlid:	1737037692
Wldate:	04/02/1997	Waterlevel:	149
Status:	P	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	Not Reported		
Remark:	PUMPING 15 GPM AT 2 FT DRAWDOWN AFTER ONE HOUR		

### Well Test Yield Information:

Wellid:	14081	Date of test:	02/28/1997
Test type:	2	Time:	2
Yield:	10	Drawdown:	1
Date entered:	05/19/1997		

### Water Quality Information:

Sample id:	2069	Well id:	14081
Sample id:	3/2/97	sample date:	03/02/1997
Treated YN:	0		
Comments:	COLLECTED BY OLSEN DRILLING. TWISS LAB#01013374		

AN127  
SSW  
1/2 - 1 Mile  
Higher

WA WELLS WAK100000003307

Well id:	14326
Doe site id:	ACR303
Usgs site id:	Not Reported
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-21F05
Water right permit no:	Not Reported
Parcel id:	45900000290005
Township:	24
Range:	2
Meridian:	E
Section:	21
Quarter quarter1:	SE
Quarter quarter2:	NW
Elevation:	280
Well address:	LOT 13 & 14 MARTIN AVE E
Well city:	PORT ORCHRD
Well state:	WA
Well zip:	98366

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Date entered: 11/19/1997 11:53:31  
 Owner first: Not Reported  
 Owner last: TRONDSON CONST. INC. C/O RICK TRONDSON  
 Owner address1: 7985 VANDECAR ROAD SE  
 Owner address2: Not Reported  
 Owner city: PORT ORCHARD  
 Owner state: WA  
 Owner zip: 98367  
 WI date: 8/11/1997 0:00:00 Water level: 146  
 Status: Not Reported

### Well Log Information:

Well log id:	12027	Well id:	14326
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Rotary
Diameter of well:	6	Well depth drilled:	177
Well depth completed:	177	Elevation:	Not Reported
Pumpman:	GOULDS	Pumptype:	SUB 10GS10
Pump modelno:	1 HP	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	07/24/1997
End construction:	07/28/1997	Date entered:	11/19/1997
Fieldchecked by kpud:	0	Water temp:	50
chem anal:	1	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	by Driller
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	1
Survey date:	Not Reported		

### Geologic Information:

Well id:	14326	Geolog id:	62395
Geolog from:	0	Geolog to:	56
Material:	BROWN SANDY CLAY		
Date entered:	11/19/1997		
Well id:	14326	Geolog id:	62396
Geolog from:	56	Geolog to:	58
Material:	GRAY SILT		
Date entered:	11/19/1997		
Well id:	14326	Geolog id:	62397
Geolog from:	58	Geolog to:	93
Material:	FINE BROWN SILTY SAND		
Date entered:	11/19/1997		
Well id:	14326	Geolog id:	62398
Geolog from:	93	Geolog to:	122
Material:	LOOSE FINE GRAY SILTY SAND AND GRAVEL		
Date entered:	11/19/1997		
Well id:	14326	Geolog id:	62399
Geolog from:	122	Geolog to:	128
Material:	GRAY HARDPAN		
Date entered:	11/19/1997		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id: 14326 Geolog id: 62400  
 Geolog from: 128 Geolog to: 145  
 Material: GRAY SILTY SAND AND GRAVEL  
 Date entered: 11/19/1997

Well id: 14326 Geolog id: 62401  
 Geolog from: 145 Geolog to: 152  
 Material: GRAY SILTY GRAVEL  
 Date entered: 11/19/1997

Well id: 14326 Geolog id: 62402  
 Geolog from: 152 Geolog to: 177  
 Material: GRAY GRAVEL, WATER  
 Date entered: 11/19/1997

### Casing Information:

Well id:	14326	Casing id:	11259
Casing from:	0	Casing to:	177
Casing diameter:	6	Casing thickness:	Not Reported
Casing type:	Welded	Date entered:	11/19/1997

### Seal Information:

Well id:	14326	Seal id:	4394
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	Bentonite	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	Not Reported
Seal method:	Not Reported	Date entered:	11/19/1997

### Well test Recovery Information:

Wellid:	14326	Date of test:	08/11/1997
Testtype:	1	Time:	3
Waterlevel:	146		

### Well Test Yield Information:

Wellid:	14326	Date of test:	08/11/1997
Test type:	1	Time:	2
Yield:	15	Drawdown:	16
Date entered:	11/19/1997		

Wellid:	14326	Date of test:	08/11/1997
Test type:	3	Time:	1
Yield:	30	Drawdown:	0
Date entered:	11/19/1997		

### Water Quality Information:

Sample id:	3270	Well id:	14326
Sample id:	8/11/97	sample date:	08/11/1997
Treated YN:	0		
Comments:	COLLECTED BY OLY'S PUMP SERVICE. TWISS LABS		

128  
 WSW  
 1/2 - 1 Mile  
 Higher

WA WELLS WAK10000003446

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	1392
Doe site id:	Not Reported
Usgs site id:	473357122342501
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-17Q03
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	17
Quarter quarter1:	SW
Quarter quarter2:	SE
Elevation:	300
Well address:	Not Reported
Well city:	Not Reported
Well state:	Not Reported
Well zip:	Not Reported
Date entered:	2/1/1988 0:00:00
Owner first:	Not Reported
Owner last:	Not Reported
Owner address1:	Not Reported
Owner address2:	Not Reported
Owner city:	Not Reported
Owner state:	Not Reported
Owner zip:	Not Reported
WI date:	Not Reported
Status:	Not Reported
Water level:	6

### Well Log Information:

Well log id:	1392	Well id:	1392
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	Not Reported
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	10	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	Not Reported
End construction:	Not Reported	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Casing Information:

Well id:	1392	Casing id:	1191
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	72	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Database	EDR ID Number	
Direction			
Distance			
Elevation			
<b>AJ129</b>	<b>WA WELLS</b>	<b>WAK100000003659</b>	
<b>NNE</b>			
<b>1/2 - 1 Mile</b>			
<b>Lower</b>			
Well id:	1490		
Doe site id:	Not Reported		
Usgs site id:	473500122325203		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-09J01		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	9		
Quarter quarter1:	NE		
Quarter quarter2:	SE		
Elevation:	15		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	5/16/1967 0:00:00	Water level:	
Status:	Not Reported	3.5	
Well Log Information:			
Well log id:	1490	Well id:	1490
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	29	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1950
End construction:	01/01/1950	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Casing Information:

Well id:	1490	Casing id:	1267
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	42	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

**AL130**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3277140**

Agency cd:	USGS	Site no:	473324122332601
Site name:	24N/02E-21F02	EDR Site id:	USGS3277140
Latitude:	473324	Dec lat:	47.55648552
Longitude:	1223326	Coor meth:	M
Dec lon:	-122.55846773	Latlong datum:	NAD27
Coor accr:	S	District:	53
Dec latlong datum:	NAD83	County:	035
State:	53	Land net:	SE NW S21 T24N R02E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	290		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19670101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	226	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1971-03-29
Water quality data end date:	1972-04-11	Water quality data count:	2
Ground water data begin date:	1967-04-01	Ground water data end date:	1967-04-01
Ground water data count:	1		

### Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
------	-----------------------	---------------------

1967-04-01 176

**AH131**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3277349**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	473432122341901
Site name:	24N/02E-17B03	EDR Site id:	USGS3277349
Latitude:	473432	Dec lat:	47.5753741
Longitude:	1223419	Coor meth:	M
Dec lon:	-122.57319139	Latlong datum:	NAD27
Coor accr:	S	District:	53
Dec latlong datum:	NAD83	County:	035
State:	53	Land net:	NW NE S17 T24N R02E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	55		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Hilltop		
Site type:	Ground-water other than Spring	Date construction:	19010101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	31	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1901-01-01	Ground water data end date:	1901-01-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
1901-01-01	1	

**AO132**  
**South**  
**1/2 - 1 Mile**  
**Higher**

WA WELLS WAK100000003295

Well id:	1337
Doe site id:	Not Reported
Usgs site id:	473322122330701
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-21G01
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	21
Quarter quarter1:	SW
Quarter quarter2:	NE

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elevation:	290		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	4/1/1967 0:00:00	Water level:	20
Status:	Not Reported		

### Well Log Information:

Well log id:	1337	Well id:	1337
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	28	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1955
End construction:	01/01/1955	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Casing Information:

Well id:	1337	Casing id:	1142
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	36	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

133  
SSW  
1/2 - 1 Mile  
Higher

WA WELLS WAK100000003314

Well id:	1344
Doe site id:	Not Reported
Usgs site id:	473328122335101
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-21E01
Water right permit no:	Not Reported
Parcel id:	Not Reported

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Township:	24		
Range:	2		
Meridian:	E		
Section:	21		
Quarter quarter1:	SW		
Quarter quarter2:	NW		
Elevation:	140		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	2/1/1988 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	5/1/1950 0:00:00	Water level:	4
Status:	Not Reported		

### Well Log Information:

Well log id:	1344	Well id:	1344
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	17	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1949
End construction:	01/01/1949	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

**AN134**

**SSW**

**1/2 - 1 Mile**

**Higher**

**FED USGS      USGS3277141**

Agency cd:	USGS	Site no:	473324122333003
Site name:	24N/02E-21F03		
Latitude:	473324	EDR Site id:	USGS3277141
Longitude:	1223330	Dec lat:	47.5564855
Dec lon:	-122.5595789	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	SE NW S21 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude: 280  
Altitude method: Interpolated from topographic map  
Altitude accuracy: 10  
Altitude datum: National Geodetic Vertical Datum of 1929  
Hydrologic: Puget Sound. Washington. Area = 2550 sq.mi.  
Topographic: Not Reported  
Site type: Ground-water other than Spring Date construction: 19670101  
Date inventoried: Not Reported Mean greenwich time offset: PST  
Local standard time flag: Y  
Type of ground water site: Single well, other than collector or Ranney type  
Aquifer Type: Not Reported  
Aquifer: Not Reported  
Well depth: 81 Hole depth: Not Reported  
Source of depth data: reporting agency (generally USGS)  
Project number: Not Reported  
Real time data flag: 0 Daily flow data begin date: 0000-00-00  
Daily flow data end date: 0000-00-00 Daily flow data count: 0  
Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00  
Peak flow data count: 0 Water quality data begin date: 0000-00-00  
Water quality data end date: 0000-00-00 Water quality data count: 0  
Ground water data begin date: 1967-04-01 Ground water data end date: 1967-04-01  
Ground water data count: 1

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
1967-04-01	73	

AJ135  
NNE  
1/2 - 1 Mile  
Lower

WA WELLS WAK100000003665

Well id: 1492  
Doe site id: Not Reported  
Usgs site id: 473501122325302  
Internal project no: Not Reported  
Local name: Not Reported  
Local number: 24N/02E-09J02  
Water right permit no: Not Reported  
Parcel id: Not Reported  
Township: 24  
Range: 2  
Meridian: E  
Section: 9  
Quarter quarter1: NE  
Quarter quarter2: SE  
Elevation: 15  
Well address: Not Reported  
Well city: Not Reported  
Well state: Not Reported  
Well zip: Not Reported  
Date entered: 2/1/1988 0:00:00  
Owner first: Not Reported  
Owner last: Not Reported  
Owner address1: Not Reported  
Owner address2: Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Owner city:	Not Reported	Water level:	3.5
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	5/16/1967 0:00:00		
Status:	Not Reported		

### Well Log Information:

Well log id:	1492	Well id:	1492
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	DUG
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	24	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/01/1941
End construction:	01/01/1941	Date entered:	02/01/1988
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Casing Information:

Well id:	1492	Casing id:	1269
Casing from:	Not Reported	Casing to:	Not Reported
Casing diameter:	48	Casing thickness:	0
Casing type:	Not Reported	Date entered:	02/01/1988

**AL136**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS**    **WAK100000003294**

**AH137**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**    **USGS3277356**

Agency cd:	USGS	Site no:	473435122341801
Site name:	24N/02E-17B04		
Latitude:	473435	EDR Site id:	USGS3277356
Longitude:	1223418	Dec lat:	47.57620744
Dec lon:	-122.57291363	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	NW NE S17 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude: 50  
 Altitude method: Interpolated from topographic map  
 Altitude accuracy: 10  
 Altitude datum: National Geodetic Vertical Datum of 1929  
 Hydrologic: Puget Sound. Washington. Area = 2550 sq.mi.  
 Topographic: Not Reported  
 Site type: Ground-water other than Spring Date construction: 19350101  
 Date inventoried: Not Reported Mean greenwich time offset: PST  
 Local standard time flag: Y  
 Type of ground water site: Single well, other than collector or Ranney type  
 Aquifer Type: Not Reported  
 Aquifer: Not Reported  
 Well depth: 72 Hole depth: Not Reported  
 Source of depth data: driller  
 Project number: Not Reported  
 Real time data flag: Not Reported Daily flow data begin date: Not Reported  
 Daily flow data end date: Not Reported Daily flow data count: Not Reported  
 Peak flow data begin date: Not Reported Peak flow data end date: Not Reported  
 Peak flow data count: Not Reported Water quality data begin date: Not Reported  
 Water quality data end date: Not Reported Water quality data count: Not Reported  
 Ground water data begin date: Not Reported Ground water data end date: Not Reported  
 Ground water data count: Not Reported

Ground-water levels, Number of Measurements: 0

**AO138**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3277135**

Agency cd:	USGS	Site no:	473322122330701
Site name:	24N/02E-21G01		
Latitude:	473322	EDR Site id:	USGS3277135
Longitude:	1223307	Dec lat:	47.55593005
Dec lon:	-122.55318963	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	035
Country:	US	Land net:	SW NE S21 T24N R02E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	285		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19550101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	28	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0  
 Water quality data end date: 0000-00-00  
 Ground water data begin date: 1967-04-01  
 Ground water data count: 1

Water quality data begin date: 0000-00-00  
 Water quality data count: 0  
 Ground water data end date: 1967-04-01

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1967-04-01	20	

**AK139**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**      **USGS3277359**

Agency cd:	USGS	Site no:	473437122341701
Site name:	24N/02E-17B01	EDR Site id:	USGS3277359
Latitude:	473437	Dec lat:	47.576763
Longitude:	1223417	Coor meth:	M
Dec lon:	-122.57263585	Latlong datum:	NAD27
Coor accr:	S	District:	53
Dec latlong datum:	NAD83	County:	035
State:	53	Land net:	NW NE S17 T24N R02E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	60		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	19350101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	620	Hole depth:	Not Reported
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**AP140**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS**      **WAK100000003537**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id:	14727		
Doe site id:	Not Reported		
Usgs site id:	473418122343002		
Internal project no:	Not Reported		
Local name:	Not Reported		
Local number:	24N/02E-17G04		
Water right permit no:	Not Reported		
Parcel id:	Not Reported		
Township:	24		
Range:	2		
Meridian:	E		
Section:	17		
Quarter quarter1:	SW		
Quarter quarter2:	NE		
Elevation:	Not Reported		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	8/27/1998 14:47:03		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
Wl date:	Not Reported	Water level:	Not Reported
Status:	Not Reported		
Waterlevel Information:			
Wellid:	14727	Wlid:	-1680460415
Wldate:	03/18/1992	Waterlevel:	6.21999979
Status:	Not Reported	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	1.149999999999999		
Remark:	PRIVATE WELL PROGRAM		

AP141  
West  
1/2 - 1 Mile  
Higher

WA WELLS WAK100000003536

Well id:	1438
Doe site id:	Not Reported
Usgs site id:	473418122343001
Internal project no:	Not Reported
Local name:	FLAGG
Local number:	24N/02E-17G02
Water right permit no:	Not Reported
Parcel id:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Township:	24		
Range:	2		
Meridian:	E		
Section:	17		
Quarter quarter1:	SW		
Quarter quarter2:	NE		
Elevation:	100		
Well address:	Not Reported		
Well city:	Not Reported		
Well state:	Not Reported		
Well zip:	Not Reported		
Date entered:	1/25/1994 0:00:00		
Owner first:	Not Reported		
Owner last:	Not Reported		
Owner address1:	Not Reported		
Owner address2:	Not Reported		
Owner city:	Not Reported		
Owner state:	Not Reported		
Owner zip:	Not Reported		
WI date:	Not Reported	Water level:	7.910000000000001
Status:	Not Reported		

### Well Log Information:

Well log id:	1438	Well id:	1438
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Not Reported	Proposed type:	Not Reported
Type of work:	Not Reported	Drilling method:	Not Reported
Diameter of well:	Not Reported	Well depth drilled:	Not Reported
Well depth completed:	Not Reported	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	Not Reported
End construction:	Not Reported	Date entered:	01/25/1994
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	0	Gravel packyn:	0
Surface seal yn:	0	Well test yn:	0
Survey date:	Not Reported		

### Waterlevel Information:

Wellid:	1438	Wlid:	-1096156288
Wldate:	03/18/1992	Waterlevel:	9.46000004
Status:	Not Reported	Method:	Not Reported
Accuracy:	Not Reported	Installflag:	0
Artpress:	Not Reported	Artdate:	Not Reported
Artcontrol:	Not Reported	Elevation:	Not Reported
Stickup:	1.55		
Remark:	PRIVATE WELL PROGRAM		

### Water Quality Information:

Sample id:	1276	Well id:	1438
Sample id:	3/18/92	sample date:	03/18/1992
Treated YN:	0		
Comments:	COLLECTED BY KPUD/BA. DEPARTMENT OF HEALTH LAB#630732		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Database	EDR ID Number	
Direction			
Distance			
Elevation			
<b>AJ142</b>	<b>FED USGS</b>	<b>USGS3277456</b>	
<b>NNE</b>			
<b>1/2 - 1 Mile</b>			
<b>Higher</b>			
Agency cd:	USGS	Site no:	473503122325301
Site name:	24N/02E-09J01	EDR Site id:	USGS3277456
Latitude:	473503	Dec lat:	47.58398558
Longitude:	1223253	Coor meth:	M
Dec lon:	-122.54930127	Latlong datum:	NAD27
Coor accr:	S	District:	53
Dec latlong datum:	NAD83	County:	035
State:	53	Land net:	NE SE S09 T24N R02E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	15		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Alluvial or marine terrace		
Site type:	Ground-water other than Spring	Date construction:	19460101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	51	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1967-05-01	Ground water data end date:	1967-05-01
Ground water data count:	1		
Ground-water levels, Number of Measurements: 1			
	Feet below	Feet to	
Date	Surface	Sealevel	
-----			
1967-05-01	3		

<b>143</b>	<b>FED USGS</b>	<b>USGS3277345</b>
<b>WNW</b>		
<b>1/2 - 1 Mile</b>		
<b>Higher</b>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	473430122342201
Site name:	24N/02E-17B06	EDR Site id:	USGS3277345
Latitude:	473430	Dec lat:	47.57481854
Longitude:	1223422	Coor meth:	M
Dec lon:	-122.57402476	Latlong datum:	NAD27
Coor accr:	S	District:	53
Dec latlong datum:	NAD83	County:	035
State:	53	Land net:	NW NE S17 T24N R02E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	80		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19480101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	140	Hole depth:	Not Reported
Source of depth data:	owner		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1948-01-01	Ground water data end date:	1948-01-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
1948-01-01	110	

**AM144**  
**SW**  
**1/2 - 1 Mile**  
**Higher**

WA WELLS WAK10000003379

Well id:	6216
Doe site id:	ABA739
Usgs site id:	Not Reported
Internal project no:	Not Reported
Local name:	Not Reported
Local number:	24N/02E-20A04
Water right permit no:	Not Reported
Parcel id:	Not Reported
Township:	24
Range:	2
Meridian:	E
Section:	20
Quarter quarter1:	NE
Quarter quarter2:	NE

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elevation: 302  
 Well address: 3129 WOODS RD E  
 Well city: PORT ORCHARD  
 Well state: WA  
 Well zip: 983366  
 Date entered: 8/4/1995 0:00:00  
 Owner first: CHARLES  
 Owner last: JESCH  
 Owner address1: 5070 SW DAISY STREET  
 Owner address2: Not Reported  
 Owner city: PORT ORCHARD  
 Owner state: WA  
 Owner zip: 98366  
 WI date: 5/22/1995 0:00:00  
 Status: Not Reported

Water level: 4.299999999999998

### Well Log Information:

Well log id:	5316	Well id:	6216
Startcard:	W058151	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Cable
Diameter of well:	6	Well depth drilled:	51.9000015
Well depth completed:	51.89999999999999	Elevation:	Not Reported
Pumpman:	Not Reported	Pumptype:	Not Reported
Pump modelno:	Not Reported	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	05/17/1995
End construction:	05/22/1995	Date entered:	Not Reported
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	0	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	Not Reported
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	0
Survey date:	Not Reported		

### Geologic Information:

Well id:	6216	Geolog id:	26034
Geolog from:	0	Geolog to:	1
Material:	PIPE STICK-UP		
Date entered:	Not Reported		
Well id:	6216	Geolog id:	26035
Geolog from:	1	Geolog to:	4
Material:	BROWN TOP SOIL		
Date entered:	Not Reported		
Well id:	6216	Geolog id:	26036
Geolog from:	4	Geolog to:	51
Material:	BROWN FINE SAND WATER BEARING		
Date entered:	Not Reported		
Well id:	6216	Geolog id:	26037
Geolog from:	51	Geolog to:	52
Material:	GRAY SAND FINE WATER BEARING		
Date entered:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Casing Information:

Well id:	6216	Casing id:	5574
Casing from:	0	Casing to:	41.600000000000001
Casing diameter:	6	Casing thickness:	0
Casing type:	Welded	Date entered:	Not Reported

### Screen Information:

Well id:	6216	Screen id:	3841
Screen from:	41.39999999999999	Screen to:	51.89999999999999
Screen man:	COOK	Screen type:	SS
Model num:	Not Reported	Screen diam:	6
Screen slotsize:	.01	Date entered:	Not Reported

### Seal Information:

Well id:	6216	Seal id:	3966
Seal top:	0	Seal bottom:	1.8E+001
Seal material:	Bentonite	Unusable water:	Not Reported
Water type:	Not Reported	Strata depth:	Not Reported
Seal method:	Not Reported	Date entered:	02/20/1997

### Well Test Yield Information:

Wellid:	6216	Date of test:	05/22/1995
Test type:	2	Time:	1
Yield:	12	Drawdown:	26.69999999999999
Date entered:	05/27/1996		

### Water Quality Information:

Sample id:	1281	Well id:	6216
Sample id:	5/24/95	sample date:	05/24/1995
Treated YN:	0		
Comments:	COLLECTED BY NICHOLSON DRILLING. TWISS LAB#01002421		

145  
SW  
1/2 - 1 Mile  
Higher

WA WELLS WAK10000003325

Well id:	-2019288180
Doe site id:	AKR026
Usgs site id:	Not Reported
Internal project no:	Not Reported
Local name:	BOB MILLER
Local number:	24N/02E-20H02
Water right permit no:	Not Reported
Parcel id:	20240210032007
Township:	24
Range:	2
Meridian:	E
Section:	20
Quarter quarter1:	SE
Quarter quarter2:	NE
Elevation:	265
Well address:	WOODS ROAD E
Well city:	PORT ORCHARD
Well state:	WA
Well zip:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Date entered: 4/8/2005 11:54:44  
 Owner first: BOB  
 Owner last: MILLER  
 Owner address1: Not Reported  
 Owner address2: Not Reported  
 Owner city: Not Reported  
 Owner state: Not Reported  
 Owner zip: Not Reported  
 WI date: 1/14/2004 0:00:00 Water level: 159.80000000000001  
 Status: Not Reported

### Well Log Information:

Well log id:	1872273309	Well id:	-2019288180
Startcard:	Not Reported	Waterright permitno:	Not Reported
Proposed use:	Domestic	Proposed type:	Not Reported
Type of work:	New Well	Drilling method:	Rotary
Diameter of well:	6	Well depth drilled:	237
Well depth completed:	237	Elevation:	Not Reported
Pumpman:	GOULDS	Pumptype:	SUBMERSIBLE
Pump modelno:	1.5	Pump horsepower:	Not Reported
Pump intake:	0	Start construction:	01/10/2004
End construction:	01/13/2004	Date entered:	04/08/2005
Fieldchecked by kpud:	0	Water temp:	0
chem anal:	1	Artpress date:	Not Reported
Art flow:	0	Artflow date:	Not Reported
Artpress:	Not Reported	Artcontrol:	Not Reported
Art elevation:	Not Reported	By whom:	GRESHAM
Bailer airtest yn:	0	perf yn:	0
screens yn:	1	Gravel packyn:	0
Surface seal yn:	1	Well test yn:	1
Survey date:	Not Reported		

### Geologic Information:

Well id:	-2019288180	Geolog id:	-1953097146
Geolog from:	8	Geolog to:	37
Material:	BLUE CLAY		
Date entered:	04/08/2005		
Well id:	-2019288180	Geolog id:	-1462465259
Geolog from:	154	Geolog to:	166
Material:	GRAVEL, LOW H2O		
Date entered:	04/08/2005		
Well id:	-2019288180	Geolog id:	710077771
Geolog from:	166	Geolog to:	176
Material:	CEMENTED GRAVEL W/ CLAY		
Date entered:	04/08/2005		
Well id:	-2019288180	Geolog id:	1508041188
Geolog from:	68	Geolog to:	154
Material:	BLUE CLAY		
Date entered:	04/08/2005		
Well id:	-2019288180	Geolog id:	226826288
Geolog from:	176	Geolog to:	224
Material:	BLUE CLAY		
Date entered:	04/08/2005		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well id: -2019288180      Geolog id: 1641474937  
 Geolog from: 0      Geolog to: 8  
 Material: BROWN SAND  
 Date entered: 04/08/2005

Well id: -2019288180      Geolog id: 410878543  
 Geolog from: 37      Geolog to: 68  
 Material: BROWN CLAY  
 Date entered: 04/08/2005

Well id: -2019288180      Geolog id: 270557297  
 Geolog from: 224      Geolog to: 237  
 Material: SAND, H2O  
 Date entered: 04/08/2005

**Casing Information:**

Well id: -2019288180      Casing id: 1400577178  
 Casing from: 1      Casing to: 227  
 Casing diameter: 6      Casing thickness: Not Reported  
 Casing type: Welded      Date entered: 04/08/2005

**Screen Information:**

Well id: -2019288180      Screen id: -321494253  
 Screen from: 227      Screen to: 237  
 Screen man: JOHNSON      Screen type: STAINLESS STEEL  
 Model num: Not Reported      Screen diam: 5  
 Screen slotsize: .01      Date entered: 04/08/2005

**Seal Information:**

Well id: -2019288180      Seal id: -462259112  
 Seal top: 0      Seal bottom: 1.8E+001  
 Seal material: Bentonite      Unusable water: NO  
 Water type: Not Reported      Strata depth: Not Reported  
 Seal method: Not Reported      Date entered: 04/08/2005

**Well Water Rights Information:**

Well id: -2019288180      Description: Exempt  
 Wrnumber: Not Reported      Priority date: Not Reported  
 Dblwrqi: Not Reported      Dblwrqa: Not Reported  
 Dblwrqas: Not Reported

**Well test Recovery Information:**

Wellid: -2019288180      Date of test: 01/14/2004  
 Testtype: 1      Time: 4  
 Waterlevel: 0

**Well Test Yield Information:**

Wellid: -2019288180      Date of test: 01/14/2004  
 Test type: 1      Time: 1  
 Yield: 16      Drawdown: 5.4000000000000004  
 Date entered: 04/08/2005

Wellid: -2019288180      Date of test: 01/14/2004  
 Test type: 2      Time: 1  
 Yield: 20      Drawdown: 12  
 Date entered: 03/29/2006

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

### Water Quality Information:

Sample id:	-1818854946	Well id:	-2019288180
Sample id:	1/21/04	sample date:	01/21/2004
Treated YN:	0		
Comments:	TWISS LAB #01001405		

## **GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON**

### **AREA RADON INFORMATION**

Federal EPA Radon Zone for KITSAP County: 3

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.

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Federal Area Radon Information for Zip Code: 98366

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.400 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.400 pCi/L	100%	0%	0%
Basement	Not Reported	Not Reported	Not Reported	Not Reported

# 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.

## HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 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<sup>R</sup> 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.

## 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.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

#### 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 IRRA 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

### STREET AND ADDRESS INFORMATION

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**Environmental Assessment Summary and  
Finding Of No Significant Impact for  
National Oceanic and Atmospheric Administration  
Northwest Fisheries Science Center  
Manchester Research Station Salmon Recovery Building**

**Environmental Assessment Summary**

**Purpose and Need**

The National Oceanic and Atmospheric Administration (NOAA) has been providing safety net rearing of Chinook salmon listed as endangered under the United States Endangered Species Act (ESA) at the Northwest Fisheries Science Center (NWFSC) Manchester Research Station (MRS) since 1991. Captive broodstocks for these fish have been reared in facilities at MRS facilities since 1994.

NOAA is currently engaged in a cooperative program with various state and tribal entities to preserve and recover two ESA listed Puget Sound Chinook stocks, the South Fork Nooksack River spring Chinook and the Stillaguamish River fall Chinook. This action calls for the creation of captive broodstock programs for each stock. NOAA's participation in this program involves rearing of these captive broodstocks in seawater at the MRS. Rearing in seawater is a natural and critical phase of the Chinook salmon life cycle. The MRS will receive juvenile fish each year, raise the juveniles to adult size, and return them to Nooksack and Stillaguamish hatcheries for spawning. This type of program allows for amplification of depressed or declining stocks to provide immediate aide toward recovery. In 2008 the NWFSC began providing safety net rearing at MRS for one of the two constraining stocks of Puget Sound Chinook, with rearing of the second stock scheduled to begin in 2011. However, due to an expansion of the current endangered Redfish Lake sockeye captive broodstock program at MRS, NOAA has a lack of available space for the Puget Sound Chinook. Therefore a new facility has been proposed for construction to provide sufficient capacity to rear these stocks over a ten year period. Without the new facility, NOAA will be unable to satisfy current obligations under the ESA.

**Proposed Action**

The proposed action is to construct a new pole building at the NWFSC MRS, adjacent to existing facilities. The building will be 7,128 square feet (54' X 132') with a shallow spread footing foundation. It will house twelve circular saltwater fish rearing tanks, each 16.5 feet in diameter and 5 feet deep (1,070 cubic feet). Each year, approximately 1,000 juvenile fish would be brought into the facility and 500 mature fish would be shipped out to hatcheries.

This proposed action would provide sufficient broodstock capacity to meet NOAA ESA obligations for the South Fork Nooksack River spring Chinook and the Stillaguamish

River fall Chinook for the next 10 years.

### **Site Alternative Considered**

The No Action Alternative would result in the NWFSC MRS continuing operation at its current levels of activity. If adapted, there would not be adequate space to support current NOAA obligations under the ESA for the two listed Puget Sound Chinook stocks, the South Fork Nooksack River spring Chinook and the Stillaguamish River fall Chinook.

### **Environmental Impacts and Mitigation Measures**

NOAA prepared an EA analyzing the proposed action in conformance with procedural requirements of the National Environmental Policy Act of 1969 (NEPA). The document adheres to requirements of NOAA Administrative Order 216-6, Environmental Review Procedures for Implementing the National Environmental Policy Act (amended May 20, 1999).

Based on an evaluation of the proposed action's effect on the human environment, it was determined that no significant impacts would result. The EA analyzed the following issue areas:

- Land Use
- Coastal Zone Management
- Traffic and Circulation
- Visual Quality
- Noise
- Recreational Resources
- Topography
- Climate
- Air Quality
- Geology
- Hydrology
- Hydrogeology
- Floodplains
- Marine Environment
- Biotic Environment (including vegetation, wildlife and endangered species)
- Historical Resources
- Cultural Resources
- Wildlife Refuges
- Contaminated Sites
- Public Services
- Growth Inducing Impacts
- Cumulative Impacts

No significant unavoidable adverse impacts to any resource area were identified. The proposed action will not result in any significant impacts to the environment. The proposed building site is situated adjacent to the existing research facility and would use available capacity from existing infrastructure. Best management practices would be employed during construction for minimizing the impacts to the air, water, and noise environment, and for proper handling of hazardous materials. At the request of the Suquamish Tribe, a professional archaeologist would be on site to monitor all ground-disturbing activities during building construction. No additional mitigation measures have been identified for this project. There should be virtually no impact once the facility is operational.

The Draft EA was made available for public and agency comments from July 2, 2010 until August 2, 2010. No comments were received.

### **Finding of No Significant Impact**

The Council on Environmental Quality (CEQ) Regulations state that the determination of significance using an analysis of effects requires examination of both context and intensity, and lists ten criteria for intensity (40 CFR 1508.27). In addition, NOAA Administrative Order (NAO) 216-6, Section 6.01(b) 1 – 11, provides eleven criteria, the same ten as the CEQ Regulations and one additional for determining whether the impacts of a proposed action are significant. Each criterion is discussed below with respect to the proposed action and considered individually as well as in combination with the others.

- 1. Can the proposed action reasonably be expected to cause both beneficial and adverse impacts that overall may result in a significant effect, even if the effect will be beneficial?*

The proposed action is not expected to result in any significant impacts. A small positive impact on the socioeconomics of the community is anticipated. There would be minor, temporary, adverse impacts to traffic, noise, air quality, hydrology, vegetation, and wildlife, but only during construction. The overall effect is not considered to be significant, either beneficial or adverse.

- 2. Can the proposed action reasonably be expected to significantly affect public health or safety?*

The proposed action is not expected to result in any significant affect to public health or safety. Best Management Practices should be employed during construction to minimize potential temporary impacts to traffic, air, water, and noise environment, and for proper handling of hazardous materials. There should be virtually no impact once the facility is operational.

*3. Can the proposed action reasonably be expected to result in significant impacts to unique characteristics of the geographic area, such as proximity to historic or cultural resources, park lands, prime farmlands, wetlands, wild and scenic rivers, or ecologically critical areas?*

The proposed action is not expected to result in significant impacts to unique characteristics of the geographic area. No historic or cultural resources, park lands, farmlands, wetlands, wild and scenic rivers or ecologically critical areas were identified within the boundary of the proposed action. There will be no perceptible change to the aesthetics of the MRS since the proposed building is similar in structure and purpose to those already existing at the facility and will be located adjacent to existing MRS buildings.

*4. Are the proposed action's effects on the quality of the human environment likely to be highly controversial?*

None of the proposed action's effects are likely to be highly controversial. The MRS is located in the Manchester Annex which houses other federal facilities and is isolated from the general population of Port Orchard, Washington. The proposed pole building will be an extension to the existing MRS and will be similar in aesthetics and purpose. There will be no significant negative impact to the quality of the human environment. No comments from the public were received during the public comment period for the Draft EA; therefore, no controversy is anticipated as a result of the proposed action.

*5. Are the proposed action's effects on the human environment likely to be highly uncertain or involve unique or unknown risks?*

The effects of the proposed action are not likely to involve unique or unknown risks. The proposed building will be constructed on a previously disturbed site and the building will be relatively small in scale (7,128 ft<sup>2</sup>). In addition, the building will be an extension of the existing MRS facility and will be used for similar purposes.

*6. Can the proposed action reasonably be expected to establish a precedent for future actions with significant effects or represent a decision in principle about a future consideration?*

The proposed action is not expected to set a precedent for future actions with significant effects or represent a decision in principle about a future consideration. The action is being proposed to expand fish rearing capacity at the NWFSC MRS to support NOAA obligations under the Endangered Species Act.

*7. Is the proposed action related to other actions that when considered together will have individually insignificant but cumulatively significant impacts?*

The proposed action is not expected to have significant impacts or to cause cumulatively significant impacts when considered together with other related projects. Upon completion of the proposed action, a positive impact will be progress toward the recovery of two ESA listed Puget Sound Chinook Salmon stocks.

*8. Can the proposed action reasonably be expected to adversely affect districts, sites, highways, structures, or objects listed in or eligible for listing in the National Register of Historic Places or may cause loss or destruction of significant scientific, cultural, or historical resources?*

The proposed action is not anticipated to adversely affect districts, sites, highways, structures, or objects listed in or eligible for listing in the National Register of Historic Places or cause loss or destruction of significant scientific, cultural, or historical resources. The proposed building site is on pre-disturbed land. The Washington Department of Archaeology and Historic Preservation and three Kitsap County Tribes were consulted regarding the proposed action. In addition, as a precautionary measure, a professional archaeologist will be present to monitor all ground-disturbing construction excavation activities.

*9. Can the proposed action reasonably be expected to have a significant impact on endangered or threatened species or their critical habitat as defined under the Endangered Species Act of 1973?*

Coordination with the U.S. Fish and Wildlife Service has indicated that no significant resources will be impacted by the proposed action.

*10. Can the proposed action reasonably be expected to threaten a violation of Federal, state, or local law or requirements imposed for environmental protection?*

The proposed action is not expected to threaten a violation of Federal, state, or local law or requirements imposed for environmental protection. The Washington State Department of Ecology was consulted regarding the proposed action and has agreed that the action is consistent with the Coastal Zone Management Program.

*11. Can the proposed action reasonably be expected to result in the introduction or spread of a non-indigenous species?*

The proposed action is not expected to result in the introduction or spread of any non-indigenous species. Sufficient precautionary measures will be

taken to ensure that no introduction or spread of non-indigenous species occurs. The project will comply with all local, state, and federal regulations minimizing the risk of introducing a non-indigenous species.

### Determination

In view of the information presented in this document and the analysis contained in the supporting Environmental Assessment prepared for the Northwest Fisheries Science Center (NWFSC) Manchester Research Station (MRS) Salmon Recovery Building, it is hereby determined that the proposed action (construction of a pole building at NWFSC MRS) will not significantly impact the quality of the human environment as described above and in the supporting Environmental Assessment. In addition, all beneficial and adverse impacts of the proposed action have been addressed to reach the conclusion of no significant impacts. Accordingly, preparation of an environmental impact statement for this action is not necessary.

*John Oliver*  
for

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Assistant Administrator for Fisheries  
NOAA National Marine Fisheries Service

*8-16-10*  
Date