Ecology Publication no. 95-602



Responding to Challenges

Protecting the Environment

Promoting Stewardship

Model Toxi

Model Toxics
Control Act
1994 Annual Report

The mission of the Department of Ecology is to protect, preserve and enhance Washington's environment and promote the wise management of our air, land and water for the benefit of current and future generations.

The Department of Ecology is an equal opportunity agency and does not discriminate on the basis of race, creed, color, disability, age, religion, national origin, sex, marital status, disabled veteran's status, Vietnam Era veteran's status or sexual orientation.

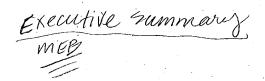
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As we look back over to can reflect with pride in cesses we have achieved sites with a long history. As sites become clean, we to the health of our citizar ronment. Communities adjacent to now being revitalized. Here



As we look back over the past year we can reflect with pride in the strong successes we have achieved at cleaning up sites with a long history of contamination. As sites become clean, we reduce the risks to the health of our citizens and the envi-

Communities adjacent to these sites are now being revitalized. Here are a few examples of what is being done to transform property contaminated by improper hazardous waste handling or disposal practices into thriving parts of communi-

In Tacoma, 26 parcels are being cleaned up along the Thea Foss Waterway. As each parcel becomes clean and redeveloped, it becomes a viable place for shops, restaurants, and recreational facilities boosting the city's economy.

The city of Yakima recently held a groundbreaking ceremony to celebrate the development of a criminal justice center. The city is cleaning up the site - contaminated with dry cleaning and other chemicals - to build the center.

In the International District of Seattle, cleanup is underway at the Metro Dearborn site. Plans are becoming a reality to turn the site into a multicultural center for small businesses to take root, elderly citizens to live, and community activities to take place.

Ecology is also helping communities help themselves. In 1994 more than \$13 million was spent to help local governments in eastern and western Washington clean up contaminated landfill sites. Additional grant dollars helped fund local projects aimed at pollution prevention, waste management, and cleanup. We are committed to continue funding these activities.

We are also committed to emphasizing the connections between improper waste management and the quality and availability of our resources. For example, when groundwater is contaminated, less water is available for drinking, irrigation, and other uses.

Looking at these connections is the best way to help local governments and businesses deal with the competing needs of growth and environmental protection as they carry out their waste management activities.

We've done well and we want to do even better.

As we begin a new year we will face new challenges in protecting the environment. Revenue is down, while site investigation and cleanup is on the rise. This year alone, we have investigated nearly 3000 complaints.

To keep pace with the accomplishments we've already made, we are exploring innovative approaches and technologies to get the job done, and get it done quicker. We're looking at ways to speed up cleanup, and we're seeking new cleanup methods that will make sense both environmentally and economically.

As more and more sites become clean, as less waste is generated, and as releases are prevented, Washington State citizens can take pride in the legislation they crafted six years ago. They can take credit for restoring scarred habitat and revitalizing communities - and they can feel confident that we will continue to improve the quality of life in the Northwest.

Mary Riveland

WHAT'S

Prospective Purchaser Agreements Draft

One of Ecology's goals is to return cleaned up properties to Washington's citizens for their use. For many reasons, some of these properties will take years to become available again. In 1994, the state legislature authorized "prospective purchaser" agreements to help expedite cleanup of a site planned for redevelopment. The prospective purchaser agreement, which is filed as a consent decree, allows contaminated properties to be cleaned up and restored to use more quickly.

By law, if a person who is not already liable for cleanup wishes to purchase a cleanup site for redevelopment or reuse and can demonstrate substantial public benefit, they may file an application with Ecology to negotiate a prospective purchaser agreement. In 1994 prospective purchaser agreements went on record for four sites: Seattle Commons Project, Northlake Shipyard, Inc., Pierce Transit, and the city of Yakima.

- As part of an ambitious plan to redevelop a large area of property between Lake Union and downtown Seattle, Ecology agreed to a prospective purchaser settlement on a key parcel with the Seattle Commons group. Seattle Commons plans to develop the parcel into a waterfront park on Lake Union. As part of the settlement, Ecology approved a prior leaking underground storage tank cleanup and a new proposal for groundwater monitoring and sediment evaluations. This will fulfill the cleanup obligations of Seattle Commons and facilitate redevelopment.
- An agreement with Northlake Shipyard, Inc. allowed them to purchase United Marine International, Inc. on N. Northlake Way and pay into a fund for future cleanup of contaminated underwater sediments. Because the previous owner of the property is in bankruptcy proceedings, future cleanup and use of that property would probably not have occurred without this agreement.
- Pierce Transit will acquire two city blocks near the Tacoma Dome for redevelopment into a four-story, 1600-car, parkand-ride facility. Under this agreement, Pierce Transit will clean up soils contaminated by petroleum leakage as part of the site redevelopment.
- ❖ To purchase property currently owned by Goodwill Industries, the city of Yakima agreed to clean up soil contaminated with perchloroethylene and monitor the groundwater for two years. The cleanup will be conducted during excavation for the new criminal justice center to be built on site. Other potentially responsible parties on the site will be responsible for groundwater remediation.

Washington Ranking Method Revised

During the 1994 legislative session, Ecology was requested to revise the way contaminated sites are ranked. The goal was to better reflect the priority given to sites where drinking water is or has a high potential of being contaminated.

Sites are scored and ranked using the Washington Ranking Method following a site hazard assessment. Sites are ranked between "1" and "5", where "1" represents the highest relative risk to human health and/or the environment, and "5" the lowest. This ranking method considers numerous human health and environmental factors to determine the potential threat a contaminated site can pose to surface water, air, and groundwater.

Revisions to the ranking matrix were made with input from an advisory committee and the public. As a result of the revisions, 20 sites were re-ranked from a "4" to a "2"; 33 sites were changed from a "5" to a "3"; and 17 sites remained at a rank of "5". Most of the sites that were reranked higher are undergoing some type of cleanup action rather than awaiting remedial action.

E CLEANED Up The Model Tare

f I he Model Toxics Control Act allows a hazardous waste site to be cleaned up through a formal process directly overseen by the state at the expense of potentially liable persons, or when possible, independent of Ecology oversight. Independent cleanups are encouraged for sites such as leaking underground storage tank sites where established methods and technology can be applied predictably.

Sites where contamination has resulted from a history of improper hazardous waste handling or disposal practices must be reported to Ecology's Toxics Cleanup Program. Potentially liable persons may choose to conduct independent cleanups without assistance from the department, but cleanup results must be reported to Ecology. Special reporting requirements apply to leaking underground storage tanks.

Initial Investigation

The Initial Investigation is Ecology's first look at a contaminated site. Within 90 days of receiving a report of a possible site, Ecology will visit the site and investigate available historical information. Sites are added to Ecology's hazardous sites data base, given a "No Further Action" determination, or passed to the appropriate local, state or federal authority for

Site Hazard Assessment

A Site Hazard Assessment is Ecology's first chance to characterize a hazardous waste site. Ecology gathers information to 1) confirm or rule out contamination, 2) identify hazardous substances, 3) identify the site's environmental characteristics, 4) evaluate potential threats to human health and the

Ecology determines either that no further action is needed or ranks the site relative to others that have undergone the same scrutiny. Sites needing cleanup are placed on the Hazardous Sites List and prioritized for further action.

Interim/Emergency Cleanups
The goal of all hazardous waste cleanups is to reduce risk to humans and the environment. Interim and emergency clean-ups are used to *speed risk reduction* on portions of a site that pose the greatest threat without waiting for an in-depth study to be finished. Interim or emergency cleanups often occur simultaneously with a phase in the long-term cleanup process. Public notice and comment required.

Remedial Investigation/Feasibility Study

Eliminating human health and environmental impacts at a hazardous waste site is a sizable engineering project. Careful study and planning are needed to make sure the chosen cleanup methods make sense environmentally and economi-

The remedial investigation provides specific and detailed information about the extent of contamination at a site. During the feasibility study, Ecology and the potentially liable persons use that information to develop and evaluate options for the

Public notice and comment required.

Cleanup Action Plan

Ecology chooses a preferred cleanup option from alternatives in the feasibility study and presents its decision for public comment as a "cleanup action plan." The plan identifies a preferred method of cleanup and specifies cleanup standards ("how clean") and other requirements at the site. Public notice and comment required.

Cleanup Construction

Actual cleanup begins once the cleanup action plan is finalized and a consent decree or enforcement order is issued. Cleanup includes plan design, construction, and the operation and monitoring of cleanup actions.

Ecology requires the use of permanent cleanup methods whenever practical. Techniques for handling hazardous substances on a site are listed in preferred order:

1) Reuse or recycle

Destruction or detoxification

Removal and treatment/destruction of contaminants

Immobilization

Disposal in a properly designed landfill

Isolation or containment in place

Deed/access controls and monitoring Public notice and comment required.

Operation & Maintenance/Monitoring

Before removal from the Hazardous Sites List, all sites go through a period of performance monitoring to make sure the cleanup was effective. Many sites also require operation and maintenance of the chosen cleanup method. For example, cleanup of contaminated groundwater often requires the operation of a "pump and treat" system for many years.

Removal From the Hazardous Sites List

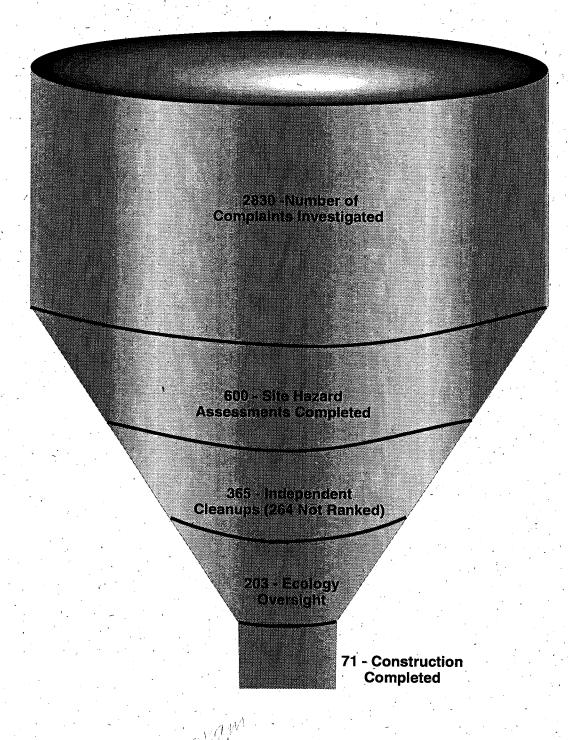
A site may be removed from the list once cleanup standards have been met or containment and control of contaminants have proven effective. Monitoring must be conducted to confirm the long-term effectiveness of the cleanup. The length of the monitoring period depends on the nature of the site and the cleanup methods used

Public notice and comment required

What Haddens After a Site is Cleaned Up?

m When a site is removed from the Hazardous Sites List or an independent cleanup has passed Ecology review, it is given a status of "No Further Action." This is a formal, public statement by Ecology that it does not intend to pursue additional cleanup work at the site. However, a cleaned-up site can be revisited if it is recontaminated or if previously unknown contamination is discovered.

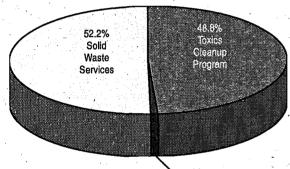
WHERE WE



13 - Removed from the Hazardous Sites List

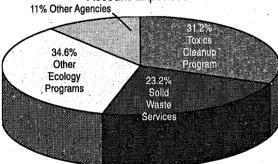
ANALYSIS REVENU. Tax C Cost Rec Penalties Hanford Miscellar TOTAL F Air Progr. Agency A Central P Environm & Lab Se Water Qu Nuclear V Hazardou Toxics Cla Solid Was Solid Waste

Local Toxics Control Account Expenses



1% Other Ecology Programs

State Toxics Control Account Expenses



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| | | • |
|-----------------------------------------------------------|-------------------|-------------------------------|
| | 1.0041 | OTATE |
| | LOCAL TOXICS | STATE TOXICS |
| REVENUE | | |
| Tax Collection , | \$18,160,386 | \$16,015,323 |
| Cost Recovery | \$0 | \$3,300,122 |
| Penalties Hanford Consent Decree | \$0 \$0. | \$302,110 \$2,741,514 |
| Miscellaneous | (\$108,053) | \$1,311,448 |
| TOTAL REVENUE EXPENSES | \$18,052,333 | \$23,670,517 |
| At- Diamen | \$0 | \$0 |
| Air Program Agency Administration | \$314,715 | \$4,251,895 |
| Central Program/Spill Response | \$0 | \$1,804,322 |
| Environmental Investigations | • | A750 407 |
| & Lab Services | \$0 \$0 | \$753,137 \$604,260 |
| Water Quality Nuclear Waste | \$0 | \$1,555,859 |
| Hazardous Waste & Toxics Reduction | . \$0 . | \$4,795,797 |
| Toxics Cleanup Program | \$17,306,494 | \$8,094,234 |
| Solid Waste Services: Solid Waste | \$184,196 | \$1,006,410 |
| Waste Management Administration | \$921,303 | \$0 \$0 |
| Waste Management Grants | \$16,714,831 | \$210,786 |
| TOTAL DEPARTMENT OF ECOLOGY | \$35,441,539 | \$23,076,700 |
| OTHER AGENCIES: | | * |
| Department of Agriculture | \$0 | \$818,723 |
| Department of Community, Trade & Economic Development | \$0 | \$466,000 |
| Department of Health | · \$0 | \$1,420,484 \$20,526 |
| Department of Revenue | \$0 \$0 | \$29,526 \$107,219 |
| Office of Marine Safety TOTAL EXPENDITURES/ALL AGENCIES | \$35,441,539 | \$25,918,652 |
| (program only TCP) | | |
| ECOLOGY-CONDUCTED CLEANUPS | d o | . 6104.006 |
| Interim Actions | \$0 \$0 | \$194,896 \$181,725 |
| Pre-Remedial Remedial Investigation/Feasibility Studies | \$0 | \$51,044 |
| Cleanup Actions | . \$0 | \$357,198 |
| Urban Bay Activities | \$0 | \$67,880 |
| Operations & Maintenance Permits | \$0 \$0 | \$1,264 \$40,330 |
| Total Ecology-Conducted Cleanups | \$0 | \$894,337 |
| | | |
| OVERSIGHT OF POTENTIALLY LIABLE PERSON-CONDUCTED CLEANUPS | | |
| Interim Actions | \$0 | \$94,849 |
| Pre-Remedial Actions | - \$0 | \$258,167 |
| Remedial Investigation/Feasibility Studies | \$0 \$0 | \$814,819 |
| Remedial Design Technical Assistance | \$0 \$0 | \$16,489 \$115,753 |
| Cleanup Actions | \$0 | \$269,952 |
| Operations & Maintenance | \$0 | \$19,365 |
| Permits | \$0 \$0 | \$16,926 \$231,624 |
| Natural Resource Damage Assessment Hazard Assessment | \$0 \$0 | \$58,349 |
| Total Potentially Liable Person-Conducted Cleanups | \$0 | \$1,896,293 |
| | - | |
| GENERAL OPERATIONS & MANAGEMENT Public Information | \$0 | \$138,253 |
| Program Development | \$0 | \$534,427 |
| Program Implementation | \$0 | \$1,435,886 |
| Management | \$0 \$0 | \$668,855 \$236,644 |
| Training Total Operations & Management | \$0 \$0 | \$3,014,065 |
| , | | |
| ASSOCIATED STAFF COSTS | · \$0 | \$340,888 |
| Administrative Support Leave/Holiday | \$0 \ | \$881,830 |
| Comp/Exchange | \$0 | \$213,964 |
| Regional Support | \$0 | \$471,241 |
| Total Support | \$0 \$0 | \$1,907,923 \$7,712,618 |
| Sub-Total Ecology Match for Federal Assistance | \$0 \$0 | \$50,872 |
| STCA Leaking Underground Tank Activity | \$0 | \$321,667 |
| TOTAL | \$0 80 | \$8,085,157 \$0,077 |
| Adjustments | \$0 \$0 | \$9,077 \$8,094,234 |
| GRAND TOTAL | 3 U | ψυμοσηκοσ |

REVENUE &

HAZARdous Substances Tax

Funding for Model Toxics Control Act (MTCA) activities is provided through two accounts: the State Toxics Control Account for state programs, and the Local Toxics Control Account for state grants to local governments. The primary source of revenue to these accounts is the Hazardous Substances Tax. Currently over 8,000 different hazardous substances are subject to the tax based on the wholesale value. Revenue is also generated through cost recovery actions, penalties and other legislative appropriations.

The Department of Revenue oversees collection of the tax, which is imposed on the first in-state possessor of hazardous substances at a rate of 0.7 percent or \$7 per \$1,000 of wholesale value. More than 85 percent of receipts from the tax come from petroleum products.

CURRENT REVENUE TRENDS ARE:

In fiscal year 1994 Hazardous Substances Tax revenue amounted to \$34,445,024, a 12.7 percent decline from FY 1993.

While current projections are for the fund to resume a moderate growth rate, actual tax revenues remain flat. As a result, Ecology has instituted a hiring freeze and has significantly cut back on contracted cleanup work for all State Toxics Control Account-funded programs.

COST RECOVERY

As of July 1994, Ecology was pursuing active cost recovery actions on 89 sites. The amount billed to potentially liable parties was \$3.7 million compared to approximately \$2.5 million over the previous fiscal year. At press time the total amount recovered was \$2.8 million. Recovered funds are placed back into the Toxics Control Account and are available for future cleanup activities.

When the Cost Recovery Program first began, defense sites were billed in the same way as other cleanup sites. Since February 1994, Ecology has been operating under a co-

operative agreement known as the Defense-State Memorandum of Agreement (DSMOA). As part of the agreement, Ecology does not have to recover costs for cleanup at defense sites. Instead, federal grant funds are allocated to Ecology to oversee cleanup activities at facilities such as Fairchild Air Force Base, Fort Lewis, and Puget Sound Naval Shipyard.

How the Money Is Spent

Legislative appropriations are made for both the State Toxics Control Account and the Local Toxics Control Account based on the expected balances in the accounts as well as revenue estimates. Through the legislative process, a determination is made regarding which agencies and programs receive funds.

Currently, funds from the state account are allocated to the departments of Ecology; Agriculture; Community, Trade and Economic Development; Health; Revenue; and the Office of Marine Safety. Money is spent on activities authorized by the Model Toxics Control Act including site cleanup, health assessments, waste pesticide identification and disposal, hazardous materials training and oil spill prevention.

Funds from the local account are given through state grants to local governments. Ecology administers the grants program. Local governments may use grants for cleanup of contaminated sites and for plans and programs designed to reduce solid and hazardous waste. Funds from this account can also be used to provide drinking water supplies to local governments with wells affected by contamination from hazardous waste sites.

EXPENSES

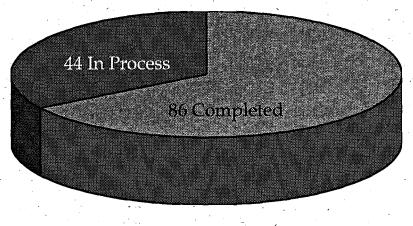
Cleanups

Independent

The Model Toxics Control Act encourages potentially liable parties to clean up their sites independent of Ecology oversight whenever possible. This has allowed hundreds of smaller or less complex sites to be cleaned up quickly without having to go through the formal state process.

The law requires the owner/operator of an independent cleanup site to notify Ecology upon discovery of a release of hazardous substances to the environment. When property owners decide to do an independent cleanup, they must report the results of the cleanup actions within 90 days of completion. Although Ecology does not approve or disapprove the cleanup actions, it can require more cleanup work if needed or issue notice that no further action needs to be taken at the site. Since 1988, more than 350 independent cleanups have been reported to Ecology (not including leaking underground storage tank sites - see next page).

Independent Remedial Action Program (IRAP)



Jako 1993 - Siept 1994

Independent Remedial Action Program

Without state oversight, buyers and lenders are sometimes reluctant to get involved unless the state approves that work. In 1993, the Independent Remedial Action Program was created. Under the program, Ecology offers a speeded up review of independent cleanups for a fee which ranges from \$1,000 to \$15,000 depending on the cost of the cleanup.

Once the review is complete, staff provide a written determination indicating whether the cleanup meets Model Toxics Control Act standards. Satisfactory cleanups are given a No Further Action (NFA) designation. This can benefit property owners by expediting the sale of their property or the removal of their site from the Hazardous Sites List.

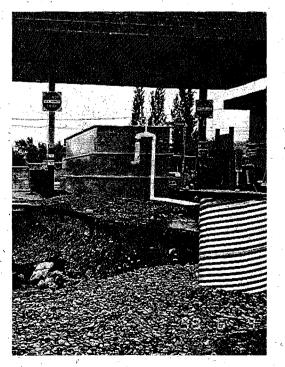
As of September 30, 1994, Ecology received 130 cleanup reports for review. Eighty-six reviews have been completed and the sites deemed to require no further cleanup work. Ninety-two of the 130 reports were for leaking underground storage tank sites. The fees billed for those reviews totaled \$155,114. Of the 130 cleanup reports, 44 are currently under review.

Leaking Underground Storage Tanks

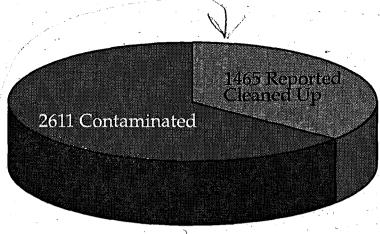
The majority of independent cleanups are for leaking underground storage tanks. In 1994, 1029-releases were reported to Ecology by private consultants, tank service providers, and tank owners. Cleanups were initiated or 927 releases, and of those, 589 were reported to be completed.

Leaking tanks often threaten or contaminate local drinking water supplies and in some cases create a safety hazard. Washington has a comprehensive program for underground storage tanks. The program is aimed at preventing leaks, reducing contamination when leaks do occur, and making the tank owner or operator responsible for the cost of cleaning up a leak. Tank owners/operators must meet leak detection, tank upgrades, and financial responsibility requirements or face enforcement actions.

Bioreactor tank where contaminated groundwater is treated at the Bingo Fuel Stop.



Independent



CLEANUPS

MCTA Leaking Underground Storage Tank Sites

Bingo Fuel Stop

During an independent cleanup, explosive levels of gasoline fumes were found rising from a large pool of gasoline floating in an open pit near the Bingo Fuel Stop. This discovery prompted Ecology and local fire officials to close the station in February 1992. During the remedial investigation, completed by Burns Brothers in January 1994, the extent of contamination was fully identified. It was also determined that two aquifers exist under the site. Bioremediation treatment of petroleum-contaminated soils removed during tank excavation is nearly completed.

The penalty Ecology issued to Burns Brothers for noncompliance with underground storage tank regulations resulted in a creative settlement which benefited the citizens of Central Washington. In April 1994, Burns Brothers gave three "first-response" trailers containing combustible gas indicators and spill response equipment to be used by counties in the Central Region. The firm also sponsored an underground storage tank management seminar for Central Washington tank owners and paid a cash penalty of \$34,000.

Ecology has approved the feasibility study submitted by Burns Brothers. The company plans to excavate the rest of the contaminated soil and treat it with bioremediation. The contaminated groundwater has been undergoing bioremediation since 1992, when recovery of floating gas and diesel fuel began. Water is pumped into a bioreactor tank, treated, and reintroduced upgradient. Treatment will continue until the groundwater meets state cleanup levels.

A draft cleanup action plan describing final cleanup is expected to be out for public review in early 1995.

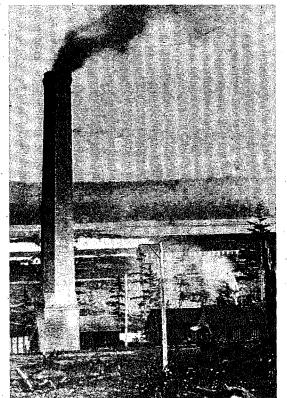
Highlights

EVERETT SMELTER SITE

Asarco submitted a draft remedial investigation/feasibility study to Ecology in July 1994. Ecology is working with Asarco to revise the report and negotiate additional data collection. While the investigation is continuing, previous interim actions are being inspected and maintained. Asarco has purchased about 20 homes in the most heavily contaminated area. Most of these homes are now vacated and Asarco is fencing off the area and providing additional lighting and site security.

Since the smelter closed in 1912, the site has been used for a variety of industries. Now the site is primarily residential. Ecology ranked the site a high priority for cleanup because of the extremely high level of contamination in residential soils. Contaminants of concern include arsenic, cadmium, and lead. Groundwater, although not used for drinking water, is heavily impacted.

Health monitoring for citizens living in the Everett Smelter area has taken place. The Agency for Toxic Substances and Disease Registry, in coordination with the Department of Health, conducted some limited testing of area residents. Test results suggest that area residents may have been exposed to elevated arsenic levels. The potential for exposure is high through ingestion, inhalation, skin contact, and consumption of garden vegetables. Advisories cautioning citizens to avoid contact with soil at the site have been distributed and are periodically updated by the Snohomish Health District.



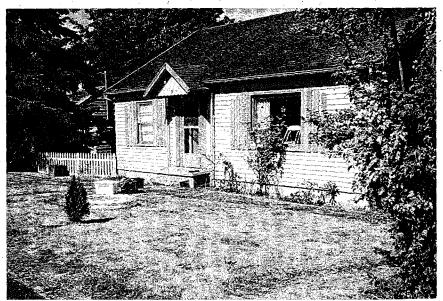
At left is the former smelter, operated by Asarco in the early 1900's. Below is one of the homes now located in the area of the smelter site.

Cascade Pole-Olympia

Located at the north end of the Port of Olympia peninsula between the east and west bays of Budd Inlet, Cascade Pole Company operated a wood-treating facility from 1957 to 1986. A variety of toxic substances have been identified on site (many of them suspected carcinogens) including creosote, pentachlorophenol, copper, dioxins, and petroleum hydrocarbons. Elevated levels of these contaminants are found on site in soil, surface and groundwater, sediments, and clam tissue.

In 1986 immediate threats to human health were reduced when Cascade Pole Co. closed the plant and restricted public access by building a fence around the property. The Thurston County Health Department posted multi-lingual signs along the shoreline warning people not to eat shellfish from that area.

Interim actions taken at the site have been successful in protecting human health and the environment from the worst of the contaminants. Actions include the operation of a groundwater pump-and-treat and oil recovery system, and the installation of a steel sheet piling barrier wall along the site shoreline. Currently, Ecology, Cascade Pole Co., and the Port of Olympia are negotiating a plan for the long-term remediation of the site.



Model Toxics Control Act

YAKIMA RAILROAD AREA

The Yakima Railroad Area is located in the heart of downtown Yakima and Union Gap and covers approximately six square miles. During an investigation by the Environmental Protection Agency in 1987, perchloroethylene (PCE) was found in the soil and groundwater. PCE is used in dry cleaning, pesticide application, and machine shops.

When Ecology took on this site, 10 potentially liable persons (PLPs) were named. The number of PLPs has changed over time - new ones have been added, and others have reached a *de minimis* settlement with Ecology and have exited the cleanup process.

Sites within the Yakima Railroad Area are:

- Westco Martinizing
- ✓ Yakima County (Crest Linen)
- ✔ Frank Wear Cleaners
- ✓ Nu-Way Cleaners
- ✓ Yakima Valley Spray
- ✓ 5th Wheel Truck Repair
- Hahn Motor Company
- ✓ Cameron-Yakima, Inc.
- CMX Corporation
- ✓ Crop King/Woods Industry (BNRR)
- ✔ Briar Development
- ✔ Agri-Tech/Yakima Steel Fabricators

A number of individual studies and work plans are complete. Others are still underway or are in various stages of review by Ecology. Generic remedial investigation work plans were prepared by Ecology to assist some of the area businesses.

A thermal desorption unit is being used to treat about 20 cubic yards of contaminated soil at the Crop King site. Thermal desorption is an innovative treatment technology which heats the soil and vaporizes the contaminants.

The cities of Yakima and Union Gap have been installing water mains and connecting homes to city water systems under a \$6.4 million grant from Ecology. About 1,000 households will be connected by fall of 1995. Until the connections are completed, residents will continue to receive free bottled water.

Washington Water Power Central Steam Plant

Site

Washington Water Power (WWP) and Ecology have entered into a consent decree to conduct a remedial investigation/feasibility study (RI/FS) of a downtown Spokane petroleum release. The study will further characterize the extent of petroleum contamination and any potential risks to people and the environment.

WWP operated this coal-burning steam plant from 1916 to 1986. The plant was modified to burn sawdust and wood shavings in the late 1930s, then natural gas and petroleum products from the mid 1960s to 1970. Between 1966 and 1975, seven underground petroleum storage tanks were installed. In 1982, Ecology issued an order to WWP to investigate and mitigate a release from one of its tanks. In 1984, Ecology determined that all requirements of the order had been met and monitoring of the release was discontinued.

In 1991 WWP conducted further investigations to determine if petroleum had migrated. Soil borings and monitoring wells confirmed that the release was greater than originally indicated. WWP then entered into a pre-payment agreement with Ecology for state oversight. The consent decree signed in November 1994, governs further investigation. WWP will install additional monitoring wells, do additional soil borings and and conduct further chemical characterization. Once an RI/FS is complete, Ecology and WWP will negotiate a cleanup action plan.

GE Spokane

From 1961 to 1980, GE operated an apparatus repair shop on its property located on Mission Avenue in Spokane. Electrical transformers containing PCBs were repaired at the shop. This is the only known site that has PCB contamination in the groundwater. In September 1989, EPA placed the site on the federal Superfund list. Ecology is the lead agency responsible for oversight.

Vitrification is the preferred method for cleaning up PCBs at the General Electric Service Shop in Spokane. A pilot melt was conducted this past summer. Preliminary results indicate it was successful at destroying the contaminants. This new technology uses 2600°F temperatures to melt soil, turning it into glass.

To protect human health and the environment, deed restrictions were placed on the property. This site is now restricted to industrial uses, and groundwater under the site may not be extracted or used.

Handy Andy Seattle Mar

SEATTLE MARKETING TERMINAL (UNOCAL)

Cleanup of Handy Andy No. 8 is progressing quickly because of Time Oil's early intervention.

Handy Andy No. 8, a convenience store/gasoline station, is located in a residential area of Vancouver. When gasoline-contaminated soil was discovered in August 1991, Time Oil removed the tanks and 620 cubic yards of contaminated soil. Further investigation revealed that groundwater was contaminated 1800 feet away from the source and was moving toward Burnt Bridge Creek. In May 1993, gasoline was also discovered floating on groundwater within 50 feet of a private home.

Time Oil proceeded with its independent cleanup and performed sampling activities, conducted a study to determine the extent of contamination, and initiated off-site interim cleanup actions. These actions eliminated the immediate risk to human health and the environment. An agreed order signed by Ecology and Time Oil provides for Ecology oversight of the cleanup.

Between 1910 and 1975, Unocal operated a petroleum bulk storage and distribution facility near Pier 70, located at Elliott Ayenue and Broad Street. In 1981 contamination was detected on the property and by 1988 Unocal completed a voluntary threephase remedial investigation and feasibility study.

A variety of studies show that soil and groundwater have been contaminated on the property. A plume of petroleum has migrated through soil and secondary conduits like storm drains, tunnels, and pipelines into groundwater. Sediment testing is currently being evaluated to determine the extent of contamination if any.

Previous cleanup actions resulted in treating about 34,000 cubic yards of soil with bioremediation in the "upper yard" of the site. In addition, 4,500 gallons of petroleum free product was recovered from the pump and treat system at the "off-site area." Bioremediation efforts were not as successful in the lower yard because the contaminated soil contained a heavier petroleum that is resistant to biological treatment.

Ecology is currently negotiating with Unocal to arrive at appropriate cleanup methods.

Hamilton Island Landfill

 $oldsymbol{\mathsf{H}}$ amilton Island, a 240-acre demolition and disposal site on the Washington side of the Columbia River, is located 40 miles east of Portland, Oregon, and about two miles downstream from the Bonneville Dam. About 19 million cubic yards of demolition and construction debris were placed on this site during the construction of Bonneville Dam's second powerhouse.

In October 1992 EPA placed the site on the National Priorities List (NPL). Subsequent investigations revealed that only a few contaminated samples were found at very low levels. Petroleum hydrocarbons were found in only small, isolated areas above the screening levels and it was determined that no further investigation was required.

Ecology supports a No Further Action recommendation and proposes to delist Hamilton Island from the state's Hazardous Sites List. The Environmental Protection Agency also supports de-listing Hamilton Island from the federal NPL. Hamilton Island will either be returned to the town of North Bonneville or left as wildlife habitat pending legislation.

AT HAZARDOUS WASTE SITES

Lcology's Toxics Cleanup Program places a high emphasis on involving communities and concerned citizens in the investigation and cleanup process at hazardous waste sites requiring state oversight. Public involvement activities are considered key to making sure those potentially or directly affected by a cleanup are well informed and able to communicate concerns to Ecology. Public involvement specialists in each region work with communities that are in and around hazardous waste sites. At many sites a community group forms and meets on a regular basis during the cleanup process. Often community needs can be provided for through the resources of the potentially liable persons or other agencies involved in Model Toxics Control Act activities.

Here are a few examples of how the public is actively involved in site investigation and cleanup issues:

Olympic View Environmental Review Council (OVER-C)

The Olympic View Environmental Review Council (OVER-C) was formed in 1991 to monitor cleanup activities at Submarine Base (SUBASE) Bangor and Keyport. Funded by the Washington Environmental Council and supported by grants from Ecology, EPA, and the Bullitt Foundation, OVER-C now has 50 members. The group participates in fund-raising and short-term projects related to the sites and produces a newsletter to keep members informed of cleanup progress. Members also participate at public meetings and on technical review committees.

YAKIMA RAILROAD SITE

Contamination at this site affects residents living in a six-square-mile area of the cities of Yakima and Union Gap. More than half the residents are non-English speaking Hispanics. A large percentage of residents are at or below the poverty level. To facilitate community participation and inform residents about cleanup issues that affect them, Ecology has made interpreting and translating standard in all public outreach activities. Bilingual English/Spanish fact sheets and materials are provided, and an interpreter is available at public meetings. Spanish radio stations are also

EVERETT SMELTER SITE

used to further public outreach efforts.

Citizens of Northeast Everett, agencies and interested persons have been meeting each month since December 1993 to address the concerns and educational needs of residents living on or near the site. Each meeting's agenda is set by the residents. Ecology leads the meetings and has helped bring in experts to present information and answer questions related to living at a contaminated site. Recent issues have been "Dealing with ongoing, unresolved stress" and "Site Security."

The citizens group is actively involved in shaping how decisions are made regarding cleanup at the site, and in requesting resources to help them maintain a healthy life-style in the interim. For example, the group has asked for soil sampling in areas where neighborhood children play, and for human health testing to see if they have been exposed to arsenic, lead, and cadmium. The group will continue to meet throughout the cleanup process.

Citizen Advisory Committees

Public participation is also achieved through "regional citizen's advisory committees." These committees are the conduit through which information and opinions are passed between Washington citizens and Ecology. Committees meet at least twice per year to review policies under development and recommend ways for Ecology to respond to public needs. A list of committee members is shown below.

| Central | Eastern | Northwest | Southwest |
|------------------------|-----------------------------------|-----------------------------------|----------------|
| Wally Budke | Lloyd R. Bourne | Reuben Baybars | Helen Berg |
| Phil Small | Micki L. Martin | Janet Ferguson | Allan Hoover |
| Laura Mracheck | Sally A. Simmons | Michael McNickle | Bruce Lanchey |
| Daniel Snipes | Eric A. Kincanon | Peg Monaghan | Tim Moore |
| Earl Derry | Robert N. Hager | Felix Rodriguez | Dave Palmer |
| Harald Jones Don Wiens | Frank T. Yuse Sandra S. Morton | Kathleen Toensjost John Drotts | Scott Sedberry |
| Larry Feller | David A. Hoppens | Debra Hughes | |
| Cindy O'Halloran | Duvid A. Hoppens | Denis Murphy | 100 |
| Cinay O Halloran | | | |
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| | | Shirley Golden | |
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OTHER

PROGRAMS

Solid WASTE SERVICES

Ecology's Solid Waste Services Program supports and supplements efforts by local governments to handle "moderate-risk waste" (hazardous waste from households or businesses that generate only small quantities of hazardous waste). Statewide, local jurisdictions are operating under approved and current plans for managing solid and hazardous wastes. The plans allow governments to manage "moderate-risk waste" and interpret standards for landfills.

In 1994, Ecology helped local governments establish and/or operate 33 permanent or mobile moderate-risk waste collection systems, host 70 household hazardous waste collection events and four collection events for small businesses, and develop local hazardous waste plans.

In addition, information on household hazardous waste collection events was provided to more than 7,400 households and businesses who called in to Ecology's 1-800-RECYCLE line. Businesses received information and referral opportunities regarding toxic waste reduction or recycling in coordination with local government moderate-risk waste activities. Most of the businesses served were small-quantity generators.

Ecology also has a Resource Center that houses nearly 5,000 documents on solid and hazardous waste reduction, recycling, and disposal issues. The Resource Center is in Lacey, with branches maintained in each regional office.

Hazardous Waste and Toxics Reduction

Ecology's Hazardous Waste and Toxics Reduction Program promotes pollution prevention and facilitates hazardous waste regulatory understanding and compliance. In fiscal year 1994 the program spent \$4.58 million from the State Model Toxics Control Account on education and technical assistance, compliance activities, policy developments, and pollution prevention projects and campaigns.

The program responded to over 7,500 requests for information and made 500 pollution prevention technical assistance visits — 76 to businesses which had notified Ecology of their new hazardous waste generator status. More than 400 businesses were assisted with preparing pollution prevention plans and other activities.

A total of 362 compliance inspections were conducted in 1994. Although most enforcement actions resulted in informal warning letters, 10 compliance/enforcement orders were signed, and 10 separate penalties were assessed totaling \$271,000.

Major new amendments to the Dangerous Waste regulations were adopted this fiscal year, including:

- Making hazardous waste facility closure standards consistent with Model Toxics Control Act cleanup levels.
- Introducing a new approach to corrective action cleanups at currently operating facilities.
- * Allowing generators to treat their own dangerous waste on-site.
- **X** Changing the list of carcinogenic substances.

In addition, a regulatory reform project is underway to improve the rules governing hazardous waste management in Washington. Local government, environmental groups, industry associations, and scientific experts are involved in this effort.

LOWER COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM

This bi-state program, created and funded in 1990 by the legislatures of Washington and Oregon, the Northwest Pulp and Paper Association and public ports in both states, is a cooperative effort between the two states. The goal is to assess whether fisheries, recreational, and industrial uses on the river are adversely affected by water quality. Government agencies' management of water quality in the lower Columbia River is also being examined.

Research, data gathering, and a reconnaissance survey, done during the first phase of the effort have been completed and a draft report has been issued. Reports on the effects of pollutants on fish and wildlife and human health are due in early 1995. Data analysis and public involvement will occur during the last phase. The entire project is expected to be completed in 1996.

The final report of the bi-state program efforts is due early in 1996. The report will include technical findings, will identify problems, and will recommend ways to improve water quality in the Columbia River. A management plan for the lower Columbia River and/or the entire river basin may result.

Waste Management Grants

Landfill cleanups pose an expensive problem for local governments, but grants from the Local Toxics Control Account help ease the burden on ratepayers. In Fiscal Year 1994, grants for just three landfill cleanups — at Mica, Kent Highlands and Centralia — totaled more than \$13.1 million. Smaller, but just as significant, are grants for pollution prevention projects. Together they support the ongoing partnership between Ecology and local governments in Washington to deal responsibly with waste.

The Local and State Toxics Control Accounts funded \$35,421,539 in new grants in FY94. This funding leveraged \$71,734,962 worth of pollution prevention and cleanup projects that helped local government:

- ✔ Plan for their waste management needs
- ✓ Educate and help people generate less waste at home and work, while reducing its toxicity
- ✔ Provide safe ways for people to dispose of hazardous waste from their homes and businesses
- ✓ Close 13 old landfills to meet current standards

Citizen groups and not-for-profit organizations also used grant funding to educate and involve the public in waste issues.

Besides new grants, the Local Toxics Control Account also provided \$394,208 in amendments to existing grants. For a complete listing of grants awarded, see pages 18 and 19.

OTHER

EMERGENCY Spill RESPONSE

Ecology is the lead state agency responsible for environmental emergencies statewide. The responsibilities include policy and plan development; plan review, approval, and inspections; drills and enforcement; emergency response and cleanup; education; and resource damage assessments. During FY 1994 the State Toxics Control Account funded 17 FTEs at an annual cost of \$1,305,171, including cleanup contractor costs.

1994 Program Accomplishments

In recent years Ecology has built a strong and comprehensive spill prevention and control program. This level of emphasis continued in 1994:

- X Responded to 855 spills of oil or hazardous substances and conducted successful cleanups and resource damage assessments as needed.
- X Implemented new procedures for identifying hazardous substances in the field which reduced the need for expensive contractor costs, resulting in an estimated savings of \$115,000.
- X Performed a lead role in the federal area oil and hazardous substances contingency planning process.
- Participated in 37 emergency response drill exercises with other agencies and industry.
- X Completed a study on the need for HAZMAT teams in Washington.

OTHER

AGENCIES

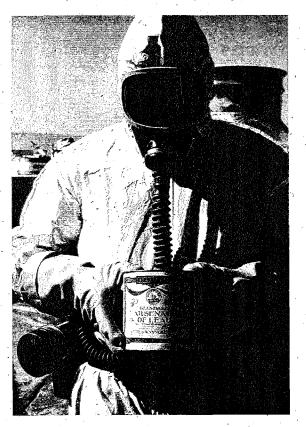
DEPARTMENT OF COMMUNITY, TRADE AND ECONOMIC DEVELOPMENT

HAZARDOUS MATERIALS TRAINING PROGRAM

The Hazardous Materials Training Program provides academic and "hands-on" training for first responders and firefighters to meet the requirements of the Washington Industrial Safety and Health Act. The program enhances emergency preparedness planning, response skills, and incident command training necessary to mitigate a hazardous materials incident.

Specialized hazardous materials training continues to be a significant need within our state. The frequency of transportation of hazardous chemicals and other environmental conditions promoting chemical disasters is increasing. Firefighters must have specialized training in order to safely handle these life-threatening incidents.

Lead arsenate was commonly used as an insecticide in apple orchards from 1913 until the 1960s. This container was collected in Ellensburg in 1993.



From July 1992 through June 1994, classes were taught to over 8,000 firefighters in the state, providing approximately 97,000 hours of student contact time. The State Toxics Control Account provided \$466,000 for this effort. Funding from this account helps to serve the needs of Washington's 25,000 firefighters through the Hazardous Materials Training Program.

AGRICULTURE

The Department of Agriculture's Waste Pesticide Identification and Disposal Program's two goals are to eliminate the backlog of prohibited pesticides stored on farms and other similar locations, and prevent future accumulations of unusable pesticides through education covering product storage, handling, and improved planning prior to purchase.

Many pesticides have become unusable due to government actions. As of December 1993, the program collected 35,682 pounds of Dinoseb, 29,889 pounds of DDT and 14,265 pounds of Endrin. Most of the collected pesticides are at least 15 years old and many were manufactured in the 60s and early 70s. Some date back prior to World War I, with the oldest, so far, being a bag of lead arsenate from 1913.

More than 220 tons of unusable pesticides have been collected and disposed of from 1,488 participants in the program's six years. Seven collections were held in FY 1994, with 58.3 tons collected from 453 participants at a total cost of \$619,607.90. This represents a significant reduction of unusable pesticides stored in Washington. Although this amount is five times the initial 1987 estimate, there is reason to believe a significant amount remains. This is evident with the increasing demand for collection. Last year, participant cutoffs had to be established for the first time in the program's history, due to demand exceeding resources.

DEPARTMENT OF HEALTH

The Department of Health has several programs aimed at preventing or mitigating adverse human health effects resulting from exposure to hazardous substances in the environment such as:

- Conducting public health assessments,
- Providing consultations and education concerning hazardous substances exposures and their effects,
- Leading health studies of communities or populations exposed to hazardous substances, and
- Monitoring and testing of potentially contaminated drinking water supplies.

During fiscal year 1994, the department received \$1,530,000 in State Toxics Control Account funds to perform program activities which resulted in:

- ✓ Locating contamination at 7 sites and taking action to eliminate or reduce exposure,
- Conducting 10 health assessments, 9 consultations, and 28 investigations surrounding hazardous waste sites, and
- Developing a biomonitoring program to assess potential exposures to residents living on or near the Everett Smelter site.

New policy initiatives concerning environmental equity, data compilation, and shellfish contamination education will continue in the next biennium. Health plans to work with Ecology to further investigate environmental justice issues at hazardous waste sites; use a geographic information system to compile health assessment and exposure data; and identify and implement appropriate methods of education within Asian Pacific Islander communities to alert them to environmental risks for harvesting shellfish near hazardous waste sites.

OFFICE OF MARINE SAFETY

OTHER

Washington's Office of Marine Safety (OMS) was established as an independent agency by the 1991 Legislature in the wake of the Exxon Valdez spill in Prince William Sound. In FY 1994, OMS received \$149,000 from the State Toxics Control Account to be used strictly for vessel oil spill contingency planning.

Funds were used to:

- Evaluate vessel oil spill contingency plans for completeness,
- Evaluate and approve completed contingency plans,
- Inform industry of the necessary requirements,
- Negotiate safety provisions with industry (as appropriate),
- Approve primary spill response contractors,
- Develop response planning benchmarks,
- Evaluate required spill exercises,
- Coordinate monthly contingency plan review meetings with Department of Ecology and Oregon Department of Environmental Quality, and
- Participate in the Geographic Response Planning efforts undertaken by the Coast Guard Area Committee.

In fiscal year 1994, the Office of Marine Safety's Operations Division worked cooperatively with Ecology to approve five spill response contractors. Sixteen vessel oil spill contingency plans were received, and all four of the major plans (which cover most of the vessels entering Washington waters) and a number of corporate plans received conditional approval and have undergone a series of resubmissions.

AGENCIES

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| | RECIPIENT | GRANT# | TOTAL PROJECT COST | LTCA FUND DOLLARS | SIGNATURE DATE |
| PUBLIC PARTICIPATION GRANTS | CLARK CO HAZ WST CITIZEN TASK FORCE COLUMBIA RIVER UNITED ECONOMIC DEVELOP ASSOC OF SKAGIT CO ENVIRONMENTAL RESOURCE SERVICES ENVIRONMENTAL WORKS EXCEPTIONAL FORESTERS INC FRIENDS OF R.S.V.P. HANFORD FAMILY THE HEART OF AMERICA NORTHWEST METROCENTER YMCA OLYMPIC VIEW ENVIRON REVIEW COUN PHINNEY NEIGHBORHOOD ASSOCIATION POMEGRANATE CENTER THE SUSTAINABLE DESIGN COUNCIL WA STATE DRYCLEANERS ASSOC WASHINGTON CITIZENS FOR RECYCLING WASHINGTON TOXICS COALITION | G9400238 G9400219 G9400230 G9400232 G9400036 G9400232 G9400304 G9400237 G9400043 G9400234 G9400207 G9300323 G9400250 G9300314 G9400214 G9400253 G9400231 G9400231 G9400037 | 37,300 20,000 29,535 9,990 35,100 33,316 30,000 10,000 20,000 37,860 25,000 50,000 15,000 23,460 33,000 6,420 18,140 20,000 15,000 | 18,650 10,000 14,767 4,995 17,550 16,658 15,000 5,000 10,000 18,930 12,500 25,000 15,000 11,730 33,000 3,210 9,070 10,000 7,500 | 3/14/94 2/14/94 3/11/94 3/10/94 7/29/93 3/10/94 4/12/94 4/12/94 5/25/94 8/31/93 3/11/94 2/1/94 7/29/93 3/21/94 6/21/94 3/28/94 8/23/93 |
| | | | 469,121 | 258,560 | • |
| REMEDIAL ACTION GRANTS | CENTRALIA CITY OF LACEY CITY OF MOUNT VERNON CITY OF PORT TOWNSEND PORT OF SEATTLE CITY OF SEATTLE-KING CO PUBLIC HEALTH DEPT SHELTON PORT OF SPOKANE COUNTY SPOKANE COUNTY HEALTH DISTRICT SUMAS CITY OF SW WASHINGTON HEALTH DIST TACOMA PORT OF TACOMA-PIERCE CO HEALTH DEPT THURSTON COUNTY | G9400155 G9400301 G9400081 G9400077 G9400106 G9400220 G9400069 G9300327 G9400210 G9300327 G9400221 G9400211 G9400044 | 10,000,000 99,970 50,000 50,000 3,975,000 100,000 150,000 13,311,618 100,000 47,470 100,000 5,000,000 100,000 50,000 | 5,000,000 49,985 50,000 50,000 1,987,500 100,000 112,500 6,655,809 100,000 15,000 100,000 2,500,000 100,000 50,000 | 5/25/94 6/15/94 11/17/93 9/28/93 10/5/93 3/7/94 3/4/94 12/3/93 7/21/93 2/17/94 4/14/94 8/16/93 |
| · · · · · · · · · · · · · · · · · · · | | | 33,134,058 | 16,870,794 | - |
| COORDINATED PREIVENTION GRANTS. | ADAMS COUNTY ADAMS COUNTY HEALTH DISTRICT ASOTIN COUNTY BELLEVUE CITY OF BENTON COUNTY BENTON-FRANKLIN DIST HEALTH DEPT BREMERTON-KITSAP CO HEALTH DIST CHELAN COUNTY CHELAN-DOUGLAS HEALTH DIST CLALLAM COUNTY CLALLAM COUNTY CLARK CO PUBLIC WORKS DEPT COWLITZ CO HEALTH DEPT COWLITZ COUNTY CRESTON TOWN OF DOUGLAS COUNTY DOUGLAS COUNTY DOUGLAS COUNTY EPHRATA CITY OF FERRY COUNTY FRIDAY HARBOR TOWN OF GARFIELD COUNTY GRAND COUNTY GRAND COUNTY GRANT COUNTY HEALTH DEPT GRAYS HARBOR CO HEALTH DEPT GRAYS HARBOR COUNTY ISLAND CO HEALTH DEPT ISLAND COUNTY JEFFERSON COUNTY JEFFERSON COUNTY JEFFERSON COUNTY KELSO CITY OF KING COUNTY KING COUNTY KING COUNTY SOLID WASTE DIVISION KITSAP COUNTY | G9400127 G9400129 G9400141 G9400327 G9400201 G9400135 G9400111 G9400122 G9400167 G9400168 G9400115 G9400158 G9400188 G9400188 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 G9400189 | 189,272 40,000 241,000 500,000 278,847 623,580 115,500 276,553 382,097 160,037 138,180 200,852 456,265 102,667 224,080 228,598 420,144 609,160 515,970 12,150 169,034 254,410 600,000 117,621 346,250 218,287 95,196 66,666 331,092 128,333 364,053 1,138,712 27,053 56,980 1,209,847 1,510,756 | 83,548 26,000 114,400 325,000 65,878 215,792 77,000 146,991 103,494 93,005 52,500 139,976 38,365 77,000 151,930 148,589 97,881 395,954 335,381 5,175 105,400 126,695 390,000 58,659 259,688 119,372 71,397 50,000 129,698 500,000 17,584 42,735 557,830 288,059 | 1/5/94 1/5/94 1/5/94 1/5/94 1/10/94 6/30/94 4/6/94 1/10/94 2/10/94 2/10/94 1/18/94 1/18/94 1/18/94 1/18/94 1/19/94 1/19/94 1/11/94 1/19/94 1/19/94 1/19/94 1/19/94 1/19/94 1/19/94 1/19/94 1/19/94 1/19/94 1/19/94 1/19/94 1/19/94 1/19/94 3/16/94 3/16/94 3/16/94 3/16/94 3/16/94 3/16/94 3/16/94 3/16/94 3/16/94 3/16/94 3/16/94 3/16/94 3/16/94 3/16/94 3/16/94 |

CRANTS LTCA SIGNATURE FUND DATE DOLLARS 104,084 3/4/94 96,395 3/10/94 36,400 1/10/94 62,660 3/3/94 94,983 12/29/93 73,000 12/29/93 35,406 1/12/94 38,099 5/19/94 239,200 3/31/94 70,000 1/24/94 93,843 3/1/94 93,843 3/1/94 367,500 5/11/94 133,038 12/20/93 103,453 1/24/94 500,000 4/29/94 500,000 4/29/94 500,000 4/29/94 500,000 4/29/94 500,000 4/29/94 500,000 4/29/94 500,000 4/29/94 500,000 4/29/94 100,710 9/20/93 40,140 3/10/94 105,667 1/24/94 500,000 4/26/94 437,408 3/1/94 77,000 2/8/94 1,392,909 4/21/94 499 12/29/93 500,000 2/3/94 149,000 1/3/194 191,658 2/9/94 49.975 2/23/94

| RECIPIENT | GRANT# | TOTAL PROJECT | LTCA FUND | SIGNATURE DATE |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------|
| | • | COST | DOLLARS | • |
| LEWIS COUNTY | G9400228 | 322,302 | 104,084 | 3/4/94 |
| LEWIS COUNTY HEALTH DISTRICT | G9400227 | 143,883 | 96,395 | 3/10/94 |
| LINCOLN CO HEALTH DISTRICT | G9400162 | 56,000 | 36,400 | 1/10/94 |
| LINCOLN CO PLAN & BLDG DEPT | G9400217 | 96,400 | 62,660 | 3/3/94 |
| MASON COUNTY MASON COUNTY HEALTH DEPT | G9400126 G9400130 | 141,387 108,520 | 94,983 73,000 | 12/29/93 12/29/93 |
| MERCER ISLAND CITY OF | G9400156 | 59,010 | 35,406 | 1/12/94 |
| NORTHEAST TRI-COUNTY HEALTH DIST | G9400173 | 50,799 | 38,099 | 5/19/94 |
| ODESSA TOWN OF | G9400249 | 368,000 | 239,200 | 3/31/94 |
| OKANOGAN COUNTY | G9400170 | 93,333 | 70,000 | 1/24/94 |
| OKANOGAN COUNTY OKANOGAN COUNTY | G9400190 G9400285 | 205,172 490,000 | 93,843 367,500 | 3/1/94 5/11/94 |
| PACIFIC COUNTY | G9400114 | 220,822 | 133,038 | 12/20/93 |
| PEND OREILLE COUNTY | G9400179 | 183,962 | 103,453 | 1/24/94 |
| PEND OREILLE COUNTY | G9400270 | 666,667 | 500,000 | 4/29/94 |
| PEND OREILLE COUNTY | G9400271 | 666,667 | 500,000 | 4/29/94 |
| PIERCE COUNTY PORT ANGELES CITY OF | G9400206 G9400055 | 1,298,311 134,280 | 570,000 100,710 | 3/7/94 9/20/93 |
| RENTON CITY OF | G9400213 | 127,042 | 40,140 | 3/10/94 |
| SAN JUAN COUNTY | G9400140 | 220,622 | 105,667 | 1/24/94 |
| SAN JUAN COUNTY | G9400257 | 769,231 | 500,000 | 4/26/94 |
| SEATTLE CITY OF SEATTLE-KING CO PUBLIC HEALTH DEPT | G9400153 | 1,541,887 | 437,408 | 3/1/94 |
| SEATTLE-KING CO PUBLIC HEALTH DEPT | G9400125 G9400199 | 128,333 2,321,515 | 77,000 1,392,909 | 2/8/94 4/21/94 |
| SHELTON CITY OF | G9400123 | 63,406 | 499 | 12/29/93 |
| SKAGIT CO PUBLIC WORKS DEPT | G9400100 | 1,000,000 | 500,000 | 2/3/94 |
| SKAGIT CO PUBLIC WORKS DEPT | G9400144 | 435,810 | 149,000 | 1/31/94 |
| SKAGIT COUNTY HEALTH DEPT SKAMANIA COUNTY PUBLIC WORKS DEPT | G9400139 G9400180 | 152,763 141,766 | 91,658 49,975 | 2/9/94 2/23/94 |
| SNOHOMISH CO HEALTH DISTRICT | G9400128 | 320,901 | 192,540 | 12/20/93 |
| SNOHOMISH CO SOLID WASTE | G9400054 | 1,286,665 | 771,999 | 12/3/93 |
| SNOHOMISH CO SOLID WASTE | G9400150 | 1,694,328 | 758,592 | 1/26/94 |
| SPOKANE CITY OF | G9400172 | 1,766,066 | 693,107 | 2/1/94 |
| SPOKANE COUNTY HEALTH DISTRICT STEVENS COUNTY | G9400187 G9400177 | 83,333 253,867 | 50,000 140,613 | 2/15/94 2/1/94 |
| SW WASHINGTON HEALTH DIST | G9400116 | 107,692 | 70,000 | 2/8/94 |
| SW WASHINGTON HEALTH DIST | G9400117 | 620,781 | 367,140 | 12/29/93 |
| TACOMA CITY OF | G9400203 | 769,375 | 176,750 | 4/12/94 |
| TACOMA-PIERCE CO HEALTH DEPT TACOMA-PIERCE CO HEALTH DEPT | G9400204 G9400205 | 107,692 282,940 | 70,000 183,911 | 3/7/94 3/7/94 |
| THURSTON COUNTY PUBLIC HEALTH | G9400131 | 550,976 | 312,393 | 1/10/94 |
| THURSTON COUNTY PUBLIC WORKS | G9400124 | 422,645 | 72,346 | 1/27/94 |
| WAHKIAKUM COUNTY | G9400166 | 97,384 | 57,884 | . 1/14/94 |
| WALLA WALLA & COLUMBIA COUNTIES WHATCOM COUNTY | G9400154 G9400151 | 553,513 1,058,038 | 255,784 343,995 | 1/24/94 1/26/94 |
| WHITMAN COUNTY | G9400147 | 305,745 | 143,160 | 1/4/94 |
| WHITMAN COUNTY | G9400216 | 769,231 | 500,000 | 2/22/94 |
| YAKIMA CO HEALTH DISTRICT | G9400110 | 213,333 | 141,864 | 1/16/94 |
| YAKIMA COUNTY | G9400113 | 1,814,828 | 275,344 | 1/4/94 |
| | | 38,131,783 | 18,081,624 | |
| | | | | |
| | GRAND TOTA | L 71,734,962 | 35,210,978 | 1. |
| | GRAND TOTA | L 71,734,962 | 35,210,978 | |
| Hausahali Hazarr | | | | |
| Household Hazard Household Hazard | dous Waste Plann | ing | 126,170 | |
| Household Hazaro Household Hazaro | dous Waste Plann dous Waste Plan I dous Waste Collec | ing mplementation ction & Disposal | 126,170 2,283,429 4,277,619 | |
| Household Hazard Household Hazard Small Quantity Ge | dous Waste Plann dous Waste Plan I dous Waste Collec enerator Implemen | ing mplementation ction & Disposal | 126,170 2,283,429 4,277,619 1,178,312 | |
| Household Hazard Household Hazard Small Quantity Ge Solid Waste Plann | dous Waste Plann dous Waste Plan I dous Waste Collec enerator Implemer ning | ing mplementation ction & Disposal | 126,170 2,283,429 4,277,619 1,178,312 212,954 | |
| Household Hazard Household Hazard Small Quantity Ge Solid Waste Plann Solid Waste Enfor | dous Waste Plann dous Waste Plan I dous Waste Collec enerator Implemen ning cement | ing mplementation otion & Disposal itation | 126,170 2,283,429 4,277,619 1,178,312 | |
| Household Hazard Household Hazard Small Quantity Ge Solid Waste Plann Solid Waste Enfor Waste Reduction I Waste Reduction | dous Waste Plann dous Waste Plan I dous Waste Collec enerator Implemen ing cement Recycling Activitie Recycling Capital | ing mplementation ction & Disposal itation | 126,170 2,283,429 4,277,619 1,178,312 212,954 1,638,519 2,540,820 207,013 | |
| Household Hazard Household Hazard Small Quantity Ge Solid Waste Plann Solid Waste Enfor Waste Reduction Waste Reduction Groundwater Mon | dous Waste Plann dous Waste Plan I dous Waste Collec enerator Implemen ing cement Recycling Activitie Recycling Capital | ing mplementation ction & Disposal itation | 126,170 2,283,429 4,277,619 1,178,312 212,954 1,638,519 2,540,820 207,013 155,476 | |
| Household Hazard Household Hazard Small Quantity Ge Solid Waste Plann Solid Waste Enfor Waste Reduction I Waste Reduction | dous Waste Plann dous Waste Plan I dous Waste Collec enerator Implemen ing cement Recycling Activitie Recycling Capital | ing mplementation ction & Disposal itation | 126,170 2,283,429 4,277,619 1,178,312 212,954 1,638,519 2,540,820 207,013 | |

BREAKDOWN OF COORDINATED PREVENTION GRANTS BY TASK:

COORDINATED PREVENTION GRANTS CONTINUED

18,081,624

Hazardous Sites List

HAZARdous Sit

After studying state ogy uses the Washing to estimate the poten health and the envirce is based on the amou how toxic they are, at could come into cont the environment. The tamination of surface groundwater are eva Sites are ranked relatiscale of one to five. A sents the highest level the lowest. After studying state cleanup sites, Ecology uses the Washington Ranking Method to estimate the potential threat to human health and the environment. This estimate is based on the amount of contaminants, how toxic they are, and how easily they could come into contact with people and the environment. The potential for contamination of surface water, air, and groundwater are evaluated for each site. Sites are ranked relative to each other on a scale of one to five. A score of one represents the highest level of concern and five the lowest.

> Information about sites is published in the Site Register. Changes to the Hazardous Sites List (HSL) are announced by Ecology twice each year. Owners, operators, and potentially liable owners and operators of hazardous waste sites are notified when their site is ranked and placed on the list.

Hazard ranking helps Ecology decide where to spend cleanup funds. Additional factors Ecology takes into consideration when prioritizing sites include public concern, a need for immediate action, and available cleanup staff and funding. In cases where groundwater is the only affected media and is the primary source of drinking water, Ecology may give a higher priority for cleanup than the hazard ranking designates.

Of the 538 sites on the Hazardous Sites List, 40 sites were ranked and added this year; 135 sites are ranked number 1. Three sites have been cleaned up and removed from the list this past year; Yakima Plating; Washington State Department of Transportation; and USN SUBASE, Bangor, Operable Unit 5.

To place your name on the Site Register mailing list, contact Sherrie Minnick at (360) 407-7200, or toll free at (800) 826-7716, and (360) 407-6006 to use Ecology's telecommunications device for the deaf (TDD)

Legend for Hazardous Sites List:

Site Name: # New site added to the ranked list, August 1994.

New site added to the NPL list

Rank: Higest relative risk = 1 and lowest = 5. Note: A site's rank may change when the HSL is updated

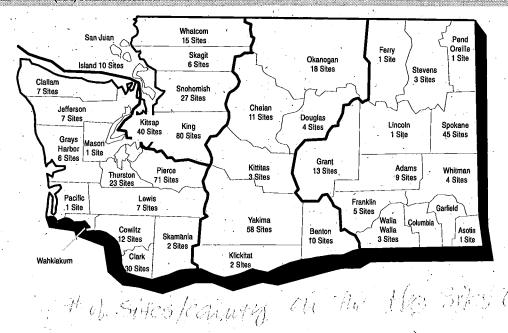
because a site's relative placement may change

Groundwater is the only affected pathway at this site, the site has been changed to reflect the revised WARM matrix

National Priorities List: Sites ranked under the Federal Hazard Ranking System (HRS) 0+ Federal

(EPA) lead, 0@ State lead, 0= Co-lead, 0~ Federal Facilities Agreement.

Status: (RA) Remedial Action



CENTRAL REGION Contact Persons: Jim Chulos (509) 454-7294 Michael Spencer (360) 407-7195

| | · | LIAZA | |
|-----------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------|---------------------------------------|
| | | FIALA | Rdous |
| Contact Persons: Jim | L REGION Chulos (509) 454-7294 | | |
| | er (360) 407-7195 Nearest City | Rank Status | Sin. |
| Benton Ben Franklin Transit Co. | Richland | 3' Independent RA | |
| CENEX, Kennewick J.R. Simplot Co. | Prosser | 2* Independent RA 4 Independent RA | |
| New City Cleaners Oggies Mini Mart | Prosser ' | 1 Awaiting RA 3* Independent RA | |
| Wellsian Way Well Field Chelan Cascade Helicopter Cashmere Landfill | Cashmere | 2* Awaiting RA 2 RA in Progress 1 Awaiting RA | · · · · · · · · · · · · · · · · · · · |
| Dryden Landfill Glacier Park (Boyd-Cascade) | Dryden | 4 Awaiting RA 1 RA in Progress | |
| Glacier Park (Budget Fuel) Holden Mine Tailing/Wenatchee | Leavenworth Holden | 1 Awaiting RA: 1 Independent RA | |
| Manson Landfill Unocal Bulk Plant #0082 | Chelan | 2 Awaiting RA 1 Awaiting RA | |
| Unocal Bulk Plant #0853 Unocal Service Station #4942 | | 1 Awaiting RA 2* Awaiting RA | |
| WSU Tree Fruit Research Unit Douglas Beebe Orchard Dump Inland Air Service | Chelan Falls | 3 Independent RA 5 Awaiting RA 4 Awaiting RA | |
| silicon Metaltech (lab site) Silicon Metaltech (lagoon) | Rock Island | 4 Awaiting RA 5 Awaiting RA 4 Awaiting RA | - - |
| Kittitas - Big B Mini-Mart Bingo Fuel Stop | Ellensburg | 4 Awaiting RA 2 RA in Progress | |
| Mid-State Aviation Klickliat Town Pump Station | Ellensburg | 3 RA in Progress 1 RA in Progress | |
| Okanogan Alder Mill Arden's Country Store | Twisp Malott | 2 Awaiting RA 3 Construction Complete | |
| Brett Pit Coca Gola Dist. Co. | Omak | 2 Awaiting RA 2* Independent RA | |
| Eisen's Chevron Gebbers Farm Jackpot Food Mart 01 091 | Brewster | 2 RA in Progress 1 Awaiting RA | |
| Jackpot Food Mart 01-081 Lloyd's Logging - Exc. Soil Lloyd's Logging - Equip Yard | Twisp | 3* Independent RA 5 Independent RA 5 Awaiting RA | |
| #Loomis Chevron Minnie Mine | Loomis | 5 Awaiting RA 2 RA in Progress | . |
| Molson Dump Oroville Dump | Molson Oroville | 5 Awaiting RA 5 Independent RA | |
| Pariseau Farm Tonasket Post & Rail | Brewster Tonasket | 2 Awaiting RA 5 Awaiting RA | |
| #UNOCAL 0855 USDOI-BLM Kaaba Texas Mine | Nighthawk | 2 Awaiting RA 1 RA in Progress | |
| Yakima Alder's Chevron Bay Chemical Bay Santon | Yakima | 2* Independent RA 2 RA in Progress | |
| Bee-Jay Scales Briar Development Company Buena LUST | Yakima | 1 Awaiting RA 2 Awaiting RA 2* Awaiting RA | |
| CMX Corporation #Carlos Motors | | Awaiting RA Awaiting RA Awaiting RA | |
| Cascade Natural Gas Circle L | Sunnyside Sunnyside | 1 RA In Progress 1 Awaiting RA | |
| Cliff's Battery Service Comet Trailer | Sunnyside Selah | 4 Awaiting RA 1 Awaiting RA | |
| Consolidated Freightways Evergreen Products | Parker : | 4 Independent RA 3 Awaiting RA | |
| Irwin Research & Development Jackpot Station - Union Gap Johnny's Texaco | Union Gap | 2 Awaiting RA 2 Awaiting RA 4 RA in Progress | |
| Kellogg's Korner Kelly Oil | Sunnyside | 4 RA in Progress 1 Construction Complete 3* Awaiting RA | |
| | Sunnyside : | 2* Awaiting RA 2 Independent RA | |
| Maid O'Clover - Sunnyside Manhole 34 | Sunnyside Sunnyside | Awaiting RA RA in Progress | |
| | Union Gap Selah | 3* Awaiting ÑA 5 Awaiting RA | |
| Pederson Farm | Moxee | 3* Independent RA 3 Independent RA | |
| Rainier Plastics Company | Yakima | 4 Awaiting RA 3 Awaiting RA | |
| Richardson Airways, Inc. | Yakima | 2 RA in Progress | |

| | | · . | <u> </u> | · · · · · · · · · · · · · · · · · · · | | , | |
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| | | | 1 . | | · . | | |
| 5 | | | County | Site Name | Nearest City | Rank | Status |
| | | 1990 | | - | | 22 | |
| AZARd | | | /akima | Roza Irrigation District | Sunnyside | 3* | Awaiting RA |
| | • | 3000 | | Section 18 Dump | Wapato | 3 . | Awaiting RA |
| | | | , | Shields Bag & Printing Co. | Yakima: | 5 | Awaiting RA |
| | | . 2000 | · | Snipes Mountain Landfill | Sunnyside | . 4 ′ . | Awaiting RA |
| | • | | 1 | Southgate Laundry | Yakima | 3 | Awaiting RA |
| | | | | Sunnyside Municipal Well | Sunnyside | 3* | Awaiting RA |
| | * . * | ., | | Superior Asphalt | 'Yakima | 1 | RA in Progress |
| 1 | , . | · · · · · | | Terrace Hts Landfill{pesticide | Yakima - | 5 | Awaiting RA |
| | | | | Texaco Bulk Plant/R.E. Powell | Grandview | 2* | Awaiting RA |
| | | | , | Tiger Oil (16th St. & Nob Hill | Yakima | 2 | Awaiting RA |
| . • > | | | | Tiger Oil (North First Street) | Yakima | 3 | Awaiting RA |
| | | | , | Tiger Oil Co (24th & Nob Hill) | Yakima | 1 | RA in Progress |
| | | | | Toppenish School Dist. | Toppenish | 2* | Awaiting RA |
| | | 1 100 | | Unocal Bulk Plant #0766 | Sunnyside | 1 | Independent RA |
| | | | | Valley Dry Cleaners | Sunnyside | 2 | Awaiting RA |
| | | 320 | • | VanCleave Body Shop | Yakima | ' 1 | Awaiting RA |
| | - | - | | WA DOT Rimrock | Naches | 3* | Independent RA |
| | 11 | _ 000 | | WA DOT Union Gap | Union Gap | 3* | Independent RA |
| | | 1.4 | | Yakima Railroad: | | _ | |
| 100 | | 394 | | Cameron - Yakima, Inc. | Yakima | 1 | RA in Progress |
| | • | | | Crest Linen (former) | Yakima | 1 | RA in Progress |
| | | | | Frank Wear Cleaners | Yakima | 1 | RA in Progress |
| ** | | | | Hahn Motor Company | Yakima | 5 | RA in Progress |
| | | 380 | , - | Nu-Way Cleaners | Yakima | 1 | RA in Progress |
| | | | | Paxton Sales Corporation | Yakima | 1 | RA in Progress |
| | , | . ** | | Woods Industries (Crop King) | Yakima | 1 | RA in Progress |
| | | | | Yakima Valley Spray Co. | Yakima | | RA in Progress |
| | | 3 | | #Yakima Steel Fabricators | Yakima | 2 | RA in Progress |
| | | | • | | Yakima Yakima | 3 | |
| 8 | | ₩ | | Zwight Logging | rakina , | J | Awaiting RA |

EASTERN REGION Contact Persons: Patti Carter (509) 456-6167 Michael Spencer (360) 407-7195

| Adams | Adams Co. Maint. Shop (Othello) | Othello | 3* | Independent RA |
|-----------------------------------------|-----------------------------------------|------------|-----|----------------|
| | Burlington Northern (Othello) | Othello , | 1 | RA in Progress |
| | CMC Real Estate (Othello) | Othello | 5 | Independent RA |
| | Harold's Deli | Othello | 5 | RA in Progress |
| | Puregro (Othello) | Othello | 5 | Awaiting RA |
| | Puregro (Ritzville) | Ritzville | 5 | Awaiting RA |
| | Soil and Crop | Othello | 2 | RA in Progress |
| | T-16 Ranch | Lind | 5 | Independent RA |
| | W W T Batum Facility | Batum | - 5 | Awaiting RA |
| Asotin | Asotin County Landfill | Clarkston | 5 | Awaiting RA |
| Ferry | Hecla Knob Hill Mine | Republic | 5 | Awaiting RA |
| Franklin | Glen's Metals | Pasco | 5 | Awaiting RA |
| | Pasco Landfill | Pasco | 0@ | RA in Progress |
| , | Port of Pasco | Pasco | 1 | RA in Progress |
| | Puregro (Pasco) | Pasco | 1 | Awaiting RA |
| | Smith Canyon Haz Waste Site | Pasco | 5 | Independent RA |
| Grant | City of Moses Lake Maintenance Facility | Moses Lake | 2* | Independent RA |
| | Duncan Crane Service, Inc. | Moses Lake | 3* | Independent RA |
| | Grant Co-Ephrata Landfill 1 | Ephrata | 5 | Awaiting RA |
| - ' | Grant Dangerous Waste Site | Royal City | 5 | Awaiting RA |
| | International Titanium | Moses Lake | 4 | Awaiting RA |
| | Larson Substation, Grant Co. PUD | Moses Lake | 4 | Awaiting RA |
| | Port of Moses Lake Pumphouse 1 | Moses Lake | 2* | Independent RA |
| | Puregro (Moses Lake) | Moses Lake | 5 | Awaiting RA |
| | Puregro (Quincy) | Quincy | 5 | Awaiting RA |
| | Purégro (Warden) | Warden | 5 | Awaiting RA |
| | Vista Comer Texaco | Moses Lake | 3 | Independent RA |
| Lincoln | Puregro (Wilbur) | Wilbur | 5 | Awaiting RA |
| Pend Oreille | Cusick School District | Cusick | 3* | RA in Progress |
| Spokane | Alaska Steel and Supply | Spokane | 4 | Awaiting RA |
| , | Aluminum Recycling Corp. | Spokane | 2 | Awaiting RA |
| *************************************** | American Tar Company | Spokane | 3*, | . Awaiting RA |
| , , | Argonne Road | Spokane | 3 | RA in Progress |
| .* | B J Carney & Company | Spokane - | 3* | Awaiting RA |
| | Burlington Northern-Hillyd. | Spokane | 4 | Independent RA |
| | Cummins Northwest (Spokane) | Spokane | 5 | Independent RA |
| | Four Lakes Tire Fire (FLTF) | Four Lakes | 5 . | Awaiting RA |
| . , | Geiger-SIA-Fuel Farm | Spokane | 3* | Independent RA |

Hazardous

Sites List

| County | Site Name | Nearest City | Rank | Status |
|-----------------------------------------|--------------------------------------|--------------|------|-----------------------|
| Spokane | General Electric-Old Site | Spokane | 0@ | RA in Progress |
| | Greenacres Landfill | Spokane | 0@ | RA in Progress |
| | Inland Empire Plating | Spokane | 1 | Independent RA |
| | Inland Pit | Spokane | 0@ | RA in Progress |
| | #Jeld-Wen Inc. | Spokane | 3 | Independent RA |
| | Koch Materials - Trent Ave. | Spokane | 3 | Independent RA |
| | Marshall Landfill | Marshall | 4 | Awaiting RA |
| *************************************** | Mica Landfill | Mica | 0@ | RA in Progress |
| 1 | North Market Street | Spokane | 0@ | RA in Progress |
| | Sicilia Trucking | Spokane | 3 | Independent RA |
| | Sparks & Buttercup Subdivision | Spokane | 2 | Independent RA |
| | Spokane Fire Dept. Training Facility | Spokane | 3* | Awaiting RA |
| | ()Spokane Junk Yard | Spokane | 0+ | Awaiting BA |
| - | Spokane Transit Auth. Bus Barn | Spokane | 5 | . Independent RA |
| | URM Stores, Inc. | Spokane | 5 | Independent RA |
| . , | USAAC Geiger Field(GF001 | Spokane | 2 | Awaiting RA |
| | USAAC Geiger Field(GF003 | Spokane | 5 | Awaiting RA |
| | USAAC Geiger Field(GF004 | Spokane | 3* | Awaiting RA |
| | USAAC Geiger Field(GF005 | Spokane | 4 | Independent RA |
| . ' | USAAC Geiger Field{GF006 | Spokane | 3* | Awaiting RA |
| | USDOE-BPĂ Bell Substations | Spokane | 3* | Independent RA |
| | United Parcel Service | Spokane ' | 3* | Independent RA |
| | Washington Air Nat'l Guard | Spokane | 3* | Independent RA |
| Stevens | Colville Post and Pole | Colville | 3 | Awaiting RA |
| | L-Bar Products | Chewelah | 4 | RA in Progress |
| , | Whitten Oil Exxon | Colville | 3 | RA in Progress |
| Nalla Walla | Corps of Engineers Motor Pool | Walla Walla | 2* | Independent RA |
| | Pantorium Cleaners | Walla Walla | 3* | Independent RA |
| | Walla Walla Farmers Coop | Walla Walla | 1 | Construction Complete |
| Vhitman | Endicott School District | Endicott | 4 | RA in Progress |
| | Garfield School District | Garfield | 3* | Construction Complete |
| | Palouse Producers | Palouse | . 1 | Construction Complete |
| | WA State Univ Landfill | Pullman | 4 | Awaiting RA |

INDUSTRIAL SECTION Contact Person: Paul Skyllingstad (360) 407-6949

| Clallan | Delekson America O | Ded Assista | | ladamadan DA |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clallam | Dalshowa America Company Ltd. | Port Angeles | 5 | Independent RA |
| | ITT Rayonier PA Finish Rm Site | Port Angeles | 2 | RA in Progress |
| Clark | ALCOA-Vancouver[| Vancouver | 0@ | Construction Complete |
| | ALCOA Vancouver(NPL | | | Construction Complete |
| | ALCOA Vancouver{PCB | | | Independent RA |
| | ALCOA Vancouver{Rod Mill | | | RA in Progress |
| | ALCOA Vancouver(TCE | | | RA in Progress |
| | Columbia Marine Lines | Vancouver | 4 | Construction Complete |
| Cowlitz | Longview Fibre | Longview | 5 | Awaiting RA |
| | Reynolds Metals - Longview | Richmond | 5 | Awaiting RA |
| | Weyerhaeuser(Wyco) Co Longview | Longview | 1 | RA in Progress |
| Klickitat | Columbia Aluminum Corporation | Goldendale | 3 | Awaiting RA |
| Pierce | Kaiser Aluminum Tacoma Works | Tacoma | 4 | Construction Complete |
| Snohomish | Weyerhaeuser-Everett(West Site (OU) | Everett | 1 | RA in Progress |
| Skagit | Texaco February Oil Spill | Anacortes | 2 | Construction Complete |
| Spokane | Kaiser Aluminum Mead Works | Spokane . | 0@ | RA in Progress |
| Whatcom | Georgia Pac-Bio Trimt Lgn | Bellingham | 2 | Awaiting AA |
| | Georgia Pacific Corporation | Bellingham | 5 | ` RA in Progress |
| | the control of the co | | | A Company of the Comp |

NORTHWEST REGION Contact Persons: Norm Peck (206) 649-7047 Michael Spencer (360) 407-7195

| | | • | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------|-----|----------------|
| Island | #Cornet Bay Marina | Oak Harbor | 5 | RA in Progress |
| | Unocal/Coupville Bulk Plant | Coupeville | 1 . | Independent RA |
| King | ARCO - Tank Farm | Seattle | 2 | RA in Progress |
| | Ace Galvanizing Inc. | Seattle | 4 | Awaiting RA |
| | Advance Electroplating | Seattle | 5 - | Awaiting RA |
| | Alaska Pacific Fisheries | Seattle | 1 | Awaiting RA |
| | Asko Processing Inc. | Seattle | 5 | Independent RA |
| | Auburn Abandoned Fire Station | Auburn | 3 | Independent RA |
| | BNR Maint. & Fueling Facility | Skykomish | 1 | RA in Progress |
| | #BP Station #11352 | Bothell | 3. | RA in Progress |
| | Balmer Yard/BNR | Seattle | 5 | Independent RA |
| | Boeing Co- North Field | Seattle | 5 | Independent RA |
| and the second s | | | | · . |

County Site Name King Boein P **Nearest City** Rank Status Seattle Independent RA Borden Chemical Company Independent RA Kent C and F Auto Wrecking Awaiting RA Duvall Maple Valley Independent RA Awaiting RA Seattle 2 Champion Intnati- Ballard Mill Seattle **Construction Complete** Chemcentral Solvents Co. Independent RA Kent Enumclaw Christensen Petroleum Independent RA #Circle K Station #1461 Seattle RA in Progress Earle M. Jorgensen Co. Independent RA Seattle Eastern Supply Co. Seattle RA in Progress GACO Western, Inc. Gas Works Park(Wa Ntl Gas) RA in Progress 3' Tukwila Seattle RA in Progress General Elec. Apparatus Srv Ct 3 Independent RA Kent Great Western Chemical RA in Progress Seattle Seattle 0+ **RA in Progress** Hydraulic Repair & Design, Inc. Independent RA Kent 3* Seattle Independent RA J H Baxter & Company Inc. James Oil Co. RA in Progress Renton Enumclaw Awaiting RA Kenmore Industrial Park Awaiting RA Kenmore RA in Progress RA in Progress Kent Highlands Landfill 0@ Kent LIDCO Kent Awaiting RA Laidlaw Seattle Lake Union Dry Dock Co. Awaiting RA Seattle Lake Union Steam Plant Independent RA Seattle Lake Washington School Dist. Construction Complete Kirkland Landsburg Mine-Rogers Seam Ravensdale **RA in Progress** Lindal Property Lockheed Shipbidg Co Yd 2 Awaiting RA Kent RA in Progress Seattle Independent RA Longview Fibre Co. Seattle Malarkey Asphalt Co. Independent RA Seattle Maraico Kent RA in Progress Marine Vacuum Service, Inc. 3 Awaiting RA Seattle Markey Property, Parcel 4 Independent RA Seattle Metro Lake Union Facility Metro South Base Seattle RA in Progress Independent RA Seattle Midway Landfill Kent 0@ **RA in Progress** Mobil/BP Bulk Facility- Renton Independent RA Renton 5 Monterey Apartments Site Seattle 3 **RA in Progress** Newcastle/Coal Creek Landfill Issaguah 5 Awaiting RA Northwest Cooperage Co., Inc. Awaiting RA Seattle Northwest Powder Coats Kent 3* Awaiting RA Old Lawson Rd. Black Diamond Awaiting RA PACCAR Renton 0@ RA in Progress Awaiting RA Pioneer Enamel Manufacture Seattle 5 Precision Engineering Independent RA Seattle Quendall Terminals Renton **RA in Progress** Reichold Chemical/Lone Star Awaiting RA Seattle Awaiting RA S. 252nd St./Pacific Hwy. S. Kent Shell, Old- Term 18/Port of Seattle Seattle RA in Progress 5 RA in Progress Shell- Tank Farm Seattle Kent Slag Disposal/Beckwith Proprty RA in Progress Sternoff Metals Seattle Independent RA Sunset Park/Tub Lake Dump SeaTac Independent RA RA in Progress RA in Progress Texaco Marketing & Refining-HI Seattle 2 #Tiki Car Wash Bellevue 3 UNIMAR Awaiting PA Seattle **Union Station Site** Seattle 3 Awaiting RA Unocal-Seattle Marketing Term. **RA in Progress** Seattle VIOX Seattle Independent RA 5 Western Batteries, Inc. Seattle Independent RA 3 {}Wyckoff Co. (Pacific Sound Resources) Seattle 0+ Awaiting RA Zandt Brass Foundry Awaiting RA Seattle Bainbridge Island Landfill Bainbridge RA in Progress RA in Progress Bethel - former Texaco Port Orchard Chevron Tank Farm/Port WA Nar Bremerton Independent RA Country Junction Store RA in Progress Independent RA Port Orchard Day Road Industrial Park Bainbridge Island #Hansville General Store Hansville RA in Progress 3 Hansville Landfill Hansville RA in Progress Lofthus Bulk Plant Bremerton Awaiting RA Norseland Site Port Orchard RA in Progress

Port Orchard

Olympic View Sanitary Landfill

Independent RA

Hazardous

| County | Site Name | Nearest City | Rank | Status |
|-----------------------------------------|----------------------------------|-------------------|------|-----------------------|
| Kitsap | Stone Property | Bainbridge Island | 4 | Awaiting RA |
| | Strandley/Manning Site | Port Orchard | 3 | RA in Progress |
| Skagit | Skagit Manufacturing | Sedro Woolley | 3 | Independent RA |
| | #Truck City Truck Stop | Mť. Vernon | 3 | RA in Progress |
| | Unocal/Mt. Vernon Bulk Fuel | Mt. Vernon | 1 | Independent RA |
| Snohomish | #Bill Pearson Timber | Sultan | 3 | Awaiting RA |
| | Christianson Co. | Arlington | 5 | Awaiting RA |
| | East Waterway | Everett | 2 | Awaiting RA |
| | Everett Landfill/Tire Fire | Everett | 1 | RA in Progress |
| | Everett Smelter/Slag Site | Everett | 1 | RA in Progress |
| | Fishermen's Boat Shop Inc. | Everett | 3 | Independent RA |
| | J H Baxter & Company- Arlington | Arlington | 4 | Awaiting RA |
| | Ken's Radiator Service | Lynnwood | 2 | Independent RA |
| | Lynnwood Plating | Lynnwood | 4 | Awaiting RA |
| | #Monroe Auto Salvage | Monroe | 1 | Awaiting RA |
| *************************************** | Nord Door Co. | Everett | 5 | Independent RA |
| | Parson's Diesel | Shohomish | 5 | Awaiting RA |
| , | Pop's Automotive/Roloff Prop. | Everett | 3* | Construction Complete |
| | Pump Crete | Lynnwood | 5 | Awaiting RA |
| | Rubatino's Truck Care | Everett | 5 | Independent RA |
| | Snohomish Co. PUD/Lynnwood Stn | Lynnwood | 2 | Independent RA |
| | #Stan's Radiator | Everett | 4 | Awaiting RA |
| | US- Defense Fuel Supply Point | Mukilteo | 1 | RA in Progress |
| | Unocal Bulk Plant/Arlington | Arlington | 2* | Independent RA |
| | Unocal Edmonds Bulk Fuel Term. | Edmonds | 1 | RA in Progress |
| | Urban Accessories | Sultan | 5 | Awaiting RA |
| | Wallace River Park Well | Startup | 4 | Construction Complete |
| | Washington Natural Gas/Everett | Everett | 5 | Independent RA |
| | Wellington Hills Assoc. | Woodinville | 2 | Independent RA |
| - | Weyerhaeuser-Everett} | Everett | 1 | Independent RA |
| Whatcom | Boulevard Park | Bellingham | 1 | Awaiting RA |
| | Cornwall Avenue Landfill | Bellingham | 2 | Awaiting RA |
| | Georgia Pacific Airport Landfill | Bellingham | 4 | Independent RA |
| | Murray Chris-Craft Cruisers-W. | Bellingham | 2 | Independent RA |
| | Oeser Cedar/Ltle Squalicum CRK | Bellingham . | 1 | Awaiting RA |
| | R.G. Haley Intl Corp | Bellingham | 3 | Awaiting RA |
| | Sunshine Cleaners (Former) | Bellingham | 2 | Independent RA |
| | Trans Mountain Oil Ding Line | Pollinghom | 4 | DA in Brogroop |

NUCLEAR AND MIXED WASTE PROGRAM - HANFORD PROJECT Contact Person: Roger Stanley (360) 407-7108

RA in Progress Awaiting RA

Awaiting RA

Bellingham Bellingham

Ferndale

| Benton HANFORD - 100-AREA (DOE) Richland 0~ RA in Progress | o construction |
|------------------------------------------------------------|----------------|
| (includes 27 operable units) | |
| HANFORD - 1100-AREA (DOE) Richland 0~ RA in Progress | į |
| (includes 3 operable units) | |
| HANFORD - 200-AREA (DOE) Richland 0~ RA in Progress | i |
| (includes 43 operable units) | |
| HANFORD - 300-AREA (DOE) Richland 0~ RA in Progress | |
| (includes 5 operable units) | |

Trans Mountain Oil Pipe Line Whatcom Waterway

Wilder Landfill

SITE CLEANUP SECTION Contact Persons: Tim Nord (360) 407-7226 Michael Spencer (360) 407-7195

Sites managed by the Site Cleanup Section are large and complex sites. To make them more manageable, these sites are often divided into smaller units referred to as "operable units." If a site has "operable units," they are listed below (along with their status) under the corresponding site name.

| Clark | Frontier Hardchrome | - Vancouver | 0+ | RA in Progress |
|--------|----------------------|-----------------------|----|----------------|
| | US BPA Ross{ | Vancouver | 0~ | RA in Progress |
| | US BPA Ross(OUA | | | RA in Progress |
| | US BPA Ross{OUB | | | RA in Progress |
| | Vancouver Wtr Sta #4 | Vancouver | 0+ | RA in Progress |
| | Grant Moses Lk WF{ | Moses Lake | 0+ | RA in Progress |
| | Moses Lk Wf{Skyline | | | RA in Progress |
| Island | USN Whidbey{ | Oak Harbor | 0~ | RA in Progress |
| | USN Whidbey{HWES | 400 | | RA in Progress |
| 1 | USN Whidbey{OU1 | | : | RA in Progress |
| | USN Whidbey(OU2 | and the second second | | RA in Progress |
| | USN Whidbey{OU3 | | | RA in Progress |

County Site Name Island USN Whidbe USN Whidbe USN Port Hadlock USN Port Hadlock USN Port Hadlock King Queen City Farms Queen City Farms Queen City Farms Kitsap Kitsap Kitsap Kitsap Kitsap Eagle Harbor **Nearest City** Rank Status USN Whidbey(OU4 RA in Progress USN Whidbey(OU5 Oak Harbor 0~ RA in Progress USN Whidbey(Lake Hanco RA in Progress {}USN Port Hadlock{ RA in Progress Port Hadlock 0@ USN Port Hadlock(Area 10 & 2 RA in Progress USN Port Hadlock{Area 11 RA in Progress USN Port Hadlock(Area 12 RA In Progress RA in Progress Queen City Farms A(Issaquah 0+ Queen City Farms A{4 Tek RA in Progress Queen City Farms A[Buried Drum Queen City Farms A[IRM RA in Progress RA in Progress Issaquah Queen City Farms B 0+ RA in Progress RA in Progress Western Processing Co Inc. Kent Ò+ RA in Progress Bainbridge 0+ Eagle Harbor(E RA in Progress Eagle Harbor(W Eagle Harbor(Wyckoff RA in Progress RA in Progress Eagle Harbor{Wyckoff{GW **RA in Progress** {}USAGE Manchester Annex Port Orchard RA in Progress {}USN Jackson Park{ USN Jackson Park{Shoreline Bremerton 0@ RA in Progress RA in Progress USN Jackson Park{Upland RA in Progress JSN Keyport{ USN Keyport{OU1 RA in Progress RA in Progress USN Keyport(OU2 RA in Progress {}USN PSNS{ USN PSNS{OUA Bremerton 0@ **RA in Progress** RA in Progress USN PSNS{OUB USN PSNS{OUB{IA106 RA in Progress RA in Progress USN PSNS(OUB(IA588 USN PSNS(OUC RA in Progress RA in Progress USN PSNS{Tanks **RA in Progress** Subase{ RA in Progress USN Subase(OU1/Ord.Disp RA in Progress RA in Progress USN Subase(OU2 USN Subase(OU3 **RA** in Progress USN Subase(OU4 RA in Progress USN Subase(OU6 RA in Progress USN Subase(OU7 RA in Progress {}USN Supply Center Bremerton 0@ RA in Progress Lewis American Crossarm & Condi Chehalis RA in Progress 0+ Okanogan Silver Mountain Mine Construction Complete Loomis 0+ Pierce RA in Progress Asarco{Demolition RA in Progress Asarco(Offshore RA in Progress Asarco{Smelter RA in Progress Lakewood/Ponders Corne Construction Complete Lakewood Ruston/N Tacoma Tacoma 0+ RA in Progress S Tacoma Field Tacoma RA in Progress 0+ Tacoma Landfill Construction Complete Tacoma 0= Tacoma Tar Pits Tacoma 0+ RA In Progress USA Ft Lewis Landfill5 Construction Complete Tacoma 0+ USA Ft Lewis Landfill 4/SRCPP RA in Progress Tacoma 0~ USA Ft Lewis Log Center, RA in Progress Tacoma 0+ USA Ft Lewis Multi Site Multi-Site RA in Progress Tacon USAF MAFB Am Lk Gdn Construction Complete Tacoma 0~ Construction Complete USAF MAFB Washrack Tacoma 0~ Well 12A Construction Complete Tacoma 0+ Skagit EDB 2 Skagit County Mt. Vernon Construction Complete 1 Skamania USACE Hamilton Is Landfill RA in Progress N. Bonneville n~ Awaiting PA Snohomish Tulalip Landfill Marysville 0+ Colbert Landfill Spokane Spokane 0= RA in Progress Northside Landfill Spokane Construction Complete US FAA Mica Peak RA in Progress Spokane RA in Progress USAF (FAFB) Fairchild AFB[Spokane USAF FAFB{Craig Rd Landfill RA in Progress USAF FAFB(Pr1 USAF FAFB(Pr1{FT-1 RA in Progress RA in Progress USAF FAFBIPTILTM RA in Progress USAF FAFB(Pr1{PS-2 **RA in Progress** USAF FAFB(Pr1(WW-1 RA in Progress USAF FAFB(Pr2 RA in Progress USAF FAFB(Pr3 RA in Progress

HAZARdous Status Site Name **Nearest City** County Rank EDB 1 Thurston Gounty Restover Truck Stop EDB 3 Whatcom County NW Transformer-Harkness NW Transformer-Mission Pole Construction Complete RA in Progress Construction Complete RA in Progress Construction Complete Olympia Tumwater Thurston Lynden 3 Everson 0+ Everson Yakima FMC Yakima Construction Complete Yakima -0+

SOUTHWEST REGION Contact Persons: Dick Heggen (360) 407-6267 Michael Spencer (360) 407-7195

| Clallam | Chevron Bulk Plant #61001372 | Port Angeles | 1 | Awaiting RA |
|--------------|--------------------------------------|---------------|-----|-----------------------|
| | PenPly (ITT Rayonier) | Port Angeles | 5 | RA in Progress |
| | Port of Port Angeles Log Yard | Port Angeles | 1 | Awaiting RA |
| *. | Truck Town | Port Angeles | 3 | Awaiting RA |
| | Unocal Bulk Plant 0601 | Port Angeles | 1 | Independent RA |
| Clark | AIRCO Industrial Gases | Vancouver | 1 . | RA in Progress |
| | BN Maintenance Yard, Vancouver | Vancouver | 1 | Awaiting PA |
| | Carborundum Company | Vancouver | 1 | Awaiting RA |
| ` | Chevron Bulk Plant #61001854 | Vancouver | 1 | Awaiting RA |
| | Circle C Landfill | Ridgefield | 1 | Construction Complete |
| | #Colf Landscaping | Vancouver | 4 | Awaiting RA |
| | Custom Care Cleaners | Vancouver | 5 | Awaiting RA |
| | Fargher Lake Grocery | Yacolt | 3* | Construction Complete |
| | GATX Terminals Corporation | Vancouver | 1 , | Awaiting RA |
| | Gen. Chemical Corp-Vancouver | Vancouver | 5 | Awaiting RA |
| | Jim's BP | Battle Ground | 2* | RA in Progress |
| | L & C Deli | Vancouver | 4 , | Construction Complete |
| | Larch Mountain (DNR) | Yacolt | 2 | Independent RA |
| | Leichner Brothers Landfill | Vancouver | 3 | RA in Progress |
| | Orbit Industries | Washougal ' | 4 | Awaiting RA |
| | Pacific Northwest Plating - Boomsnub | Vancouver | i | RA in Progress |
| , - | Robertson's Paint Shop | Vancouver | 5 | Awaiting RA |
| , | Tidewater Barge Lines, Inc. | Vancouver | 2 | Independent RA |
| | Time Oil/Handy Andy #8 | Vancouver | 1 | RA in Progress |
| | ()Vancouver Water Station #1 | 'Vancouver | 0+ | RA in Progress |
| | Vancouver Wellfield #3 | Vancouver | 2* | RA in Progress |
| Cowlitz | Chevron USA, Longview | Longview | 1 | Awaiting RA |
| | Cliff Koppe Metals | Kelso | 2 | Awaiting RA |
| | Gardner Forest Products | Longview | 4 | Independent RA |
| | Mt. Solo Landfill | Longview | 1 | Awaiting RA |
| | Olympic Pipeline Company | Castle Rock | 1 | Awaiting RA |
| | Ostrander Rock Disposal | Longview | 4 | Awaiting RA |
| | Reed Landfill | - Kelso | 1 | Awaiting RA |
| | Unocal Bulk Plant #0321 | Kelso | 1 | Awaiting RA |
| | West Coast/Mobil Oil Co. | Longview | 1 | RA in Progress |
| Grays Harbor | Hungry Whale Grocery | Westport | 2* | RA in Progress |
| • | ITT Řáyonier (Sawmili) | Hogulam | 2 | Independent RA |
| | Most Western Laundry | Hoguiam | 1 - | Awaiting RA |
| | Roderick Timber Co. | Junction Gity | 1 | Awaiting RA |
| | Saginaw Mill | Aberdeen | 1 | Awaiting RA |
| | Snook Residence | Oakville | 1 | Awaiting RA |
| Jefferson | - Chevron Bulk Plant | Port Townsend | 1 | Independent RA |
| | Olympic Testing Lab | Quilcene | 2 | Awaiting RA |
| | Port Townsend Texaco | Port Townsend | 2 | Awaiting RA |
| Lewis | Centralia Landfill | Centralla | 0@ | RA in Progress |
| | Cowlitz BP | Toledo | 2 | RA in Progress |
| | Grange Supply,Chehalis/Cenex | Chehalis | 1 | RA in Progress |
| | Packwood Lumber Company | Packwood | 4 | Awaiting RA |
| | Trailer Village | Centralia | 2* | Awaiting RA |
| | Utility Transformer Service | Pe Ell | 4 | Awaiting RA |
| Mason | Pt of Shelton (All Star Aero) | Shelton | 4 | RA in Progress |
| Pacific | Weyerhaeuser Truck Shop | Raymond | 1 | RA in Progress |
| Pierce | B & L Woodwaste Landfill | Tacoma | 1 | Construction Complete |
| | Buffalo Don Murphy-Waller Road | Tacoma | 1 | Awaiting RA |
| • | Calhoun's Service Station | Tacoma | 2 | Awaiting RA |
| | Cascade Polé, Tacoma | Tacoma | 1 | RA in Progress |
| | Cascade Pole-McF/ Sitcum | Tacoma | 4 | RA in Progress |
| | Cascade Timber #1 | Tacoma | 1 . | RA in Progress |
| | Chevron Bulk Plant | Tacoma | 3 | Independent RA |
| | Comm Bay-Nearshore/Tideflats | Tacoma | 0+ | RA in Progress |
| | Cascade Timber #3 - POT | Tacoma | | RA in Progress |
| | Cascade Timber #3 - US Oil | Tacoma | • | RA in Progress |
| | | | | |

County Site Name Pierce PRI **Nearest City** Rank Status RA in Progress Tacoma RA in Progress RA in Progress Tacoma Tacoma Tacoma Coal Gasification RA in Progress Tacoma Taylor Way Properties, Inc. Tacoma RA in Progress Thorne Road Slag Site RA in Progress Tacoma **RA in Progress** Tacoma Tacoma Awaiting RA **Construction Complete** Tacoma Awaiting RA Roy Elf Atochem - 2901 Taylor Way Construction Complete Tacoma Frederickson Industrial Park Tacoma **RA in Progress** RA in Progress Tacoma Hidden Valley Landfill (Thun Fld) Landscaping by Pat Boring RA in Progress 0@ Puyallup Tacoma Awaiting RA Awaiting RA Tacoma Tacoma Construction Complete Manke Lumber Co., Sumner Plant Awaiting RA Sumner RA in Progress Tacoma **RA in Progress** Tacoma Nalley's Fine Foods Independent RA Tacoma National Oil Dump Tacoma Awaiting RA Occidental Chemical, Marine Vw Awaiting RA Tacoma Parkland Cleaners Independent RA Parkland 3 Petroleum Reclaiming Service Awaiting RA Tacoma' Puget Power-Electron Power Independent RA Orting 2 Rhone Poulenc/Basic Chemical Tacoma Awaiting RA Robert Rosch Property Roy Independent RA Summit Exxon Independent RA Tacoma Sumner National Auto Parts Sumner Awaiting RA TAM Engineering Corporation Awaiting RA Tacoma Tacoma Metals inc. Tacoma Awaiting RA Tacoma Storm Drains Tacoma Awaiting RA Union Pacific RR-Tunnel Tacoma Awaiting RA Awaiting RA Unocal Service Station (Conar Gig Harbo Valley Refinishing WA St Nat'l Guard/Camp Murra Sumner Awaiting RA Independent RA Tacoma WSU Buckley Dairy Awaiting RA Buckley Wasser Winters Tacoma Construction Complete Weyerhaeuser-Dupont #1 Dupont **RA in Progress** Xytec Plastics} Awaiting FA Tacoma -Xytec)Clorox/Lakewood Unocal Bulk Plant #0761 Independent RA Stevenson Skamania Awaiting RA Thurston Black Lake Grocery Olympia RA in Progress Cascade Pole; Inc. - McFarland Cedar Creek Corrections (DNR) RA in Progress Olympia Littlerock Independent RA Fourth Street Mobil Olympia RA in Progress Hytec, Littlerock Littlerock Awaiting RA Hytec, Tumwater Tumwater Awaiting RA Lacey Compound (DNR) Independent RA Lacev Lacey Laundromat Awaiting RA Lacey Lacey Rochester Lacey Valve Grinding Awaiting RA Minitrie Tire Fire Awaiting RA Monarch Bullet Rochester Independent RA Old Olympia Municipal Dump Olympia Awaiting RA Pattison Lake EDB Lacey Construction Complete Puget Sound Power & Light Olympia Independent RA Rhodes Chemical Company Rochester Awaiting RA Rhodes Chemical Company-Barn Rochester Awaiting RA Texaco Bulk Plant, Tumwater Tumwater Independent RA Unocal (Hulco) Olympia Awaiting RA Weyerhaeuser Co.-Box Plant Olympia Awaiting RA Wolph's Second Hand Store Awaiting RA Olympia Wood Fabricators Awaiting RA Yelm