



**Oregon Department of Environmental Quality
Columbia Slough Cleanup Sites**



Site Name	Address	ECSI #	COPCs	Letter date	PM	Sed. data?	Priority	Status
FS/staff report/ROD								ROD signed July 2005. RD/RA IGA w/City effective April 30, 2006 - 2010. New IGA signed September 2010 0 June 2015. Implementation underway. State of the Slough reports issued Feb 2007, Sept 2007, 2008, March 2009, and January 2011.
Watershed Action Plan								Final Watershed Action Plan Oct 2006. Final OF 59 report submitted September 2007. DEQ and City revising/updating WAP - expect to finalize September 2011.
Slough Settlement Investigations/cleanup								Target Area collaborative approach - public comment period completed on Consent Judgments addressing settlement of Slough liability with 7 parties in vicinity of Target Area 1 (lower Slough) of WAP. DEQ managed in-water sediment RI/FS for this area completed September 2009. Report issued January 2011. Whitaker Slough target area sediment investigation completed Spring 2011.
Long-term monitoring								Long Term Monitoring Plan finalized Sept 2007. Fish tissue sampling completed August 2005. Final report submitted May 2007. Sediment sampling completed August 2006. Final report provided February 2009. LTMP updated to include review of adequacy of institutional controls March 2011.
Slough Investigation Guides								Columbia Slough screening levels for sediment and upland source control issued February 2007. Lower Slough specific screening and baseline values developed as a result of the Lower Slough sediment investigation January 2011.
Lower Slough Active								
Airgas Nor Pac	3591 N. Columbia Boulevard	3528	TPH, PAHs, metals	9/16/2005	Chuck Harman	no	H	VCP letter agreement sent to Airgas on 4/20/07 and initial SI work completed in 07-08 timeframe. DEQ response to SI results was forwarded to Airgas NP in August 2008, indicating that a conditional NFA for uplands may be supported pending additional dry well investigation and stormwater evaluation. In Spring 2009, DEQ learned that Airgas NP needs to resolve stormwater system design issues with City of Portland before they can completely address UIC decommissioning. Airgas has indicated that they are not interested in Col. Slough in-water investigation for suspected historic discharges. Source Control decision issued April 2011. NFA for source control issued April 2011. Entire site storm system upgraded, with some added treatment and then discharge to City of Portland storm system. Shared conveyance with Malarkey Roofing.
ALSCO/American Linen	1441 N Columbia Blvd	5009	PCE		Bob Williams			Added to ECSI based on gw data at Macadam Al and Bronze. No sediment impact expected. Significant release of PCE found below the AlSCO building near dry cleaning machine. Indoor air concentrations above hot spot criteria. IRAM for soil contamination planned.
B&R Auto Wrecking Property	511 N Columbia Blvd	4149	TPH, PCBs	10/27/2004	Bob Williams	no	H	Further Site Investigation warranted. Adjacent to Wastech and Precision sites and located over same contaminated fill/former sludge pond. Considering participation in collaborative sediment cleanup effort coordinated by DEQ - April 2007. Bioswale replanted in 2010. UIC on site will be allowed to remain. Limited site paving planned.



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Blasen Family, LLC (BTS Container Service)	1601 N. Columbia Blvd	3785	metals - Pb, Cr	3/14/03	Paul Seidel		H	RI and FS complete; DEQ staff report issued for public comment July 2010. Proposed upland remedy: erosion control on Sluogh bank, cap on northern fill area, stormwater management, and LT management. Remedy may be implemented as part of property transaction. City coordination on implementation of stormwater remedy implementation and permitting. Participating in collaborative sediment cleanup effort coordinated by DEQ - April 2007.
BPA St Johns substation	12375 N. Columbia Blvd	1858	PCBs, petroleum, TCA, DCE, DCA	5/28/10	Kevin Dana	no		Site Assessment review in progress. Options letter sent 5/28/10. Letter Agreement signed March 2011.
CARCO/Varicast Facilities/Vancouver Iron and Steel	866 amd 900 N. Columbia Blvd	3389	metals, PAHs	3/8/06	Bob Williams	no	H	Letter Agreement for upland SI and source control evaluation issued. Field investigation conducted in August 2006; low level PAH and solvents in groundwater. Lead elevated in catch basins. Additional stormwater and sediment to be sampled. On-site sediment contains PAHs and PCBs. On-site surfaces to be cleaned up by sweeping and washing. West side surfaces cleaned up. East side recently hooked up to storm drain lines so now east side surfaces need to be cleaned up and processes moved under cover - March 2008. COLS permit expanded to cover both sides of property. Surface PCB-contaminated soil removed from Pac Power transformer area. Another PCB soil removal remains to be completed. Some surface cleanup has taken place ont he east side - likely more needed - April 2010. Surface PCB cleanup completed. Low activity at site has improved storm water quality. NFA is imminent-8/2011.
Columbia Steel	10425 N Bloss Ave	104	metals	4/1/08	Dan Hafley	no	H	Columbia Steel Casting (CSC) has entered into DEQ's VCP to evaluate Wapato sediment issues. In Fall of 2009 CSC completed additional sampling of Wapato Wetland Sediments and shallow groundwater in several areas of their operations. Joslyn Manu. Co., in cooperation with Col Steel has completed updated O&M monitoring well sampling, in Winter of 2009, for former wood treating pond that is managed under a 1995 Consent Order.
Merit Oil/Fuel Processors Inc.	4150 N. Suttle Rd	673			Mark Pugh			RI/FS is complete and Record of Decision issued in June 2011. Negotiations for agreement for remedy implementation is underway and is expected to be in place by November 2011. Sediment hotspots and other contamination will be removed, with sediment hotspots disposed off-site. There are no human health hotspots at the site. Potential risk in the site upland will likely be managed through engineering and institutional controls, and ongoing monitoring will be maintained.
Hanson Pipe and Products, Inc.	1601 N. Columbia Blvd, 755 NE Columbia Blvd	3893	methane	10/1/2003	Mark Pugh	No	H	A risk assessment has been completed. No unacceptable risk was identified, with the potenital exception of methane. High levels of methane are present, but based on off-site monitoring appear confined to the site property. Explosive conditions have not been identified in any of the monitored spaces. Additional groundwater monitoring for landfill leachate parameters, and air monitoring in enclosed spaces at the site is needed.



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Harbor Oil	on Force Lake	24			Paul Seidel			Superfund site, PCBs in wetland samples, Pb in lake sed ('80s), officially listed on NPL 9/03, CAG organizational meeting held 1/29/04, subsequent CAG meetings held approximately monthly. DHS placed warning signs in lake recommending against eating fish due to potential contamination. EPA issued special notice letters to 14 parties with liability associated with the site. Responses received from 11 potential RPs; six RPs for the RP group that will assume the RI/FS work. RP group for Harbor Oil signed EPA AOC in June 2007. RI/FS work plan approved by EPA on March 20, 2008. Field work conducted in April and May 2008. Risk scoping memo submitted on 8/20/08. Preliminary Site Characterization Report submitted on 9/18/08. HHRA and ERA draft prepared. HHRA and ERA delayed due to extensive stakeholder comments. EAP provide final RA comments to voluntary group in 2011, risk assessment likely to find no unacceptable risk and likely no remedy will be proposed.
(Bud) Hoffman Property	9038 N. Denver Ave.	2846	TPH, Metals		Steve Fortuna	No		Updated assessment performed in conjunction with WQ. Site referred to EPA for investigation. EPA field sampling for SI in June 2011, including sediment sampling in the Slough. SI report expected by end of October 2011.
I5 Bridge Project	Delta Park to Lombard				Bob Schwarz			ODOT has met w/DEQ (Dec 2005) re: sampling needed to evaluate impacts and sediment management options for drilling dridge supports in the Slough. Sampling completed June 2006. Report submitted May 2007. Contaminants detected so dredged material will be taken to permitted landfill.
(Larsen North) City of Portland BES	10505 N. Portland Rd	186	chlorinated solvent plume extends from Larsen S		Anna Coates	No	high	City to install monitoring wells in conjunction with investigation to be implemented on S. Larson property. Site meeting January 2006. Site visit conducted February 2006. Data gap investigation work plan submitted Fall 2006. DEQ comments provide Dec 2006 - significant data gap - extent of off-site gw plume. Wells surveyed. City proposing additional work to address data gap - Sept 2007. City planning to install additional gw monitoring wells - Dec 2008.
(Larsen South) Breunig	10145 N. Portland Rd.	3337	chlorinated solvents, petroleum, metals		Anna Coates	No	high	PPA included \$60,000 to go into an account dedicated to Slough investigation and cleanup in site vicinity. Monitoring wells and injection wells installed. Wells to be developed and sampled in next quarter. Changing environmental consultant. Additional gw characterization/solvent plume delineation, pilot test and first phase of bioremediation injections completed October 2008.
Macadam Al and Bronze	north of Col. Blvd, just west of I5	2765	metals - Cu, Pb, Ni, Zn, PCE	1/23/2003	Bob Williams	no	High	XPA, complaint re: improper discharges to drain - RP claims inability to pay for investigation. Insurance funding found. Work plan submitted for XPA Investigation. On site soil and groundwater contains moderate solvent contamination. Downstream pipe sediment sampling delayed by permitting. Participating in collaborative sediment cleanup effort coordinated by DEQ - April 2007. Stormwater pipes/manholes near site contain elevated metals (copper, lead, nickel, zinc) concentrations. Contaminated sediment from pipes removed and filtration system installed at OF. Clogged pipes removed and replaced. Major onsite metals-contaminated soil removal completed in fall 2009. Metals-clogged facility storm drain system cleaned and replaced. Additional storm water sampling and analysis planned-8/2011.



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Malarkey Roofing	North Portland	690	metals	3/29/10	Sarah Miller	no	H	NFAd October 1991, SW permit, NFA revoked March 2010 after preliminary data shows metals in sediments around stormwater outfall. Source control evaluation recommended. Stormwater Source Control Agreement signed August 2011.
Market Transport Limited	110 N Marine Dr.	4746			No PM (fmr-Janelle Waggy)			Independent cleanup evaluation in progress. File shows proposal for uplands NFA in June-July 2007, but no final NFA letter was issued. DEQ is following this up.
Mt. Hood Metals	9645 N. Columbia Blvd	2058	metals, Pb, Hg, Ba			no		Groundwater Investigation Report for perched aquifer received July 1, 2004. Groundwater to surface water assessment will utilize findings from Union Carbide. Property ownership changed to Rivergate Scrap Metals. DEQ received report on soil excavation and disposal. RP is working toward documentation for consideration of CNFA for the property. Purchase of adjacent American Compost property finalized December 2007. RP has prepared contaminated media management plan for combined properties and prepared design of a cap for former American Compost property as part of the slough/sites settlement process. Site cap is complete and DEQ approved Cap Remedy Construction Complete Report in July 2009. O&M for cap will continue. First annual cap maintenance report submitted 2010 - approved by DEQ.
Mulflur Fam, LLS	9414 NE Vancouver Way	4767	TPH		Chuck Harman			Partial NFA issued for uplands cleanup in June 2007. Drainage ditch along east (tributary to Col Slough) was not evaluated for possible impact from site; however MCDD dredging of this area conducted with dredge spoils placed on other side of ditch. However, no paperwork or proposal for a full NFA for the site has been submitted to DEQ.
Norstar Business Center	8501 N. Albina Ave.	3765	TPH, metals, solvents, PCBs	4/27/05	Henning Larsen		H	Project was transferred from prior PM (H. Larsen) in late 2008, but follow-up has not occurred. DEQ hopes to get this project on track in early 2010.
NW Cast, Universal	9233 N Calvert Ave	999			Sarah Miller			2 blocks from Pacific Meat, head of storm line discharging to Slough, PCB source, EPA SI 2001, Brownfield \$s to County, County not liable for historical contam in Slough. DEQ reviewed a Phase I Investigation report prepared by County. Property sold in 2006. Phase II completed - DEQ reviewed August 2007. Site issues not completely addressed through City of Portland Phase II work. New owner (Tindall) approached to address remaining site issues and needed source control work, and possible settlement approach for in-water work. Source control evaluation letter signed March 2010. Work plan reviewed April 2011.
NW Solvents and Supply	635 N. Columbia	5171	solvents		Bob Williams			UIC decommissioned and groundwater sparging system installed. Release to groundwater appears to be minor.
ODOT Yard	I5 crossing of Slough	5023	metals, PCBs	Jun-08	Bob Williams			Participating in lower Slough segment cleanup C.J. Comprehensive source control evaluation under preparation. Evaluation waiting for major freeway construction project completion. Stormwater sampling planned.



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Pacific Carbide and Alloys	9901 N. Hurst Ave.	268	PAHs, metals, cyanide	11/21/2002	Mark Pugh	yes		Sampling conducted to establish the extent of contamination observed during implementation of the upland lime removal, and supplemental sampling in the Columbia Slough, indicated modifications to the existing Record of Decision were needed. Necessary changes to the ROD that are being contemplated include removal of additional hotspot material in the slough, and expanding capping areas in the upland. DEQ is currently negotiating a settlement for the in-water work. A modified Record of Decision is on hold until an agreement with Pacific Carbide is reached.
Pacific Meat	2701 N Newark St	145			Erin McDonnel			PCB contamination upland, metal recovery smelter, used PCB oil. Additional investigation for PCB soil and slough, fall 2004. Upland IRAM workplan, and a Slough Sediment Sampling workplan completed 2006. Pilot study for pond sediment stabilization completed in spring 2006, resampling of stabilized sediment and on site soil berm in July 2006. Slough investigation completed October 2006, report submitted April 2007. DEQ requested preparation of a Focused Feasibility Study to address areas of contamination: pond sediments; groundwater; surface soil with PCB contamination; soil stockpiles with metals, PAHs and PCBs; and contaminated Slough sediments. Inv summary and focussed FS submitted April 2007. Revised Site Summary and Risk Assessment documents submitted first quarter 2008. Revised FS submitted April 2008. Pac Meat is participating in lower Slough segment cleanup and will complete cleanup actions for upland portion of the site. Staff report prepared and public comment held in August 2008. ROD issued Sept 2008. DEQ preparing Consent Order and SOW addenda for remedy implementation. Upland and Slough bank cleanup began in March 2010. All excavation and placement of soil into ponds completed, repair of outfall #1 in progress.
PC Development/Loomis Warehouse	955 N. Columbia Blvc	143	VOCs		Erin McDonnel	no		GW Beneficial uses are surface water recharge, industrial (non-contact cooling, vehicle washing), irrigation, and occupational consumption. Groundwater sampling in August 2006 and April 2007. Sampling identified vapor intrusion problem. Pilot SVE system implemented March 2010, planning for full-scale SVE remediation. Considering participation in collaborative sediment cleanup effort coordinated by DEQ - April 2007.



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Precision Equipment	8440 N. Kerby Ave	152			Bob Williams			Samples from property adjacent to Slough contain TPH, lead, PCBs - same contaminants as seen on the adjacent Wastech site. 5 nearshore MWs installed January 2006. Participating in collaborative sediment cleanup effort coordinated by DEQ - April 2007. Slough bank source control samples collected in Sept 2007. Upland summary report including cleanup action evaluation for Tax lot 1102 and Tax lot 1103 (adj to Slough) submitted Dec 2007 and Jan 2008 respectively. DEQ concluded additional evaluation needed before NFA could be determined. Revised Tax lot 1102 report submitted May 2008. DEQ approval provided and staff report proposing capping/long-term management drafted Sept 2008. Summary report for tax lot 1103 submitted June 2008. DEQ response indicating conditional NFA may be viable assuming a different alternative than proposed. Revised FS submitted October 2009. Draft staff report prepared Dec 09. DEQ preparing ROD. Remedial action for surface contamination planned for fall 2011-8/2011.
Ro-Mar	9333 N Times Oil Rd	2437	PCBs		Tom Gainer	no		Portland Harbor site w/some potential surface runoff to Slough via Ramsey Lake - PH Source Control Decision document prepared February 2006.
St. John's Landfill	9363 N. Columbia Blvd	164	list of 30+		Bob Williams	yes		Revised workplan submitted September 2005. Mini piezometers installed in Slough Sept 2005. Porewater sampling from mini piezometers shows iron, manganese, barium, and selenium exceed Eco-risk screening levels. Metro presented sediment sampling plan to DEQ May 2006 - to be coordinated with City slough-wide sediment sampling. Bank cover soil sampling indicated presence of various metals, pesticides, and PCBs. Sediment sampling work plan submitted July 2006. Reports on Shallow Groundwater sampling and Eco risk screening submitted Sept 2006. Risk Assessment workplan submitted Dec 2006. Sediment results submitted Nov 2007. Five new groundwater wells to be installed in October 2007. Followup sediment investigation workplan submitted March 2008. Followup sediment sampling completed June 2008. Results and proposed analysis of archived samples discussed with DEQ Aug 2008. Stage 2 sediment sampling results submitted November 2008. Risk Assessment under development. RI report submitted August 2010. DEQ comments provided May 2011.



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Union Carbide	11020 N Byrgard St	176				yes		Sediment sampling completed. Three wells installed adjacent to slough in early summer 2004, along with one well near pond #3. Monitoring occurred in fall 2004 - evaluation completed 2004. NFA for 74 acre upland portion of site issued June 2005. GW sampled in August 2005 including samples for bioassay (toxicity) tests. GW bioassay results indicate need for further evaluation or cleanup. Recommendations for further study submitted to DEQ for review Dec 2005. Sampling plan approved in July 2006 with work conducted in August and Sept 2006. Porewater survey report submitted Jan 2007. DEQ initiated discussions for closeout of the Union Carbide site with Union Carbide and Elkem in June 2007, in conjunction with discussions for closeout of the Mt Hood Metals site (Union Carbide Pond #2), that included comments on Pore Water Survey report and revision of the site RI/RA report. RPs working on identified tasks for site closeout and remedy selection. Stormwater source control evaluation workplan submitted by WMR for 11920 property and is under review. Draft Soil Management and Cap Maintenance Plans submitted by WMR in October 2009 are under review.
UPRR Barnes Yd.	10627 N. Swift	898			Debbie Bailey			No impacts to Slough sediment detectable in vicinity of site. No further investigation of Slough sediments required. Evaluation of potential gw impacts to surface water on-going.
Wastech	701 Hunt St.	1271	PAHs, PCBs		Bob Williams	no	H	Investigation work plan submitted July 2004. WasTech participating in Slough Segment Plan for release of liability for sediment contamination. Wastech installed 4 monitoring wells February 2005. May 2005 groundwater sampling results indicate lead and arsenic slightly elevated. RI report submitted Feb 2007. DEQ comments provided March 2007 indicating additional data needed to complete site characterization. Wastech comment response/revised plan provided July 2007. Risk assessment proposal for upland presented to DEQ January 2008. DEQ comments provided 11-10-08 indicating that a conditional NFA can be prepared for public comment once additional bank stabilization completed and an EES is prepared. Draft EES prepared March 2010. Staff report expected in Spring 2010. DEQ request for leachate data January 2011.
Welch Property	9902 N Hurst Ave	1440	TPH, PAHs, metals		Bob Williams	no		XPA Let Agreement signed, kick-off meeting and site visit completed, investigation workplan submitted January 2004. DEQ comments provided March 2004. Project stalled - one RP unable to pay for investigation. DEQ Project terminated.

Action Recommended

American Auto Wrecking/Kostas	626 N. Columbia Boulevard	3766	TPH	6/11/2003	not assigned		M	strategy recommendation completed, awaiting response
Auric Enterprises	10200 NE 6th Dr.	96					L	1995 soil removal of PCB-contaminated soil
Beall Trans-Liner	9200 N. Ramsey Rd	10	TPH, oil	6/5/91			L	XPA recommended
Blasen and Blasen Lumber	2155 N Columbia Blvd	4140	petroleum, metals, PAHs, BTEX, chlorinated pesticides	12/21/09	Steve Fortuna	No	H/M	Site screening recommended. Information request letter sent August 2009. Assessment initiated. PAI completed 1/21/09. Medium priority for upland investigation and cleanup. No agreement yet for stormwater evaluation.



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Bob's Metals	1815 N Columbia Blvd	5094	Metals, PAHs, PCE/TCE, chlorinated pesticides, PCBs?	1/29/09	Steve Fortuna	no	M	Site Assessment screening completed November 2009. Source Control Evaluation agreement drafted. PAI ocmpleted 1/21/09. Medium priority for upland investigation and cleanup. Has not signed agreement for stormwater evaluation.
Borden Packaging	10915 N Lombard ST	1277	VOCs	5/13/97			M	XPA recommended
Central Machine Works Inc	8009 N Kerby Ave	3390					L	XPA recommended
Chapmen Chemical	10505 N. Macrum Ave	23	PCP	11/22/94			M	confirmatory sampling recommended
CJ&M Transport	9003 N. Col. Blvd	5376	PCE?			no		Site screening recommended.
Columbia Blvd Treatment Plant	5001 N. Columbia Blvd	783	PCBs	na			tbd	Id'd as part of CSO project Not yet screened.
Columbia Woodworking Co.	6432 NE Columbia Blvd	872	creosote, phenol	5/13/97		no	L	XPA recommended
Fairmont Financial Property/ Craigmile and sons	570 N Columbia Blvd	3767					L	Site screening recommended
Familian Northwest	1945 N Columbia Blvd	2847	petroleum, metals, PAHs, BTEX, chlorinated solvents, chlorinated pesticides	6/1/09	Steve Fortuna	no	H/M	Site assessment screening completed. PAE completed 5/18/09. SI recommended. High priority for stormwater pathway evaluation. Medium priority for shallow subsurface investigation.
Familian NO - 2121 N Columbia	2121 N Columbia Blvd	3860	Petroleum, metals, PAHs, solvents, PCBs, cyanide	6/29/09	Steve Fortuna	no	H/M	Site assessment screening completed. Federal screening completed 6/29/09. High priority for stormwater pathway evaluation. Medium priority for shallow subsurface investigation.
Gilsonite Inc.	2946 NE Columbia Blvd	1293	TPH, acetone	6/7/94			L	PA recommended
Goodyear distribution Center	2344 N Columbia Blvd	2105					L	2846
JE Dunn Construction	437 N Columbia Blvd.	4155	PCBs, heavy oil			no	H	Strategy Recommendation issued August 2004. Further investigation for presence of Wastech oil sludge pond and possible PCB cleanup recommended.
JRJ Properties	9425 N Burrage Ave	4139	TCE, others?					Site screening recommended. Illegal storm discharge via trench discontinued. Vegetated swale under construction Nov 2008.
Kenton Yard	between N. Albina and NE. 8th	3768	Metals, PCBs, DDT(+)				tbd	Id'd as part of CSO project. Screening on hold - low priority (7/21/04).
McCall Heating and Cooling	1650 NE Lombard	1748	TPH, diesel	5/13/97			L	PA recommended
Miller Property	5421 NE Columbia Blvd	1040	drug lab	na				EV Recommended No info in file.
Mitchell Bros/MB Terminals	3841 N Columbia Blvd	339	TPHs, oils, metals	4/2/10	Sarah Miller		M	Site Assessment screening completed. Source control evaluation recommended. Little file information.
Nicolai Co./Timberline Wood Products	1812 N. Columbia Blvd	679	DDT(+), TPH, chlorinated solvents	no letter found		no	L	confirmatory sampling recommended Feb 2001 Phase II ESA - A. Voss?
OWS - Proposed Transfer Sta	11535 N. Force Rd.	1091	Metals, PCBs, VOCs	no letter found			L	PA recommended
Portland Refuse Incinerator/ Chimney Rock	9360 N. Columbia Blvd	2101	Metals, PAHs	2/22/02		no	H	XPA recommended



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RB Recycling Properties	8501 N Borthwick Ave.	4157	TPH, PCBs	10/7/04		no	H	Further Site Investigation recommended. Adjacent to Wastech and Precision sites and located over same former oil refining facility. Source control evaluation recommended.
Rivergate Auto Wrecking	12104 N. Columbia Blvd	2056	PAHs, BTEX, PCBs, phthalates, pesticides			no	M	XPA recommended; EPA SI completed 9/30/99. NFRAP. Medium priority.
Rodda Paint Co.	6123 N. Marine Dr.	157	VOCs	1/10/95			L	PA recommended, may be too far to impact
Schnitzer Property-N Kerby	8520 N. Kerby Ave.	1050	TPH, Cr, PAHs	7/8/99			M	XPA recommended. PA by PTI done in 1991. Site has been combined with Precision Equipment site. Remedial action for surface contamination planned for fall 2011.
Sped-De-Way Products	8000 NE 14th Pl.	993	VOCs (solvents), Cr, Pb, Cd, PCBs, Ag, phthalates.	no letter found			M	XPA recommended
St. Johns Auto Wrecking	9087 N. Columbia Blvd.	4383	PCBs, metals, TPH, PAHs	9/23/05		no	H	investigation recommended
Turtle Pond sediments	north side Smith/Bybee Lakes	4176	DDT/DDE/DDD, Zn			yes - from St. Johns LF investigation	L	low priority for followup at this time
Waymire Drum Co.	8443 N Kerby Ave.	332	VOCs	na			M	EV Recommended No info in file.
Wells Fargo Pay and Pack	8900 N Vancouver Ave	4464					L	Site screening recommended
Conditional NFAs/NFAs								
Dynea Overlays/Simpson Timber Co. Now Arclin Surfaces	2301 N. Columbia Blvd	161	phenol, mn,	11/18/02	Anna Coates	no	H	Upland investigation initiated January 2005. Methane detected and will be included in investigation. Upland XPA investigation report submitted to DEQ June 2005. DEQ comments provided August 2005 - additional investigation required. Work plan for additional investigation submitted Dec 2005. DEQ approval issued January 2006. GW monitoring wells installed and 2 rounds of samples collected as of June 2006 - no significant detections of contaminants in gw. DEQ and Dynea met Aug 2006 to discuss remaining investigation needs - sediment sampling and stormwater system assessment, and some limited final groundwater sampling. DEQ letter identifying remaining data gaps sent Nov 2007. Participating in collaborative sediment cleanup effort coordinated by DEQ - April 2007. Stormwater source control evaluation report submitted July 2008. DEQ approval provided July 2008. DEQ preparing conditional NFA for public comment in October 2008. Conditional NFA issued 11-10-08. Conditioned on completion of BMPs specified in Stormwater Pollution Control Plan.
Flint Ink Corp.	10653 N. Lombard St.	1753	TPH, VOCs, metals	5/13/97	Mark Pugh	no	M	NFA issued.
Peninsula Terminan RR	11707 N. Force Ave.	1505			Dan Hafley			



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Pacific Car Crushing	12122 N. Columbia Blvd	2057						RI/RA for soil revised, approved in May 2003. RI/RA for gw reviewed and approval expected July 2004. Soil removal for area of exceedance of benzo(a)pyrene occurred in late summer 2003. NFA issued October 2004. Oiled barn oils at site due to fledglings dropping from next to floor of car demolishing area that is covered in oil sludge taken to Audubon Society for rehab June 2005.
Rhodia					Ken Cameron			Not a Slough site - site on the Columbia River and not hydraulically connected to the Slough. Capping of Columbia River sediments completed in January 2005. Certification of completion issued and site subject to engineering/institutional controls for upland soil and inwater sediment caps. Periodic inspections targeted for 5 year intervals by DEQ.
NFAs								
Allied Plating	8135 NE Martin Luther King Blvd	6					L	No further state action required.
Container Care Portland Inc.	1501 N Schmeer Rd	105					L	No further state action required.
General Electric Industrial Co.	2410 N Columbia Blvd	916					L	No further state action required.
Ryder Truck Rental Facility	310 N Columbia Blvd	2241					L	No further state action required.
Strub Property	7921 NE MLK Jr Blvd	2587					L	No further state action required.
INACTIVE								
Suspected Buried Munitions Site	NE Marine Dr. and NE 33rd	2139				no		A geophysical investigation was conducted in late 2003 and a final report issued in January 2004. DEQ requested further investigation to confirm the nature of certain anomalies identified in the geophysical survey. Corp of Engineers submitted followup desk-top study. DEQ has requested follow up investigation on specific anomalies to confirm no presence of unexploded ordnance. Conference call between DEQ, Port of Portland, and USACE resulted in USACE response to conduct no further work. Port declined to conduct confirmation sampling. DEQ has notified USACE and Port that the site has been put on inactive status.
Whitaker Slough active								
Charles H. Lilly Co.	7737 NE Killingsworth	102	pesticides		Bob Williams	no		RI, off-site well installed to investigate gw plume, several dry wells and areas of near surface soil highly contaminated with pesticides. PPA for sale of the site being negotiated. Risk assessment documents unacceptable risk at site. FS resubmitted April 2005. Staff Report with proposed remedy (removal and treatment of "hot spot" soil contaminated with chlorinated pesticides and arsenic, capping of remaining contamination, redirecting stormwater to avoid contaminated dry wells, and institutional controls) and CAMU completed July 2005. ROD for onsite cleanup completed October 2005. Impacts to Slough unlikely. Onsite cleanup completed, moving into O&M. Offsite construction of containment wall between two properties completed 2009. Offsite As in surface soil partially capped. PNFA for offsite imminent-2011.



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The Halton Co.	4421 NE Columbia Blvd	121	TPH, PAHs		Erin McDonnell	no	M	Unwilling to sign VCP agreement. Possible candidate for an Order pending NuWay Oil investigation results. Need for followup on UIC issues identified. On hold - enforcement pending. Voluntary Letter Agreement sent June 2011. Met with DEQ July 2011.
Metro Metals	5611 NE Columbia Blvd	5455 and 1225	TPH, metals		Sarah Miller		L	Workplan to assess potential metal contamination in Whitaker Pond sediment submitted May 2011. DEQ approval provided July 2011.
NuWay Oil	7039 NE 46th Ave.	88	TPH, Pb, VOCs, PCBs		Debbie Bailey	yes	H	Record of Decision was signed on January 17, 2006. The selected remedy includes: upland and bank hot spot soil excavation, Whitaker Slough sediment excavation to baseline, drainage ditch sediment excavation, bank stabilization, upland soil cap, on and off-site disposal of contaminated sediment/soil (depending on concentration), institutional and engineering controls, groundwater monitoring. Upland cap construction was completed Sept 2007. Constuction summary report completed January 31, 2008. Preparation of site evaluation report by DEQ in progress.
Marx-Whitaker Sediment	between NE Shaver, NE Fremont, NE 122nd and NE 129th	4166	pesticides	7/1/04	Jennifer Sutter	yes	H	Letters prepared for multiple RPs. Contacts with property owners made July 2004. Meeting with City, Rosse and Garre farm owners held January 2005. Boiler plate joint agreement provided to property owners and City to initiate negotiations on roles for completing RI/FS tasks March 2005. City meeting internally to discuss project approach - September 2005. Identified as target area in WAP. City has reclaimed 15 acres of Garre property and is planting cover crop of grass. DEQ, MCDD, City, Dept of Ag, and Soil Conservation District meeting held June 2011. Followup between City and Ag on-going.
Portland Willamette Slough Sediments	6800 NE 59th	2767	metals, cyanide	11/10/05	Bob Williams		H	Inlet pond sediment samples collected November 2007. Results provided January 2008 - widespread metals contamination in the inlet area and values decrease to near baseline in main stem slough. Sampling in City of Portland pipeshed suggests that there are other contaminant sources in pipeshed. Settlement of Slough liability completed 2010.
Action Recommended								
Conditional NFAs/NFAs								
Reidel-Meco Site	5601 NE Columbia Blvd	1225	TCE, TPH	5/13/97			L	long term care/control recommended
Johnson Lake								
Myer's Containers	10103 NE Marx St.	2062			Tom Gainer			(10/03 - 9/04) to reduce/eliminate potential ongoing contaminated sediment transport to Johnson Lake via storm line. Sediment removed from 2 ponds, stormwater piping and catch basins between ponds replaced, installed several in-line sediment filter traps. DEQ will review final results of soil removal project in late 2004.



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Site Name	Address	ECSI #	COPCs	Letter date	PM	Sed. data?	Priority	Status
Owens-Brockway/Johnson Lake	5850 NE 92nd Ave	1311			Jennifer Sutter			Johnson Lake investigation report and risk assessment 2004/2005. Revised FS recommending sediment removal and capping on-site submitted March 2006. OI proposal to expand sediment removal area in lake accepted May 2006. Workplan for upland investigation in area of proposed sediment management to include installation and sampling of 6 gw monitoring wells submitted October 2006 and approved by DEQ. Report submitted May 2007. Proposed remedy out for public review Sept 2007. ROD issued October 2007. Sediment sampling for dredging design conducted February and May 2008. Physical sampling revealed greater sediment depth in removal areas than anticipated; consequently, doubling volume of sediment to be removed. Work plan for additional sediment characterization to refine dredging extent submitted June 2008. Consent Judgment for remedial action filed August 2009. Remedial Action Work Plan outline and schedule submitted for review June 2008. Revised remedy to consist of capping sediment in the lake proposed. ROD amendment issued for public comment June 2009. ROD signed July 2009. Upland soil removal completed October 2009. Permitting for lake action completed June 2011. Lake capping planned to start Sept 2011.

**Buffalo Slough
Action Recommended**

American Steel Products/ Kenrich Products/ Splinter Fixtures & products/ Chimney Tek, Inc	6849 NE 42nd Ave., #C	4156	metals		Sarah Miller	no		Letters drafted
Hoffman Industries	7636 NE 33rd Dr.	322	solvents	no letter found	??		?	Letter Agreement/RI?? 9/11/97 Info. Request letter sent - notes loss of files for this property.
John L Jersey	7015 NE 42nd Ave	4161	Cr	11/6/09	Sarah Miller	no		Source control evaluation recommended. John L Jersey left site in 2009. Unknown who is on site.
Pierce Pacific Manufacturing	6540 NE 42nd Ave.	1092	heavy oils	5/13/97			L	Other RA or invest. Action recommended
River City Environmental/Tarr LLC PPA	2838 NE Columbia Blvd/ 2946 NE Col Blvd	4038/ 1293	petroleum	6/11/04		no	M	Strategy Recommendation completed June 2004 recommends further investigation of contamination associated with UST, 2 drywells. DEQ \$1,000 civil penalty assessed (6/23/05) to company for installation of part of a septic system without a permit. This site was incorporated into adjacent Gilsonite site and renamed Tarr LLC PPA. There is no link to the Slough and a source control evaluation is not required as part of the PPA.
Thompson Equipment Co.	7025 NE 42nd Ave	4162	metals	11/16/09	Sarah Miller	no		Source control evaluation. Company performing investigation without DEQ guidance.



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Middle Slough Active								
Airtrans Center/Former Oregon Air National Guard site	Portland International Airport	637	metals, PCBs		Mark Pugh	no		Phase II investigation completed. DEQ awaiting submission of final report with risk evaluation.
AMC	4635 Cornfoot Rd	4930	metals		Paul Seidel	yes		Remedial investigation including sediment sampling completed spring 2008. NFA in progress based on sediment data - Dec 2008.
ASIG Jet Fuel Transmission Line	NW Corner Portland International Airport	2634	petroleum		Anna Coates	no		Expanded PA completed - NFA issued May 9, 2005.
Baron Blakeslee/Honeywell	5920 NE 87th Ave.	1274	chlorinated solvents		Anna Coates	no		RI, GW IRAM. Low level of contamination in shallow aquifer and no impacts to slough anticipated. RI/FS draft report and work plan submitted November 2005. Draft FS report review completed. IRAM workplan for pilot test due July 2007.
Columbia Environmental	4530 NE 138th Ave	4392	petroleum	8/1/06	Jim Orr	no	M	Letter Agreement to site owner March 14, 2008. DEQ site visit conducted February 2008. DEQ discussing next steps with company attorney. Letter Agreement for gw investigation to be signed August 2011.
Flightcraft	7505 NE Airport Way	704	petroleum		Anna Coates	no	L	Partial NFA
Oregon Fir	11100 NE Holman	1220	PCE, TCE			no		Owner submitted data gap summary report in fall 2006. The existing IRAM (dual phase extraction system) was assessed, deemed ineffectiv, and shut down in February 2007. DEQ approved a biodegradation pilot study in March 2007 that would convert the installed IRAM system to bio per the approved pilot study work plan. Bio IRAM installed and began operating in May 2007; initial monitoring data submitted in quarterly monitoring reports. Plume 1 & 2 groundwater extraction IRAM work plan submitted in March 2007. DEQ and Landau worked w/Portland BES to identify and meet discharge requirements June through August. Owner submitted Focused FS in April 2007. DEQ comments and agreement reached to conduct additional gw investigation. Plume 1 & 2 IRAM on hold during gw invest Fall 2007/spring 2008. Owner summarized gw data to show plumes 1 & 2 connected and P&T IRAM appropriate for both. Plumes 3 and 4 are connected with higher concentration than previously known. Plume 5 bio pilot IRAM completed. ROD for final site remedy issued in February 2009. RDRA Work Plan reviewed and approved in August 2009. Implementation of remedy begun during 1st quarter 2010.
Portland Air National Guard			chlorinated solvents		Dan Hafley	no		Site contains three localized groundwater plumes - two chlorinated solvent (sites 2 and 11) and one petroleum (site 9). None are expected to have any impact on the Slough. In-situ chemical oxidation treatment ongoing to address the solvent plumes at sites 2 and 11. Monitoring of low-level petroleum contamination ongoing at site 9. All impacted areas are located a significant distance from the Slough. Restoration Advisory Board meeting held Sept 2005 to discuss effectiveness of treatment. Site 2 treatment is nearly completed, with contaminants generally below EPA MCLs. Additional Site 11 treatment using emulsified oil to enhance natural attenuation is scheduled to start later in 2007. No additional action appears to be necessary at Site 9.



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Site Name	Address	ECSI #	COPCs	Letter date	PM	Sed. data?	Priority	Status
SAPA Inc (formerly Anodizing Inc.)	7933 NE 21st Ave.	400	metals, cyanide	5/17/97	Chuck Harman	no	M	Some soil and groundwater sampling in vicinity of historical treatment ponds conducted in 2006-2009 timeframe. Five MWs installed in Jan 2007. Wells sampled and show dissolved concentrations of As above Exc Worker RBC. In addition, GW dissolved conc's of Cr, Cu, and Pb slightly above DEQ Aquatic SLVs. Dissolved Ni in one well of 230 ppb (~4X slv). GW Investigation Report submitted April 2007. DEQ comments provided May 2007. Quarterly MW sampling performed from April 2007 to January 2008 indicates high concentrations of Al in a couple of MWs and Ni in two other MWs. DEQ is currently assessing situation to determine appropriate next steps of investigation.
Action Recommended								
Aircraft Service International	Portland International Airport	2240	TPH			no		RI recommended
Hertz Equip Rental	4939 NE Columbia Blvc	1403	heavy oil	10/5/93			L	PA recommended
Portland Airport Fire training pits	7000 NE Airport Way	3324				no		Site investigation recommended
Port of Portland- Former Artillery Area	NW Corner Portland International Airport	2139		1/2/03?			H	RI recommended
Portland International Airport	7000 NE Airport Way	273			Tom Roick			PA recommended
Soil Contamination - NE Transport Way	5700 NE Transport Way	1065	TPH			no	L	Bunker Fuel spill - residual soil contamination
Thrifty Car Rental	10835 NE Holman St.	1506	TCE	12/26/02			H	SI recommended
Waste management Inc	533- NE Skyport Way		heavy metals					NEDC filed suit re: discharge to Slough, referred to SA
Conditional NFAs/NFAs								
Cascade Station	S. Airport Way	2390	As, TPH, Pb		Dan Hafley		L	Conditional NFA - ditches to remain covered
								ChemOx implemented as initial remedial measure for contaminated groundwater in 2003 reduced VOC concentrations in the Overbank Deposits in most areas. Phase 2 remedial measures consisting of injecting emulsified oil to enhance natural attenuation completed April 2005. Monitoring to assess effectiveness completed. Impact to Slough negligible. Risk assessment and feasibility study completed; DEQ staff report/ROD issued. No action beyond additional NA monitoring necessary. Certificate of completion issued March 2009.
Cadet Manufacturing	6225 NE 105th Ave.	2215	chlorinated solvents		Dan Hafley	no	H	
ICN Pharmaceuticals	6060 NE 112th Ave.	1219	TCE, DCE, VC		Jennifer Sutter	no	L	GW Cleanup complete. NFA proposal out for public comment September 2005. No comments received. NFA issued Oct 2005. Long-term gw monitoring in progress.
Portland Ground Run-Up Enclosure Facility	NE Airport Way	3519	petroleum, metals		Anna Coates	no	L	Indep. Cleanup completed. NFA issued March 7, 2005.
Portland Terminal Expansion South	7000 NE Airport Way	2118	TPH		Tom Roick	no	L	Remedial Investigation. DEQ complete review of groundwater investigation, NFA expected. Groundwater plume is defined, stable and not migrating offsite (to Slough or River). NFA issued January 2006.



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Site Name	Address	ECSI #	COPCs	Letter date	PM	Sed. data?	Priority	Status
Port Wrecking Yards	10201 NE Airport Way	3037			Jennifer Sutter			Risk assessment submitted October 2003. DEQ approval w/clarifications May 2004. Revised FS submitted March 2005. Public review of staff report recommending capping of remaining contamination held May 2006. ROD prepared June 2006. Long-term management plan submitted July 2007. DEQ comments provided Sept 2007. Port response provided October 2007. DEQ met w/Port to discuss final documentation needs February 2008. Property management plan documentation provided. NFA issued March 2009.
Tube Specialties	5131 NE 148th	2474	chlorinated solvents, petroleum		Bob Williams	no	H	Unilateral Order for RI/FS - 3 parties, one of which is in bankruptcy; gw contamination - cisDCE and VC, leach field, storm drainage to holding pond prior to Slough (historical discharge to Slough?), Phase 1 of RI complete. Extensive contamination in overbank silts. Limited contamination in TGA. Phase 2 of RI reveals indoor air vapor intrusion issues. Groundwater contamination appears to be limited. NFA issued 2009.
Upper Slough Active								
Boeing	19000 NE Sandy Blvd	13			Bob Williams			EPA-RCRA project. Surface impoundment closed in 1988. Corrective action on-going for chlorinated solvents in groundwater; treated water discharged to slough under NPDES permit. Additional investigation completed through summer 2008 to evaluate persistent concentrations in well BOP-22 and in advance of building 85-001 expansion and modifications that will be required for TGA groundwater extraction and treatment system. Conducted geotech/environmental investigation for evaluation of source areas under planned building expansion area. Additional investigation to evaluate persistent concentrations of VOCs in northwest corner of Boeing property in upper TSA wells. Site transferred from EPA RCRA program to DEQ Oversight Sept 2008. Boeing working toward building 85-105 expansion into TGA groundwater extraction plume area. Bioremediation underway in extraction plume in preparation of well removal and revision of extraction and monitoring system. Well abandonment and replacement of BOP-22(ds) completed and has eliminated downward leakage of contamination from TGA to TSA. Boeing assessing areas of persistent contamination in TGA for additional measures to accelerate cleanup and preparing a proposal for an exit strategy for completion of site cleanup. Further investigation/cleanup of the former degreaser area planned (this area likely largest remaining source



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Site Name	Address	ECSI #	COPCs	Letter date	PM	Sed. data?	Priority	Status
Reynolds Metals	5100 NE Sundial Rd., Troutdale	154	As, CN, FI, PAHs					ROD issued for the site in September 2006 and all soil cleanup completed including Company Lake sediments, North Landfill, South Landfill, Scrap Yard, and any soil areas underlying plant after the plant was demolished. The groundwater portion of the remedy installed, including two focused extraction wells and optimized pumping of two remaining groundwater supply wells. System in operation since November 2006. Negotiations conducted between Reynolds/Alcoa and EPA for a Consent Decree for work DEQ will perform during O&M. Negotiations conducted between the Port of Portland and DEQ for a Consent Judgment and a Prospective Purchaser Agreement as the Port intends to purchase the Reynolds site for redevelopment. FedEx purchase of a portion of the site for construction of a hub facility is complete and construction planned for spring 2008. Port of Portland has assumed O&M duties for groundwater extraction portion of remedy. EPA CD signed - awaiting filing. DEQ/Reynolds CJ pending EPA CD filing. DEQ/Port Portland CJ pending filing of EPA CD. 5-year review conducted w/site visit made June 2008. Focused gw extraction continues.
Nick Spada Farm - Spada North,	185th Ave., south of Marine Dr.	1058	DDT, DDE, DDD, dieldren			no		Easement and Equitable Servitude Agreement completed - soil cap, runoff controls, additional sampling of stormwater. Conditional NFA for upland portion of site issued July 2004. Stormwater sampling in progress. Additional soil sampling in progress. PPA with settlement \$s for sediment investigation cleanup considered. Updated conditional NFA decreasing stormwater monitoring issued for upland Dec 2006.
Spada South	185th Ave., south of Marine Dr.	1058	DDT, DDE, DDD, dieldren			no for Slough - some ditch sediment sampling compl		Ditch sampling plan and stormwater monitoring plan approved 1/12/04, ditch sampling indicates elevated levels of dieldren, DDD/DDE. NFA for hospital parcel issued 9/3/04. Conditional NFA (Upland only) -issued February 8, 2005. PDC proposal for sediment sampling in ditch that discharges to Slough proposed and approved by DEQ October 2006. Analytical results indicate ditch sediments are not contributing detectable levels of pesticides to stormwater. NFA letter issued to surrounding properties for the ditch itself (but not for historical contribution to downstream receptors).
Triad Machinery	4530 NE 148th Ave.	2515	metals	3/29/01	Jeff Schatz		M	PA recommended. PCE-contaminated groundwater found on upgradient side of site. Further investigation planned.
Townsend Business Park	23303 NE Sandy Blvd	4230	As, organochlorine pesticides			no		Completed PPA for several lots. VCP agreement signed to address on and off-site issues. RI completed that addresses surface soil in 2009. No action taken since 2009. Groundwater issue identified with exceedance of MCL for EDB in groundwater in 2011. Site sent back to waiting list.
USACE Division Matierals Lab	1491 NW Graham Rd., Troutdale	1390	nerve agents			no		Remedial Investigation in progress
Action Recommended								
AAR Western Skyways	Portland Troutdale Airport	92	CN, TCE				L	PA recommended
Denton Plastics	4427, 4415 NE 158th Ave.	2475	TPH, Pb, Cu	1/14/00			M	XPA recommended
Effluent Release, NE Airport Way	NE Airport Way, NE 148th	2517	Cr, Cu, Ni, Zn	3/27/00			M	XPA recommended



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Site Name	Address	ECSI #	COPCs	Letter date	PM	Sed. data?	Priority	Status
NE 158th Groundwater Contamination	NE 158th Ave.	2391	TCE			no		Investigation of sources for TCE in gw recommended
NW Retreaders	19004 NE San Rafael St.	1268	VOCs	8/5/94			M	SI recommended 8/94 granted NFA was revoked in 1997.
RR Donnelley	17401 NE Halsey	962	PCE	6/1/95			L	SI recommended, PCE detected in shallow perched aquifer, which does not extend north of I-84; unlikely to impact slough
Unifirst Corp	14321 NE Sandy Blvd	1692	solvents	5/13/97			L	Info. Request/Notification letter mailed in 2000 (M.P.) - no screening performed.
Cleanup Completed								
Fischer Communications (aka Radio Towers, KOTK Radio Transmitter site)	Marine Dr. (near Blue Lake)		pesticides		Mark Pugh	no	L	VCP Letter Agreement signed April 2004. Report and conceptual work plan submitted June 2004. Impacts to Slough appear to be negligible. Primary pathway of concern is risk to birds from contact with soil, migration to Slough via gw and erosion. Workplan under preparation. GW and soil sampling conducted. Low levels of DDT/DDE detected in soil, low levels of heptachlor detected in gw. Site specific SLV for DDT in soil has been established for protection of bald eagles feeding on voles. DEQ approved final report December 2004. NFA issued 12/29/04.
Viking Industries	18600 NE Wilkes Rd	885	TPH	na			na	SI conducted w/no release of chlorinated solvents found. Diesel release referred to UST for corrective action. NFA'd in August 1991.
Wagner Mining	4424 NE 158th Ave.	331			Bruce Gilles	yes		Removal Action completed NFA issued 6/03