T E C H N I C A L M E M O R A N D U M

TO: Chris Wend – Washington Department of Ecology (by mail and e-mail)

cc: Merv Wark – Former Owner/Operator, Yakima Steel Fabricators (by e-mail)
Clark Davis – Davis Law Office, PLLC (by e-mail)

FROM: Eric Buer, L.G., L.H.G., Associate Hydrogeologist
Jeff Kaspar, L.G., L.H.G., Principal Geologist

DATE: January 9, 2018

RE: **CONCEPTUAL SITE MODEL TECHNICAL MEMORANDUM**
AGRI-TECH AND YAKIMA STEEL FABRICATORS SITE
YAKIMA STEEL FABRICATORS
YAKIMA, WASHINGTON
AGREED ORDER NO. DE 6091
FARALLON PN: 765-001

Farallon Consulting, L.L.C. (Farallon) has prepared this Technical Memorandum to provide the Washington State Department of Ecology (Ecology) with a conceptual site model (CSM) for the property at 6 and 10½ East Washington Avenue in Yakima, Washington (herein referred to as the Site) (Figure 1). The CSM presented in this technical memorandum will support completion of a Feasibility Study for the Site. Farallon has prepared this technical memorandum on behalf of Yakima Steel Fabricators, Inc. (YSF) for the YSF and Agri-Tech, Inc. (Agri-Tech) properties that make up the Site (Figure 2).

The work described in this technical memorandum was performed to meet the requirements of *Agreed Order No. DE 6091* entered into by Ecology and YSF pursuant to the authority of the Washington State Model Toxics Control Act (MTCA) dated October 27, 2008 (Agreed Order), and the *First Amendment to Agreed Order No. DE 6091* dated October 17, 2016. This technical memorandum includes a brief description of the Site and adjacent properties; discussion of confirmed source areas on the Site; identification of constituents of concern (COCs) and their fate and transport; an exposure assessment; proposed cleanup levels; and points of compliance.

BACKGROUND

This section summarizes relevant background information on the historical Site use and use of the west-adjacent Bay Chemical property.

YSF AND AGRI-TECH SITE DESCRIPTION AND HISTORICAL USAGE

The Site consists of Yakima County Tax Parcel Nos. 19133141009 and 19133141409, which total 6.24 acres of land (Figure 2). Two structures currently are present at the Site: one single-story building currently used for steel fabrication and business offices on the YSF property (YSF building); and one single-story warehouse building on the Agri-Tech property (Agri-Tech building). The areas east and south of the YSF building are used for storage of steel and equipment. Currently, the Agri-Tech building is leased by the operator of YSF for steel fabrication operations.

Historical Site uses include the following (Attachment A, Figure 3):

- Construction and operation of a lime and sulfur formulating plant by Yakima Farmers Supply on the Agri-Tech property from approximately 1960 through 1978 to 1982.
- Operation of a fruit packing supplies and equipment company on the Agri-Tech property from 1982 through 1989.
- Operation of a steel fabrication facility on the YSF property from approximately 1980 to the present.

Additional discussion of historical Site uses is provided in the *Revised Remedial Investigation Report, Agri-Tech & Yakima Steel Fabricators, 6 and 10 ½ East Washington Avenue, Yakima Washington* dated June 10, 2004, prepared by Farallon Consulting for Yakima Steel Fabricators (Farallon, 2004) and the technical memorandum regarding Metals Source Evaluation, Agri-Tech and Yakima Steel Fabricators Site, Yakima Steel Fabricators, Yakima, Washington dated June 9, 2017, from Messrs. Eric Buer and Jeff Kaspar of Farallon to Mr. Chris Wend of Ecology (Farallon 2017a) (Metals Source TM).

Based on the historical Site uses and physical characteristics, four areas of investigation have been established on the Site (Figure 2):

- Area 1 includes the former Yakima Farmer Supply lime and sulfur processing plant, and the area of the processing plant's waste pit (also referred to as the Area 1 waste pit).
- Area 2 includes the central and eastern portions of the YSF property between the YSF building and the east-adjacent automobile recycling facility, and is suspected to have included stockpiles of bulk lime and sulfur.
- Area 3 includes the portion of the Site south and southwest of the YSF building. Ecology identified Area 3 as a potential area of metals contamination due to historical activities at the west-adjacent Bay Chemical Company property. Area 3 also includes the Site wetland buffer area.
- Area 4 includes the topographically distinct (i.e., 3 to 5 feet below the surrounding Site topography) wetland on the southern portion of the Site. Area 4 has unique environmental conditions, including seasonal standing water and saturated surface soil, and is subject to sediment criteria that do not apply to other portions of the Site.

BAY CHEMICAL SITE DESCRIPTION AND HISTORICAL USAGE

The property west-adjacent to the Site, Yakima County Tax Parcel No. 19133141010, previously was owned by Northern Pacific Railroad, predecessor of current owner, Burlington-Northern Santa Fe Railroad (BNSF) (Figure 2). This property was leased to Bay Chemical Company, a manufacturer of soil micronutrients, from 1963 to late 1975 or early 1976. The BNSF-leased property makes up a portion of the Former Bay Chemical site (herein referred to as the Bay Chemical site), an Ecology-listed facility.

The Bay Chemical Company manufactured liquid zinc sulfate by reacting dry steel mill flue dust and sulfuric acid in wooden mixing tanks. Additional detail regarding Bay Chemical zinc sulfate production practices is provided in the Metals Source TM.

According to the *Former Bay Chemical Site Remedial Investigation Report, Volume 1* dated March 1997, prepared by ERC/Pacific Groundwater Group (Bay Chemical RI Report), metals associated with the flue dust at the Bay Chemical site included arsenic, antimony, cadmium, chromium, copper, lead, manganese, mercury, and zinc. These metals have been detected in soil and groundwater at the Bay Chemical site and at the Site (Attachment A, Figure 12; Attachment B, Table 7, respectively).

CONCEPTUAL SITE MODEL

This section identifies confirmed source areas of constituents of potential concern (COPCs) that have affected media of concern, including soil, groundwater, and sediment. The nature and extent of contamination, and contaminant fate and transport mechanisms, are also identified and/or discussed.

CONFIRMED SOURCE AREAS

Data collected as part of the remedial investigation (RI) indicates that multiple source areas of COPCs that have affected soil, sediment, and groundwater are present on the Site, off the Site within the Yakima Railroad Area (YRRA), and on the adjacent Bay Chemical site. Source areas that apply to each Area within the Site are discussed below. Additional detail describing the nature and extent of COPCs identified during the RI are provided in the Agri-Tech & Yakima Steel Fabricators *Revised Remedial Investigation Report* (2004).

Area 1: Yakima Farmer Supply Waste Pit and Processing Plant

Confirmed source areas in Area 1 include the former waste pit constructed by Yakima Farmer Supply (Attachment A, Figure 3). Soil analytical data indicate that volatile organic compounds (VOCs) and chlorinated pesticides are present in soil at concentrations that exceed their respective preliminary screening levels for soil (Attachment A, Figures 9 and 10, Table 2). Halogenated volatile organic compounds (HVOCS), including tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (DCE), and vinyl chloride, were detected at concentrations that exceed their respective preliminary screening levels in groundwater samples collected from monitoring well

WDOE-6, which is within the boundaries of the waste pit (Attachment A, Figure 20). HVOCs, including PCE, TCE, cis-1,2-DCE, and vinyl chloride, were also detected at concentrations that exceed their respective preliminary screening levels in groundwater samples collected from monitoring wells MW-2 and MW-6, down-gradient of the waste pit (Attachment A, Figure 9). These data indicate that the northern portion of the waste pit is acting as a source of HVOCs to shallow groundwater.

The results of the Bay Chemical site cleanup also confirmed the conclusion of the Bay Chemical RI Report that metals from the Bay Chemical site previously encroached upon the Site and previously necessitated cleanup in Area 1. The Bay Chemical site cleanup in Area 1 was terminated where the buildings were present and where the waste pit materials were encountered.

PCE concentrations in groundwater exceed the preliminary screening level at monitoring well MW-1; no source has been identified in the overlying soil (Attachment A, Figure 21). Groundwater samples from monitoring well MW-1 have consistently contained concentrations of PCE and associated degradation products since monitoring began, indicating that an up-gradient source of dissolved-phase PCE exists. Ecology has historically agreed that these constituents may be associated with one or more of the up-gradient YRRA facilities north of the Site.

Area 2: Bulk Lime and Sulfur Stockpiles

No source areas of COPCs have been identified for Area 2. Soil analytical results for HVOCs and pesticides are less than preliminary screening levels for soil. The observed HVOC concentrations in soil were not high enough or deep enough to act as a source of HVOCs to groundwater in Area 2.

PCE periodically was detected at concentrations that exceed the preliminary screening level of 5 micrograms per liter (µg/l) in groundwater samples collected from monitoring well MW-3 (Attachment A, Figure 19). Monitoring well MW-3 is cross-gradient of the waste pit and its associated down-gradient monitoring wells MW-2 and MW-6. HVOC degradation compounds, including TCE, cis-1,2-DCE, and vinyl chloride, were reported non-detect at the laboratory

practical quantitation limit (PQL) in the groundwater samples collected from monitoring well MW-3. Monitoring well MW-3 is screened at a depth between 9 and 29 feet below ground surface (bgs). These data suggest the HVOC impacts to groundwater in Area 2 are associated with an unknown up-gradient source, possibly associated with the YRRA PCE plume.

Area 3: South Site

The west-adjacent Bay Chemical site had been identified as a source of metals contamination in soil at Area 3 (Farallon 2004; 2017a). Cadmium, lead, manganese, and zinc were detected at concentrations exceeding their respective preliminary screening levels for soil (Attachment A, Figure 3). The west-adjacent Bay Chemical site is a documented source of cadmium, lead, zinc, and other heavy metals associated with dry steel mill flue dust used in production of zinc sulfate.

Wind transport of flue dust and metals-laden settling pond sludge onto the Site occurred throughout the period of active operation on the Bay Chemical site (Farallon, 2017a). Overflow from the Bay Chemical site settling pond, as noted in the Bay Chemical RI Report, resulted in transport of settling pond sludge and metals-contaminated water into the Site wetland (Area 4) and the south-adjacent drainage/irrigation ditch, contaminating Site soils.

Total petroleum hydrocarbons as diesel-range organics (DRO) were detected at a concentration that exceeded the preliminary screening level from the soil sample of 2,000 milligrams per kilogram (mg/kg) in the soil sample collected from test pit I-TP3 at a depth of 3 feet bgs. DRO was reported non-detect at the laboratory PQL in the soil sample collected from test pit I-TP3 at a depth of 7 feet bgs (Attachment B, Table 1). DRO was reported non-detect at the laboratory PQL in the soil samples collected from test pits I-TP4 and I-TP6. The soil sampling data from test pit I-TP3 indicate a localized shallow source area of DRO is present at I-TP3. No other confirmed source areas have been identified for Area 3.

Area 4: Wetland

As noted above, the west-adjacent Bay Chemical site has been identified as a source of metals contamination to sediment in Area 4 (Farallon 2017a, 2017b). Cadmium was detected at concentrations that exceeded the sediment cleanup screening level of 5.4 mg/kg in three sediment

samples collected from Area 4 (Attachment D, Table 1; Attachment D Figure 4). A fourth sediment sample collected from Area 4 exceeded the sediment cleanup objective of 2.1 mg/kg. No other source areas have been identified for Area 4.

CONTAMINANT FATE AND TRANSPORT

This section includes a discussion of the fate and transport characteristics of the COPCs identified in the affected media at the Site that are relevant to the evaluation of potentially feasible remedial technologies.

Volatile Organic Compounds

Groundwater analytical data indicate very slow leaching of HVOCs from the soil matrix within the Area 1 waste pit to groundwater (Figure 3). The PCE identified in soil beneath the Agri-Tech building is present at relatively high concentrations, and is in direct contact with groundwater. Based on soil concentrations, concentrations of PCE in groundwater should exceed those observed at monitoring well WDOE-6 within the waste pit, and down-gradient of monitoring wells MW-2 and MW-6. Farallon previously evaluated VOC contributions to soil using Ecology cleanup level calculation spreadsheets for soil in direct contact with groundwater. The predicted concentrations of VOCs in groundwater using the Ecology spreadsheets exceed the empirical data for monitoring wells WDOE-6, MW-2, and MW-6 (Farallon 2004).

Farallon's analysis and groundwater monitoring data indicate that the VOC contribution to groundwater from the Area 1 waste pit is negligible and is not resulting in an exceedance of relevant preliminary screening levels. Furthermore, the soil and groundwater analytical data indicate that natural attenuation of PCE is occurring in the waste pit, as indicated by the presence of PCE degradation products in groundwater samples collected from monitoring wells WDOE-6, MW-2, and MW-6 (Figure 3). Shallow monitoring wells MW-2, MW-6, and MW-7A are immediately down-gradient of the source of VOCs at the waste pit and historically have contained concentrations of VOCs that have been less than the laboratory PQL, further supporting the supposition that the contribution of contaminant mass from the source of VOCs at the waste pit is minimal.

Water quality and geochemical parameters indicate that conditions in the waste pit, and in the southern portion of Area 3 up-gradient of the Site wetland (Area 4), appear to be conducive to reductive dechlorination of PCE via biodegradation (Attachment A, Table 13). Reductive dechlorination actively degrades PCE to vinyl chloride and eventually to nonhazardous ethene and ethane. Groundwater monitoring performed in June 2011 confirmed that reductive chlorination is ongoing in Site groundwater (Figure 3).

PCE and TCE that are not fully dechlorinated and degraded before being transported into more aerobic groundwater conditions outside the waste pit are subsequently transported down-gradient of and comingled with the dissolved-phase plume attributed to an off-Site source within the YRRA. Isomers of DCE and vinyl chloride that migrate from the waste pit prior to complete anaerobic degradation appear to be degraded aerobically along the groundwater flow path. Concentrations of breakdown products consistently have been less than the preliminary screening levels for groundwater at down-gradient Site monitoring wells MW-4, MW-5, MW-7A, MW-7B, MW-10, and MW-11 (Figure 3).

The monitoring well pair MW-7A and MW-7B were installed to assess the vertical distribution of VOCs in groundwater on the southern portion of the Site. Monitoring well MW-7A is constructed with a well screen at a depth of 7 to 17 feet bgs. Monitoring well MW-7B is constructed with a well screen at a depth of 28 to 33 feet bgs. Cis-1,2-DCE is the only HVOC detected at monitoring well MW-7A; and PCE, TCE, and cis-1,2-DCE have been detected in groundwater at deep monitoring well MW-7B (Figure 3).

Chloroform has been consistently detected in groundwater samples collected from monitoring wells screened at a depth below 20 feet bgs (Attachment A, Table 3), including:

- Monitoring well MW-1 up-gradient of the waste pit;
- Monitoring well MW-3 cross-gradient of the waste pit; and
- Monitoring wells MW-4 and MW-5 down-gradient of the waste pit.

These data suggest a vertical stratification of VOCs in groundwater and that VOCs detected at monitoring well MW-7B are most likely associated with the deeper regional YRRA plume.

Pesticides

Pesticides, including dieldrin, endrin, dichlorodiphenyldichloroethane (DDD), dichlorodiphenyldichloroethylene (DDE), aldrin, alpha-chlordane, and heptachlor epoxide, were detected at concentrations that exceed their respective preliminary screening levels for soil in samples collected from the Area 1 waste pit (Figure 4). Pesticides have strong sorptive properties, have low solubility in water, and are relatively resistant to biodegradation processes. The detected pesticides are not expected to be mobile and likely will persist in the waste pit materials for an extended period of time depending on the mass of each contaminant present. The soil analytical data indicate that dieldrin, endrin, DDD, DDE, aldrin, alpha-chlordane, and heptachlor epoxide are present primarily beneath the Agri-Tech building, with low concentrations identified in the central portion of the waste pit.

Monitoring wells WDOE-6 and MW-2 have been contaminated by dieldrin, DDD, and DDE (Figure 4). Ongoing monitoring found that dieldrin concentrations were reported non-detect at the laboratory PQL or less than the preliminary screening level of 0.0055 µg/l in three of the past six sampling events in monitoring well MW-2; remaining detections, while exceeding the preliminary screening level, have not exceeded 0.102 µg/l. DDE and DDD were detected sporadically at concentrations that exceed their preliminary screening levels in monitoring well WDOE-6, but were reported non-detect at the laboratory PQL for all sampling events in monitoring well MW-2. Dieldrin, DDE, and DDD were reported non-detect at the laboratory PQL in monitoring well MW-6, down-gradient of monitoring wells WDOE-6 and MW-2, for all sampling events. This groundwater data indicates that the area of pesticide-contaminated groundwater is stable, and there is little risk of pesticides migrating down-gradient in groundwater or ultimately discharging to surface water receptors at concentrations that would require further action.

Pesticides have the potential to evaporate off sand and gravelly soil with low organic content. However, the lime and sulfur soil matrix in the waste pit make the probability of evaporation low.

The soil matrix in Area 3 is slightly more conducive to volatilization of these pesticides; however, no buildings are present that would require consideration of vapor intrusion.

Metals

Metals are persistent contaminants that will remain in soil unless physical or chemical processes mobilize the metals. Concentrations of metals in groundwater generally are dictated by the concentrations of metals in soil that are in direct contact with groundwater and other physical and chemical properties that facilitate dissolution of metals from soil to groundwater.

According to the Metals Source TM, cadmium and lead were detected at concentrations that exceed their respective preliminary screening levels in test pits excavated by Ecology in the eastern portion of Area 3 (Attachment D, Table 1). Cadmium, lead, manganese, mercury, and zinc were detected at concentrations that exceed their respective preliminary screening levels in the western portion of Area 3 and were subsequently excavated to a maximum depth of 6 feet bgs as part of the Bay Chemical site cleanup (Figure 3).

Cadmium was detected at concentrations that exceed the sediment cleanup screening level of 5.4 mg/kg dry weight in Area 4 sediment. However, bioassay testing of sediment collected from Area 4 did not exceed biological cleanup screening level criteria. Under Section 520 of Chapter 173-204 of the Washington Administrative Code (WAC 173-204-520), Sediment Management Standards, bioassay results override analytical chemistry results. Therefore, the metals detected do not qualify Area 4 for listing as a contaminated sediment site.

For one sampling event in 2011, both total and dissolved arsenic were detected at concentrations that slightly exceeded the preliminary screening level for groundwater of 5 µg/l in monitoring well MW-7A (Attachment B, Table 7). The source of the arsenic in groundwater is suspected to be naturally occurring and may be related to slightly reducing conditions proximate to Area 4 associated with the wetland area. Arsenic concentrations in soil at the Site and the Bay Chemical site predominantly have been less than levels that are considered to present a risk to groundwater.

No other metals were detected at concentrations that exceed groundwater cleanup levels in groundwater samples collected on the Site.

TERRESTRIAL ECOLOGICAL EVALUATION

A Terrestrial Ecological Evaluation (TEE) is required by WAC 173-340-7490 at any site where there has been a release of a hazardous substance to soil. The regulation requires that one of the following actions be taken:

- Documenting a TEE exclusion using the criteria presented in WAC 173-340-7491;
- Conducting a simplified TEE in accordance with WAC 173-340-7492; or
- Conducting a site-specific TEE in accordance with WAC 173-340-7493.

Farallon has conducted a simplified TEE in accordance with WAC 173-340-7492 and determined the following:

- Chlorinated pesticides were detected at concentrations that exceed the values listed in Table 749-2 for industrial sites. The areas of exceedance are under the concrete floors of the YSF and Agri-Tech buildings and/or other paved areas, which act as engineered barriers and prevent completion of the exposure pathway for terrestrial ecologic receptors under WAC 173-340-7492(2)(b).
- Soil in the areas defined by sampling locations I-TP3, J-TP2, J-TP3, and Pit K; and M-TP1, Pit-M, and TP-8 currently exceed the values identified for metals on industrial sites in Table 749-2 (Figure 5). However, these areas likely will be excavated as part of a future cleanup action, eliminating current ecologic risk posed by the affected soil.

The engineered barriers provided by the YSF and Agri-Tech building floors and surrounding paved areas render the soil exposure pathway incomplete for pesticides in soil that exceed simplified TEE screening criteria on the Site. Remediation of the small area identified above for metals will eliminate the exposure pathway for metals in soil in the central portion of the Site. Institutional controls will be implemented as a component of a future cleanup action to ensure compliance with WAC 173-340-7492(3) and prevent future exposure to plants or soil biota in the event of a change

in land use. The institutional controls may include a restrictive covenant that identifies where pesticides remain in soil below engineered barriers and that places restrictions on accessing areas where contaminated soil remains.

No further analysis is required by WAC 173-340-7490. The Ecology TEE form for the Site is provided in Attachment E.

TECHNICAL ELEMENTS

This section presents the technical elements of the CSM, including applicable or relevant and appropriate requirements (ARARS), media of concern, COCs, and an exposure pathway assessment. These technical elements will be used in the Feasibility Study to evaluate cleanup technologies and alternatives.

APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

Cleanup of contaminated media at the Site will be conducted under the Ecology Agreed Order No. DE 6091. The primary ARARs related to the remedial action include:

- MTCA, Chapter 70.105D of the Revised Code of Washington (RCW 70.105D) and WAC 173-340;
- Washington State Solid Waste Management Laws and Regulations, RCW 70.95, WAC 173-351, and WAC 173-304;
- Washington State Dangerous Waste Regulation, WAC 173-303; and
- Washington State Sediment Management Standards, WAC 173-204.

These primary ARARs are anticipated to be the most applicable to the remedial action, because they provide the framework for the remedial action, including applicable and relevant regulatory guidelines, cleanup standards, waste disposal criteria, references for additional ARARs, and standards for documentation of the remedial action.

Other applicable ARARs for cleanup of the Site include:

- Occupational Safety and Health Act, Part 1910 of Title 29 of the Code of Federal Regulations (29 CFR 1910);
- Safety Standards for Construction Work, WAC 296-155; and
- Accreditation of Environmental Laboratories, WAC 173-50.

EXPOSURE ASSESSMENT

The two types of exposure risk associated with the presence of COPCs at the Site are related to human and terrestrial ecological receptors. This subsection presents the evaluation and conclusions pertaining to the exposure pathways at the Site. The goal of this subsection is to identify potential exposure scenarios that will assist in selection of appropriate cleanup levels for the Site and for evaluation of technically feasible cleanup alternatives during the Feasibility Study.

Soil Pathway

The exposure pathways for shallow soil containing COPCs include the direct contact and inhalation pathways. Direct contact may include dermal contact and ingestion pathways for both human and ecologic receptors. Inhalation pathways may include volatilization of volatile COPCs, or in the case of the nonvolatile COPCs such as metals and pesticides, particulate dust. Completed direct contact and inhalation pathways for soil include direct contact with affected soil in Areas 2 and 3 where soil is exposed or covered with a shallow layer of gravel.

Human and ecologic exposure to the soil in Area 1 with the former waste pit would require compromising either the building structures or the pavement cap overlying the waste pit that currently mitigates exposure to routine site workers and visitors, neither of which is anticipated. Temporary construction workers conducting subsurface work on utilities or other unique services could be at risk of exposure. Therefore, the direct exposure pathway for Area 1 soil is not complete, with the exception of temporary construction workers conducting work that could result

in exposure to affected soil. The inhalation pathway is considered complete for volatile COPCs since no evaluation of soil gas or indoor air has been conducted.

Groundwater Pathway

Potential exposure pathways for COPCs in groundwater include the direct contact (i.e., dermal contact and ingestion) and inhalation pathways. No production or irrigation wells are located on or proximate to the Site, reducing risk of direct contact to standard workers and visitors. Temporary construction workers conducting subsurface work would have exposure risk. Groundwater monitoring analytical data for monitoring wells down-gradient of Area 1 and the YRRA indicate concentrations of COPCs in groundwater, particularly PCE and associated HVOCs, are less than the preliminary screening levels before reaching the Site boundary (Figure 3). The direct contact pathway would be incomplete, with the exception of temporary construction workers conducting subsurface work that could result in exposure to affected groundwater.

The inhalation pathway for groundwater at the Site is considered complete since volatile COPCs are present in Area 1 that may represent a vapor intrusion risk, and that air pathway has not been evaluated during the RI.

CLEANUP STANDARDS

As defined in WAC 173-340-700, cleanup standards include establishing cleanup levels and the points of compliance at which the cleanup levels are to be attained. The cleanup standards for the Site have been established in accordance with WAC 173-340-700 through 173-340-760 to be protective of human health and the environment.

CLEANUP LEVELS

The cleanup levels are the concentrations of COCs that are to be met for each medium of concern at the point of compliance defined for the Site. Cleanup levels for the media of concern, soil, groundwater, and indoor air are presented in Attachment F Cleanup Standards. The selected

cleanup levels provide the basis for evaluation of cleanup alternatives during the Feasibility Study, define the COCs, and define the media of concern.

POINTS OF COMPLIANCE

The point of compliance is defined in WAC 173-340-200 as the location(s) where cleanup levels established in accordance with WAC 173-340-720 through WAC 173-340-760 will be attained to meet the requirements of MTCA.

The point of compliance for soil is defined as all soil at the Site where analytical results of in-situ soil samples report concentrations of COCs exceeding their respective MTCA cleanup (i.e., the standard point of compliance under MTCA). The point of compliance for soil will not exceed the boundary of the Site.

The standard point of compliance for groundwater is defined as the uppermost level of the saturated zone extending vertically to the lowest depth that potentially could be impacted by the COCs throughout the Site (i.e., the standard point of compliance under MTCA). The point of compliance for groundwater will be the Site boundary. The uppermost level of the saturated zone is approximately 2.5 feet bgs. The lowest depth that could be affected by the COCs is approximately 30 feet bgs. Groundwater monitoring wells that may be used as point of compliance wells include monitoring wells MW-3, MW-4, MW-5, MW-7A, and MW-7B (Figure 2).

MEDIA OF CONCERN

The RI work has confirmed that soil and groundwater are media of concern on the Site. Bioassay testing and sampling of shallow groundwater that seasonally discharges to the surface in Area 4 indicate that sediment and surface water are affected media, but are not media of concern. Indoor air has been retained as a media of concern, but has not been confirmed as an affected media. Soil gas and indoor air quality historically have not been evaluated during the RI work due to the absence of regulatory criteria that required evaluation of this pathway/media at the time the RI was completed.

CONSTITUENTS OF CONCERN

The COCs are defined as the chemicals that have been detected at concentrations exceeding their respective cleanup levels, which are presented in Attachment F. Provided below are the COCs identified by medium of concern.

Soil

HVOCs including PCE, TCE, and cis-1,2-DCE; 1,2-dichloropropane; pesticides including aldrin and dieldrin; total petroleum hydrocarbons as DRO; and metals including cadmium, copper, lead, and mercury have been identified as COCs for soil (Table 1).

Groundwater

The HVOCs PCE, TCE, cis-1,2-DCE, vinyl chloride, and 1,2-dichloropropane; the pesticides 4,4-DDD, 4,4-DDE, and dieldrin; and have been identified as COCs for groundwater (Table2, Figures 3 and 7). Metals have not been retained as COCs for groundwater (Table 2).

Soil Gas and Indoor Air

PCE, TCE, and vinyl chloride have been identified as COCs for soil gas and indoor air based on soil and groundwater data from the waste pit (Table 3).

REFERENCES

ERC/Pacific Groundwater Group. 1997. *Former Bay Chemical Site Remedial Investigation Report, Volume 1*. March.

Farallon Consulting LLC. (Farallon). 2004. *Revised Remedial Investigation Report, Agri-Tech & Yakima Steel Fabricators, 6 and 10 ½ East Washington Avenue, Yakima Washington.* Prepared for Yakima Steel Fabricators. June 10.

———. 2017a. Metals Source Evaluation, Agri-Tech and Yakima Steel Fabricators Site, Yakima Steel Fabricators, Yakima, Washington. Prepared for Yakima Steel Fabricators. June 9.

———. 2017b. Wetland Evaluation Technical Memorandum, Agri-Tech and Yakima Steel Fabricators Site, Yakima, Washington. Prepared for Yakima Steel Fabricators. July 17.

Attachments: Figure 1, *Site Vicinity*
Figure 2, *Site Plan and Tax Parcel Locations*
Figure 3, *Groundwater Analytical Results for Volatile Organic Compounds*
Figure 4, *Groundwater Analytical Results for Organochlorine Pesticides*
Figure 5*, Terrestrial Ecological Evaluation Areas to be Remediated*
Table 1, *Soil and Sediment Constituents of Concern and Cleanup Levels*
Table 2, *Groundwater Constituents of Concern and Cleanup Levels*
Table 3, *Soil Gas and Indoor Air Constituents of Concern and Cleanup Levels*
Attachment A, YSF Remedial Investigation Figures and Tables
Attachment B, Washington Department of Ecology Test Pit Sampling Tables
Attachment C, Metals Source TM Figures and Tables
Attachment D, Wetland Evaluation TM Figures and Tables
Attachment E, Terrestrial Ecological Evaluation Form
Attachment F, Site Cleanup Standards

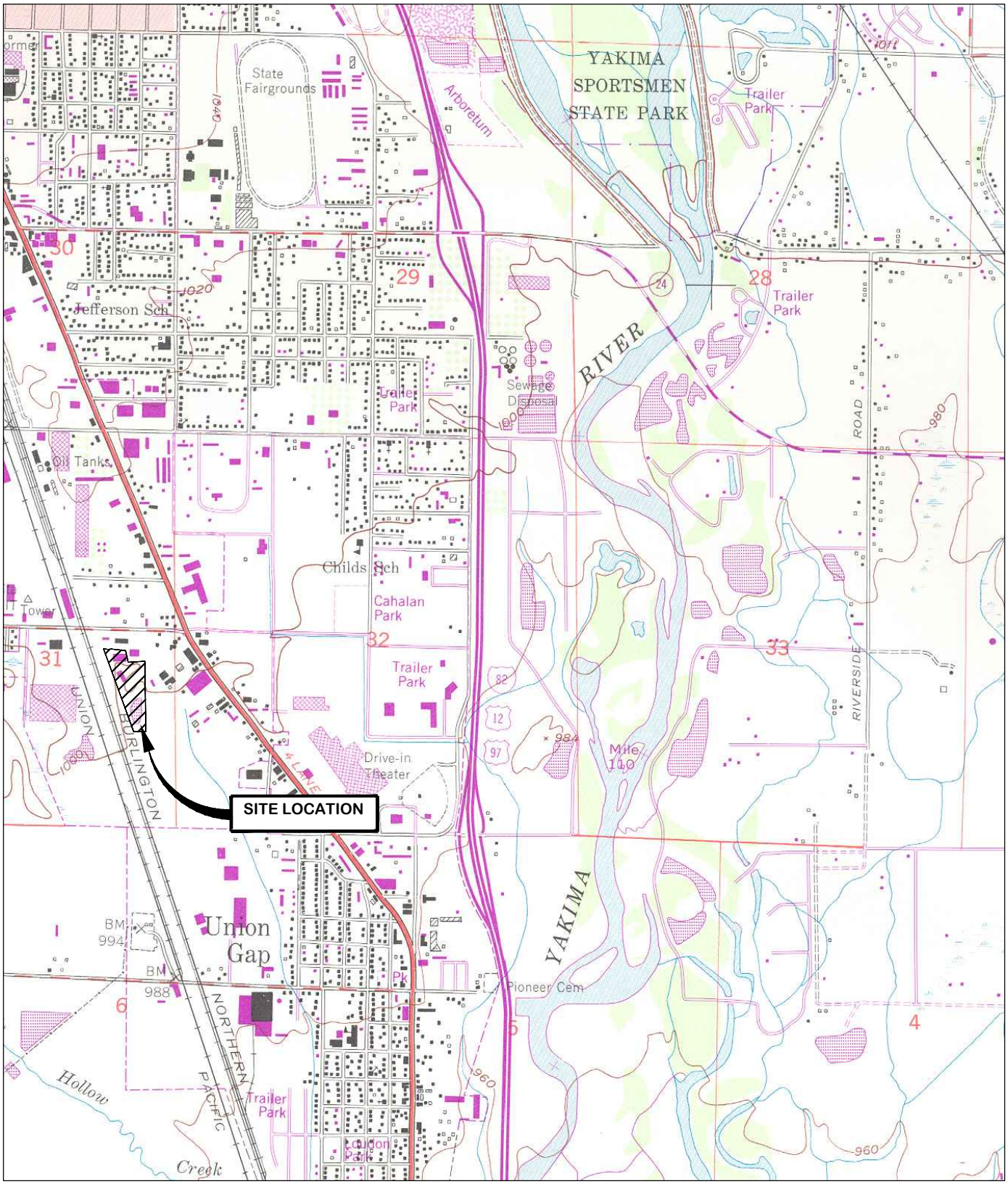
EB:cm

FIGURES

CONCEPTUAL SITE MODEL TECHNICAL MEMORANDUM

Agri-Tech and Yakima Steel Fabricators Site
Yakima Steel Fabricators
Yakima, Washington

Farallon PN: 765-001



REFERENCE: 7.5 MINUTE USGS QUADRANGLE YAKIMA SOUTH, WASHINGTON. DATED 1953 AND PHOTOREVISED 1981

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Washington
Issaquah | Bellingham | Seattle

Oregon
Portland | Bend | Baker City

California
Oakland | Sacramento | Irvine

FIGURE 1

SITE VICINITY MAP
YSF/AGRI-TECH SITE
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: DEW | Checked By: HC | Date: 1/25/2016 | Disk Reference: 765001a

LEGEND

- AREA BOUNDARY
- SITE BOUNDARY
- TAX PARCEL BOUNDARY
- FENCE
- RAILROAD
- APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT
- AREA = 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION
- AREA = 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS
- AREA = 3 — YAKIMA STEEL STORAGE YARD AND WETLAND AREA
- AREA = 4 — 2016 WETLAND EXTENT

FORMER BAY CHEMICAL FLUE DUST STOCKPILE AREA

FORMER BAY CHEMICAL SLUDGE SETTLING POND AREA

PARCEL # 19133141010
BAY CHEMICAL SITE

PARCEL # 19133141408

- ASPHALT -

- AREA 1 -

AGRI-TECH BUILDING
(FORMER LIME SULFUR FORMULATING PLANT LOCATION)

PARCEL # 19133141409

BUILDING
(FORMER YAKIMA FARMERS SUPPLY MAIN WAREHOUSE)

EAST WASHINGTON AVENUE

CONCRETE PAD

PARCEL # 19133141005

- GRAVEL -

(FORMER YAKIMA FARMERS SUPPLY LEASED WAREHOUSE)

PARCEL # 19133141011
BUILDING

- ASPHALT -

BNSF RAILROAD SPUR

PARCEL # 19133114003

- GRAVEL -

UNPAVED ROAD

OFFICES

YAKIMA STEEL FABRICATORS BUILDING

FABRICATION AREA

FABRICATION AND LOADING AREA

EDGE OF PAVEMENT

- AREA 3 -

- ASPHALT -

MATERIALS STORAGE AREA

- GRAVEL -

PARCEL # 19133141009

STEEL STORAGE AREA

- AREA 2 -

- GRAVEL -

- AREA 4 -
FORMER POND
CURRENT
WETLANDS AREA

- DITCH -

OLD BARB WIRE FENCE

- DITCH -

- DITCH -

PARCEL # 19133232408

PARCEL # 19133232433

CASCADE AUTO RECYCLING

PARCEL # 19133141406

PARCEL # 19133233009

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APPROXIMATE SCALE IN FEET

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FIGURE 2

SITE PLAN AND TAX PARCEL LOCATIONS
YSF/AGRI-TECH SITE
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: DEW | Checked By: EB | Date: 1/5/2018 | Disk Reference: 765001a

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LEGEND

APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT

SITE BOUNDARY

TAX PARCEL BOUNDARY

FENCE

RAILROAD

PCE = TETRACHLOROETHENE
TCE = TRICHLOROETHENE
CIS-1,2-DCE = CIS 1,2-DICHLOROETHENE
VC = VINYL CHLORIDE
-- = NOT ANALYZED
< = INDICATES CONCENTRATIONS NOT DETECTED AT OR ABOVE THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT

DATE	PCE	TCE	CIS-1,2-DCE	VC
6/1/11	5	3.98	70	0.0292

ANALYTE HIGHLIGHTED IN BLUE EXCEEDS PRELIMINARY SCREENING LEVEL INDICATED IN TABLE ABOVE.

MW-6 — SHALLOW BAY CHEMICAL SITE MONITORING WELL INSTALLED BY PACIFIC GROUNDWATER GROUP (1994)

MW-7A — SHALLOW MONITORING WELL INSTALLED BY FARALLON (2002)

MW-7B — DEEP MONITORING WELL INSTALLED BY FARALLON

MW-2 — SHALLOW MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)

MW-4 — DEEP MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)

MW-5 — DECOMMISSIONED WELL DURING BAY CHEMICAL CLEANUP (2007)

WDOE-6 — MONITORING WELL INSTALLED BY ECOLOGY (1992)

MW-10 — BAY CHEMICAL MONITORING WELL (2009)

ESTIMATED LATERAL EXTENT OF TYPE 3 WETLAND (EXISTING POND)

DATE	PCE	TCE	CIS-1,2-DCE	VC
12/3/97	<1.0	1.51	12.4	2.42
3/3/98	1.59	1.46	3.21	<1.0
6/3/98	<1.0	<1.0	7.13	<1.0
9/2/98	1.27	3.06	17.6	<1.0
12/4/02	<2	<2	15	<2.0
6/1/11	1.6	1.5	8.9	0.025

DATE	PCE	TCE	CIS-1,2-DCE	VC
12/3/97	3.64	<1.0	<1.0	<1.0
3/3/98	3.39	<1.0	<1.0	<1.0
6/3/98	6.5	1.18	<1.0	<1.0
9/2/98	4.22	0.71	0.25	<1.0
12/3/02	6	<2	<2	<2
6/2/11	3.2	0.31	0.10	<0.020

DATE	PCE	TCE	CIS-1,2-DCE	VC
5/92	420	430	270	<10
12/3/97	---	---	---	---
3/3/98	49.6	108	83.7	4.24
6/3/98	75.6	60.4	45.6	<1.0
9/2/98	20.8	18.7	11.4	<1.0
12/3/02	<2	<2	14	<2
6/1/11	5.7	31	300	37

DATE	PCE	TCE	CIS-1,2-DCE	VC
6/2/11	1.8	0.10	<0.10	<0.020

DATE	PCE	TCE	CIS-1,2-DCE	VC
6/2/11	1.6	0.22	<0.10	<0.020

DATE	PCE	TCE	CIS-1,2-DCE	VC
12/3/97	3.98	1.1	1	<1.0
3/3/98	2.25	1.02	4.5	<1.0
6/3/98	2.72	<1.0	2.52	<1.0
9/2/98	2.65	0.89	2.87	<1.0
12/4/02	5	<2	<2	<2

DATE	PCE	TCE	CIS-1,2-DCE	VC
12/3/02	2	<2	12	<2
6/2/11	1.9	0.44	3.8	<0.020

DATE	PCE	TCE	CIS-1,2-DCE	VC
12/3/02	<2	<2	4	<2
6/2/11	<0.10	<0.10	<0.10	<0.020

DATE	PCE	TCE	CIS-1,2-DCE	VC
12/3/97	<1.0	<1.0	7.68	<1.0
3/3/98	<1.0	<1.0	13.2	<1.0
6/3/98	<1.0	<1.0	13.3	<1.0
9/2/98	<1.0	0.33	7.08	<1.0
12/4/02	6	74	270	4
6/1/11	<0.10	<0.10	6.6	0.20

DATE	PCE	TCE	CIS-1,2-DCE	VC
12/3/97	6.06	1.07	<1.0	<1.0
3/3/98	4.44	<1.0	<1.0	<1.0
6/3/98	4.52	<1.0	<1.0	<1.0
9/2/98	5.37	0.81	0.22	<1.0
12/4/02	6	<2	<2	<2
6/1/11	3.2	0.23	<0.10	<0.020

DATE	PCE	TCE	CIS-1,2-DCE	VC
12/3/97	3.32	<1.0	5.23	<1.0
3/3/98	3.78	<1.0	1.64	<1.0
6/3/98	3.86	<1.0	3.25	<1.0
9/2/98	3.12	0.84	4.34	<1.0
12/4/02	5	<2	5	<2
6/1/11	2.2	0.29	0.87	<0.020

MW-10, MW-5, MW-11, MW-7B, MW-7A, MW-4, MW-6, MW-2, MW-3, MW-1, WDOE-6

- ASPHALT -
- GRAVEL -
- DITCH -
- OLD BARB WIRE FENCE -
- EDGE OF PAVEMENT
- UNPAVED ROAD

OFFICES
YAKIMA STEEL FABRICATORS BUILDING
FABRICATION AREA
FABRICATION AND LOADING AREA
STEEL STORAGE AREA
CONCRETE PAD
AGRI-TECH BUILDING (FORMER LIME SULFUR FORMULATING PLANT LOCATION)
BUILDING (FORMER YAKIMA FARMERS SUPPLY MAIN WAREHOUSE)
(FORMER YAKIMA FARMERS SUPPLY LEASED WAREHOUSE)
BUILDING
EAST WASHINGTON AVENUE
BNSF RAILROAD SPUR
CASCADE AUTO RECYCLING

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FIGURE 3

GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS COMPOUNDS
YSF/AGRI-TECH
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: DEW Checked By: EB Date: 1/5/2018 Disk Reference: 765001a

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LEGEND

APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT

SITE BOUNDARY

TAX PARCEL BOUNDARY

FENCE

RAILROAD

4,4-DDD = HEPTACHLOR
4,4-DDE = ALPHA-BHC
-- = NOT ANALYZED
< = INDICATES CONCENTRATIONS NOT DETECTED AT OR ABOVE THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT

DATE	4,4-DDD	DIELDRIN	4,4-DDE
12-3-02	0.365	0.0055	0.257

ANALYTE HIGHLIGHTED IN BLUE EXCEEDS PRELIMINARY SCREENING LEVEL INDICATED IN TABLE ABOVE.

MW-6 — SHALLOW BAY CHEMICAL SITE MONITORING WELL INSTALLED BY PACIFIC GROUNDWATER GROUP (1994)

MW-7A — SHALLOW MONITORING WELL INSTALLED BY FARALLON (2002)

MW-7B — DEEP MONITORING WELL INSTALLED BY FARALLON

MW-2 — SHALLOW MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)

MW-4 — DEEP MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)

MW-5 — DECOMMISSIONED WELL DURING BAY CHEMICAL CLEANUP (2007)

WDOE-6 — MONITORING WELL INSTALLED BY ECOLOGY (1992)

MW-10 — BAY CHEMICAL MONITORING WELL (2009)

ESTIMATED LATERAL EXTENT OF TYPE 3 WETLAND (EXISTING POND)

DATE	4,4-DDD	DIELDRIN	4,4-DDE
12-3-97	<0.1	<0.1	<0.1
3/3/98	<0.1	<0.1	<0.1
6/3/98	--	--	--
9/2/98	<0.1	<0.1	<0.1
12/4/02	--	--	--
6/1/11	<0.019	<0.019	<0.019

DATE	4,4-DDD	DIELDRIN	4,4-DDE
5/92	0.48	<0.50	1.1
12/3/97	--	--	--
3/3/98	<0.1	0.226	<0.1
6/3/98	0.296	0.242	0.586
9/2/98	0.1	<0.1	0.334
12/4/02	0.13	<0.05	<0.05
6/2/11	0.028	0.063	<0.020

DATE	4,4-DDD	DIELDRIN	4,4 DDE
12/3/97	<0.1	<0.1	<0.1
3/3/98	<0.1	<0.1	<0.1
6/3/98	--	--	--
9/2/98	--	--	--
12/3/02	--	--	--
6/2/11	<0.020	<0.020	<0.020

DATE	4,4-DDD	DIELDRIN	4,4-DDE
12/3/97	<0.1	0.102	0.119
3/3/98	<0.1	<0.1	<0.1
6/3/98	<0.1	<0.1	<0.1
9/2/98	<0.1	<0.1	<0.1
12/4/02	<0.05	0.05	<0.05
6/1/11	<0.021	0.033	<0.021

DATE	4,4-DDD	DIELDRIN	4,4-DDE
6/2/11	<0.020	<0.020	<0.020

DATE	4,4-DDD	DIELDRIN	4,4-DDE
6/2/11	<0.020	<0.020	<0.020

DATE	4,4-DDD	DIELDRIN	4,4-DDE
12/3/97	<0.1	<0.1	<0.1
3/3/98	<0.1	<0.1	<0.1
6/3/98	--	--	--
9/2/98	--	--	--
12/4/02	--	--	--

DATE	4,4-DDD	DIELDRIN	4,4-DDE
12/3/02	--	--	--
6/2/11	<0.020	<0.020	<0.020

DATE	4,4-DDD	DIELDRIN	4,4-DDE
12/3/02	--	--	--
6/2/11	<0.020	<0.020	<0.020

DATE	4,4-DDD	DIELDRIN	4,4-DDE
12/3/97	<0.1	<0.1	<0.1
3/3/98	<0.1	<0.1	<0.1
6/3/98	--	--	--
9/2/98	--	--	--
12/4/02	--	--	--
6/1/11	<0.019	<0.019	<0.019

DATE	4,4-DDD	DIELDRIN	4,4-DDE
12/3/97	<0.1	<1.0	<0.1
3/3/98	<0.1	<1.0	<0.1
6/3/98	<0.1	<1.0	<0.1
9/2/98	<0.1	<1.0	<0.1
12/4/02	--	--	--
6/1/11	<0.020	<0.020	<0.020

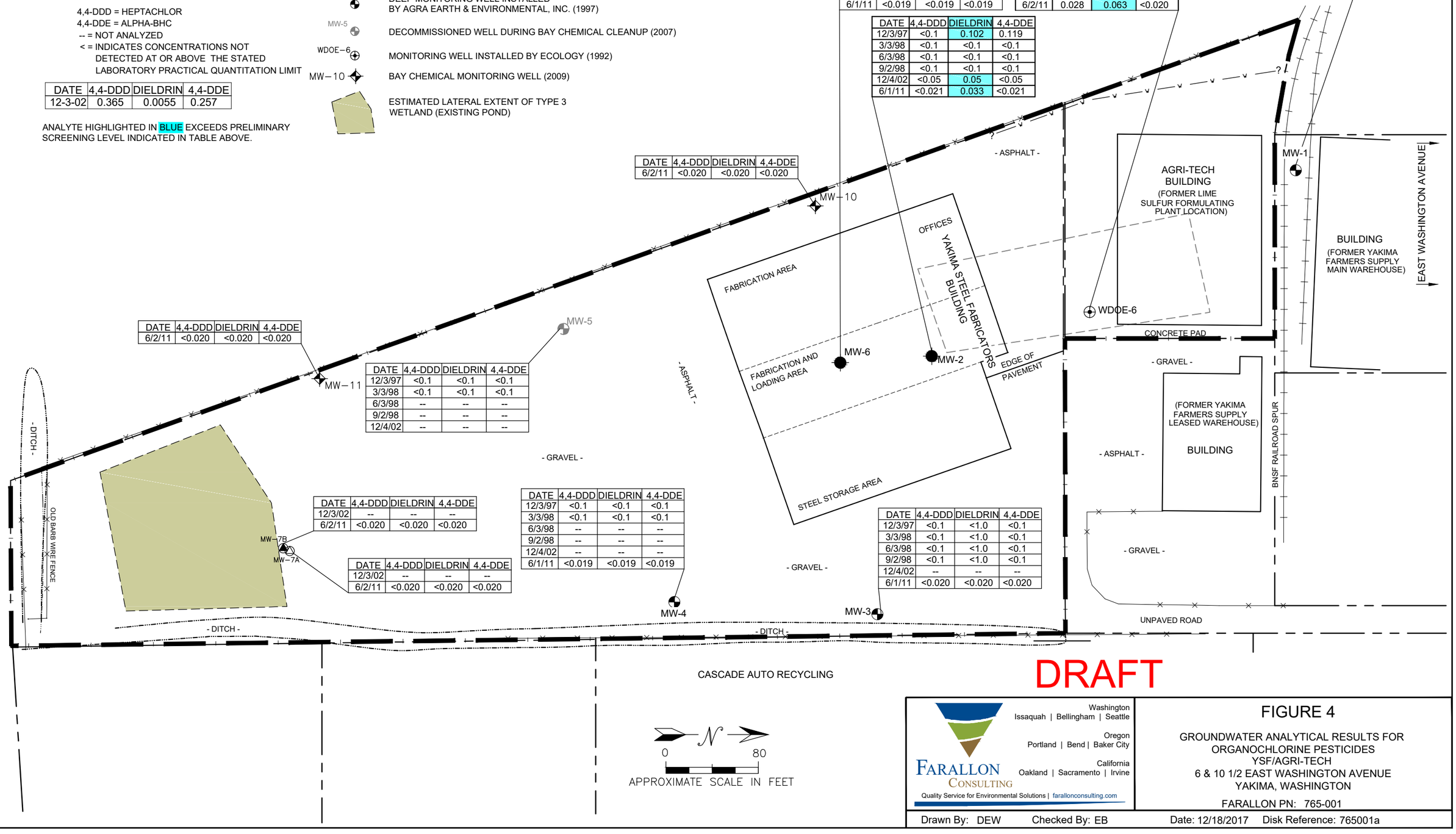

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FIGURE 4

GROUNDWATER ANALYTICAL RESULTS FOR ORGANOCHLORINE PESTICIDES
YSF/AGRI-TECH
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: DEW Checked By: EB Date: 12/18/2017 Disk Reference: 765001a

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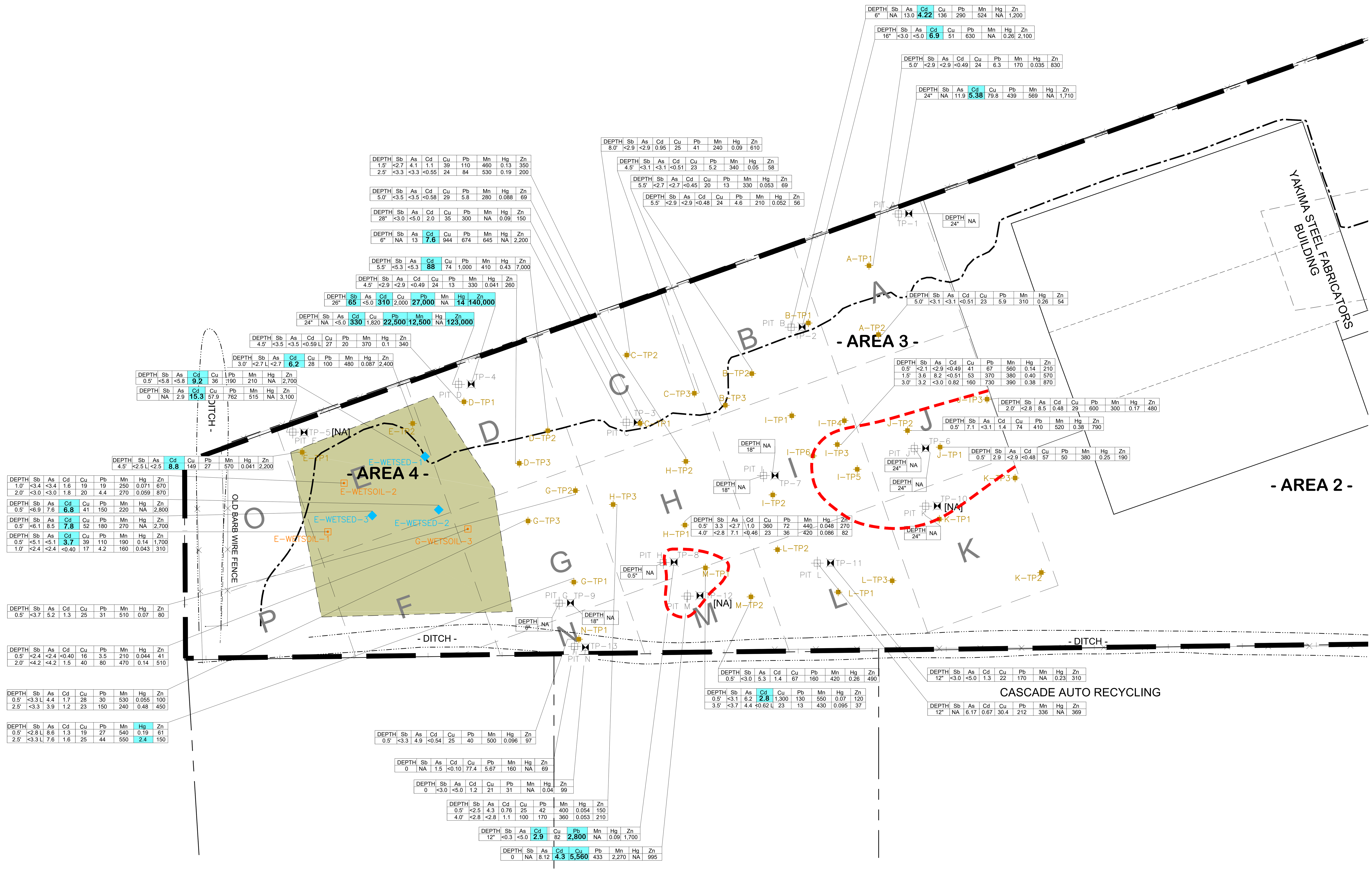

LEGEND

(dashed box)	APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT
AREA 1	FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION
AREA 2	FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS
AREA 3	YAKIMA STEEL STORAGE YARD AND WETLAND AREA
	SITE BOUNDARY
	TAX PARCEL BOUNDARY
	FENCE
	RAILROAD
	BAY CHEMICAL CLEANUP AREA
D-TP3	TEST PIT LOCATION FARALLON CONSULTING (2011)
E-WETSED-1	WET SEDIMENT SAMPLE LOCATION FARALLON CONSULTING (2011)
E-WETSOIL-2	WET SOIL SAMPLE LOCATION FARALLON CONSULTING (2011)
PIT B	WASHINGTON STATE DEPARTMENT OF ECOLOGY (ECOLOGY) TEST PIT (2007)
TP-2	ENVIRONMENTAL PARTNERS, INC. TEST PIT (2007)
M	ECOLOGY SAMPLING GRID DESIGNATION
	ESTIMATED LATERAL EXTENT OF TYPE 3 WETLAND (EXISTING POND)
	AREAS TO BE REMIDIATED IN ACCORDANCE WITH TERRESTRIAL ECOLOGICAL EVALUATION REQUIREMENTS

Sb = ANTIMONY
As = ARSENIC
Cd = CADMIUM
Cu = COPPER
Pb = LEAD
Mn = MANGANESE
Hg = MERCURY
Zn = ZINC
NA = NOT ANALYZED
< = INDICATES CONCENTRATIONS NOT DETECTED AT OR ABOVE THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT

SOIL ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM
DEPTH IN INCHES BELOW GROUND SURFACE

Sb	As	Cd	Cu	Pb	Mn	Hg	Zn
32	20	200	2,960	1,000	11,000	2.0	24,000

ANALYTE HIGHLIGHTED IN BLUE EXCEEDS PRELIMINARY SCREENING LEVEL INDICATED IN TABLE ABOVE.

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FIGURE 5

TERRESTRIAL ECOLOGICAL EVALUATION
AREAS TO BE REMEDIATED
YSF/AGRI-TECH
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: DEW Checked By: JK Date: 12/18/2017 Disk Reference: 765001A

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TABLES

CONCEPTUAL SITE MODEL TECHNICAL MEMORANDUM

Agri-Tech and Yakima Steel Fabricators Site
Yakima Steel Fabricators
Yakima, Washington

Farallon PN: 765-001

Table 1
Soil and Sediment Constituents of Concern and Cleanup Levels
Yakima Steel Fabricators
Seattle, Washington
Farallon PN: 765-001

Constituent of Potential Concern	Carcinogen or Non-Carcinogen	Soil and Sediment Cleanup Levels										
		Soil									Sediment	
		Soil Method A Unrestricted Land Use (mg/kg)	Soil Method A Industrial Properties (mg/kg)	Soil Method B Non-Cancer (mg/kg)[1]	Soil Method B Cancer (mg/kg)[1]	Soil Method B Protective of Groundwater Vadose Zone @ 25 degrees C (mg/kg)[1]	Soil Method B Protective of Groundwater Vadose Zone @ 13 degrees C (mg/kg)[1]	Soil Method B Protection of Groundwater Saturated Zone (mg/kg)[1]	Soil Method C Non-Cancer (mg/kg)[1]	Soil Method C Cancer (mg/kg)[1]	Dry Weight Sediment Cleanup Objective (mg/kg)	Retained As Constituent of Concern for Feasibility Study
Tetrachloroethene	Carcinogen	0.05	0.05	480	476.19	0.053	**0.050**	0.0028	21,000	62,500	Not Applicable	**Yes**
Trichloroethene	Carcinogen	0.03	0.03	40	12	0.026	**0.025**	0.0015	1,750	2,853.26	Not Applicable	**Yes**
cis-1,2-Dichloroethene	Non-Carcinogen	Not Applicable	Not Applicable	160	Not Applicable	0.080	**0.078**	0.0052	7,000	Not Applicable	Not Applicable	**Yes**
Vinyl chloride	Carcinogen	Not Applicable	Not Applicable	240	0.67	0.002	**0.0017**	0.0001	10,500	87.50	Not Applicable	No
1,1-Dichloroethene	Non-Carcinogen	Not Applicable	Not Applicable	4,000	Not Applicable	0.050	**0.046**	0.0025	175,000	Not Applicable	Not Applicable	No
1,2-dichloropropane	Carcinogen	Not Applicable	Not Applicable	7,200	27.78	0.026	**0.025**	0.0017	315,000	3,645.83	Not Applicable	**Yes**
4,4-DDE* (DDE)	Carcinogen	Not Applicable	Not Applicable	Not Applicable	2.94	0.45	**0.45**	0.022	Not Applicable	386.03	Not Applicable	No
4,4-DDD* (DDD)	Carcinogen	Not Applicable	Not Applicable	Not Applicable	4.17	**0.34**	Not Applicable	0.017	Not Applicable	546.88	**0.31**	No
Dieldrin	Carcinogen	Not Applicable	Not Applicable	4	0.063	0.0028	**0.0028**	0.0001	175	8.20	**0.0049**	**Yes**
Endrin	Non-Carcinogen	Not Applicable	Not Applicable	24	Not Applicable	**0.44**	Not Applicable	0.022	1,050	Not Applicable	**0.0085**	No
Heptachlor epoxide	Carcinogen	Not Applicable	Not Applicable	1.04	0.11	**0.08**	Not Applicable	0.0040	45.50	14.42	Not Applicable	No
Aldrin	Non-Carcinogen	Not Applicable	Not Applicable	2.40	0.059	0.0025	**0.0025**	0.0001	105	7.72	Not Applicable	**Yes**
Alpha chlordane* (chlordane total)	Carcinogen	Not Applicable	Not Applicable	40	2.86	2.06	**2.06**	0.10	1,750	375	Not Applicable	No
DRO	Non-Carcinogen	**2,000**	2,000	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	**340**	**Yes**
ORO	Non-Carcinogen	**2,000**	2,000	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
cPAHs* (TEC)	Carcinogen	0.10	2	Not Applicable	0.14	**2.33**	Not Applicable	0.12	Not Applicable	17.98	**17**	No
Antimony	Non-Carcinogen	Not Applicable	Not Applicable	32	Not Applicable	5.42	**5.42**	0.27	1,400	Not Applicable	Not Applicable	No
Arsenic	Carcinogen	20	20	24	0.67	2.92	**2.92**	0.15	1,050	87.50	**14**	No
Cadmium	Non-Carcinogen	2	2	80	Not Applicable	0.69	**0.69**	0.035	Not Applicable	Not Applicable	**2.10**	**Yes**
Copper	Non-Carcinogen	Not Applicable	Not Applicable	3,200	Not Applicable	284	**284**	14.26	140,000	Not Applicable	**400**	**Yes**
Lead	Non-Carcinogen	250	1,000	Not Applicable	Not Applicable	3,000	**3,000**	150	Not Applicable	Not Applicable	**360**	**Yes**
Mercury	Non-Carcinogen	2	2	Not Applicable	Not Applicable	2.09	**2.09**	0.10	Not Applicable	Not Applicable	**0.66**	**Yes**
Zinc	Non-Carcinogen	Not Applicable	Not Applicable	24,000	Not Applicable	5,971	**5,970**	298.98	1,050,000	Not Applicable	**3,200**	No

NOTES:

Bold denotes selected cleanup level.

[1] Cleanup level is based on standard Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method B (unrestricted land use) or Method C (industrial land use) values from the Cleanup and Risk Calculations tables (CLARC).

"Not Applicable" is used where the constituent of concern will not affect the media of potential concern due to an incomplete pathway or no pertinent standard exists.

C = Celsius
cPAH = carcinogenic polycyclic aromatic hydrocarbons
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DRO = total petroleum hydrocarbons as diesel range organics
mg/kg = milligrams per kilogram
ORO = total petroleum hydrocarbons as oil-range organics
TEC = toxicity equivalent concentration

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Table 2
Groundwater Constituents of Concern and Cleanup Levels
Yakima Steel Fabricators
Seattle, Washington
Farallon PN: 765-001

Constituent of Potential Concern	Carcinogen or Non-Carcinogen	Groundwater Cleanup Levels					Retained As Constituent of Concern for Feasibility Study
		Groundwater Method A (µg/l)	Groundwater Method B Non-Cancer (µg/l)[1]	Groundwater Method B Cancer (µg/l)[1]	Groundwater Method C Non-Cancer (µg/l)[1]	Groundwater Method C Cancer (µg/l)[1]	
Tetrachloroethene	Carcinogen	**5**	48	20.83	105	208.33	**Yes**
Trichloroethene	Carcinogen	**5**	4	0.54	8.75	9.51	**Yes**
cis-1,2-Dichloroethene	Non-Carcinogen	Not Applicable	**16**	Not Applicable	35	Not Applicable	**Yes**
Vinyl chloride	Carcinogen	**0.20**	24	0.029	52.50	0.29	Yes
1,1-Dichloroethene	Non-Carcinogen	Not Applicable	**400**	Not Applicable	875	Not Applicable	No
1,2-dichloropropane	Carcinogen	Not Applicable	720	**1.22**	1,575	12.15	**Yes**
4,4-DDE* (DDE)	Carcinogen	Not Applicable	Not Applicable	**0.26**	Not Applicable	2.57	**Yes**
4,4-DDD* (DDD)	Carcinogen	Not Applicable	Not Applicable	**0.36**	Not Applicable	3.65	**Yes**
Dieldrin	Carcinogen	Not Applicable	0.80	**0.0055**	1.75	0.055	**Yes**
Endrin	Non-Carcinogen	Not Applicable	**4.80**	Not Applicable	10.50	Not Applicable	No
Heptachlor epoxide	Carcinogen	Not Applicable	0.10	**0.0048**	0.23	0.048	No
Aldrin	Non-Carcinogen	Not Applicable	0.24	**0.0026**	0.53	0.026	No
Alpha chlordane* (chlordane total)	Carcinogen	Not Applicable	8	**0.25**	17.50	2.50	No
DRO	Non-Carcinogen	**500**	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
ORO	Non-Carcinogen	**500**	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
cPAHs* (TEC)	Carcinogen	**0.10**	Not Applicable	0.012	Not Applicable	0.12	No
Antimony	Non-Carcinogen	Not Applicable	**6.40**	Not Applicable	14	Not Applicable	No
Arsenic	Carcinogen	**5**	4.80	0.058	10.50	0.58	No
Cadmium	Non-Carcinogen	**5**	8	Not Applicable	17.50	Not Applicable	No
Copper	Non-Carcinogen	Not Applicable	Not Applicable	**640**	Not Applicable	1,400	No
Lead	Non-Carcinogen	**15**	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
Mercury	Non-Carcinogen	**2**	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
Zinc	Non-Carcinogen	Not Applicable	**4,800**	Not Applicable	10,500	Not Applicable	No

NOTES:

Bold denotes selected cleanup level.

[1]Cleanup level is based on standard Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method B (unrestricted land use) or Method C (industrial land use) values from the Cleanup and Risk Calculations tables (CLARC).

"Not Applicable" is used where the constituent of concern will not affect the media of potential concern due to an incomplete pathway or no pertinent standard exists.

cPAH = carcinogenic polycyclic aromatic hydrocarbons

DDD = dichlorodiphenyldichloroethane

DDE = dichlorodiphenyldichloroethylene

DRO = total petroleum hydrocarbons as diesel-range organics

µg/l = micrograms per liter

ORO = total petroleum hydrocarbons as oil-range organics

TEC = toxic equivalent concentration

DRAFT – Issued for Agency Review

Table 3
Soil Gas and Indoor Air Constituents of Concern and Cleanup Levels
Yakima Steel Fabricators
Seattle, Washington
Farallon PN: 765-001

Constituent of Potential Concern	Carcinogen or Non-Carcinogen	Air Cleanup Levels				Retained As Constituent of Concern for Feasibility Study
		Air Method B Non-Cancer ($\mu g/m^3$)[1]	Air Method B Cancer ($\mu g/m^3$)[1]	Air Method C Non-Cancer ($\mu g/m^3$)[1]	Air Method C Cancer ($\mu g/m^3$)[1]	
Tetrachloroethene	Carcinogen	18.29	**9.62**	40	96	**Yes**
Trichloroethene	Carcinogen	0.91	**0.37**	2	6	**Yes**
cis-1,2-Dichloroethene	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
Vinyl chloride	Carcinogen	45.71	**0.28**	100	3	**Yes**
Chloromethane	Non-Carcinogen	**41.10**	Not Applicable	90.0	Not Applicable	No
1,1-Dichloroethene	Non-Carcinogen	**91.43**	Not Applicable	200	Not Applicable	No
1,2-dichloropropane	Carcinogen	1.83	**0.25**	4	3	No
4,4-DDE* (DDE)	Carcinogen	Not Applicable	**0.026**	Not Applicable	0.26	No
4,4-DDD* (DDD)	Carcinogen	Not Applicable	**0.036**	Not Applicable	0.36	No
Dieldrin	Carcinogen	Not Applicable	**0.00054**	Not Applicable	0.01	No
Endrin	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
Heptachlor epoxide	Carcinogen	Not Applicable	**0.00096**	Not Applicable	0.01	No
Aldrin	Non-Carcinogen	Not Applicable	**0.00051**	Not Applicable	0.01	No
Alpha chlordane* (chlordane total)	Carcinogen	0.32	**0.025**	0.70	0.25	No
DRO	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
ORO	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
cPAHs* (TEC)	Carcinogen	Not Applicable	**0.0023**	Not Applicable	0.02	No
Antimony	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
Arsenic	Carcinogen	0.007	**0.00058**	0.015	0.006	No
Cadmium	Non-Carcinogen	0.005	**0.0014**	0.010	0.014	No
Copper	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
Lead	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
Mercury	Non-Carcinogen	**0.14**	Not Applicable	0.30	Not Applicable	No
Zinc	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No

NOTES:

Bold denotes selected cleanup level.

"Not Applicable" is used where the constituent of concern will not affect the media of potential concern due to an incomplete pathway or no pertinent standard exists.

[1]Cleanup level is based on standard Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method B (unrestricted land use) or Method C (industrial land use) values from the Cleanup and Risk Calculations tables (CLARC).

cPAH = carcinogenic polycyclic aromatic hydrocarbons

DDD = dichlorodiphenyldichloroethane

DDE = dichlorodiphenyldichloroethylene

DRO = total petroleum hydrocarbons as diesel range organics

$\mu g/m^3$ = micrograms per cubic meter of air

ORO = total petroleum hydrocarbons as oil-range organics

TEC = toxicity equivalent concentration

ATTACHMENT A
YSF REMEDIAL INVESTIGATION FIGURES AND TABLES

CONCEPTUAL SITE MODEL TECHNICAL MEMORANDUM

Agri-Tech and Yakima Steel Fabricators Site
Yakima Steel Fabricators
Yakima, Washington

Farallon PN: 765-001

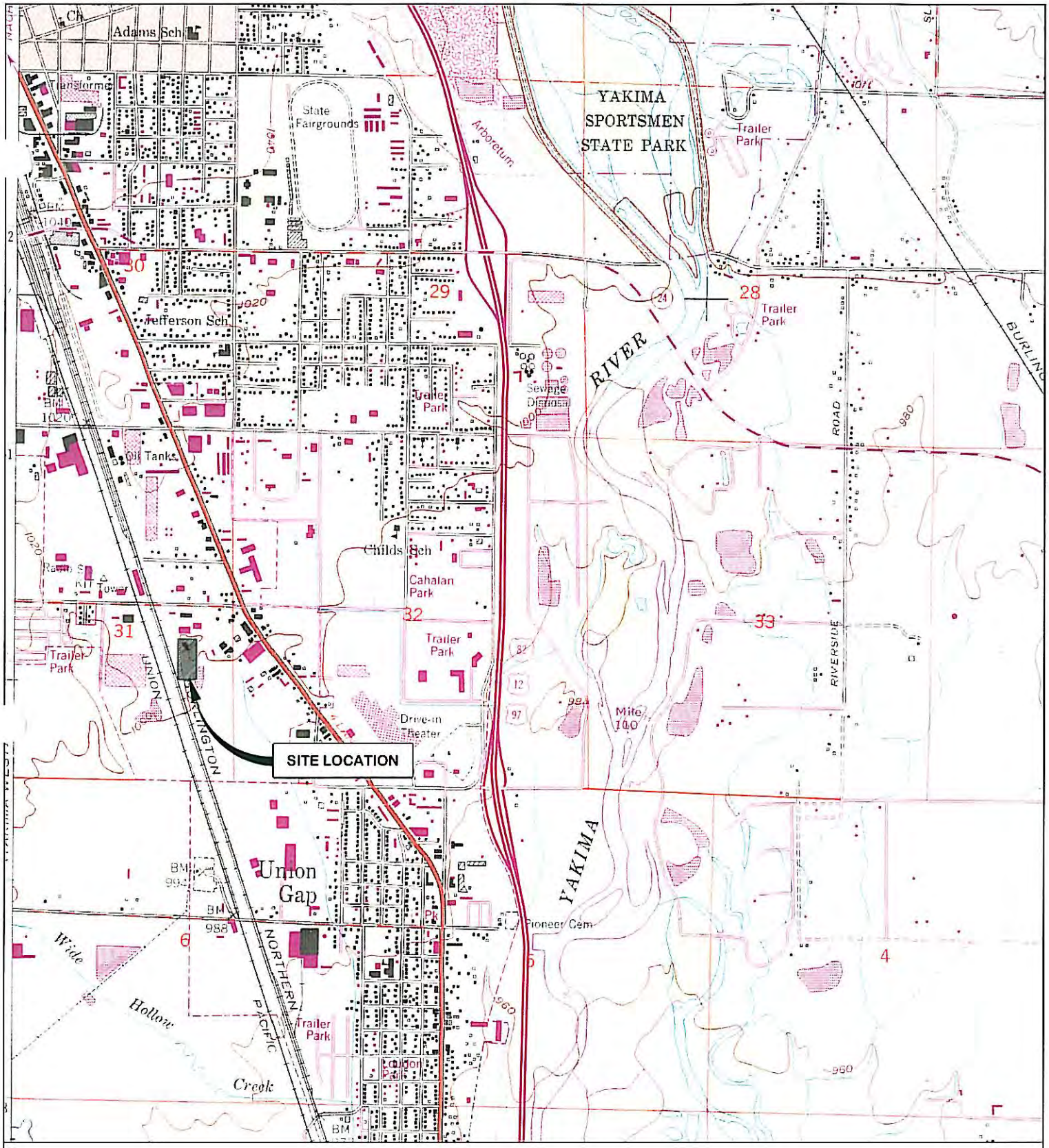

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FIGURE 1

SITE LOCATION AND REGIONAL TOPOGRAPHIC MAP
YSF/AGRI-TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVNUE.
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: DEW	Checked By: RM	Date: 2/28/03	Disk Reference: 765001

LEGEND

TAX PARCEL BOUNDARY

FENCE

RAILROAD

PARCEL # 19133141010

FORMER BAY CHEMICAL PROPERTY

– ASPHALT –

OFFICES

FABRICATION AREA

YAKIMA STEEL FABRICATORS BUILDING

FABRICATION AND LOADING AREA

– ASPHALT –

EDGE OF PAVEMENT

STEEL STORAGE AREA

PARCEL # 19133141408

AGRI–TECH BUILDING

PARCEL # 19133141409

BUILDING

EAST WASHINGTON AVENUE

CONCRETE PAD

PARCEL # 19133141005

– GRAVEL –

PARCEL # 19133141011

– ASPHALT –

BUILDING

BNSF RAILROAD SPUR

PARCEL # 19133114003

– GRAVEL –

UNPAVED ROAD

– DITCH –

OLD BARB WIRE FENCE

TYPE 3 WETLANDS AREA (EXISTING POND)

STEEL STORAGE AREA

– GRAVEL –

PARCEL # 19133141009

– GRAVEL –

– DITCH –

– DITCH –

PARCEL # 19133232408

PARCEL # 19133232433

AUTOMOBILE WRECKING YARD

PARCEL # 19133141406

PARCEL # 19133144001

0 80

APPROXIMATE SCALE IN FEET

N

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FIGURE 2

SITE PLAN AND TAX PARCEL LOCATIONS
YSF/AGRI–TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765–001

Drawn By: GKS	Checked By: JK	Date: 6/16/03	Disk Reference: 765001

LEGEND

- APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT
- AREA = 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION
- AREA = 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS
- AREA = 3 — POTENTIAL PETROLEUM RELEASE AREA
- SITE BOUNDARY
- TAX PARCEL BOUNDARY
- SANITARY SEWER VAULT AND LINE
- OVERHEAD POWER
- UNDERGROUND ELECTRIC (LOCATION INFERRED)
- WATER LINE
- FENCE
- RAILROAD

FORMER BAY CHEMICAL PROPERTY

FORMER SETTLING POND AREA

– AREA 3 –

STEEL STORAGE AREA

– GRAVEL –

– DITCH –

OLD BARB WIRE FENCE

TYPE 3 WETLANDS AREA (EXISTING POND)

– DITCH –

– DITCH –

AUTOMOBILE WRECKING YARD

– ASPHALT –

FABRICATION AREA

OFFICES

YAKIMA STEEL BUILDING

FABRICATORS

FABRICATION AND LOADING AREA

EDGE OF PAVEMENT

PP

STEEL STORAGE AREA

– AREA 2 –

– GRAVEL –

– ASPHALT –

– AREA 1 –

AGRI–TECH BUILDING (FORMER LIME SULFUR FORMULATING PLANT LOCATION)

CONCRETE PAD

– GRAVEL –

(FORMER YAKIMA FARMER SUPPLY LEASED WAREHOUSE)

BUILDING

– ASPHALT –

BNSF RAILROAD SPUR

– GRAVEL –

UNPAVED ROAD

BUILDING (FORMER YAKIMA FARMER SUPPLY MAIN WAREHOUSE)

0 80

APPROXIMATE SCALE IN FEET

N

FIGURE 3

SITE PLAN
YSF/AGRI–TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765–001

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Drawn By: GKS	Checked By: JK	Date: 6/16/03	Disk Reference: 765001

LEGEND

- MW-7A — SHALLOW MONITORING WELL INSTALLED BY FARALLON (2002)
- MW-7B — DEEP MONITORING WELL INSTALLED BY FARALLON
- MW-2 — SHALLOW MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)
- MW-5 — DEEP MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)
- WDOE-6 — MONITORING WELL INSTALLED BY ECOLOGY (1992)
- MW-6 — SHALLOW BAY CHEMICAL PROPERTY MONITORING WELL INSTALLED BY PACIFIC GROUNDWATER GROUP (1994)

- APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT
- AREA = 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION
- AREA = 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS
- AREA = 3 — POTENTIAL PETROLEUM RELEASE AREA
- SITE BOUNDARY
- TAX PARCEL BOUNDARY
- FENCE
- RAILROAD

FORMER BAY CHEMICAL PROPERTY

MW-2 MW-3 MW-4 MW-5 MW-6 MW-7A MW-7B MW-1 WDOE-6

- ASPHALT -

AGRI-TECH BUILDING

- AREA 1 -

OFFICES

FABRICATION AREA

YAKIMA STEEL FABRICATORS BUILDING

FABRICATION AND LOADING AREA

- ASPHALT -

EDGE OF PAVEMENT

CONCRETE PAD

- GRAVEL -

BUILDING

EAST WASHINGTON AVENUE

- AREA 3 -

STEEL STORAGE AREA

- GRAVEL -

- DITCH -

OLD BARB WIRE FENCE

TYPE 3 WETLANDS AREA (EXISTING POND)

- AREA 2 -

STEEL STORAGE AREA

- GRAVEL -

- ASPHALT -

BUILDING

BNSF RAILROAD SPUR

- GRAVEL -

UNPAVED ROAD

- DITCH -

AUTOMOBILE WRECKING YARD

0 80

APPROXIMATE SCALE IN FEET

N

FIGURE 4

SITE PLAN WITH
GROUNDWATER MONITORING WELL LOCATIONS
YSF/AGRI-TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

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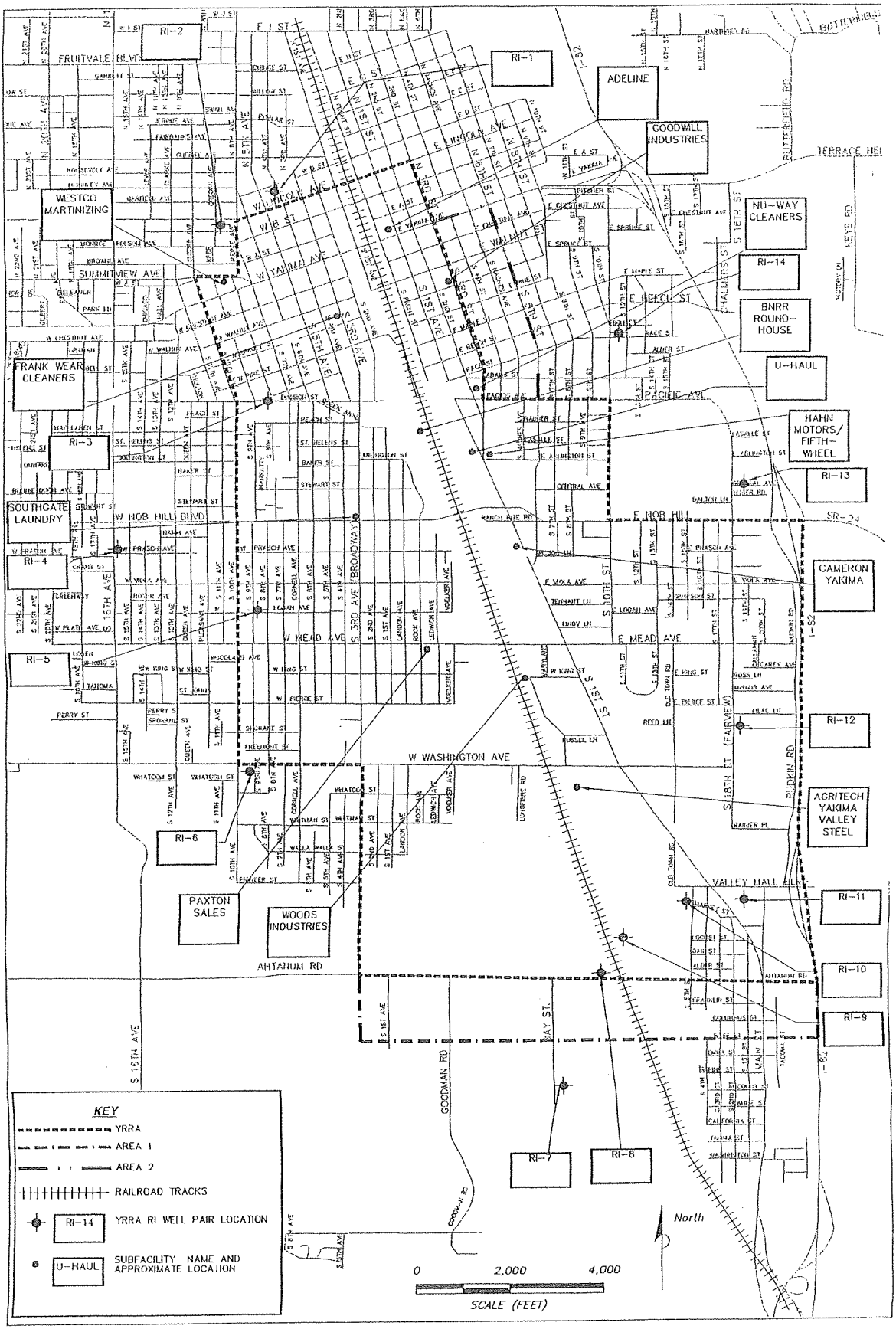

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FIGURE 5

SURROUNDING CONFIRMED OR SUSPECTED CONTAMINATED SITES
YSF/AGRI-TECH REMEDIAL INVESTIGATION
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: DEW	Checked By: JC	Date: 2/28/03	Disk Reference: 765001

LEGEND

- B-2 — SOIL BORING LOCATION
  AGRA EARTH ENVIRONMENTAL INC. (1997)
- SP-27 — DIRECT PUSH SOIL BORING LOCATION
  AGRA EARTH ENVIRONMENTAL INC. (1997)
- TP-4 — TEST PIT LOCATION
  PLSA ENGINEERING (1993)
- N11.5E12.3 — DIRECT PUSH SOIL BORING LOCATION
  BAY CHEMICAL PROPERTY REMEDIAL INVESTIGATION (1996). SOIL BORINGS ON SITE DEPICTED ONLY
- APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT
- AREA = 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION
- AREA = 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS
- AREA = 3 — POTENTIAL PETROLEUM RELEASE AREA
- A — A' — LINE OF CROSS-SECTION
- SITE BOUNDARY
- TAX PARCEL BOUNDARY
- FENCE
- RAILROAD

FORMER BAY CHEMICAL PROPERTY

MW-2 MW-3 MW-4 MW-5 MW-6

N14.5E12.3 SP-23 SP-24 SP-25

N12.5E12.5 N11.5E12.3 N10E12.3

- AREA 3 -

STEEL STORAGE AREA

- GRAVEL -

- ASPHALT -

- DITCH -

OLD BARB WIRE FENCE

TYPE 3 WETLANDS AREA (EXISTING POND)

- DITCH -

AUTOMOBILE WRECKING YARD

- ASPHALT -

FABRICATION AREA

OFFICES

YAKIMA STEEL FABRICATORS BUILDING

FABRICATION AND LOADING AREA

EDGE OF PAVEMENT

STEEL STORAGE AREA

SP-25 SP-22 SP-26 SP-27 SP-28

TP-1

- AREA 2 -

- GRAVEL -

- AREA 1 -

SP6 SP1 SP5 SP7 SP13/14 SP20 SP21 SP19 SP12 SP15 SP16 SP11 SP10 SP9 SP17 SP18 SP2 SP2A SP4 SP3 SP8

B-1 B-2 TP-2 TP-3 TP-4

AGRI-TECH BUILDING

CONCRETE PAD

- GRAVEL -

BUILDING

- ASPHALT -

BUILDING

BNSF RAILROAD SPUR

- GRAVEL -

UNPAVED ROAD

EAST WASHINGTON AVENUE

0 80

APPROXIMATE SCALE IN FEET

N

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FIGURE 6

SITE PLAN WITH SOIL BORING LOCATIONS
YSF/AGRI-TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

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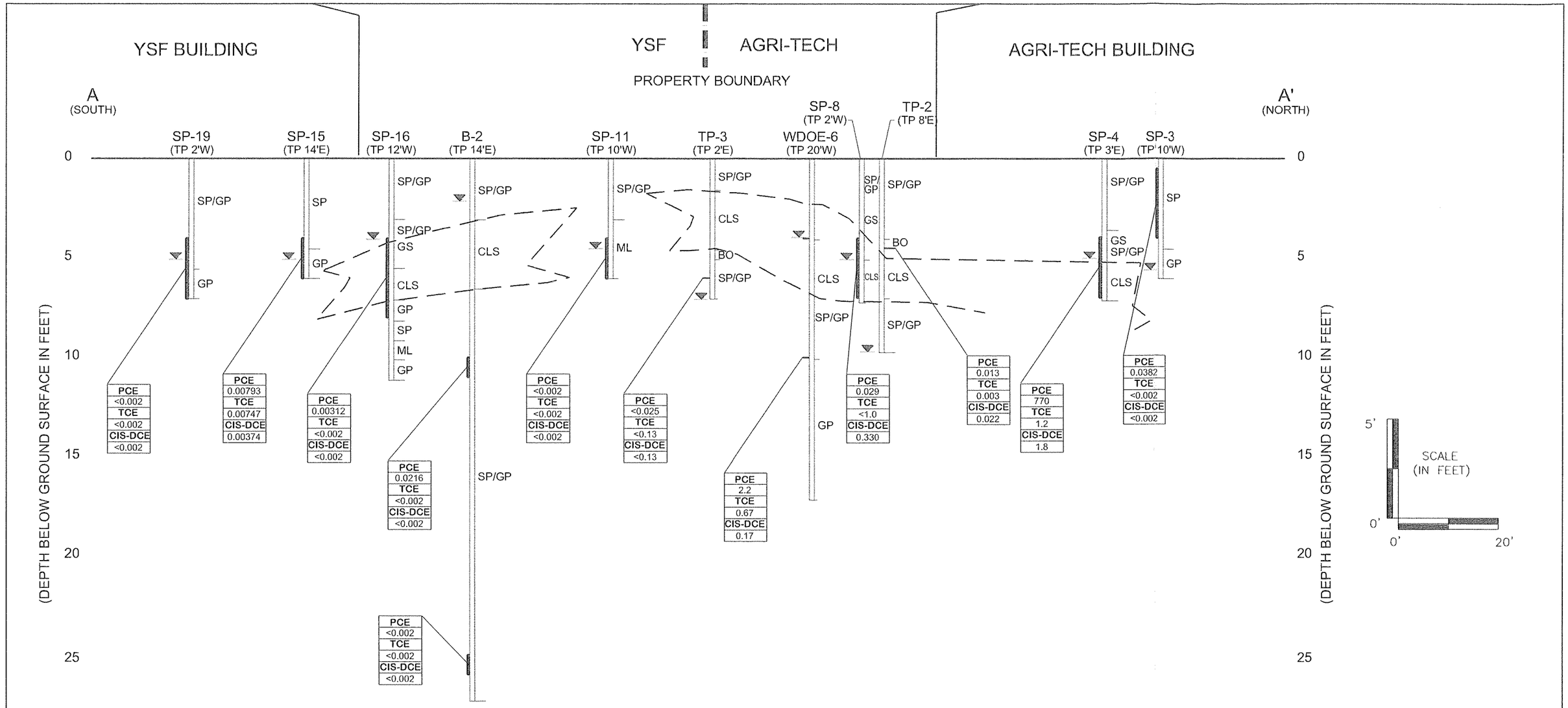
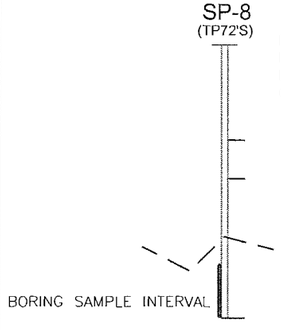


LEGEND



BORING LOCATION TRANSPOSED (TP) IN FEET, NORTH (N), SOUTH (S), EAST (E), OR WEST (W) TO CROSS SECTION LINE.

SOIL SAMPLE INTERVAL

BLANK CASING

GEOLOGIC CONTACT, INFERRED WHERE QUERIED

BOTTOM OF WELL/BOREHOLE

SP-19 = DIRECT PUSH SOIL BORING LOCATION
B-2 = SOIL BORING LOCATION
TP-2 = TEST PIT LOCATION
WDOE-6 = MONITORING WELL LOCATION

GP = GRAVEL WITH VARYING AMOUNTS OF SAND AND SILT
SP = SAND WITH VARYING AMOUNTS OF SILT AND GRAVEL
SP/GP = SAND AND GRAVEL WITH VARYING AMOUNTS SILT
ML = SILT WITH VARYING AMOUNTS OF SAND AND GRAVEL
CLS = CLAYEY SUBSTANCE, GREEN-GREY TO YELLOW-GREY, MAY BE MIXED WITH SP/GP/ML
GS = GRANULAR SULFUR, MAY BE MIXED WITH SP/GP/ML
BO = BLACK, ORGANIC MATERIAL
▽ = DEPTH TO WATER AT TIME OF DRILLING

PCE
<0.050
TCE
<0.050
CIS-DCE
0.132

SOIL ANALYTICAL RESULTS IN (MILLIGRAMS PER KILOGRAM)
PCE = TETRACHLOROETHENE
TCE = TRICHLOROETHENE
CIS-DCE = CIS 1,2-DICHLOROETHENE

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FIGURE 7

CROSS-SECTION A-A' VOLATILE ORGANIC COMPOUNDS SOIL ANALYTICAL RESULTS YSF/AGRI-TECH REMEDIAL INVESTIGATION 6 & 10 1/2 EAST WASHINGTON AVENUE YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By:GKS	Checked By:JK	Date:6/16/03	Disk Reference:765001

LEGEND

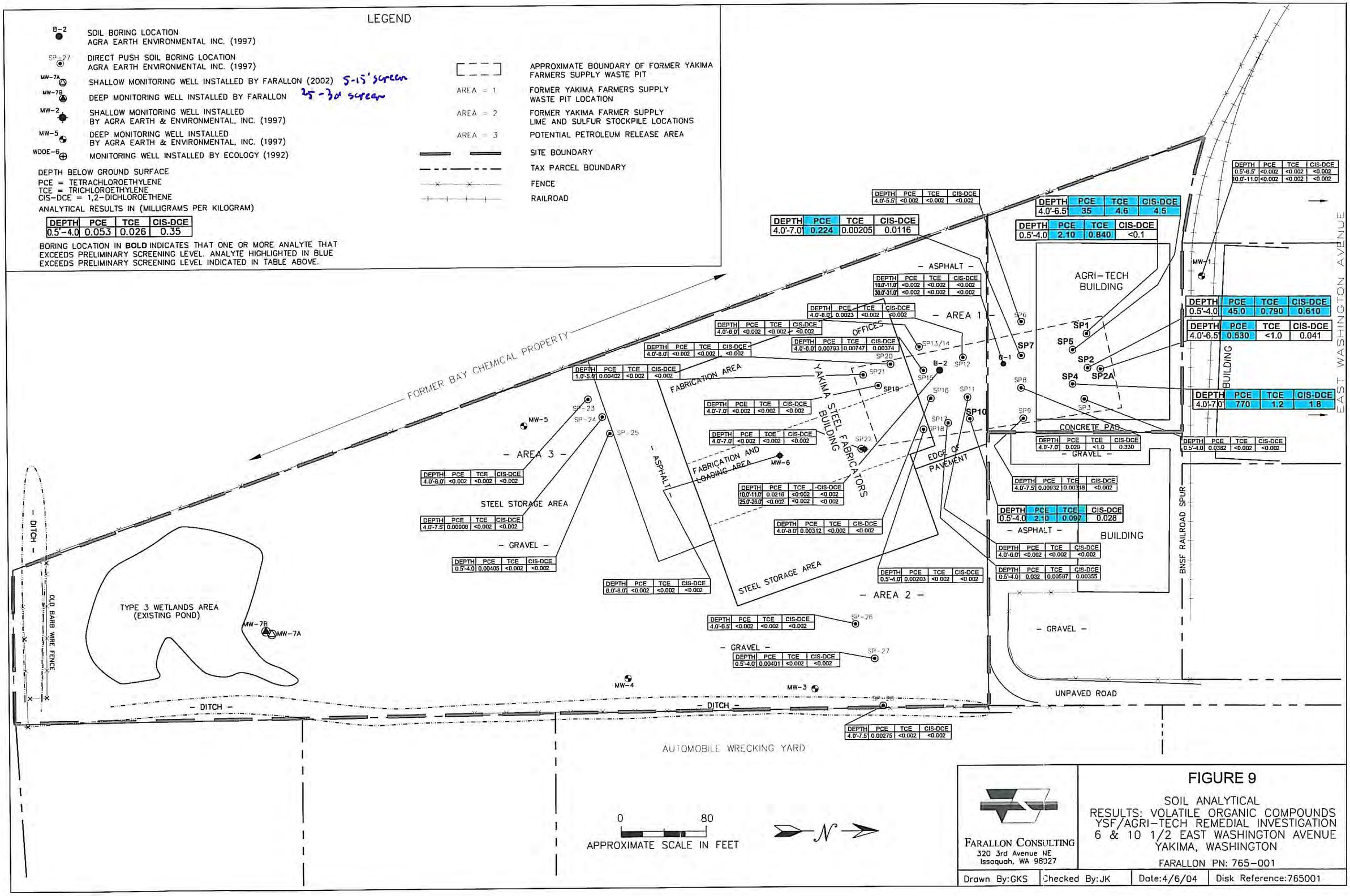
- B-2 — SOIL BORING LOCATION AGRA EARTH ENVIRONMENTAL INC. (1997)
- SP-27 — DIRECT PUSH SOIL BORING LOCATION AGRA EARTH ENVIRONMENTAL INC. (1997)
- MW-7A — SHALLOW MONITORING WELL INSTALLED BY FARALLON (2002) 5-15' screen
- MW-7B — DEEP MONITORING WELL INSTALLED BY FARALLON 25-30' screen
- MW-2 — SHALLOW MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)
- MW-5 — DEEP MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)
- WDOE-6 — MONITORING WELL INSTALLED BY ECOLOGY (1992)

DEPTH BELOW GROUND SURFACE
PCE = TETRACHLOROETHYLENE
TCE = TRICHLOROETHYLENE
CIS-DCE = 1,2-DICHLOROETHENE
ANALYTICAL RESULTS IN (MILLIGRAMS PER KILOGRAM)

DEPTH	PCE	TCE	CIS-DCE
0.5'-4.0	0.053	0.026	0.35

BORING LOCATION IN **BOLD** INDICATES THAT ONE OR MORE ANALYTE THAT EXCEEDS PRELIMINARY SCREENING LEVEL. ANALYTE HIGHLIGHTED IN BLUE EXCEEDS PRELIMINARY SCREENING LEVEL INDICATED IN TABLE ABOVE.

- APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT
- AREA = 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION
- AREA = 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS
- AREA = 3 — POTENTIAL PETROLEUM RELEASE AREA
- SITE BOUNDARY
- TAX PARCEL BOUNDARY
- FENCE
- RAILROAD



DEPTH	PCE	TCE	CIS-DCE
4.0'-5.5'	<0.002	<0.002	<0.002
4.0'-7.0'	0.224	0.00205	0.0116
10.0'-11.0'	<0.002	<0.002	<0.002
30.0'-31.0'	<0.002	<0.002	<0.002
4.0'-8.0'	0.0023	<0.002	<0.002
4.0'-8.0'	<0.002	<0.002	<0.002
4.0'-8.0'	0.00703	0.00747	0.00374
4.0'-8.0'	<0.002	<0.002	<0.002
1.0'-5.5'	0.00402	<0.002	<0.002
4.0'-7.0'	<0.002	<0.002	<0.002
4.0'-7.0'	<0.002	<0.002	<0.002
10.0'-11.0'	0.0216	<0.002	<0.002
25.0'-26.0'	<0.002	<0.002	<0.002
4.0'-8.0'	0.00312	<0.002	<0.002
4.0'-8.0'	<0.002	<0.002	<0.002
4.0'-8.0'	<0.002	<0.002	<0.002
4.0'-7.5'	0.00008	<0.002	<0.002
0.5'-4.0'	0.00405	<0.002	<0.002
8.0'-8.0'	<0.002	<0.002	<0.002
0.5'-4.0'	0.00203	<0.002	<0.002
4.0'-8.5'	<0.002	<0.002	<0.002
0.5'-4.0'	0.00401	<0.002	<0.002
4.0'-7.5'	0.00275	<0.002	<0.002
4.0'-6.5'	35	4.6	4.5
0.5'-4.0'	2.10	0.840	<0.1
0.5'-4.0'	45.0	0.790	0.610
4.0'-6.5'	0.530	<1.0	0.041
4.0'-7.0'	770	1.2	1.8
0.5'-6.5'	<0.002	<0.002	<0.002
10.0'-11.0'	<0.002	<0.002	<0.002
0.5'-4.0'	0.0382	<0.002	<0.002
4.0'-7.0'	0.029	<1.0	0.330
4.0'-7.5'	0.00932	0.00318	<0.002
0.5'-4.0'	2.10	0.097	0.028
4.0'-8.0'	<0.002	<0.002	<0.002
0.5'-4.0'	0.032	0.00587	0.00355

FIGURE 9

SOIL ANALYTICAL RESULTS: VOLATILE ORGANIC COMPOUNDS YSF/AGRI-TECH REMEDIAL INVESTIGATION 6 & 10 1/2 EAST WASHINGTON AVENUE YAKIMA, WASHINGTON

FARALLON PN: 765-001

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Issaquah, WA 98027

Drawn By:GKS	Checked By:JK	Date:4/6/04	Disk Reference:765001

LEGEND

B-2 ● SOIL BORING LOCATION
AGRA EARTH ENVIRONMENTAL INC. (1997)

SP-27 ⊙ DIRECT PUSH SOIL BORING LOCATION
AGRA EARTH ENVIRONMENTAL INC. (1997)

DEPTH= FEET BELOW GROUND SURFACE
ANALYTICAL RESULTS IN (MILLIGRAMS PER KILOGRAM)

DLD = DIELDRIN

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-6.5'	0.3354	0.4459	3.485	**0.0028**	0.0404

BORING LOCATION IN **BOLD** INDICATES THAT ONE OR MORE ANALYTE THAT EXCEEDS PRELIMINARY SCREENING LEVEL. ANALYTE HIGHLIGHTED IN BLUE EXCEEDS PRELIMINARY SCREENING LEVEL INDICATED IN TABLE ABOVE.

APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT

AREA = 1 FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION

AREA = 2 FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS

AREA = 3 POTENTIAL PETROLEUM RELEASE AREA

SITE BOUNDARY

TAX PARCEL BOUNDARY

FENCE

RAILROAD

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-5.5'	<0.050	<0.050	<0.050	<0.050	<0.050

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-7.0'	0.0685	0.193	0.104	<0.050	<0.050

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-6.5'	0.124	0.3	<0.050	**0.847**	<0.050

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
0.5'-4.0'	<0.025	<0.025	<0.025	<0.025	<0.025

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
10.0'-11.0'	<0.005	<0.005	<0.005	<0.005	<0.005
30.0'-31.0'	<0.005	<0.005	<0.005	<0.005	<0.005

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-8.0'	<0.025	<0.025	<0.025	<0.025	<0.025

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
0.5'-4.0'	0.167	0.175	0.335	**0.211**	**0.178**

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-6.5'	<0.025	<0.025	<0.025	**0.00509**	<0.025

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-6.0'	<0.050	0.132	<0.050	<0.050	<0.050

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-7.0'	**2.07**	**11.5**	1.81	**3.36**	**1.13**

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
1.0'-5.0'	<0.050	0.00841	0.0692	<0.050	<0.050

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-7.0'	<0.025	<0.025	0.00353	<0.025	<0.025

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
0.5'-4.0'	<0.025	0.00418	0.130	<0.025	<0.025

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-7.0'	<0.050	<0.050	<0.050	<0.050	<0.050

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-7.5'	<0.050	<0.050	<0.050	<0.050	<0.050

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
10.0'-11.0'	0.0388	0.0188	0.0152	<0.005	<0.005
25.0'-26.0'	<0.005	<0.005	<0.005	<0.005	<0.005

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-8.0'	<0.050	<0.050	<0.050	<0.050	<0.050

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
0.5'-4.0'	**1.50**	0.366	1.77	**0.399**	**0.101**

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-8.0'	<0.050	<0.050	<0.050	<0.050	<0.050

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
0.5'-4.0'	0.0131	0.0711	<0.050	<0.050	<0.050

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
0.5'-4.0'	<0.025	<0.025	<0.025	<0.025	<0.025

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-8.0'	<0.025	<0.025	<0.025	<0.025	<0.025

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-6.5'	0.257	<0.050	<0.050	<0.050	<0.050

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-7.5'	<0.005	<0.005	<0.005	<0.005	<0.005

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
0.5'-4.0'	<0.050	<0.050	<0.050	<0.050	<0.050

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-8.0'	<0.025	<0.025	<0.025	<0.025	<0.025

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-7.5'	<0.005	<0.005	<0.005	<0.005	<0.005

DEPTH	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-7.0'	0.094	**0.536**	<0.025	**0.060**	<0.025

DEPTH	ALDRIN	4,4-DDD	4,4-DDE	4,4-DDT	DLD	ENDRIN
4.0'-7.5'	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

FORMER BAY CHEMICAL PROPERTY
AREA 1
AREA 2
AREA 3
OFFICES
FABRICATION AREA
FABRICATION AND LOADING AREA
STEEL STORAGE AREA
– ASPHALT –
– GRAVEL –
– DITCH –
EDGE OF PAVEMENT
AGRI-TECH BUILDING
BUILDING
CONCRETE PAD
EAST WASHINGTON AVENUE
BNSF RAILROAD SPUR
UNPAVED ROAD
OLD BARB WIRE FENCE
TYPE 3 WETLANDS AREA (EXISTING POND)
AUTOMOBILE WRECKING YARD
B-1
B-2
SP1
SP2
SP2A
SP3
SP4
SP5
SP6
SP7
SP8
SP9
SP10
SP11
SP12
SP13/14
SP15
SP16
SP17
SP18
SP19
SP20
SP21
SP22
SP23
SP24
SP25
SP26
SP27
SP28

0 80
APPROXIMATE SCALE IN FEET

N

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FIGURE 10

SOIL ANALYTICAL RESULTS: PESTICIDES
YSF/AGRI-TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: GKS	Checked By: JK	Date: 4/6/04	Disk Reference: 765001

LEGEND

SP-27 — DIRECT PUSH SOIL BORING LOCATION AGRA EARTH ENVIRONMENTAL INC. (1997)

MW-6 — SHALLOW BAY CHEMICAL SITE MONITORING WELL INSTALLED BY PACIFIC GROUNDWATER GROUP (1994)

N11.5E12.3 — DIRECT PUSH SOIL BORING LOCATION BAY CHEMICAL SITE REMEDIAL INVESTIGATION (1996). SOIL BORINGS ON SITE DEPICTED ONLY

APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT

APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT

AREA = 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION

AREA = 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS

AREA = 3 — POTENTIAL PETROLEUM RELEASE AREA

SITE BOUNDARY

TAX PARCEL BOUNDARY

FENCE

RAILROAD

DEPTH	ARSENIC	CADMIUM	LEAD	MERCURY	ZINC
4.0'-8.0'	20	2	1,000	2	24,000

DEPTH= FEET BELOW GROUND SURFACE
ANALYTICAL RESULTS (MILLIGRAMS PER KILOGRAM)
-- = NOT ANALYZED
BORING LOCATION IN **BOLD** INDICATES THAT ONE OR MORE ANALYTE THAT EXCEEDS PRELIMINARY SCREENING LEVEL. ANALYTE HIGHLIGHTED IN BLUE EXCEEDS PRELIMINARY SCREENING LEVEL INDICATED IN TABLE ABOVE.

DEPTH	ARSENIC	CADMIUM	LEAD	MERCURY	ZINC
0	<29	150	12,000	6.23	14,000
2.5'	<2.3	16	640	0.453	3,900
5'	<2.2	2.3	18	0.078	640

MW-2

DEPTH	ARSENIC	CADMIUM	LEAD	MERCURY	ZINC
4.0'-8.0'	<5.0	1.65	155	<0.050	579

DEPTH	ARSENIC	CADMIUM	LEAD	MERCURY	ZINC
0	210	23	970	0.22	5,500
2.5'	110	66	4,300	1.65	16,000
5'	<68	2,000	2,300	0.123	68,000

MW-3

DEPTH	ARSENIC	CADMIUM	LEAD	MERCURY	ZINC
0	<170	510	35,500	17.4	260,000
2.5'	<170	460	29,000	14.6	260,000
5'	<110	77	8,700	1.99	43,000

DEPTH	ARSENIC	CADMIUM	LEAD	MERCURY	ZINC
0	4.6	3.8	410	0.234	1,200
7.5'	3.9	3.7	49	0.047	1,700
10'	<2.7	9.7	740	0.312	3,700
15'	7.3	5	650	0.218	1,800

MW-4

DEPTH	ARSENIC	CADMIUM	LEAD	MERCURY	ZINC
0	<140	460	28,000	0.423	290,000
2.5'	<36	330	35,000	8.4	180,000
7.5'	<1.9	30	1,700	0.357	14,000

MW-6 MW-5 MW-3 MW-2

N14.5E12.3 SP-23 SP-24 SP-25 SP-26 SP-27 SP-28

N12.5E12.5 N11.5E12.3 N10E12.3

DEPTH	ARSENIC	CADMIUM	LEAD	MERCURY	ZINC
4.0'-7.5'	3.35	23.4	<0.500	5.09	5,750

DEPTH	ARSENIC	CADMIUM	LEAD	MERCURY	ZINC
4.0'-8.0'	6.3	5.49	47.7	0.137	3,240

DEPTH	ARSENIC	CADMIUM	LEAD	MERCURY	ZINC
0	--	--	420	--	--
1.5'	--	--	140	--	--
3.5'	--	--	130	--	--
5.5'	--	--	20	--	--

DEPTH	ARSENIC	CADMIUM	LEAD	MERCURY	ZINC
0	--	--	160	--	--
1.5'	--	--	82	--	--
3.5'	--	--	28	--	--
5.5'	--	--	51	--	--

DEPTH	ARSENIC	CADMIUM	LEAD	MERCURY	ZINC
0	--	--	24,000	--	--
1.5'	--	--	1,700	--	--
3.5'	--	--	160	--	--
5.5'	--	--	44	--	--

- ASPHALT -
- AREA 1 -
- AREA 2 -
- AREA 3 -
AGRI-TECH BUILDING
BUILDING
OFFICES
FABRICATION AREA
YAKIMA STEEL FABRICATORS BUILDING
FABRICATION AND LOADING AREA
STEEL STORAGE AREA
EDGE OF PAVEMENT
CONCRETE PAD
- GRAVEL -
- ASPHALT -
BUILDING
BNSF RAILROAD SPUR
EAST WASHINGTON AVENUE
FORMER BAY CHEMICAL PROPERTY
- DITCH -
OLD BARB WIRE FENCE
TYPE 3 WETLANDS AREA (EXISTING POND)
AUTOMOBILE WRECKING YARD
UNPAVED ROAD

0 80
APPROXIMATE SCALE IN FEET

N

FIGURE 12

SOIL ANALYTICAL RESULTS: METALS
YSF/AGRI-TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

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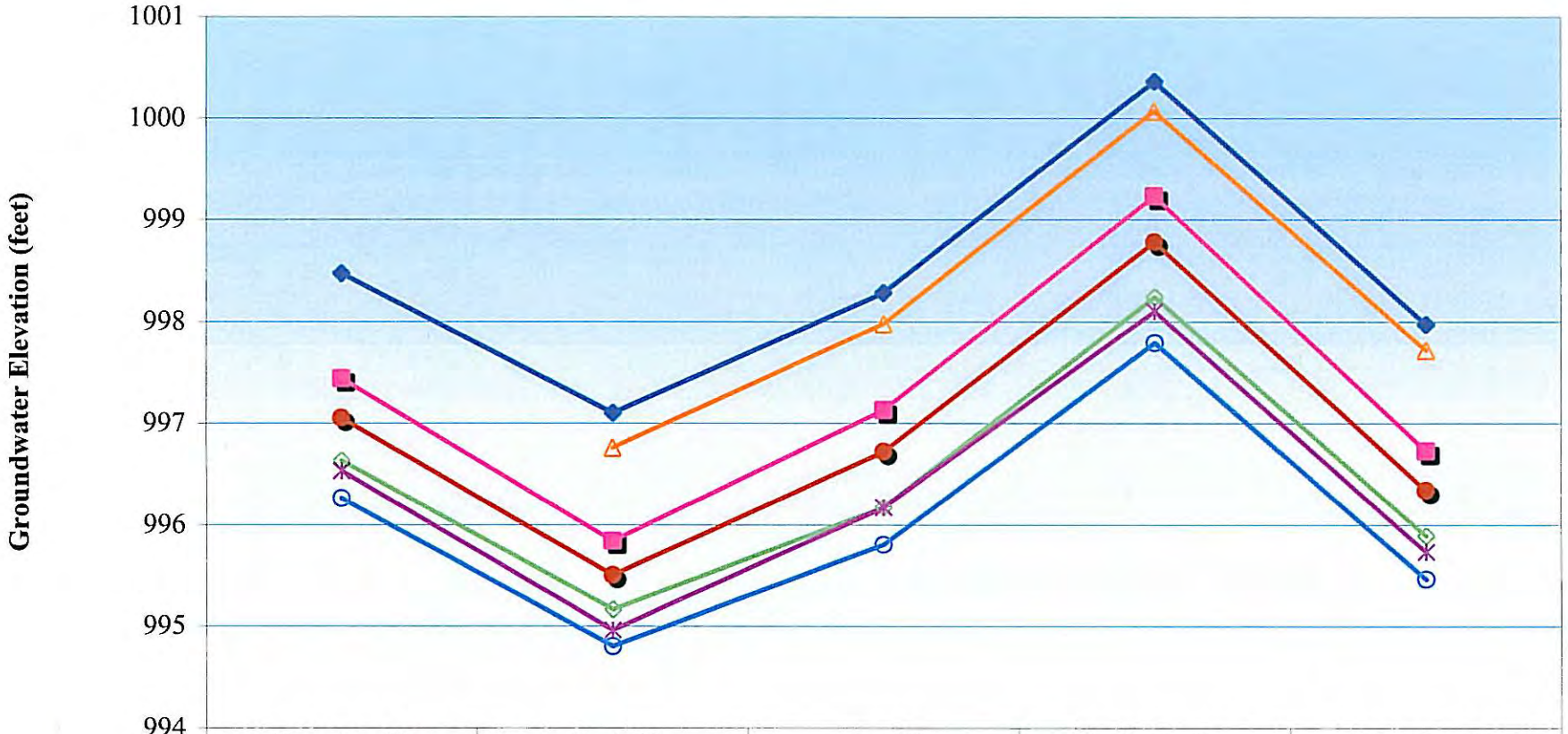
Drawn By:GKS | Checked By:JK | Date:4/6/04 | Disk Reference:765001

Figure 13- Groundwater Elevation Hydrograph
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001



	December -97	March-98	June-98	September-98	December-02
MW-1	998.47	997.10	998.28	1000.36	997.97
MW-2	997.44	995.84	997.13	999.23	996.73
MW-3	996.63	995.16	996.17	998.24	995.89
MW-4	996.26	994.80	995.80	997.79	995.46
MW-5	996.53	994.96	996.17	998.10	995.73
MW-6	997.05	995.5	996.72	998.78	996.34
WDOE-6		996.76	997.98	1000.07	997.72

LEGEND

MW-2 — SHALLOW MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)	APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT
MW-5 — DEEP MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)	AREA = 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION
WDOE-6 — MONITORING WELL INSTALLED BY ECOLOGY (1992)	AREA = 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS
(998.47) — GROUNDWATER ELEVATION IN FEET (12-3-97) RELATIVE TO NAVD 29 DATUM	AREA = 3 — POTENTIAL PETROLEUM RELEASE AREA
(NM) — NOT MEASURED	SITE BOUNDARY
998.00 — GROUNDWATER ELEVATION CONTOUR DASHED WHERE INFERRED (12-3-97)	TAX PARCEL BOUNDARY
APPROXIMATE DIRECTION OF GROUNDWATER FLOW	FENCE
	RAILROAD

FORMER BAY CHEMICAL PROPERTY

EAST WASHINGTON AVENUE

- ASPHALT -

- AREA 1 -

AGRI-TECH BUILDING

MW-1 (998.47)

998.25

998.00

997.75

997.50

997.25

998.25

WDOE-6 (NM)

998.00

CONCRETE PAD

- GRAVEL -

BUILDING

OFFICES

FABRICATION AREA

997.00

YAKIMA STEEL FABRICATORS BUILDING

FABRICATION AND LOADING AREA

MW-6 (997.05)

MW-2 (997.44)

EDGE OF PAVEMENT

997.75

997.50

998.25

997.00

998.75

- ASPHALT -

MW-5 (996.53)

998.50

- AREA 3 -

STEEL STORAGE AREA

- GRAVEL -

STEEL STORAGE AREA

- AREA 2 -

997.00

- GRAVEL -

996.75

- DITCH -

OLD BARB WIRE FENCE

TYPE 3 WETLANDS AREA (EXISTING POND)

MW-4 (996.26)

MW-3 (996.63)

- DITCH -

996.50

- DITCH -

AUTOMOBILE WRECKING YARD

- ASPHALT -

BUILDING

BNSF RAILROAD SPUR

- GRAVEL -

UNPAVED ROAD

0 80

APPROXIMATE SCALE IN FEET

N

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FIGURE 14

GROUNDWATER LEVEL
ELEVATION CONTOUR MAP (12-3-97)
YSF/AGRI-TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By:GKS	Checked By:JK	Date:6/16/03	Disk Reference:765001

LEGEND

- MW-2 — SHALLOW MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)
- MW-5 — DEEP MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)
- WDOE-6 — MONITORING WELL INSTALLED BY ECOLOGY (1992)
- (997.10) — GROUNDWATER ELEVATION IN FEET (3-3-98) RELATIVE TO NAVD 29 DATUM
- 998.00 — GROUNDWATER ELEVATION CONTOUR DASHED WHERE INFERRED (3-3-98)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT
- AREA = 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION
- AREA = 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS
- AREA = 3 — POTENTIAL PETROLEUM RELEASE AREA
- SITE BOUNDARY
- TAX PARCEL BOUNDARY
- FENCE
- RAILROAD

FORMER BAY CHEMICAL PROPERTY

EAST WASHINGTON AVENUE

- ASPHALT -

- AREA 1

AGRI-TECH BUILDING

BUILDING

OFFICES

FABRICATION AREA

YAKIMA STEEL FABRICATORS BUILDING

FABRICATION AND LOADING AREA

STEEL STORAGE AREA

- ASPHALT -

- AREA 2 -

- AREA 3 -

STEEL STORAGE AREA

- GRAVEL -

CONCRETE PAD

EDGE OF PAVEMENT

- GRAVEL -

- ASPHALT -

BUILDING

BNSF RAILROAD SPUR

- GRAVEL -

UNPAVED ROAD

- DITCH -

OLD BARB WIRE FENCE

TYPE 3 WETLANDS AREA (EXISTING POND)

- DITCH -

- DITCH -

AUTOMOBILE WRECKING YARD

MW-1 (997.10)

MW-2 (995.84)

MW-3 (995.16)

MW-4 (994.80)

MW-5 (994.96)

MW-6 (995.50)

WDOE-6 (996.76)

995.00 995.25 995.50 995.75 996.00 996.25 996.50 996.75 997.00

0 80

APPROXIMATE SCALE IN FEET

N

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FIGURE 15

GROUNDWATER LEVEL ELEVATION CONTOUR MAP (3-3-98)
YSF/AGRI-TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By:GKS	Checked By:JK	Date:6/16/03	Disk Reference:765001

LEGEND

- MW-2 — SHALLOW MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)
- MW-5 — DEEP MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)
- WDOE-6 — MONITORING WELL INSTALLED BY ECOLOGY (1992)
- (998.28) — GROUNDWATER ELEVATION IN FEET (6-3-98) RELATIVE TO NAVD 29 DATUM
- 998.00 — GROUNDWATER ELEVATION CONTOUR DASHED WHERE INFERRED (6-3-98)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT
- AREA = 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION
- AREA = 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS
- AREA = 3 — POTENTIAL PETROLEUM RELEASE AREA
- SITE BOUNDARY
- TAX PARCEL BOUNDARY
- FENCE
- RAILROAD

FORMER BAY CHEMICAL PROPERTY

EAST WASHINGTON AVENUE

- ASPHALT -

- AREA 1 -

AGRI-TECH BUILDING

OFFICES

FABRICATION AREA

YAKIMA STEEL FABRICATORS BUILDING

FABRICATION AND LOADING AREA

- ASPHALT -

EDGE OF PAVEMENT

CONCRETE PAD

- GRAVEL -

BUILDING

BNSF RAILROAD SPUR

- ASPHALT -

- AREA 3 -

STEEL STORAGE AREA

- GRAVEL -

- AREA 2

STEEL STORAGE AREA

- GRAVEL -

- GRAVEL -

UNPAVED ROAD

- DITCH -

OLD BARB WIRE FENCE

TYPE 3 WETLANDS AREA (EXISTING POND)

- DITCH -

- DITCH -

AUTOMOBILE WRECKING YARD

MW-1 (998.28)

MW-2 (997.13)

MW-4 (995.80)

MW-5 (996.17)

MW-6 (996.72)

MW-7 (996.17)

WDOE-6 (997.98)

998.25 998.00 997.75 997.50 997.25 997.00 996.75 996.50 996.25 996.00

0 80

APPROXIMATE SCALE IN FEET

N

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FIGURE 16

GROUNDWATER LEVEL
ELEVATION CONTOUR MAP (6-3-98)
YSF/AGRI-TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: GKS	Checked By: JK	Date: 6/16/03	Disk Reference: 765001

LEGEND

- MW-2 — SHALLOW MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)
- MW-5 — DEEP MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)
- WDOE-6 — MONITORING WELL INSTALLED BY ECOLOGY (1992)
- (1000.36) — GROUNDWATER ELEVATION IN FEET (9-2-98) RELATIVE TO NAVD 29 DATUM
- 998.00 — GROUNDWATER ELEVATION CONTOUR DASHED WHERE INFERRED (9-2-98)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT
- AREA = 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION
- AREA = 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS
- AREA = 3 — POTENTIAL PETROLEUM RELEASE AREA
- SITE BOUNDARY
- TAX PARCEL BOUNDARY
- FENCE
- RAILROAD

FORMER BAY CHEMICAL PROPERTY

- DITCH -

OLD BARB WIRE FENCE

TYPE 3 WETLANDS AREA (EXISTING POND)

- AREA 3 -

STEEL STORAGE AREA

- GRAVEL -

MW-5 (998.10)

998.25

998.00

- ASPHALT -

FABRICATION AREA

998.50

998.75

FABRICATION AND LOADING AREA

MW-6 (998.78)

999.00

YAKIMA STEEL FABRICATORS BUILDING

OFFICES

999.25

999.50

999.75

MW-2 (999.23)

EDGE OF PAVEMENT

- AREA 1 -

- ASPHALT -

AGRI-TECH BUILDING

1000.00

1000.25

MW-1 (1000.36)

WDOE-6 (1000.07)

CONCRETE PAD

- GRAVEL -

BUILDING

EAST WASHINGTON AVENUE

BNSF RAILROAD SPUR

STEEL STORAGE AREA

- AREA 2 -

998.75

998.50

- GRAVEL -

- ASPHALT -

BUILDING

- GRAVEL -

UNPAVED ROAD

MW-4 (997.79)

MW-3 (998.24)

- DITCH -

AUTOMOBILE WRECKING YARD

0 80

APPROXIMATE SCALE IN FEET

N

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FIGURE 17

GROUNDWATER LEVEL
ELEVATION CONTOUR MAP (9-2-98)
YSF/AGRI-TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By:GKS	Checked By:JK	Date:6/16/03	Disk Reference:765001

LEGEND

- MW-2 — SHALLOW MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)
- MW-5 — DEEP MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)
- WDOE-6 — MONITORING WELL INSTALLED BY ECOLOGY (1992)
- (997.72) — GROUNDWATER ELEVATION IN FEET (12-3/4-03) RELATIVE TO NAVD 29 DATUM
- 998.00 — GROUNDWATER ELEVATION CONTOUR DASHED WHERE INFERRED (12-3/4-02)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT
- AREA = 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION
- AREA = 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS
- AREA = 3 — POTENTIAL PETROLEUM RELEASE AREA
- SITE BOUNDARY
- TAX PARCEL BOUNDARY
- FENCE
- RAILROAD

FORMER BAY CHEMICAL PROPERTY

EAST WASHINGTON AVENUE

- DITCH -

OLD BARB WIRE FENCE

TYPE 3 WETLANDS AREA (EXISTING POND)

MW-7B (994.07)

MW-7A (994.39)

994.50

995.00

995.50

996.00

996.50

997.00

997.50

- AREA 3 -

MW-5 (995.73)

STEEL STORAGE AREA

- GRAVEL -

- AREA 1 -

- ASPHALT -

FABRICATION AREA

OFFICES

YAKIMA STEEL FABRICATORS BUILDING

FABRICATION AND LOADING AREA

MW-6 (996.34)

MW-2 (996.23)

EDGE OF PAVEMENT

STEEL STORAGE AREA

- AREA 2 -

- GRAVEL -

MW-4 (995.46)

MW-3 (995.89)

- DITCH -

AUTOMOBILE WRECKING YARD

AGRI-TECH BUILDING

MW-1 (997.97)

BUILDING

WDOE-6 (997.72)

CONCRETE PAD

- GRAVEL -

- ASPHALT -

BUILDING

BNSF RAILROAD SPUR

- GRAVEL -

UNPAVED ROAD

0 80

APPROXIMATE SCALE IN FEET

N

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320 3rd Avenue NE
Issaquah, WA 98027

FIGURE 18

GROUNDWATER LEVEL
ELEVATION CONTOUR MAP (12-3-02)
YSF/AGRI-TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: GKS	Checked By: JK	Date: 3/23/04	Disk Reference: 765001

LEGEND

MW-7A — SHALLOW MONITORING WELL INSTALLED BY FARALLON (2002) 5-15' scr

MW-7B — DEEP MONITORING WELL INSTALLED BY FARALLON 25-30' screen

MW-2 — SHALLOW MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)

MW-5 — DEEP MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)

WDOE-6 — MONITORING WELL INSTALLED BY ECOLOGY (1992)

PCE = TETRACHLOROETHYLENE
TCE = TRICHLOROETHYLENE
CIS-1,2-DCE = CIS 1,2-DICHLOROETHENE
VC = VINYL CHLORIDE
-- = NOT ANALYZED

DATE	PCE	TCE	CIS-1,2-DCE	VC
12-3-02	5	3.98	70	0.0292

BORING LOCATION IN **BOLD** INDICATES THAT ONE OR MORE ANALYTE THAT EXCEEDS PRELIMINARY SCREENING LEVEL. ANALYTE HIGHLIGHTED IN BLUE EXCEEDS PRELIMINARY SCREENING LEVEL INDICATED IN TABLE ABOVE.

APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT

AREA 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION

AREA 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS

AREA 3 — POTENTIAL PETROLEUM RELEASE AREA

SITE BOUNDARY

TAX PARCEL BOUNDARY

FENCE

RAILROAD

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

DATE	PCE	TCE	CIS-1,2-DCE	VC
12-3-97	<1.0	1.51	12.4	2.42
3-3-98	1.59	1.46	3.21	<1.0
6-3-98	<1.0	<1.0	7.13	<1.0
9-2-98	1.27	3.06	17.6	<1.0
12-4-02	<2	<2	15	<2.0

DATE	PCE	TCE	CIS-1,2-DCE	VC
5-92	420	430	270	<10
12-3-97	--	--	--	--
3-3-98	49.6	108	83.7	4.24
6-3-98	75.6	60.4	45.6	<1.0
9-2-98	20.8	18.7	11.4	<1.0
12-3-02	<2	<2	14	<2

DATE	PCE	TCE	CIS-1,2-DCE	VC
12-3-97	3.64	<1.0	<1.0	<1.0
3-3-98	3.39	<1.0	<1.0	<1.0
6-3-98	11.5	1.18	<1.0	<1.0
9-2-98	4.22	0.71	0.25	<1.0
12-3-02	6	<2	<2	<2

DATE	PCE	TCE	CIS-1,2-DCE	VC
12-3-97	3.98	1.1	1	<1.0
3-3-98	2.25	1.02	4.5	<1.0
6-3-98	2.72	<1.0	2.52	<1.0
9-2-98	2.65	0.89	2.87	<1.0
12-4-02	5	<2	<2	<2

DATE	PCE	TCE	CIS-1,2-DCE	VC
12-3-02	2	<2	12	<2

DATE	PCE	TCE	CIS-1,2-DCE	VC
12-3-02	<2	<2	4	<2

DATE	PCE	TCE	CIS-1,2-DCE	VC
12-3-97	<1.0	<1.0	7.68	<1.0
3-3-98	<1.0	<1.0	13.2	<1.0
6-3-98	<1.0	<1.0	13.3	<1.0
9-2-98	<1.0	0.33	7.08	<1.0
12-4-02	6	74	270	4

DATE	PCE	TCE	CIS-1,2-DCE	VC
12-3-97	6.06	1.07	<1.0	<1.0
3-3-98	4.44	<1.0	<1.0	<1.0
6-3-98	4.52	<1.0	<1.0	<1.0
9-2-98	5.37	0.81	0.22	<1.0
12-4-02	6	<2	<2	<2

DATE	PCE	TCE	CIS-1,2-DCE	VC
12-3-97	3.32	<1.0	5.23	<1.0
3-3-98	3.78	<1.0	1.64	<1.0
6-3-98	3.86	<1.0	3.25	<1.0
9-2-98	3.12	0.84	4.34	<1.0
12-4-02	5	<2	5	<2

FORMER BAY CHEMICAL PROPERTY
- ASPHALT -
- AREA 1 -
- AREA 2 -
- AREA 3 -
OFFICES
FABRICATION AREA
YAKIMA STEEL FABRICATORS BUILDING
FABRICATION AND LOADING AREA
STEEL STORAGE AREA
EDGE OF PAVEMENT
AGRI-TECH BUILDING
CONCRETE PAD
- GRAVEL -
BUILDING
BNSF RAILROAD SPUR
EAST WASHINGTON AVENUE
UNPAVED ROAD
- DITCH -
OLD BARB WIRE FENCE
TYPE 3 WETLANDS AREA (EXISTING POND)
STEEL STORAGE AREA
AUTOMOBILE WRECKING YARD
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7A
MW-7B
WDOE-6

0 80
APPROXIMATE SCALE IN FEET

N

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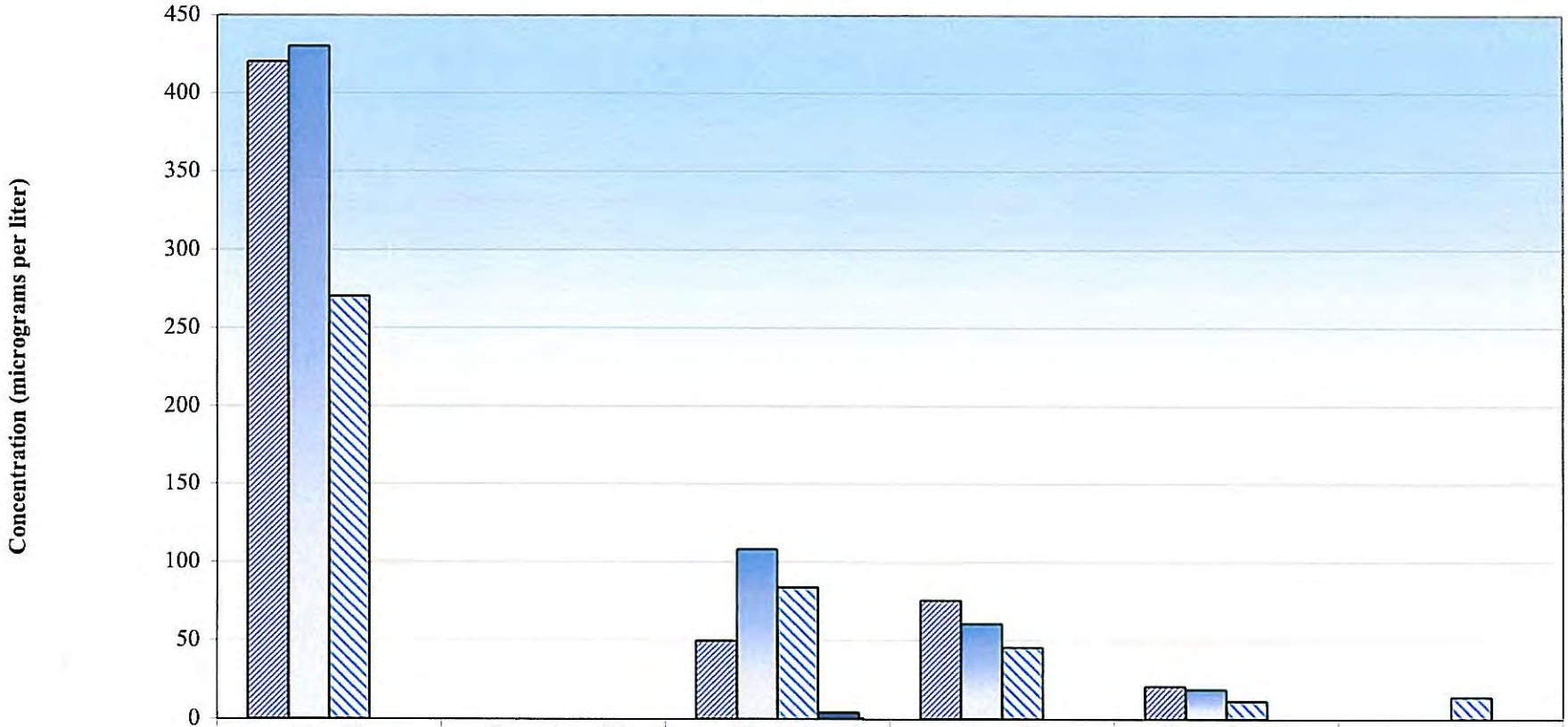
FIGURE 19

GROUNDWATER ANALYTICAL
RESULT: VOLATILE ORGANICS COMPOUNDS
YSF/AGRI-TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

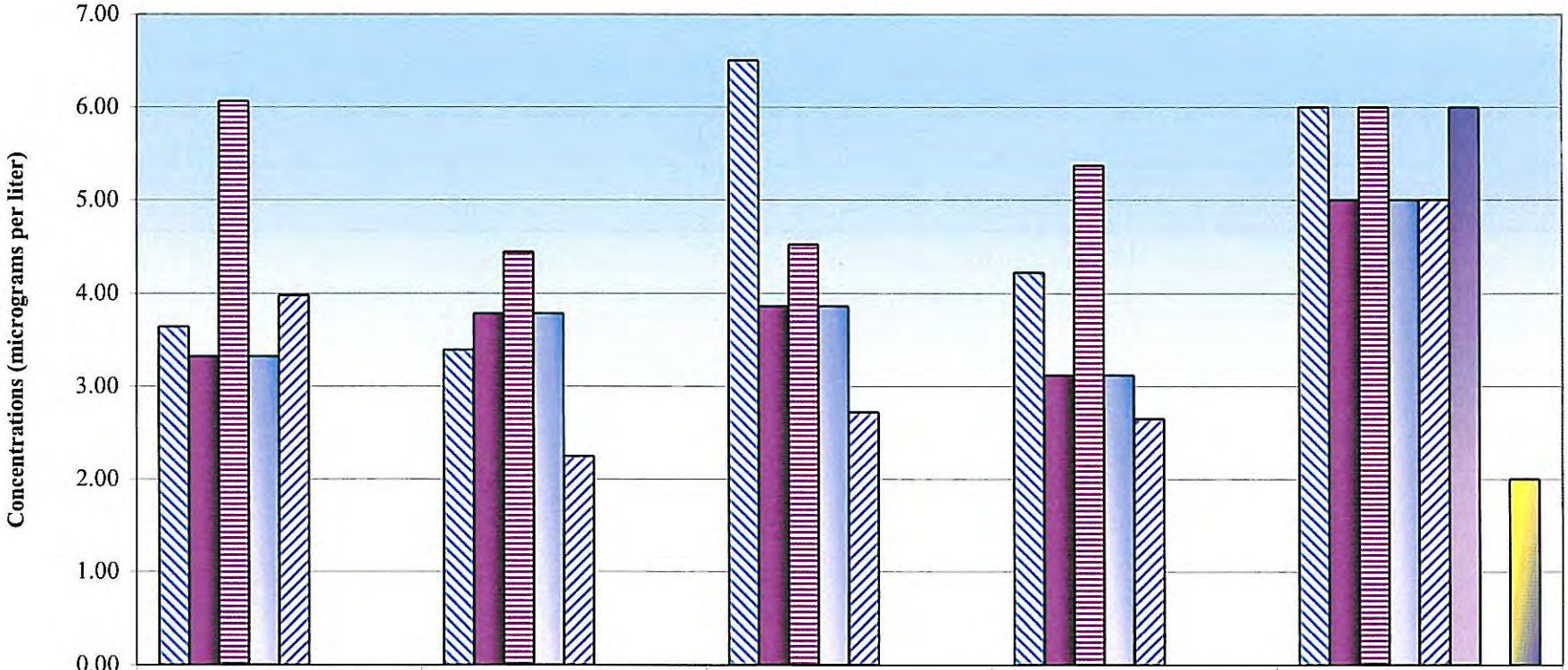
Drawn By:GKS	Checked By:JK	Date:4/6/04	Disk Reference:765001

Figure 20 - Groundwater Analytical Results: Monitoring Well WDOE-6
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001



	May-92	December -97	March-98	June-98	September-98	December-02
PCE	420		49.6	75.6	20.8	0
TCE	430		108	60.4	18.7	0
cis-1,2-DCE	270		83.7	45.6	11.4	14.0
Vinyl Chloride	0		4.24	0	0	0

Figure 21 - Groundwater Analytical Results: PCE Concentrations
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001



	December -97	March-98	June-98	September-98	December-02
MW-1	3.64	3.39	6.5	4.22	6.0
MW-2	3.32	3.78	3.86	3.12	5.0
MW-3	6.06	4.44	4.52	5.37	6.0
MW-4	3.32	3.78	3.86	3.12	5.0
MW-5	3.98	2.25	2.72	2.65	5.0
MW-6	0	0	0	0	6.0
MW-7A	0	0	0	0	0.0
MW-7B	0	0	0	0	2.0

LEGEND

MW-7A — SHALLOW MONITORING WELL INSTALLED BY FARALLON (2002)

MW-7B — DEEP MONITORING WELL INSTALLED BY FARALLON

MW-2 — SHALLOW MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)

MW-5 — DEEP MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)

WDOE-6 — MONITORING WELL INSTALLED BY ECOLOGY (1992)

4,4-DDD = HEPTACHLOR
4,4-DDE = ALPHA-BHC
-- = NOT ANALYZED

DATE	4,4'-DDD	DIELDRIN	4,4' DDE
12-3-02	0.365	0.055	0.257

BORING LOCATION IN **BOLD** INDICATES THAT ONE OR MORE ANALYTE THAT EXCEEDS PRELIMINARY SCREENING LEVEL. ANALYTE HIGHLIGHTED IN BLUE EXCEEDS PRELIMINARY SCREENING LEVEL INDICATED IN TABLE ABOVE.

APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT

AREA = 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION

AREA = 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS

AREA = 3 — POTENTIAL PETROLEUM RELEASE AREA

SITE BOUNDARY

TAX PARCEL BOUNDARY

FENCE

RAILROAD

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

DATE	4,4'-DDD	DIELDRIN	4,4' DDE
5-92	0.48	<0.50	1.1
12-3-97	--	--	--
3-3-98	<0.1	0.226	<0.1
6-3-98	0.296	0.242	0.586
9-2-98	0.1	<0.1	0.334
12-4-02	0.13	<0.05	<0.05

DATE	4,4'-DDD	DIELDRIN	4,4' DDE
12-3-97	<0.1	0.102	0.119
3-3-98	<0.1	<0.1	<0.1
6-3-98	<0.1	<0.1	<0.1
9-2-98	<0.1	<0.1	<0.1
12-4-02	<0.05	0.05	<0.05

DATE	4,4'-DDD	DIELDRIN	4,4' DDE
12-3-97	<0.1	<0.1	<0.1
3-3-98	<0.1	<0.1	<0.1
6-3-98	--	--	--
9-2-98	--	--	--
12-3-02	--	--	--

DATE	4,4'-DDD	DIELDRIN	4,4' DDE
12-3-97	<0.1	<0.1	<0.1
3-3-98	<0.1	<0.1	<0.1
6-3-98	--	--	--
9-2-98	--	--	--
12-4-02	--	--	--

DATE	4,4'-DDD	DIELDRIN	4,4' DDE
12-3-97	<0.1	<0.1	<0.1
3-3-98	<0.1	<0.1	<0.1
6-3-98	--	--	--
9-2-98	<0.1	<0.1	<0.1
12-4-02	--	--	--

DATE	4,4'-DDD	DIELDRIN	4,4' DDE
12-3-97	<0.1	<0.1	<0.1
3-3-98	<0.1	<0.1	<0.1
6-3-98	--	--	--
9-2-98	--	--	--
12-4-02	--	--	--

DATE	4,4'-DDD	DIELDRIN	4,4' DDE
12-3-97	<0.1	<0.1	<0.1
3-3-98	<0.1	<0.1	<0.1
6-3-98	--	--	--
9-2-98	--	--	--
12-4-02	--	--	--

DATE	4,4'-DDD	DIELDRIN	4,4' DDE
12-3-97	<0.1	<1.0	<0.1
3-3-98	<0.1	<1.0	<0.1
6-3-98	<0.1	<1.0	<0.1
9-2-98	<0.1	<1.0	<0.1
12-4-02	--	--	--

DATE	4,4'-DDD	DIELDRIN	4,4' DDE
12-3-02	--	--	--

DATE	4,4'-DDD	DIELDRIN	4,4' DDE
12-3-02	--	--	--

FORMER BAY CHEMICAL PROPERTY

- ASPHALT -

- AREA 1 -

AGRI-TECH BUILDING

OFFICES

FABRICATION AREA

YAKIMA STEEL FABRICATORS BUILDING

FABRICATION AND LOADING AREA

MW-1

MW-2

MW-6

WDOE-6

CONCRETE PAD

EDGE OF PAVEMENT

- GRAVEL -

BUILDING

EAST WASHINGTON AVENUE

BNSF RAILROAD SPUR

- ASPHALT -

BUILDING

- GRAVEL -

UNPAVED ROAD

MW-5

- AREA 3 -

STEEL STORAGE AREA

- GRAVEL -

- DITCH -

OLD BARB WIRE FENCE

TYPE 3 WETLANDS AREA (EXISTING POND)

MW-7B

MW-7A

- AREA 2 -

- GRAVEL -

MW-4

MW-3

- DITCH -

- DITCH -

AUTOMOBILE WRECKING YARD

0 80

APPROXIMATE SCALE IN FEET

N

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FIGURE 22

GROUNDWATER ANALYTICAL RESULTS: PESTICIDES
YSF/AGRI-TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: GKS	Checked By: JK	Date: 4/6/04	Disk Reference: 765001

LEGEND

MW-7A — SHALLOW MONITORING WELL INSTALLED BY FARALLON (2002)

MW-7B — DEEP MONITORING WELL INSTALLED BY FARALLON

MW-2 — SHALLOW MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)

MW-5 — DEEP MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)

WDOE-6 — MONITORING WELL INSTALLED BY ECOLOGY (1992)

DATE	DRO	ORO	cPAHs
3/3/98	500	500	0.012

DRO = DIESEL RANGE ORGANICS
ORO = OIL RANGE ORGANICS
cPAHs = CARCINOGENIC POLYAROMATIC HYDROCARBONS
ANALYTICAL RESULTS (MICROGRAMS PER LITER)
PRELIMINARY SCREENING LEVEL INDICATED IN TABLE ABOVE.

APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT

AREA = 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION

AREA = 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS

AREA = 3 — POTENTIAL PETROLEUM RELEASE AREA

SITE BOUNDARY

TAX PARCEL BOUNDARY

FENCE

RAILROAD

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

FORMER BAY CHEMICAL PROPERTY

- ASPHALT -

- AREA 1 -

AGRI-TECH BUILDING

MW-1

EAST WASHINGTON AVENUE

OFFICES

FABRICATION AREA

YAKIMA STEEL FABRICATORS BUILDING

FABRICATION AND LOADING AREA

MW-6

MW-2

WDOE-6

CONCRETE PAD

EDGE OF PAVEMENT

- GRAVEL -

BUILDING

BNSF RAILROAD SPUR

MW-5

DATE	DRO	ORO	cPAHs
3/3/98	<0.25	<0.50	<0.1

- AREA 3 -

STEEL STORAGE AREA

- GRAVEL -

- DITCH -

OLD BARB WIRE FENCE

TYPE 3 WETLANDS AREA (EXISTING POND)

MW-7B

MW-7A

- GRAVEL -

- AREA 2 -

STEEL STORAGE AREA

- ASPHALT -

BUILDING

- GRAVEL -

UNPAVED ROAD

MW-4

MW-3

- DITCH -

- DITCH -

AUTOMOBILE WRECKING YARD

0 80

APPROXIMATE SCALE IN FEET

N

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Issaquah, WA 98027

FIGURE 23

GROUNDWATER ANALYTICAL
RESULT: PETROLEUM HYDROCARBONS
YSF/AGRI-TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: GKS	Checked By: JK	Date: 3/23/04	Disk Reference: 765001

LEGEND

MW-7A — SHALLOW MONITORING WELL INSTALLED BY FARALLON (2002)

MW-7B — DEEP MONITORING WELL INSTALLED BY FARALLON

MW-2 — SHALLOW MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)

MW-5 — DEEP MONITORING WELL INSTALLED BY AGRA EARTH & ENVIRONMENTAL, INC. (1997)

WDOE-6 — MONITORING WELL INSTALLED BY ECOLOGY (1992)

APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT

AREA = 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION

AREA = 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS

AREA = 3 — POTENTIAL PETROLEUM RELEASE AREA

SITE BOUNDARY

TAX PARCEL BOUNDARY

FENCE

RAILROAD

DATE	Alk	Cl^-	SO_4	SO_2	NO_3	P	TOC	Fe^{3+}	CH_4	Eth
12/3/97	188	--	52	--	--	--	--	--	--	--

Alk = ALKANLINITY
Cl^- = CHLORIDE
SO_4 = SULFATE
SO_2 = SULFIDE
NO_3 = NITRATE
P = TOTAL PHOSPHATE
TOC = TOTAL ORGANIC CARBON
Fe^{3+} = FERROUS IRON
CH_4 = METHANE
Eth = ETHENE
-- = NOT ANALYZED

DATE	Alk	Cl^-	SO_4	SO_2	NO_3	P	TOC	Fe^{3+}	CH_4	Eth
12/3/97	144	--	81.3	--	--	--	--	--	--	--
3/3/98	96.3	--	25.4	--	--	--	--	--	--	--
6/3/98	96	--	20.6	--	--	--	--	--	--	--
9/2/98	102	--	61.1	--	--	--	--	--	--	--
12/3/02	74	12	25	<0.050	2.9	0.2	1.1	0.088	<0.01	<0.01

DATE	Alk	Cl^-	SO_4	SO_2	NO_3	P	TOC	Fe^{3+}	CH_4	Eth
12/3/97	166	--	134	--	--	--	--	--	--	--
3/3/98	116	--	35.1	--	--	--	--	--	--	--
6/3/98	104	--	59.5	--	--	--	--	--	--	--
9/2/98	84	--	758	--	--	--	--	--	--	--
12/4/02	79	12	46	<0.050	<0.010	0.57	1.8	0.19	0.02	<0.01

DATE	Alk	Cl^-	SO_4	SO_2	NO_3	P	TOC	Fe^{3+}	CH_4	Eth
12/3/97	155	--	86.1	--	--	--	--	--	--	--
3/3/98	114	--	50.3	--	--	--	--	--	--	--
6/3/98	103	--	61.9	--	--	--	--	--	--	--
9/2/98	104	--	91.7	--	--	--	--	--	--	--
12/4/02	74	12	42	<0.050	2	0.11	0.75	0.044	<0.01	<0.01

DATE	Alk	Cl^-	SO_4	SO_2	NO_3	P	TOC	Fe^{3+}	CH_4	Eth
12/3/02	--	--	--	--	--	--	--	--	--	--

DATE	Alk	Cl^-	SO_4	SO_2	NO_3	P	TOC	Fe^{3+}	CH_4	Eth
12/3/02	210	16	130	<0.050	0.011	0.068	4.5	0.035	0.12	<0.01

DATE	Alk	Cl^-	SO_4	SO_2	NO_3	P	TOC	Fe^{3+}	CH_4	Eth
12/3/97	180	--	81.4	--	--	--	--	--	--	--
3/3/98	115	--	68.1	--	--	--	--	--	--	--
6/3/98	99	--	82.7	--	--	--	--	--	--	--
9/2/98	124	--	147	--	--	--	--	--	--	--
12/4/02	81	12	61	<0.050	0.027	0.12	0.79	0.46	0.11	<0.01

DATE	Alk	Cl^-	SO_4	SO_2	NO_3	P	TOC	Fe^{3+}	CH_4	Eth
3/3/98	85.5	--	209	--	--	--	--	--	--	--
6/3/98	79	--	74.8	--	--	--	--	--	--	--
9/2/98	97	--	95.6	--	--	--	--	--	--	--
12/3/02	78	14	57	0.2	0.019	0.091	2	4.1	0.04	<0.01

DATE	Alk	Cl^-	SO_4	SO_2	NO_3	P	TOC	Fe^{3+}	CH_4	Eth
12/3/97	188	--	52	--	--	--	--	--	--	--
3/3/98	113	--	23.1	--	--	--	--	--	--	--
6/3/98	110	--	26	--	--	--	--	--	--	--
9/2/98	110	--	55.2	--	--	--	--	--	--	--
12/4/02	79	12	34	<0.050	2.3	0.12	1.8	0.039	<0.01	<0.01

DATE	Alk	Cl^-	SO_4	SO_2	NO_3	P	TOC	Fe^{3+}	CH_4	Eth
12/3/97	156	--	21.1	--	--	--	--	--	--	--
3/3/98	110	--	18.2	--	--	--	--	--	--	--
6/3/98	102	--	17.4	--	--	--	--	--	--	--
9/2/98	108	--	32.4	--	--	--	--	--	--	--
12/4/02	--	--	--	--	--	--	--	--	--	--

FORMER BAY CHEMICAL PROPERTY
– AREA 3 –
– DITCH –
OLD BARB WIRE FENCE
TYPE 3 WETLANDS AREA (EXISTING POND)
MW-7B
MW-7A
MW-5
MW-4
MW-3
– DITCH –
– DITCH –
STEEL STORAGE AREA
– GRAVEL –
– GRAVEL –
– ASPHALT –
FABRICATION AREA
OFFICES
YAKIMA STEEL FABRICATORS BUILDING
FABRICATION AND LOADING AREA
MW-6
MW-2
EDGE OF PAVEMENT
– ASPHALT –
STEEL STORAGE AREA
– AREA 2 –
– GRAVEL –
AUTOMOBILE WRECKING YARD
– ASPHALT –
– AREA 1 –
AGRI-TECH BUILDING
MW-1
WDOE-6
CONCRETE PAD
– GRAVEL –
BUILDING
BNSF RAILROAD SPUR
– GRAVEL –
UNPAVED ROAD
EAST WASHINGTON AVENUE
BUILDING
0
80
APPROXIMATE SCALE IN FEET
N

FARALLON CONSULTING
320 3rd Avenue NE
Issaquah, WA 98027

FIGURE 24

SITE PLAN WITH GROUNDWATER ANALYTICAL RESULTS: NATURAL ATTENUATION PARAMETERS
YSF/AGRI-TECH REMEDIAL INVESTIGATION
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: GKS	Checked By: JK	Date: 6/16/03	Disk Reference: 765001

Table 1
Summary of Soil Analytical Results - Volatile Organic Compounds
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Sample Number	Date Sampled	Depth[1] (feet)	Soil Analytical Results (milligrams per kilogram)															
			Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	4-Isopropyltoluene	n-Propylbenzene	Acetone	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Carbon Disulfide	1,2-Dichloropropane	MEK	PCE	TCE	1,1-Dichloroethene	(cis) 1,2-Dichloroethene
Washington State Department of Ecology (1992), Monitoring Well Boring WDOE-6																		
468110 (WDOE-6)	Nov-92	10	**0.0035**	**0.0072**		<0.0014	NA	NA	**0.022**	NA	NA	**0.0019**	**0.002**	<0.0027	**2.2**	**0.67**	<0.0014	**0.17**
PLSA Engineering (1993), Test Pits TP-1 through TP-4																		
YSF-1 (TP-1)	May-93	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.25	NA	NA	NA
YSF-2 (TP-1)	May-93	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	NA	NA	NA
YSF-3 (TP-1)	May-93	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.25	NA	NA	NA
YSF-4 (TP-2)	May-93	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.13**	NA	NA	NA
YSF-5 (TP-3)	May-93	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.25	NA	NA	NA
YSF-6 (TP-4)	May-93	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	NA	NA	NA
Ecology Duplicates of PLSA Test Pit Soil Samples (1993)																		
YSF-1 (TP-1)	May-93	4	<0.13	<0.13	<0.13	**0.002**	NA	NA	<0.13	NA	NA	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
YSF-2 (TP-1)	May-93	5	<0.011	<0.011	<0.011	<0.011	NA	NA	**0.018**	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
YSF-3 (TP-1)	May-93	8	<0.13	<0.13	<0.13	**0.002**	NA	NA	**0.11**	NA	NA	**0.008**	<0.13	**0.022**	<0.13	<0.13	<0.13	<0.13
YSF-4 (TP-2)	May-93	4.5	**0.001**	**0.005**		<0.13	NA	NA	**0.17**	NA	NA	**0.011**	**0.007**	<0.13	**0.003**	**0.003**	<0.13	**0.022**
YSF-5 (TP-3)	May-93	6	<0.13	<0.13	<0.13	<0.13	NA	NA	**0.019**	NA	NA	**0.008**	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
YSF-6 (TP-4)	May-93	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Preliminary Screening Level[2]			**6.048**	**9.144**	**9.144**	**7.271**	**NA**	**NA**	**3.21**	**NA**	**NA**	**5.65**	**0.0031**	**22**	**0.0530**	**0.026**	**0.0005**	**0.35**

Table 1
Summary of Soil Analytical Results - Volatile Organic Compounds
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Sample Number	Date Sampled	Depth[1] (feet)	Soil Analytical Results (milligrams per kilogram)															
			Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	4-Isopropyltoluene	n-Propylbenzene	Acetone	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Carbon Disulfide	1,2-Dichloropropane	MEK	PCE	TCE	1,1-Dichloroethene	(cis) 1,2-Dichloroethene
AGRA Earth & Environmental Inc. (1997)																		
Area 1: Former Yakima Farmer Supply Waste Pit Area																		
SP1-4	10/21/1997	0.5-4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<2.0	<1.0	<1.0	<0.1	<0.1	<1.0	**2.1**	**0.840**	<0.1	<0.1
SP2-4	10/21/1997	0.5-4.0	**0.078**	**0.056**	**0.030**	<0.1	<0.1	<0.1	<2.0	<1.0	<1.0	<0.1	<0.1	<1.0	**45.0**	**0.790**	<0.1	**0.610**
SP2A-6.5	10/21/1997	4.0-6.5	**0.030**	**0.024**	<0.1	<0.1	<0.1	<0.1	<2.0	<1.0	<1.0	<0.1	<0.1	<1.0	**0.530**	<1.0	<0.1	**0.041**
SP3-4	10/21/1997	0.5-4.0	<0.002	**0.00274**	<0.002	**0.0021**	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	**0.0382**	<0.002	<0.002	<0.002
SP4-7	10/21/1997	4.0-7.0	**0.078**	**0.310**	**0.110**	**0.038**	<0.1	**0.088**	<2.0	**0.30**	**0.11**	<0.1	<0.1	<1.0	**770**	**1.20**	**0.029**	**1.80**
SP5-6.5	10/21/1997	4.0-6.5	**4.0**	**0.490**	**0.036**	<0.1	**0.031**	<0.1	<2.0	**0.052**	**0.052**	<0.1	<0.1	<1.0	**35.0**	**4.60**	<0.1	**4.50**
SP6-5.5	10/21/1997	4.0-5.5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	<0.002	<0.002	<0.002	<0.002
SP7-7	10/21/1997	4.0-7.0	<0.002	**0.00537**	**0.00259**	<0.002	<0.002	<0.002	**0.056**	**0.00278**	<0.002	**0.010**	**0.00332**	<0.020	**0.0224**	**0.00205**	<0.002	**0.0116**
SP8-7	10/21/1997	4.0-7.0	<0.1	<0.1	<0.1	**0.036**	<0.1	<0.1	<2.0	<1.0	<1.0	<0.1	<0.1	<1.0	**0.0290**	<1.0	<0.1	**0.330**
SP9-7.5	10/21/1997	4.0-7.5	<0.002	**0.00359**	<0.002	**0.00338**	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	**0.00932**	**0.00318**	<0.002	<0.002
SP10-4	10/21/1997	0.5-4	<0.1	**0.032**	<0.1	**0.084**	<0.1	<0.1	<0.04	<1.0	<1.0	<2.0	<0.1	<1.0	**2.1**	**0.097**	<0.1	**0.028**
SP11-6	10/22/1997	4.0-6.0	**0.0020**	**0.00752**	**0.00362**	**0.0062**	<0.002	<0.002	**0.0526**	**0.00371**	<0.002	<0.002	<0.002	<0.020	<0.002	<0.002	<0.002	<0.002
SP12-8	10/22/1997	4.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	**0.0023**	<0.002	<0.002	<0.002
SP13/14-6	10/22/1997	4.0-6.0	<0.002	**0.00612**	**0.00312**	**0.00341**	<0.002	<0.002	<0.04	**0.00239**	<0.002	<0.002	<0.002	<0.020	<0.002	<0.002	<0.002	<0.002
SP15-6	10/22/1997	4.0-6.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.0426**	<0.002	<0.002	<0.002	<0.002	<0.020	**0.00793**	**0.00747**	<0.002	**0.00374**
SP16-8	10/22/1997	4.0-8.0	<0.002	**0.00338**	<0.002	<0.002	<0.002	<0.002	<0.04	**0.00211**	<0.002	<0.002	<0.002	<0.020	**0.00312**	<0.002	<0.002	<0.002
SP17-4	10/22/1997	0.5-4.0	<0.002	**0.00540**	**0.00253**	**0.00587**	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	**0.0322**	**0.00597**	<0.002	**0.00355**
Preliminary Screening Level[2]			**6.048**	**9.144**	**9.144**	**7.271**	**NA**	**NA**	**3.21**	**NA**	**NA**	**5.65**	**0.0031**	**22**	**0.0530**	**0.026**	**0.0005**	**0.35**

Table 1
Summary of Soil Analytical Results - Volatile Organic Compounds
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Sample Number	Date Sampled	Depth[1] (feet)	Soil Analytical Results (milligrams per kilogram)															
			Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	4-Isopropyltoluene	n-Propylbenzene	Acetone	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Carbon Disulfide	1,2-Dichloropropane	MEK	PCE	TCE	1,1-Dichloroethene	(cis) 1,2-Dichloroethene
SP18-4	10/22/1997	0.5-4.0	<0.002	**0.00333**	<0.002	**0.00291**	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	**0.00203**	<0.002	<0.002	<0.002
SP19-7	10/22/1997	4.0-7.0	<0.002	**0.00384**	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	<0.002	<0.002	<0.002	<0.002
SP20-8	10/22/1997	4.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	<0.002	<0.002	<0.002	<0.002
SP21-5	10/22/1997	1.0-5.0	**0.00240**	**0.00520**	**0.00461**	**0.00618**	<0.002	<0.002	<0.04	**0.00216**	<0.002	<0.002	<0.002	<0.020	**0.00402**	<0.002	<0.002	<0.002
SP22-7	10/22/1997	4.0-7.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	<0.002	<0.002	<0.002	<0.002
MW1-5	10/23/1997	5.0-6.5	<0.002	**0.00245**	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	<0.002	<0.002	<0.002	<0.002
MW1-10	10/23/1997	10.0-11.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	<0.002	<0.002	<0.002	<0.002
MW6-6	10/24/1997	6.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	<0.002	<0.002	<0.002	<0.002
B1-10	10/28/1997	10.0-11.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	**0.00385**	<0.002	<0.020	<0.002	<0.002	<0.002	<0.002
B1-30	10/28/1997	30.0-31.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	<0.002	<0.002	<0.002	<0.002
B2-10	10/28/1997	10.0-11.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	**0.0216**	<0.002	<0.002	<0.002
B2-25	10/28/1997	25.0-26.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	<0.002	<0.002	<0.002	<0.002
Area 2: Former Yakima Farmer Supply Lime and Sulfur Stockpile Locations																		
SP23-8	10/22/1997	4.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	<0.002	<0.002	<0.002	<0.002
SP24-7.5	10/22/1997	4.0-7.5	**0.00733**	**0.0254**	**0.0118**	**0.0256**	<0.002	**0.00316**	**0.150**	**0.00945**	**0.00514**	**0.00525**	<0.002	<0.020	**0.00908**	<0.002	<0.002	<0.002
SP25-4	10/22/1997	0.5-4.0	**0.00379**	**0.0133**	**0.00536**	**0.0132**	<0.002	<0.002	**0.124**	**0.0043**	**0.00214**	<0.002	<0.002	**0.0233**	**0.00405**	<0.002	<0.002	<0.002
Area 3: Potential Petroleum Release Area																		
SP26-6.5	10/22/1997	4.0-6.5	<0.002	**0.00303**	<0.002	**0.00287**	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	<0.002	<0.002	<0.002	<0.002
SP27-7.5	10/22/1997	4.0-7.5	<0.002	**0.00471**	**0.00238**	**0.00351**	<0.002	<0.002	**0.0597**	**0.00347**	<0.002	<0.002	<0.002	<0.020	**0.00401**	<0.002	<0.002	<0.002
SP28-7.5	10/22/1997	4.0-7.5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	<0.020	**0.00275**	<0.002	<0.002	<0.002
Preliminary Screening Level[2]			**6.048**	**9.144**	**9.144**	**7.271**	**NA**	**NA**	**3.21**	**NA**	**NA**	**5.65**	**0.0031**	**22**	**0.0530**	**0.026**	**0.0005**	**0.35**

Table 1
Summary of Soil Analytical Results - Volatile Organic Compounds
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Sample Number	Date Sampled	Depth[1] (feet)	Soil Analytical Results (milligrams per kilogram)															
			Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	4-Isopropyltoluene	n-Propylbenzene	Acetone	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Carbon Disulfide	1,2-Dichloropropane	MEK	PCE	TCE	1,1-Dichloroethene	(cis) 1,2-Dichloroethene
Farallon Consulting, L.L.C. (2002), Monitoring Well Borings MW-7A and MW-7B																		
Drum 1 (MW-7A)	11/21/2002	0 -15	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Drum 3 (MW-7B)	11/22/2002	15-25	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Drum 4 (MW-7B)	11/22/2002	25-32	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Preliminary Screening Level[2]			**6.048**	**9.144**	**9.144**	**7.271**	**NA**	**NA**	**3.21**	**NA**	**NA**	**5.65**	**0.0031**	**22**	**0.0530**	**0.026**	**0.0005**	**0.35**

NOTE:

All volatile organic compounds analyzed by EPA Method 8240 (PLSA), SW-846 (Ecology), or EPA Method 8260B (AGRA & Farallon).

BOLD indicates detection above laboratory practical quantitation limit.

Concentration highlighted exceeds preliminary screening level.

< denotes concentration of compound is not above the laboratory practical quantitation limit indicated.

MEK = methyl ethyl ketone

NA = not applicable/not analyzed

PCE = tetrachloroethene

TCE = trichloroethene

[1]Depth below ground surface in feet.

[2]Preliminary screening level has been selected for preliminary evlauation of analytical data for the Remedial Investigation only.

Table 2
Summary of Soil Analytical Results - Pesticides and Polychlorinated Biphenyls
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Sample Number	Date Sampled	Depth[1] (feet)	Analytical Results (milligrams per kilogram)											
			Aldrin[2]	alpha-Chlordane[2]	4,4-DDD[2]	4,4-DDE[2]	4,4-DDT[2]	Dieldrin[2]	Endosulfan I[2]	Endosulfan II[2]	Endosulfan sulfate[2]	Endrin[2]	Heptachlor epoxide[2]	PCBs[3]
Washington State Department of Ecology (1992), Monitoring Well Boring WDOE-6														
468110 (WDOE-6)	Nov-92	5	<0.0016	<0.0016	**0.0021**	**0.0044**	<0.0032	**0.0021**	<0.0016	<0.0016	**0.009**	<0.0032	<0.0016	NA
PLSA Engineering (1993), Test Pits TP-1 through TP-4														
YSF-1 (TP-1)	May-93	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
YSF-2 (TP-1)	May-93	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
YSF-3 (TP-1)	May-93	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
YSF-4 (TP-2)	May-93	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
YSF-5 (TP-3)	May-93	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
YSF-6 (TP-4)	May-93	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ecology Duplicates of PLSA Test Pit Soil Samples (1993)														
YSF-1 (TP-1)	May-93	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
YSF-2 (TP-1)	May-93	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
YSF-3 (TP-1)	May-93	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
YSF-4 (TP-2)	May-93	4.5	<0.004	<0.004	**0.27**	**3.70**	**0.14**	**0.13**	<0.004	<0.004	<0.004	**0.046**	**0.019**	NA
YSF-5 (TP-3)	May-93	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
YSF-6 (TP-4)	May-93	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AGRA Earth & Environmental Inc. (1997)														
Area 1: Former Yakima Farmer Supply Waste Pit Area														
SP1-4	10/21/1997	0.5-4.0	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	ND
SP2-4	10/21/1997	0.5-4.0	<0.050	**0.564**	**0.167**	**0.175**	**0.335**	**0.211**	<0.050	**0.443**	**0.147**	**0.178**	<0.050	ND
SP2A-6.5	10/21/1997	4.0-6.5	<0.025	<0.025	<0.025	<0.025	<0.025	**0.0509**	<0.025	<0.025	<0.025	<0.025	<0.025	ND
Preliminary Screening Level[4]			**0.00503**	**0.258**	**0.335**	**0.446**	**3.485**	**0.0028**	**4.301**	**4.301**	**4.301**	**0.0404**	**0.0161**	**10**

Table 2
Summary of Soil Analytical Results - Pesticides and Polychlorinated Biphenyls
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Sample Number	Date Sampled	Depth[1] (feet)	Analytical Results (milligrams per kilogram)											
			Aldrin[2]	alpha-Chlordane[2]	4,4-DDD[2]	4,4-DDE[2]	4,4-DDT[2]	Dieldrin[2]	Endosulfan I[2]	Endosulfan II[2]	Endosulfan sulfate[2]	Endrin[2]	Heptachlor epoxide[2]	PCBs[3]
SP3-4	10/21/1997	0.5-4.0	<0.025	<0.025	<0.025	**0.0418**	**0.130**	<0.025	<0.025	**0.0499**	<0.025	<0.025	<0.025	ND
SP4-7	10/21/1997	4.0-7.0	**0.635**	**0.939**	**2.07**	**11.5**	**1.81**	**3.36**	<0.100	<0.500	<0.100	**1.13**	**0.590**	ND
SP5-6.5	10/21/1997	4.0-6.5	<0.050	<0.050	**0.124**	**0.30**	<0.050	**0.847**	<0.050	**0.146**	<0.050	<0.050	<0.050	ND
SP6-5.5	10/21/1997	4.0-5.5	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	ND
SP7-7	10/21/1997	4.0-7.0	<0.050	<0.050	**0.0685**	**0.193**	**0.104**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	ND
SP8-7	10/21/1997	4.0-7.0	<0.025	<0.025	**0.094**	**0.536**	<0.025	**0.060**	<0.025	<0.025	<0.025	<0.025	<0.025	ND
SP9-7.5	10/21/1997	4.0-7.5	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	ND
SP10-4	10/21/1997	0.5-4	<0.050	<0.050	**1.50**	**0.366**	**1.77**	**0.399**	**0.306**	<0.500	**0.165**	**0.101**	<0.050	ND
SP11-6	10/22/1997	4.0-6.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	ND
SP12-8	10/22/1997	4.0-8.0	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	ND
SP13/14-6	10/22/1997	4.0-6.0	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	ND
SP15-6	10/22/1997	4.0-6.0	<0.050	<0.050	<0.050	**0.132**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	ND
SP16-8	10/22/1997	4.0-8.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	ND
SP17-4	10/22/1997	0.5-4.0	<0.050	<0.050	**0.131**	**0.0711**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	ND
SP18-4	10/22/1997	0.5-4.0	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	ND
SP19-7	10/22/1997	4.0-7.0	<0.025	<0.025	<0.025	<0.025	**0.0353**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	ND
SP20-8	10/22/1997	4.0-8.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	ND
SP21-5	10/22/1997	1.0-5.0	<0.050	<0.050	<0.050	**0.0641**	**0.0892**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	ND
SP22-7	10/22/1997	4.0-7.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	ND
B1-10	10/28/1997	10.0-11.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND
Preliminary Screening Level[4]			**0.00503**	**0.258**	**0.335**	**0.446**	**3.485**	**0.0028**	**4.301**	**4.301**	**4.301**	**0.0404**	**0.0161**	**10**

Table 2
Summary of Soil Analytical Results - Pesticides and Polychlorinated Biphenyls
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Sample Number	Date Sampled	Depth[1] (feet)	Analytical Results (milligrams per kilogram)											
			Aldrin[2]	alpha-Chlordane[2]	4,4-DDD[2]	4,4-DDE[2]	4,4-DDT[2]	Dieldrin[2]	Endosulfan I[2]	Endosulfan II[2]	Endosulfan sulfate[2]	Endrin[2]	Heptachlor epoxide[2]	PCBs[3]
B1-30	10/28/1997	30.0-31.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND
B2-10	10/28/1997	10.0-11.0	<0.005	<0.005	**0.0388**	**0.0188**	**0.0152**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND
B2-25	10/28/1997	25.0-26.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND
Area 2: Former Yakima Farmer Supply Lime and Sulfur Stockpile Locations														
SP23-8	10/22/1997	4.0-8.0	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	ND
SP24-7.5	10/22/1997	4.0-7.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND
SP25-4	10/22/1997	0.5-4.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	ND
Area 3: Potential Petroleum Release Area														
SP26-6.5	10/22/1997	4.0-6.5	<0.050	<0.050	**0.257**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	ND
SP27-7.5	10/22/1997	4.0-7.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND
SP28-7.5	10/22/1997	4.0-7.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND
Farallon Consulting, L.L.C. (2002), Monitoring Well Borings MW-7A and MW-7B														
Drum 1 (MW-7A)	11/21/2002	0 -15	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Drum 3 (MW-7B)	11/22/2002	15-25	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Drum 4 (MW-7B)	11/22/2002	25-32	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Preliminary Screening Level[4]			**0.00503**	**0.258**	**0.335**	**0.446**	**3.485**	**0.0028**	**4.301**	**4.301**	**4.301**	**0.0404**	**0.0161**	**10**

NOTE:

BOLD denotes analyte was detected at a concentration above the laboratroy practical quantitation limit.

Concentration highlighted exceeds preliminary screening level.

ND denotes not detected above PQL for each PCB aroclor.

< denotes concentration of compound is not above the laboratory practical quantitation limit indicated.

NA = Not Applicable

PCBs = polychlorinated biphenyls

[1]Depth below ground surface in feet.

[2]Pesticides analyzed by EPA Method 8081.

[3]Polychlorinated biphenyls analyzed by EPA Method 8080.

[4]Preliminary screening level has been selected for preliminary evlauation of analytical data for the Remedial Investigation only.

Table 3
Summary of Groundwater Analytical Results - Volatile Organic Compounds
YSF/AGRI-Tech
Yakima, Washington
Farallon PN: 765-001

Monitoring Well / Sample No.	Date Sampled	Sampled By	Analytical Results (micrograms per liter)											
			PCE	TCE	cis 1,2-DCE	trans 1,2-DCE	Vinyl Chloride	1,1,1-TCA	1,1-DCA	MEK	Acetone	1,2-dichloropropane	Chloroform	Chloromethane
MW-1	12/3/1997	AGRA	**3.64**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	3/3/1998	AGRA	**3.39**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	6/3/1998	AGRA	**6.5**	**1.18**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	**1.12**	<1.0
	9/2/1998	AGRA	**4.22**	**0.71**	**0.25**	<1.0	<1.0	**0.15**	<1.0	<1.0	<20	<1.0	**1.88**	<1.0
	12/3/2002	Farallon	**6.0**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.0**	<2.0
MW-2	12/3/1997	AGRA	<1.0	**1.51**	**12.4**	<1.0	**2.42**	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	3/3/1998	AGRA	**1.59**	**1.46**	**3.21**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	6/3/1998	AGRA	<1.0	<1.0	**7.13**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	**12.1**
	9/2/1998	AGRA	**1.27**	**3.06**	**17.6**	**0.36**	<1.0	<1.0	**0.19**	<1.0	<20	<1.0	<1.0	<1.0
	12/4/2002	Farallon	<2.0	<2.0	**15.0**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-3	12/3/1997	AGRA	**6.06**	**1.07**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	3/3/1998	AGRA	**4.44**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	6/3/1998	AGRA	**4.52**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	**1.3**	**9.24**
	9/2/1998	AGRA	**5.37**	**0.81**	**0.22**	<1.0	<1.0	<1.0	<1.0	**0.23**	<20	<1.0	**1.93**	<1.0
	12/4/2002	Farallon	**6.0**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.0**	<2.0
MW-4	12/3/1997	AGRA	**3.32**	<1.0	**5.23**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	3/3/1998	AGRA	**3.78**	<1.0	**1.64**	<1.0	<1.0	<1.0	<1.0	<1.0	**24.1**	<1.0	<1.0	<1.0
	6/3/1998	AGRA	**3.86**	<1.0	**3.25**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	**2.78**
	9/2/1998	AGRA	**3.12**	**0.84**	**4.34**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	**1.15**	<1.0
	12/4/2002	Farallon	**5.0**	<2.0	**5.0**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-5	12/3/1997	AGRA	**3.98**	**1.1**	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	3/3/1998	AGRA	**2.25**	**1.02**	**4.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	6/3/1998	AGRA	**2.72**	<1.0	**2.52**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	**2.59**
	9/2/1998	AGRA	**2.65**	**0.89**	**2.87**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	**0.85**	<1.0
	12/4/2002	Farallon	**5.0**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-6	12/3/1997	AGRA	<1.0	<1.0	**7.68**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	3/3/1998	AGRA	<1.0	<1.0	**13.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	6/3/1998	AGRA	<1.0	<1.0	**13.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	9/2/1998	AGRA	<1.0	**0.33**	**7.08**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	12/4/2002	Farallon	**6.0**	**74.0**	**270**	<2.0	**4**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
WDOE-6	May-92	Ecology	**420**	**430**	**270**	<1.0	<10	<1.0	<1.0	<1.0	<20	<1.0	<5.0	<1.0
	12/3/1997	AGRA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/3/1998	AGRA	**49.6**	**108**	**83.7**	**2.34**	**4.24**	<1.0	<1.0	<1.0	<20	**1.73**	<1.0	<1.0
	6/3/1998	AGRA	**75.6**	**60.4**	**45.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	9/2/1998	AGRA	**20.8**	**18.7**	**11.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	12/3/2002	Farallon	<2.0	<2.0	**14.0**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Preliminary Screening Level[5]			**5.0**	**3.98**	**70**	**100**	**0.0292**	**7,200**	**800**	**4,800**	**800**	**0.643**	**7.17**	**3.37**

Table 3
Summary of Groundwater Analytical Results - Volatile Organic Compounds
YSF/AGRI-Tech
Yakima, Washington
Farallon PN: 765-001

Monitoring Well / Sample No.	Date Sampled	Sampled By	Analytical Results (micrograms per liter)											
			PCE	TCE	cis 1,2-DCE	trans 1,2-DCE	Vinyl Chloride	1,1,1-TCA	1,1-DCA	MEK	Acetone	1,2-dichloropropane	Chloroform	Chloromethane
MW-7A	12/3/2002	Farallon	<2.0	<2.0	**4.0**	<1.0	<2.0	<1.0	<1.0	<1.0	<20	<1.0	<2	<2
MW-7B	12/3/2002	Farallon	**2.0**	<2.0	**12.0**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Quality Assurance and Quality Control Field Samples														
12397QC-D[2]	12/3/1997	AGRA	<1.0	<1.0	**7.87**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
6398QC-D[4]	6/3/1998	AGRA	**3.54**	<1.0	**3.29**	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
9298QC-D[5]	9/2/1998	AGRA	**20.5**	**18.8**	**11.1**	<1.0	<1.0	<1.0	**0.22**	<1.0	<20	<1.0	<1.0	<1.0
RB-120302[6]	12/3/2002	Farallon	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
TRIP BLANK	12/3/1997	AGRA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	3/3/1998	AGRA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	6/3/1998	AGRA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
	9/2/1998	AGRA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
Preliminary Screening Level[5]			**5.0**	**3.98**	**70**	**100**	**0.0292**	**7,200**	**800**	**4,800**	**800**	**0.643**	**7.17**	**3.37**

NOTE:

BOLD denotes analyte was detected at a concentration at or above the laboratory practical quantitation limit**.**

Concentration highlighted exceeds preliminary screening level.

< denotes concentration of compound is not at or above the laboratory practical quantitation limit indicated.

[1] Analyzed by EPA Method 8260B.

[2] Field Duplicate of Groundwater Sample Collected from Monitoring Well MW-6.

[3]Field Duplicate of Groundwater Sample Collected from Monitoring Well MW-2

[4]Field Duplicate of Groundwater Sample Collected from Monitoring Well MW-4

[5]Field Duplicate of Groundwater Sample Collected from Monitoring Well WDOE-6

[6]Equipment Rinsate Blank

[5]Preliminary screening level has been selected for preliminary evlauation of analytical data for the Remedial Investigation only.

cis-1,2-DCE = cis-1,2-dichloroethene

MEK = methyl ethyl ketone

NA = Not Analyzed

PCE = tetrachloroethene

TCE = trichloroethene

trans 1,2-DCE = trans 1,2-dichloroethene

1,1-DCA = 1,1-dichloroethane

1,1,1-TCA = 1,1,1-trichloroethane

Table 4
Summary of Groundwater Analytical Results - Pesticides and Polychlorinated Biphenyls
YSF/AGRI-Tech
Yakima, Washington
Farallon PN: 765-001

Sample Number	Date Sampled	Analytical Results (micrograms per liter)			
		4,4-DDD[1]	4,4 DDE[1]	Dieldrin[1]	PCBs[2]
MW-1	12/3/1997	<0.1	<0.1	<0.1	ND
	3/3/1998	<0.1	<0.1	<0.1	NA
	6/3/1998	NA	NA	NA	NA
	9/2/1998	NA	NA	NA	NA
	12/3/2002	NA	NA	NA	NA
MW-2	12/3/1997	<0.1	**0.119**	**0.102**	ND
	3/3/1998	<0.1	<0.1	<0.1	NA
	6/3/1998	<0.1	<0.1	<0.1	NA
	9/2/1998	<0.1	<0.1	<0.1	NA
	12/4/2002	<0.05	<0.05	**0.05**	NA
MW-3	12/3/1997	<0.1	<0.1	<1.0	ND
	3/3/1998	<0.1	<0.1	<1.0	NA
	6/3/1998	<0.1	<0.1	<1.0	NA
	9/2/1998	<0.1	<0.1	<1.0	NA
	12/4/2002	NA	NA	NA	NA
MW-4	12/3/1997	<0.1	<0.1	<0.1	ND
	3/3/1998	<0.1	<0.1	<0.1	NA
	6/3/1998	NA	NA	NA	NA
	9/2/1998	NA	NA	NA	NA
	12/4/2002	NA	NA	NA	NA
MW-5	12/3/1997	<0.1	<0.1	<0.1	ND
	3/3/1998	<0.1	<0.1	<0.1	NA
	6/3/1998	NA	NA	NA	NA
	9/2/1998	NA	NA	NA	NA
	12/4/2002	NA	NA	NA	NA
MW-6	12/3/1997	<0.1	<0.1	<0.1	ND
	3/3/1998	<0.1	<0.1	<0.1	NA
	6/3/1998	NA	NA	NA	NA
	9/2/1998	<0.1	<0.1	<0.1	NA
	12/4/2002	NA	NA	NA	NA
WDOE-6	May-92	**0.48**	<0.50	**1.1**	<5.0
	12/3/1997	NA	NA	NA	NA
	3/3/1998	<0.1	<0.1	**0.226**	NA
	6/3/1998	**0.296**	**0.586**	**0.242**	NA
	9/2/1998	**0.100**	**0.334**	<0.1	NA
	12/3/2002	**0.13**	<0.05	<0.05	NA
MW-7A	12/3/2002	NA	NA	NA	NA
MW-7B	12/3/2002	NA	NA	NA	NA
Preliminary Screening Level[8]		**0.365**	**0.257**	**0.0055**	**0.1**

Table 4
Summary of Groundwater Analytical Results - Pesticides and Polychlorinated Biphenyls
YSF/AGRI-Tech
Yakima, Washington
Farallon PN: 765-001

Sample Number	Date Sampled	Analytical Results (micrograms per liter)			
		4,4-DDD[1]	4,4 DDE[1]	Dieldrin[1]	PCBs[2]
Quality Assurance and Quality Control Field Samples					
12397QC-D[3]	12/3/1997	<0.1	<0.1	<0.1	ND
030398QC-D[4]	3/3/1998	<0.1	<0.1	<0.1	NA
6398QC-D[5]	6/3/1998	NA	NA	NA	NA
9298QC-D[6]	9/2/1998	NA	NA	NA	NA
RB-120302[7]	12/3/2002	NA	NA	NA	NA
TRIP BLANK	12/3/1997	<0.1	<0.1	<0.1	ND
	3/3/1998	<0.1	<0.1	<0.1	NA
	9/2/1998	NA	NA	NA	NA
Preliminary Screening Level[8]		**0.365**	**0.257**	**0.0055**	**0.1**

NOTE:

BOLD Indicates detection above laboratroy practical quantitation limit.

Concentration highlighted exceeds preliminary screening level.

< denotes concentration of compound is not above the laboratory practical quantitation limit indicated.

NA = Not Analyzed

ND = Not Detected above PQL for each PCB aroclor

PCBs = polychlorinated biphenyls

[1] Analyzed by EPA Method 8081.

[2] Analyzed by EPA Method 8080.

[3] Field Duplicate of Groundwater Sample Collected from Monitoring Well MW-6.

[4] Field Duplicate of Groundwater Sample Collected from Monitoring Well MW-2.

[5] Field Duplicate of Groundwater Sample Collected from Monitoring Well MW-4.

[6] Field Duplicate of Groundwater Sample Collected from Monitoring Well WDOE-6.

[7] Equipment Rinsate Blank

[8] Preliminary screening level has been selected for preliminary evlauation of analytical data for the Remedial Investigation only.

Table 5
Soil Screening Level Evaluation
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Constituent of Potential Concern	Frequency of Detection in Soil[1]	Maximum Concentration Detected in Soil (milligram per kilogram)	Carcinogen or Non-Carcinogen (C or NC)	Calculation of Site-Specific Cleanup Levels Performed (Yes or No)	Method A Soil Screening Levels (milligrams per kilogram)		Method B Soil Screening Levels (milligrams per kilogram)				Method C Soil Screening Levels (milligrams per kilogram)				Preliminary Soil Screening Level Selected for Remedial Investigation	COPC Retained as Indicator Hazardous Substance (Yes or No)
					Standard MTCA Method A Cleanup Level for Unrestricted Land Use[2]	Standard MTCA Method A Cleanup Level for Industrial Soils[2]	Standard Method B[2] (Direct Contact/ Ingestion Only)	Modified Method B[3] (Direct Contact/Dermal & Ingestion HQ=1.0)	Modified Method B[3] (Direct Contact/Dermal & Ingestion Risk of 1.0E-6)	Modified Method B[3] (Protection of Groundwater)	Standard Method C[2] (Direct Contact/ Ingestion Only)	Modified Method C[3] (Direct Contact/Dermal & Ingestion HQ=1.0)	Modified Method C[3] (Direct Contact/Dermal & Ingestion Risk of 1.0E-5)	Modified Method C[3] (Protection of Groundwater)		
Volatile Organic Compounds																
Tetrachloroethene (PCE)	24	770	C	Yes	0.05	0.05	19.6	739	18.11	0.05303	8.58	14,550	1,070	0.05303	**0.05303**	**Yes**
Trichloroethene (TCE)	11	4.6	C	Yes	0.03	0.03	90.9	Not Available	83.98	0.02631	39.8	Not Available	4,959	0.02631	**0.02631**	**Yes**
1,1-dichloroethene	1	0.029	C	Yes	Not Available	Not Available	1.67	719	1.664	0.0005216	219	17,890	124.2	0.0005216	**0.0005216**	No
cis 1,2-dichloroethene	11	4.5	NC	Yes	Not Available	Not Available	800	798.9	Not Available	0.35	35,000	19,880	Not Available	0.35	**0.35**	**Yes**
trans 1,2-dichloroethene	0	ND	NC	No	Not Available	Not Available	1,600	—	—	—	70,000	—	—	—	**1,600**	No
Vinyl Chloride	0	ND	C	Yes	Not Available	Not Available	0.667	239.7	0.6658	0.0001838	87.5	5,963	49.69	0.0001838	**0.0001838**	**Yes**
Ethylbenzene	10	4.0	NC	Yes	6	6	8,000	7,989	Not Available	6.048	350,000	198,800	Not Available	6.048	**6.048**	No
Toluene	16	0.084	NC	Yes	7	7	16,000	14,780	Not Available	7.271	700,000	290,900	Not Available	7.271	**7.271**	No
Total xylenes	22	0.526	NC	Yes	9	9	160,000	147,800	Not Available	9.144	7,000,000	2,909,000	Not Available	9.144	**9.144**	No
n-Propylbenzene	2	0.088	NC	No	Not Available	Not Available	Not Available	—	—	—	Not Available	—	—	—	Not Available	No
1,3,5-trimethylbenzene	4	0.11	NC	No	Not Available	Not Available	Not Available	—	—	—	Not Available	—	—	—	Not Available	No
1,2,4-trimethylbenzene	10	0.30	NC	No	Not Available	Not Available	Not Available	—	—	—	Not Available	—	—	—	Not Available	No
4-isopropyltoluene	1	0.031	NC	No	Not Available	Not Available	Not Available	—	—	—	Not Available	—	—	—	Not Available	No
1,2-dichloropropane	3	0.007	C	Yes	Not Available	Not Available	14.7	Not Available	10.21	0.00305	1,930	Not Available	367.6	0.00305	**0.00305**	**Yes**
Acetone	11	0.17	NC	Yes	Not Available	Not Available	8,000	7,989	Not Available	3.211	350,000	198,800	Not Available	3.211	**3.211**	No
Carbon Disulfide	7	0.011	NC	Yes	Not Available	Not Available	8,000	7,828	Not Available	5.651	350,000	181,800	Not Available	5.651	**5.651**	No
2-Butanone (MEK)	0	0.023	NC	Yes	Not Available	Not Available	48,000	33,330	Not Available	22	2,100,000	400,000	Not Available	22	**22**	No
Chloroform	0	ND	C	No	Not Available	Not Available	164	—	—	—	21,500	—	—	—	**164**	No
Chloromethane	0	ND	C	No	Not Available	Not Available	76.9	—	—	—	10,100	—	—	—	**76.9**	**Yes**
1,1,1-trichloroethane	0	ND	NC	No	2	2	72,000	—	—	—	3,150,000	—	—	—	**2**	No
1,1-dichloroethane	0	ND	NC	No	Not Available	Not Available	800	—	—	—	350,000	—	—	—	**800**	No
Pesticides and Herbicides																
4,4-DDT	9	1.81	C	Yes	3	4	2.94	27.78	2.042	3.485	386	333.3	73.53	3.485	**3.485**	No
4,4-DDE	13	11.5	C	Yes	Not Available	Not Available	2.94	Not Available	2.042	0.4459	386	Not Available	73.53	0.4459	**0.4459**	**Yes**
4,4-DDD	11	2.07	C	Yes	Not Available	Not Available	4.17	Not Available	2.894	0.3354	547	Not Available	104.2	0.3354	**0.3354**	**Yes**
Dieldrin	8	3.36	C	Yes	Not Available	Not Available	0.0625	2.778	0.0434	0.002817	8.2	33.33	1.56	0.002817	**0.002817**	**Yes**
Endrin	4	1.13	NC	Yes	Not Available	Not Available	24	16.67	Not Available	0.0404	1,050	200	Not Available	0.0404	**0.0404**	**Yes**
Heptachlor epoxide	2	0.59	C	Yes	Not Available	Not Available	0.110	0.7222	0.07631	0.01605	14.4	8.667	2.747	0.01605	**0.01605**	**Yes**
Endosulfan compounds	5	0.443	NC	Yes	Not Available	Not Available	480	333.3	Not Available	4.301	21,000	4,000	Not Available	4.301	**4.301**	No
Aldrin	1	0.635	C	Yes	Not Available	Not Available	0.0588	1.667	0.04085	0.005033	7.72	20.0	1.471	0.005033	**0.005033**	No
Alpha-chlordane (Chlordane-based)	2	0.939	C	Yes	Not Available	Not Available	2.86	27.78	1.984	0.2576	375	333.3	71.43	0.2576	**0.2576**	**Yes**
Ethion	1	0.021	NC	No	Not Available	Not Available	40	—	—	—	1,750	—	—	—	**40**	No
Metals																
Arsenic	2	6.3	C	No	20	20	0.667	21.62	0.6006	2.92	87.5	400	33.33	2.92	**20**	No
Antimony	1	0.624	NC	No	Not Available	Not Available	32	28.83	Not Available	5.786	1,400	533.3	Not Available	5.786	**32**	No
Cadmium	3	23.4	NC	No	2	2	80	72.07	Not Available	0.069	3,500	1,333	Not Available	0.069	**2**	**Yes**
Chromium III	3	104	NC	No	2,000	2,000	120,000	108,100	Not Available	1,000	5,250,000	2,000,000	Not Available	1,000	**2,000**	No
Copper	3	422	NC	No	Not Available	Not Available	2,960	2,667	Not Available	262.8	130,000	49,330	Not Available	262.8	**2,960**	No
Lead	2	155	C	No	250	1,000	Not Available	Not Available	Not Available	3,000	Not Available	Not Available	Not Available	3,000	**1,000**	No
Mercury	2	5.09	NC	No	2	2	24	21.62	Not Available	2.088	1,050	400	Not Available	2.088	**2**	**Yes**
Nickel	3	88.6	NC	No	Not Available	Not Available	Not Available	—	—	—	Not Available	—	—	—	Not Available	No
Silver	1	3.04	NC	No	Not Available	Not Available	400	360.4	Not Available	13.6	17,500	6,667	Not Available	13.6	**400**	No
Thallium	1	1.44	NC	No	Not Available	Not Available	Not Available	—	—	—	Not Available	—	—	—	Not Available	No
Zinc	3	5,750	NC	No	Not Available	Not Available	24,000	21,620	Not Available	5,971	1,050,000	400,000	Not Available	5,971	**24,000**	No

Table 5
Soil Screening Level Evaluation
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Constituent of Potential Concern	Frequency of Detection in Soil[1]	Maximum Concentration Detected in Soil (milligram per kilogram)	Carcinogen or Non-Carcinogen (C or NC)	Calculation of Site-Specific Cleanup Levels Performed (Yes or No)	Method A Soil Screening Levels (milligrams per kilogram)		Method B Soil Screening Levels (milligrams per kilogram)				Method C Soil Screening Levels (milligrams per kilogram)				Preliminary Soil Screening Level Selected for Remedial Investigation	COPC Retained as Indicator Hazardous Substance (Yes or No)
					Standard MTCA Method A Cleanup Level for Unrestricted Land Use[2]	Standard MTCA Method A Cleanup Level for Industrial Soils[2]	Standard Method B[2] (Direct Contact/ Ingestion Only)	Modified Method B[3] (Direct Contact/Dermal & Ingestion HQ=1.0)	Modified Method B[3] (Direct Contact/Dermal & Ingestion Risk of 1.0E-6)	Modified Method B[3] (Protection of Groundwater)	Standard Method C[2] (Direct Contact/ Ingestion Only)	Modified Method C[3] (Direct Contact/Dermal & Ingestion HQ=1.0)	Modified Method C[3] (Direct Contact/Dermal & Ingestion Risk of 1.0E-5)	Modified Method C[3] (Protection of Groundwater)		
Other Hazardous Substances																
PCBs	0	ND	C	No	1	10	Not Available	—	—	—	Not Available	—	—	—	**10**	No
TPH as Diesel-Range Organics	1	35	NC	No	2,000	2,000	Not Available	—	—	—	Not Available	—	—	—	**2,000**	No
TPH as Oil-Range Organics	1	260	NC	No	2,000	2,000	Not Available	—	—	—	Not Available	—	—	—	**2,000**	No
Total Carcinogenic PAHs	2	0.042	C	No	0.1	2	0.137	—	—	—	18	—	—	—	**0.137**	No

NOTE:

ND denotes not detected above the laboratory Practical Quantitation Limit.

Not Available denotes there was no information in State or Federal regulations available for standard cleanup levels or MCLs or additional parameters needed to calculate site-specific soil or groundwater cleanup levels.

— denotes calculation of cleanup level not performed.

[1] Frequency of detection is based on all soil samples collected between 1992 and 2002. The total number of soil samples is 51.

[2] Standard Model Toxics Control Act (MTCA) Methods A, B, and C soil (direct contact pathway [ingestion only]) cleanup levels obtained from Ecology Publication, Cleanup levels and Risk Calculations (CLARC) Version 3.1, November 2001.

[3] Modified Methods B and C soil and groundwater cleanup levels have been calculated using Ecology worksheet for calculating soil cleanup levels for unrestricted and industrial land use. Modified Methods B and C soil cleanup levels presented are the more stringent cleanup levels for the direct contact, ingestion, and dermal pathways.

COPC = constituent of potential Concern

HQ = hazard quotient

NT = not tested.

PAHs = polycyclic aromatic hydrocarbons

PCBs = polychlorinated biphenyls

TPH = total petroleum hydrocarbons

Table 6
Groundwater Screening Level Evaluation
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Constituent of Potential Concern	Monitoring Wells COPC has been Detected	Maximum Concentration Detected in Groundwater (micrograms per liter)	Carcinogen or Non-Carcinogen (C or NC)	Calculation of Site-Specific Cleanup Levels Performed (Yes or No)	Groundwater Screening Levels (micrograms per liter)						Surface Water Screening Levels (micrograms per liter)		Preliminary Groundwater Screening Level Selected for Remedial Investigation	COPC Retained as Indicator Hazardous Substance (Yes or No)
					Standard Method A[1]	MCL[2]	Standard Method B[1]	Modified Method B[3]	Standard Method C[1]	Modified Method C[3]	Standard Method B[1]	Standard Method C[1]		
Volatile Organic Compounds														
Tetrachloroethene (PCE)	All but MW-7A	420	C	Yes	5.0	5.0	0.858	4.75	8.58	4.75	4.15	104	**5.0**	**Yes**
Trichloroethene (TCE)	All but MW-7A/7B	430	C	Yes	5.0	5.0	3.98	3.98	39.8	3.98	55.6	1,390	**3.98**	**Yes**
1,1-dichloroethene	None	ND	C	Yes	Not Available	7	0.0729	0.0729	0.729	0.0729	1.93	48.2	**0.0729**	No
cis 1,2-dichloroethene	All	270	NC	Yes	Not Available	70	80	70	175	80	Not Available	Not Available	**70**	**Yes**
trans 1,2-dichloroethene	MW-2/WDOE-6	2.34	NC	No	Not Available	100	160	—	350	—	32,800	82,000	**100**	No
Vinyl Chloride	MW-2/MW-6/WDOE-6	4.24	C	Yes	0.2	2.0	0.0292	0.0292	0.292	0.0292	3.69	92.3	**0.0292**	**Yes**
Ethylbenzene	None	ND	NC	Yes	700	700	800	700.0	1,750	700.0	6,190	17,300	**700.0**	No
Toluene	None	ND	NC	Yes	1,000	1,000	1,600	1,000	3,500	1,000	48,500	121,000	**1,000**	No
Total xylenes	None	ND	NC	Yes	1,000	10,000	16,000	10,000	35,000	10,000	Not Available	Not Available	**1,000**	No
n-Propylbenzene	None	ND	NC	No	Not Available	Not Available	Not Available	—	Not Available	—	Not Available	Not Available	Not Available	No
1,3,5-trimethylbenzene	None	ND	NC	No	Not Available	Not Available	Not Available	—	Not Available	—	Not Available	Not Available	Not Available	No
1,2,4-trimethylbenzene	None	ND	NC	No	Not Available	Not Available	Not Available	—	Not Available	—	Not Available	Not Available	Not Available	No
4-isopropyltoluene	None	ND	NC	No	Not Available	Not Available	Not Available	—	Not Available	—	Not Available	Not Available	Not Available	No
1,2-dichloropropane	WDOE-6	1.73	C	Yes	Not Available	5	0.643	0.643	6.43	0.643	23.2	580	**0.643**	**Yes**
Acetone	MW-4	24.1	NC	Yes	Not Available	Not Available	800	800	1,750	800	Not Available	Not Available	**800**	No
Carbon Disulfide	None	ND	NC	Yes	Not Available	Not Available	800	800	1,750	800	Not Available	Not Available	**800**	No
2-Butanone (MEK)	MW-3	0.23	NC	Yes	Not Available	Not Available	4,800	4,800	1,400	4,800	Not Available	Not Available	**4,800**	No
Chloroform	MW-1/MW-3/MW-4/MW-5	3.0	C	No	Not Available	Not Available	7.17	—	71.7	—	283	7,080	**7.17**	No
Chloromethane	MW-2/MW-3/MW-4/MW-5	12.1	C	No	Not Available	Not Available	3.37	—	33.7	—	133	3,320	**3.37**	**Yes**
1,1,1-trichloroethane	MW-1	0.15	NC	No	Not Available	200	7,200	—	15,800	—	417,000	15,800	**7,200**	No
1,1-dichloroethane	MW-2	0.22	NC	No	Not Available	Not Available	800	—	1,750	—	Not Available	Not Available	**800**	No
Pesticides and Herbicides														
4,4-DDT	None	ND	C	Yes	0.3	Not Available	0.257	0.254	2.57	0.254	0.000356	0.00889	**0.257**	No
4,4-DDE	MW-2/WDOE-6	0.586	C	Yes	Not Available	Not Available	0.257	0.257	2.57	0.257	0.000356	0.00889	**0.257**	**Yes**
4,4-DDD	WDOE-6	0.48	C	Yes	Not Available	Not Available	0.365	0.365	3.65	0.365	0.000504	0.0126	**0.365**	**Yes**
Dieldrin	MW-2/WDOE-6	1.1	C	Yes	Not Available	Not Available	0.00547	0.0055	0.0547	0.0055	0.0000867	0.00217	**0.0055**	**Yes**
Endrin	None	ND	NC	Yes	Not Available	2	4.80	2.0	10.5	2.0	0.196	0.490	**2.0**	No
Heptachlor epoxide	None	ND	C	Yes	Not Available	0.2	0.00962	0.0096	0.0962	0.0096	0.0000636	0.00159	**0.0096**	No
Endosulfan compounds	None	ND	NC	Yes	Not Available	Not Available	96.0	96.0	210	96.0	57.6	144	**96.0**	No
Aldrin	None	ND	C	Yes	Not Available	Not Available	0.00515	0.0051	0.0515	0.0051	0.0000816	0.00204	**0.0051**	No
Alpha-chlordane (Chlordane-based)	None	ND	C	Yes	Not Available	2	0.25	0.250	2.5	0.250	0.00131	0.0328	**0.250**	No
Ethion	None	ND	NC	No	Not Available	Not Available	8.00	—	17.5	—	Not Available	Not Available	**8.00**	No

Table 6
Groundwater Screening Level Evaluation
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Constituent of Potential Concern	Monitoring Wells COPC has been Detected	Maximum Concentration Detected in Groundwater (micrograms per liter)	Carcinogen or Non-Carcinogen (C or NC)	Calculation of Site-Specific Cleanup Levels Performed (Yes or No)	Groundwater Screening Levels (micrograms per liter)						Surface Water Screening Levels (micrograms per liter)		Preliminary Groundwater Screening Level Selected for Remedial Investigation	COPC Retained as Indicator Hazardous Substance (Yes or No)
					Standard Method A[1]	MCL[2]	Standard Method B[1]	Modified Method B[3]	Standard Method C[1]	Modified Method C[3]	Standard Method B[1]	Standard Method C[1]		
Metals														
Arsenic	NT	NT	C	No	5.0	50.0	0.0583	—	0.583	—	0.0982	2.46	**5.0**	No
Antimony	NT	NT	NC	No	Not Available	6	6.4	—	14.0	—	1,040	2,590	**6.4**	No
Cadmium	NT	NT	NC	No	5.0	5.0	8.0	—	17.5	—	20.3	50.6	**5.0**	**Yes**
Chromium III	NT	NT	NC	No	50.0	100.0	24,000	—	52,500	—	243,000	608,000	**50.0**	No
Copper	NT	NT	NC	No	Not Available	1,300	592	—	1,300	—	2,660	6,660	**592**	No
Lead	NT	NT	C	No	15.0	15.0	Not Available	—	Not Available	—	Not Available	Not Available	**15.0**	No
Mercury	NT	NT	NC	No	2.0	2.0	4.8	—	10.5	—	Not Available	Not Available	**2.0**	**Yes**
Nickel	NT	NT	NC	No	Not Available	Not Available	Not Available	—	Not Available	—	Not Available	Not Available	Not Available	No
Silver	NT	NT	NC	No	Not Available	100	80	—	175	—	25,900	64,800	**80**	No
Thallium	NT	NT	NC	No	Not Available	Not Available	Not Available	—	Not Available	—	Not Available	Not Available	Not Available	No
Zinc	NT	NT	NC	No	Not Available	5,000	4,800	—	10,500	—	16,500	41,400	**4,800**	No
Other Hazardous Substances														
PCBs	None	ND	C	No	0.1		Not Available	—	Not Available	—	Not Available	Not Available	**0.1**	No
TPH as Diesel Range Organics	None	ND	NC	No	500		Not Available	—	Not Available	—	Not Available	Not Available	**500**	No
TPH as Oil Range Organics	None	ND	NC	No	500		Not Available	—	Not Available	—	Not Available	Not Available	**500**	No
Total Carcinogenic PAHs	None	ND	C	No	0.1		0.0120	—	0.120	—	Not Available	Not Available	**0.0120**	No

NOTE:

ND denotes not detected above the laboratory Practical Quantitation Limit.

NONE denotes COPC was not detected in any of the groundwater samples collected between 1992 and 2002.

Not Available denotes there was no information in State or Federal regulations available for standard cleanup levels or MCLs or additional parameters needed to calculate site-specific soil or groundwater cleanup levels

— denotes calculation of cleanup level not performed.

[1]Standard Model Toxics Control Act (MTCA) Method A, B, and C groundwater cleanup levels obtained from Ecology Publication 94-145, Cleanup Levels and Risk Calculations (CLARC) Version 3.1, November 2001.

[2]MCLs reported as presented in the CLARC, November 2001 which consider Federal and State ARARs for potable groundwater.

[3]Modifed Method B and C groundwater cleanup levels have been calculated using Ecology worksheet for calculating soil cleanup levels for unrestricted and industrial land use.

COPC = Constituent of Potential Concern

MCL = Maximum Contaminant Level

NT = Not tested. Analysis for the analyte was not performed.

PAHs = Polycyclic Aromatic Hydrocarbons

PCBs = Polychlorinated Biphenyls

TPH = Total petroleum hydrocarbons

Table 7
Average Monthly Climate Data
YSF\Agri-Tech
Yakima, Washington
Farallon PN: 765-001

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
Average Maximum Temperature (Fahrenheit)	37.1	45.7	55.2	63.8	72.6	79.7	87.3	86	77.7	64.1	48.1	38	62.9
Average Minimum Temperature (Fahrenheit)	20.2	25.7	29.9	34.8	42.2	49	53	51.6	44.1	34.7	27.9	22.5	36.3
Average Total Precipitation (Inches)	1.27	0.78	0.68	0.52	0.54	0.69	0.2	0.32	0.36	0.55	1.04	1.27	8.22
Average Total Snowfall (Inches)	8.4	3.2	1.4	0	0	0	0	0	0	0.1	2.7	8.3	24.1

NOTE:

Period of Record: 1946 to 2000 (Data collection provided by Western Regional Climate Center website)

Table 8
Summary of Soil Analytical Results - Petroleum Hydrocarbons and Polycyclic Aromatic Hydrocarbons
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Sample Number	Sample Date	Depth (feet)[1]	Analytical Results (milligrams per kilogram)									
			ORO[2]	DRO[2]	Benzo(b) fluoranthene[3]	Chrysene[3]	Fluoranthene[3]	Dibenzo(a,h)anthracene	Benzo(a)anthracene	Indeno(1,2,3-cd)pyrene	Benzo(k)fluoranthene[3]	Benzo(a)pyrene
Area 3 Soil Analytical Results without Acid Silica Gel Cleanup for DRO and ORO.												
SP-23-8	10/22/1997	4.0-8.0	<100	<25	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
SP24-7.5	10/22/1997	4.0-7.5	**200**	**37**	**0.019**	**0.011**	**0.012**	<0.010	<0.010	<0.010	<0.010	<0.010
SP25-4	10/22/1997	0.5-4.0	**580**	**69**	**0.018**	<0.016	**0.020**	<0.016	<0.016	<0.016	<0.016	<0.016
Area 3 Soil Analytical Results with Acid Silica Gel Cleanup for DRO and ORO.												
SP-23-8	10/22/1997	4.0-8.0	<100	<25	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
SP24-7.5	10/22/1997	4.0-7.5	<100	<25	**0.019**	**0.011**	**0.012**	<0.010	<0.010	<0.010	<0.010	<0.010
SP25-4	10/22/1997	0.5-4.0	**260**	**35**	**0.018**	<0.016	**0.020**	<0.016	<0.016	<0.016	<0.016	<0.016
Preliminary Screening Level[4]			**2,000**	**2,000**	**0.137**	**0.137**	**0.137**	**NA**	**NA**	**NA**	**0.137**	**NA**

NOTE:

BOLD Indicates analyte detected at a concentration above the laboratory practical quantitation limit**.**

< denotes concentration of compound is not at or above the laboratory practical quantitation limit indicated.

[1]Depth below ground surface in feet.

[2] Analyzed by Ecology Method NWTPH-Dx. Acid silica gel cleanup used to remove contribution of organic materials observed in soil.

[3] Analyzed by EPA Method 8270-SIM. Carcinogenic PAHs are depicted only.

[4]Preliminary screening level has been selected for preliminary evlauation of analytical data for the Remedial Investigation only.

DRO = TPH as diesel-range organics

NA = Not applicable to noncarcinogenic PAHs

ORO = TPH as heavy-oil-range organics

PAHs = Polycyclic aromatic hydrocarbons

TPH = Total petroleum hydrocarbons

Table 9
Summary of Soil Analytical Results - Metals
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Sample Number	Date	Depth[1] (feet)	Analytical Results (milligrams per kilogram)										
			Total Metals[2]										
			Arsenic	Antimony	Cadmium	Chromium	Copper	Lead	Nickel	Mercury	Silver	Thallium	Zinc
Area 3, Potential Petroleum Release Area, and Western Site Boundary with the Bay Chemical Site.													
SP-23-8	10/22/1997	4.0-8.0	<5.0	<0.500	**1.65**	**104**	**422**	**155**	**88.6**	<0.050	<1.0	<0.500	**579**
SP24-7.5	10/22/1997	4.0-7.5	**3.35**	<0.500	**23.4**	**38.8**	**119**	<0.500	**19.6**	**5.09**	**3.04**	<0.500	**5,750**
SP25-8	10/22/1997	4.0-8.0	**6.3**	**0.624**	**5.49**	**17.5**	**27.0**	**47.7**	**17.0**	**0.137**	<1.0	**1.44**	**3,240**
Natural Background Concentrations[3]			**5.0**	**NA**	**1**	**38**	**27.0**	**11**	**46.0**	**0.05**	**NA**	**NA**	**79**
Preliminary Screening Level[4]			**20.0**	**32**	**2**	**2,000**	**2,960**	**1,000**	**NA**	**2**	**400**	**NA**	**24,000**

NOTE:

BOLD Indicates analyte detected at a concentration above the laboratory practical quantitation limit.

NA = not applicable, no cleanup levels available

Concentration highlighted exceeds preliminary screening level.

< denotes concentration of compound is not at or above the laboratory practical quantitation limit indicated.

[1]Depth below ground surface in feet.

[2] Analyzed by EPA Method 6000 and 7000 Series Methods.

[3]Natural Background concentrations of metals for the Yakima Basin as presented in Natural Background Soil Metals Concentrations in Washington State, Ecology Publication 94-115, October 1994.

[4]Preliminary screening level has been selected for preliminary evaluation of analytical data for the Remedial Investigation only.

Table 10
Monitoring Well Construction Details
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Monitoring Well Identification	Total Depth of Well (feet below TOC)[1]	Diameter (inches)	Screened Interval (feet bgs)[2]	Well Screen Slot Size (inches)	Well Construction Material	Top of Well Casing Elevation (feet MSL)[3]	Latitude (degrees-minutes-seconds)[4]	Longitude (degrees-minutes-seconds)[4]
MW-1	26	2	6 - 26	0.020	PVC	1002.88	N46-34-12	W120-29-28
MW-2	12	2	2 - 12	0.020	PVC	1002.59	N46-34-08	W120-29-26
MW-3	27	2	7 - 27	0.020	PVC	1000.81	N46-34-08	W120-29-23
MW-4	25	2	5 - 25	0.020	PVC	1000.82	N46-34-06	W120-29-23
MW-5	28	2	8 - 28	0.020	PVC	1001.45	N46-34-05	W120-29-27
MW-6	13	2	3 - 13	0.020	PVC	1002.28	N46-34-05	W120-29-26
MW-7A	17	2	7 - 17	0.020	PVC	999.96	N46-34-02	W120-29-24
MW-7B	33	2	28 - 33	0.020	PVC	999.82	N46-34-02	W120-29-24
WDOE-6	16	2	11 - 16	0.020	Galvanized steel blank/stainless steel well screen	1002.27	N46-34-08	W120-29-26

NOTE:

[1]Total depth of well is based on average field measurements between December 1997 and December 2002.

[2]Screened interval is based on total well depth measurements.

[3]Top of well casing elevations provided by Upton Surveying, using City of Yakima datum benchmark NAVD29.

[4]Latitude and longitude provided by Upton Surveying, using City of Yakima horizontal datum benchmark NAD83.

bgs = below ground surface

MSL = mean sea level

PVC = polyvinyl chloride

TOC = top of well casing

Table 11
Summary of Groundwater Elevation Data
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Well Number	Date Measured	Measured By	Well Elevation (msl)	Depth to Water (bgs)	Groundwater Elevation (msl)
MW-1	12/3/1997	AGRA	1002.88	4.41	998.47
	3/3/1998	AGRA		5.78	997.10
	6/3/1998	AGRA		4.60	998.28
	9/2/1998	AGRA		2.52	1,000.36
	12/3/2002	Farallon		4.91	997.97
MW-2	12/3/1997	AGRA	1002.59	5.15	997.44
	3/3/1998	AGRA		6.75	995.84
	6/3/1998	AGRA		5.46	997.13
	9/2/1998	AGRA		3.36	999.23
	12/4/2002	Farallon		5.86	996.73
MW-3	12/3/1997	AGRA	1000.81	4.18	996.63
	3/3/1998	AGRA		5.65	995.16
	6/3/1998	AGRA		4.64	996.17
	9/2/1998	AGRA		2.57	998.24
	12/4/2002	Farallon		4.92	995.89
MW-4	12/3/1997	AGRA	1000.82	4.56	996.26
	3/3/1998	AGRA		6.02	994.80
	6/3/1998	AGRA		5.02	995.80
	9/2/1998	AGRA		3.03	997.79
	12/4/2002	Farallon		5.36	995.46
MW-5	12/3/1997	AGRA	1001.45	4.92	996.53
	3/3/1998	AGRA		6.49	994.96
	6/3/1998	AGRA		5.28	996.17
	9/2/1998	AGRA		3.35	998.10
	12/4/2002	Farallon		5.72	995.73
MW-6	12/3/1997	AGRA	1002.28	5.23	997.05
	3/3/1998	AGRA		6.78	995.50
	6/3/1998	AGRA		5.56	996.72
	9/2/1998	AGRA		3.50	998.78
	12/4/2002	Farallon		5.94	996.34
WDOE-6	12/3/1997	AGRA	1002.27	NM	—
	3/3/1998	AGRA		5.51	996.76
	6/3/1998	AGRA		4.29	997.98
	9/2/1998	AGRA		2.20	1,000.07
	12/3/2002	Farallon		4.55	997.72
MW-7A	12/3/2002	Farallon	999.96	5.57	994.39
MW-7B	12/3/2002	Farallon	999.82	5.75	994.07

NOTE:

Wells resurveyed 12/2002

— denotes data not available.

bgs = below ground surface

msl = feet above mean sea level relative to City of Yakima NAVD29 datum/benchmark.

NM = not measured

Table 12
Water Quality Parameters
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Sample Number	Date Sampled	Sampled By	Temperature (^{o}C)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/l)	pH	ORP (mV)
MW-1	12/3/1997	AGRA	14.50	3.30	0.61	6.58	—
	3/3/1998	AGRA	14.30	1.97	2.28	7.10	—
	6/3/1998	AGRA	14.50	—	2.88	7.03	360
	9/2/1998	AGRA	15.70	3.40	2.07	6.90	130
	12/3/2002	Farallon	14.08	—	5.25	6.91	189
MW-2	12/3/1997	AGRA	13.20	5.07	0.41	6.98	—
	3/3/1998	AGRA	13.80	2.03	1.59	7.00	—
	6/3/1998	AGRA	14.40	—	0.50	7.85	205
	9/2/1998	AGRA	20.70	10.92	0.39	6.40	126
	12/4/2002	Farallon	15.52	—	0.92	6.62	21
MW-3	12/3/1997	AGRA	15.00	3.63	0.42	6.00	—
	3/3/1998	AGRA	12.40	1.61	3.58	7.00	—
	6/3/1998	AGRA	14.10	—	4.12	7.48	398
	9/2/1998	AGRA	17.80	3.04	1.45	7.00	143
	12/4/2002	Farallon	13.36	—	4.32	6.82	67
MW-4	12/3/1997	AGRA	14.10	3.04	1.10	6.60	—
	3/3/1998	AGRA	11.70	1.98	1.79	6.90	—
	6/3/1998	AGRA	14.20	—	1.71	8.68	255
	9/2/1998	AGRA	17.90	4.04	0.96	6.80	156
	12/4/2002	Farallon	14.08	—	3.14	6.75	61
MW-5	12/3/1997	AGRA	15.80	4.84	0.58	6.00	—
	3/3/1998	AGRA	12.70	1.70	1.94	7.00	—
	6/3/1998	AGRA	13.90	—	3.10	6.86	333
	9/2/1998	AGRA	17.90	4.19	1.64	6.90	137
	12/4/2002	Farallon	14.06	—	2.94	6.67	58
MW-6	12/3/1997	AGRA	15.70	3.90	1.00	6.30	—
	3/3/1998	AGRA	12.80	3.90	1.46	6.80	—
	6/3/1998	AGRA	13.70	—	1.36	7.90	171
	9/2/1998	AGRA	19.30	5.61	1.01	6.80	90
	12/4/2002	Farallon	15.40	—	1.25	6.70	-1
WDOE-6	May-92	Ecology	—	—	—	—	—
	12/3/1997	AGRA	—	—	—	—	—
	3/3/1998	AGRA	10.80	5.65	1.57	6.40	—
	6/3/1998	AGRA	15.40	—	0.74	8.51	135
	9/2/1998	AGRA	17.00	3.77	0.65	6.80	19
	12/3/2002	Farallon	14.07	—	0.49	6.51	-94
MW-7A	12/3/2002	Farallon	9.13	—	1.20	6.70	-82
MW-7B	12/3/2002	Farallon	12.80	—	1.54	6.83	9

NOTES:

— denotes water quality parameter data not collected

^{o}C - degrees Celsius
mg/l - milligrams per liter
mS/cm - milliSiemens per centimeter
mV - milli volts

ORP = oxidation reduction potential

Table 13
Groundwater Analytical Results - Natural Attenuation Parameters
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Sample Number	Date Sampled	Sampled By	Analytical Results (milligrams per liter)										
			Alkalinity[1]	Sulfate[2]	Sulfide[3]	Methane[4]	Ethane[4]	Ethene[4]	Ferrous Iron[5]	Nitrate[6]	Total Phosphate[7]	Chloride[8]	Total Organic Carbon[9]
MW-1	12/3/1997	AGRA	**144**	**81.3**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/3/1998	AGRA	**96.3**	**25.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/3/1998	AGRA	**96**	**20.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/2/1998	AGRA	**102**	**61.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/3/2002	Farallon	**74**	**25**	<0.050	<0.01	<0.01	<0.01	**0.088**	**2.9**	**0.2**	**12**	**1.1**
MW-2	12/3/1997	AGRA	**166**	**134**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/3/1998	AGRA	**116**	**35.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/3/1998	AGRA	**104**	**59.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/2/1998	AGRA	**84**	**758**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/4/2002	Farallon	**79**	**46**	<0.050	**0.02**	<0.01	<0.01	**0.19**	<0.010	**0.57**	**12**	**1.8**
MW-3	12/3/1997	AGRA	**156**	**21.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/3/1998	AGRA	**110**	**18.2**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/3/1998	AGRA	**102**	**17.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/2/1998	AGRA	**108**	**32.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/4/2002	Farallon	**NA**	**NA**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	12/3/1997	AGRA	**188**	**52**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/3/1998	AGRA	**113**	**23.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/3/1998	AGRA	**110**	**26**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/2/1998	AGRA	**110**	**55.2**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/4/2002	Farallon	**79**	**34**	<0.050	<0.01	<0.01	<0.01	**0.039**	**2.3**	**0.12**	**12**	**1.8**
MW-5	12/3/1997	AGRA	**155**	**86.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/3/1998	AGRA	**114**	**50.3**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/3/1998	AGRA	**103**	**61.9**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/2/1998	AGRA	**104**	**91.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/4/2002	Farallon	**74**	**42**	<0.050	<0.01	<0.01	<0.01	**0.044**	**2**	**0.11**	**12**	**0.75**
MW-6	12/3/1997	AGRA	**180**	**81.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/3/1998	AGRA	**115**	**68.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/3/1998	AGRA	**99**	**82.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/2/1998	AGRA	**124**	**147**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/4/2002	Farallon	**81**	**61**	<0.050	**0.11**	<0.01	<0.01	**0.46**	**0.027**	**0.12**	**12**	**0.79**
WDOE-6	3/3/1998	AGRA	**85.5**	**209**	NA	NA	NA	NA	NA	N	NA	NA	NA
	6/3/1998	AGRA	**79**	**74.8**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/2/1998	AGRA	**97**	**95.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/3/2002	Farallon	**78**	**57**	**0.2**	**0.04**	<0.01	<0.01	**4.1**	**0.019**	**0.091**	**14**	**2**
MW-7A	12/3/2002	Farallon	**210**	**130**	<0.050	**0.12**	<0.01	<0.01	**0.035**	**0.011**	**0.068**	**16**	**4.5**
MW-7B	12/3/2002	Farallon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTE:

Results in **BOLD** indicate the analyte was not detected at a concentration above the laboratory practical quantitation limit.

NA = Not Analyzed

< denotes concentration of compound is not at or above the laboratory practical quantitation limit initiated.

[1]Analyzed by EPA Method 310.1.
[2]Analyzed by EPA Method 375.4.
[3]Analyzed by EPA Method 376.1.
[4]Analyzed by Method -GC in house.
[5]Analyzed by Method SM18 3500FED.
[6]Analyzed by EPA Method 353.2, 354.1.
[7]Analyzed by EPA Method 365.1.
[8]Analyzed by EPA Method 325.3.
[9]Analyzed by EPA Method 415.2.

Table 14
Locations that Exceed Preliminary Soil and Groundwater Screening Levels
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Sample Number	Depth[1] (feet)	Indicator Hazardous Substance[2]													
		Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis 1,2-dichloroethene	Vinyl Chloride	1,2-dichloropropane	Chloromethane	4,4-DDE	4,4-DDD	Dieldrin	Endrin	Heptachlor epoxide	Alpha-chlordane	Cadmium	Mercury
SOIL															
Area 1: Former Yakima Farmer Supply Waste Pit Area															
468110 (WDOE-6)	10	**Yes**	**Yes**	No	No	No	No	No	No	No	No	No	No	NA	NA
YSF-1 (TP-1)	4	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
YSF-2 (TP-1)	5	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
YSF-3 (TP-1)	8		No	No	No	No	No	No	No	No	No	No	No	NA	NA
YSF-4 (TP-2)	4.5	**Yes**	No	No	No	**Yes**	No	**Yes**	No	**Yes**	**Yes**	**Yes**	No	NA	NA
YSF-5 (TP-3)	6	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
YSF-6 (TP-4)	7.5	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP1-4	0.5-4.0	**Yes**	**Yes**	No	No	No	No	No	No	No	No	No	No	NA	NA
SP2-4	0.5-4.0	**Yes**	**Yes**	**Yes**	No	No	No	No	No	**Yes**	**Yes**	No	**Yes**	NA	NA
SP2A-6.5	4.0-6.5	**Yes**	No	No	No	No	No	No	No	**Yes**	No	No	No	NA	NA
SP3-4	0.5-4.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP4-7	4.0-7.0	**Yes**	**Yes**	**Yes**	No	No	No	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	NA	NA
SP5-6.5	4.0-6.5	**Yes**	**Yes**	**Yes**	No	No	No	No	No	**Yes**	No	No	No	NA	NA
SP6-5.5	4.0-5.5	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP7-7	4.0-7.0	**Yes**	No	No	No	**Yes**	No	No	No	No	No	No	No	NA	NA
SP8-7	4.0-7.0	No	No	No	No	No	No	**Yes**	No	**Yes**	No	No	No	NA	NA
SP9-7.5	4.0-7.5	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP10-4	0.5-4	**Yes**	**Yes**	No	No	No	No	No	**Yes**	**Yes**	**Yes**	No	No	NA	NA
SP11-6	4.0-6.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP12-8	4.0-8.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP13/14-6	4.0-6.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP15-6	4.0-6.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP16-8	4.0-8.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP17-4	0.5-4.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP18-4	0.5-4.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP19-7	4.0-7.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP20-8	4.0-8.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP21-5	1.0-5.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP22-7	4.0-7.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
MW1-5	5.0-6.5	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
MW1-10	10.0-11.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
MW6-6	6.0-8.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
B1-10	10.0-11.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
B1-30	30.0-31.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
B2-10	10.0-11.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
Preliminary Screening Level (milligrams per kilogram)		**0.053**	**0.02631**	**0.35**	**0.0001838**	**0.00305**	**76.9**	**0.4459**	**0.3354**	**0.002817**	**0.0404**	**0.01605**	**0.2576**	**2**	**2**

Table 14
Locations that Exceed Preliminary Soil and Groundwater Screening Levels
YSF/Agri-Tech
Yakima, Washington
Farallon PN: 765-001

Sample Number	Depth[1] (feet)	Indicator Hazardous Substance[2]													
		Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis 1,2-dichloroethene	Vinyl Chloride	1,2-dichloropropane	Chloromethane	4,4-DDE	4,4-DDD	Dieldrin	Endrin	Heptachlor epoxide	Alpha-chlordane	Cadmium	Mercury
Area 2: Former Yakima Farmer Supply Lime and Sulfur Stockpile Locations															
SP23-8	4.0-8.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP24-7.5	4.0-7.5	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
SP25-4	0.5-4.0	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
Area 3: Potential Petroleum Release Area															
SP26-6.5	4.0-6.5	No	No	No	No	No	No	No	No	No	No	No	No	No	No
SP27-7.5	4.0-7.5	No	No	No	No	No	No	No	No	No	No	No	No	**Yes**	**Yes**
SP28-7.5	4.0-7.5	No	No	No	No	No	No	No	No	No	No	No	No	**Yes**	No
Type 3 Wetlands Area															
Drum 1 (MW-7A)	0 -15	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
Drum 3 (MW-7B)	15-25	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
Drum 4 (MW-7B)	25-32	0	No	No	No	No	No	No	No	No	No	No	No	NA	NA
Preliminary Screening Level (milligrams per kilogram)		**0.053**	**0.02631**	**0.35**	**0.0001838**	**0.00305**	**76.9**	**0.4459**	**0.3354**	**0.002817**	**0.0404**	**0.01605**	**0.2576**	**2**	**2**
GROUNDWATER															
MW-1	Deep	**Yes**	No	No	No	No	No	No	No	No	No	No	No	NA	NA
MW-2	Shallow	No	No	No	**Yes**	No	**Yes**	No	No	**Yes**	No	No	No	NA	NA
MW-3	Deep	**Yes**	No	No	No	No	**Yes**	No	No	No	No	No	No	NA	NA
MW-4	Deep	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
MW-5	Deep	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
MW-6	Shallow	**Yes**	**Yes**	**Yes**	**Yes**	No	No	No	No	No	No	No	No	NA	NA
WDOE-6	Shallow	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	No	**Yes**	**Yes**	**Yes**	No	No	No	NA	NA
MW-7A	Shallow	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
MW-7B	Deep	No	No	No	No	No	No	No	No	No	No	No	No	NA	NA
Preliminary Screening Level (microgams per liter)		**5.0**	**3.98**	**70**	**0.0292**	**0.643**	**3.37**	**0.257**	**0.365**	**0.0055**	**2.0**	**0.0096**	**0.250**	**5.0**	**2.0**

NOTE:

Highlighted analyte exceeds preliminary screening level.

Deep denotes the groundwater monitoring well was designed to monitor deeper regional groundwater up to a depth of 33 feet bgs.

NA denotes that the soil or groundwater sample was not analyzed for this substance.

No denotes compound has not been detected at a concentration above the preliminary screening level selected for the Remedial Investigation.

Shallow denotes the groundwater monitoring well was designed to monitor shallow groundwater in direct contact with the waste pit materials.

Yes denotes that the compound has been detected at a concentration above the preliminary screening level selected for the Remedial Investigation.

[1]Depth below ground surface in feet.

[2]Indicator Hazarous Substances represent those constituents of potential concern that have been detected in two or more soil samples or have been detected at a minimum frequency of one groundwater sampling event for groundwater samples. The concentrations of these substances have also exceeded the preliminary screening level selected for the Remedial Investigation.

ATTACHMENT B
WASHINGTON DEPARTMENT OF ECOLOGY TEST PIT SAMPLING TABLES

CONCEPTUAL SITE MODEL TECHNICAL MEMORANDUM

Agri-Tech and Yakima Steel Fabricators Site
Yakima Steel Fabricators
Yakima, Washington

Farallon PN: 765-001

DRAFT - Issued for Client Review

Table 1
Soil Analytical Results for Petroleum Hydrocarbons
Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Grid	Test Pit	Sample Identification	Lab Report	Sample Date	Sample Depth (feet)[1]	Analytical Results (milligrams per kilogram) [2] DRO[3]	ORO[3]	Benzene[3]	Toluene[3]	Ethyl-benzene[3]	Xylenes[3]
Soil Samples											
I	3	I-TP3-052411-3.0	580-26377-1	5/24/2011	3.0	**4600 Y**	220	<0.00099	<0.002	0.029	0.036
		I-TP3-052411-7.5	580-26377-1	5/24/2011	7.5	390 Y	<60	<0.00095	<0.0019	0.0056	<0.00285
	4	I-TP4-052711-2.5	580-26530-1	5/27/2011	2.5	120 Y	930	<0.0011	<0.0023	<0.0011	<0.0034
	6	I-TP6-052711-4.5	580-26530-1	5/27/2011	4.5	98 Y	91	<0.0018	<0.0036	<0.0018	<0.0084
Preliminary Screening Levels[4]						**2,000**	**2,000**	**NE**	**7.271**	**6.048**	**9.144**

NOTES:

Results in **bold** denote concentrations above applicable cleanup levels.

< denotes analyte not detected at or above the laboratory reporting limit listed.

[1] Depth in feet below ground surface.

[2] Analyzed by Northwest Method NWTPH-Dx.

[3] Compound was not retained as a COPC following completion of the June 2004 Revised Remedial Investigation Report.

[4] Preliminary screening level as identified in the May 2011 Feasibility Study Work Plan.

COPC = constituent of potential concern

DRO = total petroleum hydrocarbons (TPH) as diesel-range organics

ORO = TPH as oil-range organics

Y = The chromatographic response resembles a typical fuel pattern.

Table 2
Soil Analytical Results for Volatile Organic Compounds
Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Grid	Test Pit	Sample Identification	Lab Report	Sample Date	Sample Depth (feet)[1]	Analytical Results (milligrams per kilogram)[2]												
						Benzene[3]	Ethyl-benzene[3]	m,p-Xylene[3]	o-Xylene[3]	Toluene[3]	Naphthalene[3]	n-Butylbenzene[3]	Sec-Butylbenzene[3]	Isopropylbenzene[3]	Methylene Chloride[3]	4-Methyl-2-Pentanone[3]	4-Isopropyltoluene[3]	n-Propylbenzene[3]
Soil Samples																		
B	1	B-TP1-052611-6.0	580-26451-1	5/26/2011	6.0	<0.0012 H	0.0012 H	0.0049 H	0.0017 H	<0.0025 H	<0.0062 H	<0.0025 H	<0.0025 H	<0.0025 H	<0.019 H	<0.0062 H	<0.0025 H	<0.0012 H
		B-TP1-052611-6.5	580-26451-1	5/26/2011	6.5	<0.00088	<0.00088	<0.0018	<0.00088	<0.0018	<0.0044	<0.0018	<0.0018	<0.0018	<0.013	<0.0044	<0.0018	<0.00088
	2	B-TP2-052611-5.5	580-26451-1	5/26/2011	5.5	<0.00096	<0.00096	<0.0019	<0.00096	<0.0019	<0.0048	<0.0019	<0.0019	<0.0019	<0.014	<0.0048	<0.0019	<0.00096
	3	B-TP3-052611-5.5	580-26451-1	5/26/2011	5.5	<0.00094	<0.00094	<0.0019	<0.0019	<0.0019	<0.0047	<0.0019	<0.0019	<0.0019	<0.014	<0.0047	<0.0019	<0.00094
H	1	H-TP1-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<0.00094	<0.00094	<0.0019	0.0021	<0.0019	<0.0047	<0.0019	<0.0019	<0.0019	<0.014	<0.0047	<0.0019	<0.00094
		H-TP1-052611-3.5-4.0	580-26451-1	5/26/2011	4.0	<0.0011	<0.0011	<0.0021	<0.0011	<0.0021	<0.0053	<0.0021	<0.0021	<0.0021	<0.016	<0.0053	<0.0021	<0.0011
	2	H-TP2-052611-1.0-1.5	580-26451-1	5/26/2011	1.5	<0.0011	<0.0011	<0.0022	<0.0011	<0.0022	<0.0055	<0.0022	<0.0022	<0.0022	<0.016	<0.0055	<0.0022	<0.0011
		H-TP2-052611-2.0-2.5	580-26451-1	5/26/2011	2.5	<0.0011 H	0.0024 H	0.011 H	0.004 H	0.0042 H	<0.0057 H	<0.0023 H	<0.0023 H	<0.0023 H	<0.017 H	<0.0057 H	<0.0023 H	<0.0011 H
	3	H-TP3-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<0.0011 H	<0.0011 H	<0.0022 H	<0.0011 H	<0.0022 H	<0.0056 H	<0.0022 H	<0.0022 H	<0.0022 H	<0.017 H	<0.0056 H	<0.0022 H	<0.0011 H
		H-TP3-052611-3.5-4.0	580-26451-1	5/26/2011	4.0	<0.00093	<0.00093	<0.0019	<0.00093	<0.0019	<0.0047	<0.0019	<0.0019	<0.0019	<0.014	<0.0047	<0.0019	<0.00093
I	3	I-TP3-052411-3.0	580-26377-1	5/24/2011	3.0	<0.00099	0.029	0.013	0.023	<0.002	1.7 H	0.230 H	0.320 H	0.15	<0.015	<0.0050	0.250 H	0.180 H
		I-TP3-052411-7.5	580-26377-1	5/24/2011	7.5	<0.00095	0.0056	<0.0019	<0.00095	<0.0019	0.12	0.091	0.029	0.015	<0.014	<0.0047	0.032	0.030
	4	I-TP4-052711-2.5	580-26530-1	5/27/2011	2.5	<0.0011	<0.0011	<0.0023	<0.0011	<0.0023	<0.0056	<0.0023	<0.0023	<0.0023	<0.017	<.0056	<0.0023	<0.0011
		I-TP4-052711-8.0	580-26530-1	5/27/2011	8.0	<0.0011	<0.0011	<0.0023	<0.0011	<0.0023	<0.0057	<0.0023	<0.0023	<0.0023	<0.017	<0.0057	<0.0023	<0.0011
	5	I-TP5-052711-4.5	580-26530-1	5/27/2011	4.5	<0.0014	<0.0014	<0.0029	<0.0014	<0.0029	<0.0072	<0.0029	<0.0029	<0.0029	<0.021	<0.0072	<0.0029	<0.0014
	6	I-TP6-052711-4.5	580-26530-1	5/27/2011	4.5	<0.0018	<0.0018	<0.0036	<0.0018	<0.0036	<0.0089	<0.0036	<0.0036	<0.0036	<0.027	<0.0089	<0.0036	<0.0018
Wetland Samples																		
E	Wetsoil	E-wetsoil-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<0.0019	<0.0019*	<0.0038 *	<0.0019 *	<0.0038	<0.0094 *	<0.0038 *	<0.0038 *	<0.0038 *	<0.028	<0.0094	<0.0038 *	<0.0019 *
		E-wetsoil-052611-0.5-1.0	580-26451-1	5/26/2011	1.0	<0.0012 H	<0.0012 H	<0.0024 H	<0.0012 H	<0.0024 H	<0.0060 H	<0.0024 H	<0.0024 H	<0.0024 H	<0.018 H	<0.0060 H	<0.0024 H	<0.0012 H
	Wetsoil-2	E-wetsoil-2-052611-0.5-1.0	580-26451-1	5/26/2011	1.0	<0.00091 H	<0.00091 H	<0.0018 H	<0.00091 H	<0.0018 H	<0.0045 H	<0.0018 H	<0.0018 H	<0.0018 H	<0.014 H	<0.0045 H	<0.0018 H	<0.00091 H
		E-wetsoil-2-052611-1.0-2.0	580-26451-1	5/26/2011	2.0	<0.0013 H	<0.0013 H	<0.0026 H	<0.0013 H	<0.0026 H	<0.0065 H	<0.0026 H	<0.0026 H	<0.0026 H	<0.019 H	<0.0065 H	<0.0026 H	<0.0013 H
	Wetsed	E-wetsed-1-053111	580-26502-1	5/23/2011	0.5	<0.0027	<0.0027	<0.0054	<0.0027	<0.0054	<0.014	<0.0054	<0.0054	<0.054	<0.041	<0.014	<0.0054	<0.0027
		E-wetsed-2-053111	580-26502-1	5/23/2011	0.5	<0.0026	<0.0026	<0.0052	<0.0026	<0.0052	<0.013	<0.0052	<0.0052	<0.0052	<0.039	<0.013	<0.0052	<0.0026
		E-wetsed-3-053111	580-26502-1	5/23/2011	0.5	<0.0033	<0.0033	<0.0066	<0.0033	<0.0066	<0.017	<0.0066	<0.0066	<0.0066	<0.050	<0.017	<0.0066	<0.0033
G	Wetsoil	G-wetsoil-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<0.0013 H	<0.0013 H	<0.0025 H	<0.0013 H	<0.0025 H	<0.0064 H	<0.0025 H	<0.0025 H	<0.0025 H	<0.019 H	<0.0064 H	<0.0025 H	<0.0013 H
		G-wetsoil-052611-1.0-2.0	580-26451-1	5/26/2011	2.0	<0.00094	<0.00094	<0.0019	<0.00094	<0.0019	<0.0047	<0.0019	<0.0019	<0.0019	<0.014	<0.0047	<0.0019	<0.00094
Preliminary Screening Level						**180**[6]	**6.048**[5]	**9.144**[5]	**9.144**[5]	**7.271**[5]	**1,600**[6]	**NE**	**NE**	**NE**	**1300**[6]	**NE**	**NE**	**NE**

NOTES:

Results in **bold** denote concentrations above applicable cleanup levels.

< denotes analyte not detected at or above the reporting limit listed.

[1] Depth in feet below ground surface.

[2] Analyzed by U.S. Environmental Protection Agency Method 8260B.

[3] Compound was not retained as a COPC following completion of the 2004 Revised Remedial Investigation Report.

[4] Identified and retained as a COPC in the June 2004 Remedial Investigation Report.

[5] Preliminary screening level as identified in the May 2011 Feasibility Study Work Plan.

[6] Washington State Department of Ecology Cleanup Levels and Risk Calculations under the Washington State Model Toxics Control Act Cleanup Regulation, Version 3.1 Standard Method B Formula Values for Soil (Unrestricted Land Use) - Direct Contact (Ingestion Only) and Leaching Pathway, https://fortress.wa.gov/ecy/clarc/Reporting/ChemicalQuery.aspx

-- = The initial calibration curve was outside acceptance criteria for Carbon Disulfide. As Carbon Disulfide was not requested analyte at the time of sample analysis, it cannot be reported.

* = ISTD response or retention time outside acceptable limits.

COPC = constituent of potential concern

H = Sample was prepped or analyzed beyond specified holding time.

MEK = 2 butatnone

NE = not established

PCE = tetrachloroethene

TCE = trichloroethene

VOCs = volatile organic compounds

Table 2
Soil Analytical Results for Volatile Organic Compounds
Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Grid	Test Pit	Sample Identification	Lab Report	Sample Date	Sample Depth (feet)[1]	Analytical Results (milligrams per kilogram)[2]											
						Acetone[3]	1,2,4-Trimethylbenzene[3]	1,3,5-Trimethylbenzene[3]	Carbon Disulfide[3]	1,2-Dichloropropane[4]	MEK[3]	Chloroform[3]	Tetrachloroethene[4]	Trichloroethene[4]	1,1-Dichloroethene[3]	(cis) 1,2-Dichloroethene[4]	tert-Butylbenzene[3]
Soil Samples																	
B	1	B-TP1-052611-6.0	580-26451-1	5/26/2011	6.0	<0.019 H	<0.0025 H	<0.0062 H	<0.0012 H	**<0.0012 H**	<0.0062 H	<0.0012 H	<0.0012 H	<0.0012 H	**<0.0062 H**	<0.0012 H	<0.0025 H
		B-TP1-052611-6.5	580-26451-1	5/26/2011	6.5	<0.013	<0.0018	<0.0044	<0.00088	<0.00088	<0.0044	<0.00088	<0.00088	<0.00088	**<0.0044**	<0.00088	<0.0018
	2	B-TP2-052611-5.5	580-26451-1	5/26/2011	5.5	0.036	<0.0019	<0.0048	<0.00096	<0.00096	0.0055	<0.00096	<0.00096	<0.00096	**<0.0048**	<0.00096	<0.0019
	3	B-TP3-052611-5.5	580-26451-1	5/26/2011	5.5	<0.014	<0.0019	<0.0047	<0.00094	<0.00094	<0.0047	<0.00094	<0.00094	<0.00094	**<0.0047**	<0.00094	<0.0019
H	1	H-TP1-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<0.014	<0.0019	<0.0047	<0.00094	<0.00094	<0.0047	<0.00094	<0.00094	<0.00094	**<0.0047**	<0.00094	<0.0019
		H-TP1-052611-3.5-4.0	580-26451-1	5/26/2011	4.0	<0.016	<0.0021	<0.0053	<0.0011	<0.0011	<0.0053	<0.0011	<0.0011	<0.0011	**<0.0053**	<0.0011	<0.0021
	2	H-TP2-052611-1.0-1.5	580-26451-1	5/26/2011	1.5	<0.016	<0.0022	<0.0055	<0.0011	<0.0011	<0.0055	<0.0011	<0.0011	<0.0011	**<0.0055**	<0.0011	<0.0022
		H-TP2-052611-2.0-2.5	580-26451-1	5/26/2011	2.5	<0.017 H	<0.0023 H	<0.0057 H	<0.0011 H	<0.0011 H	<0.0057 H	<0.0011 H	<0.0011 H	0.0020 H	**<0.0057 H**	<0.0011 H	<0.0023 H
	3	H-TP3-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<0.017 H	<0.0022 H	<0.0056 H	<0.0011 H	<0.0011 H	<0.0056 H	<0.0011 H	<0.0011 H	<0.0011 H	**<0.0056 H**	<0.0011 H	<0.0022 H
		H-TP3-052611-3.5-4.0	580-26451-1	5/26/2011	4.0	<0.014	<0.0019	<0.0047	<0.00093	<0.00093	<0.0047	<0.00093	<0.00093	<0.00093	**<0.0047**	<0.00093	<0.0019
I	3	I-TP3-052411-3.0	580-26377-1	5/24/2011	3.0	0.390	0.760 H	0.15	--	<0.00099	0.068	<0.00099	<0.0099	<0.00099	**<0.0050**	<0.00099	0.032
		I-TP3-052411-7.5	580-26377-1	5/24/2011	7.5	0.029	0.140	0.023	--	<0.00095	0.0065	<0.00095	<0.0095	<0.00095	**<0.0047**	<0.00095	0.0022
	4	I-TP4-052711-2.5	580-26530-1	5/27/2011	2.5	<0.017	<0.0023	<0.0056	<0.0011	<0.0011	<0.0056	<0.0011	<0.0011	<0.0011	**<0.0056**	<0.0011	<0.0023
		I-TP4-052711-8.0	580-26530-1	5/27/2011	8.0	<0.017	<0.0023	<0.0057	<0.0011	<0.0011	<0.0057	<0.0011	<0.0011	<0.0011	**<0.0057**	<0.0011	<0.0023
	5	I-TP5-052711-4.5	580-26530-1	5/27/2011	4.5	<0.021	<0.0029	<0.0072	<0.0014	<0.0014	<0.0072	<0.0014	<0.0014	<0.0014	**<0.0072**	<0.0014	<0.0029
	6	I-TP6-052711-4.5	580-26530-1	5/27/2011	4.5	<0.027	<0.0036	<0.0089	0.0019	<0.0018	<0.0089	<0.0018	<0.0018	<0.0018	**<0.0089**	<0.0018	<0.0036
Wetland Samples																	
E	Wetsoil	E-wetsoil-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	0.094	<0.0038 *	<0.0094 *	0.0064	<0.0019	0.010	<0.0019	<0.0019	<0.0019	**<0.0094**	<0.0019	<0.0038 *
		E-wetsoil-052611-0.5-1.0	580-26451-1	5/26/2011	1.0	<0.018 H	<0.0024 H	<0.0060 H	<0.0012 H	<0.0012 H	<0.0060 H	<0.0012 H	<0.0012 H	<0.0012 H	**<0.0060 H**	<0.0012 H	<0.0024 H
	Wetsoil-2	E-wetsoil-2-052611-0.5-1.0	580-26451-1	5/26/2011	1.0	0.029 H	<0.0018 H	<0.0045 H	0.0010 H	<0.00091 H	<0.0045 H	<0.00091 H	<0.00091 H	<0.00091 H	**<0.0045 H**	<0.00091 H	<0.0018 H
		E-wetsoil-2-052611-1.0-2.0	580-26451-1	5/26/2011	2.0	0.038 H	<0.0026 H	<0.0065 H	<0.0013 H	<0.0013 H	<0.0065 H	<0.0013 H	<0.0013 H	<0.0013 H	**<0.0065 H**	<0.0013 H	<0.0026 H
	Wetsed	E-wetsed-1-053111	580-26502-1	5/23/2011	0.5	0.082	<0.0054	<0.014	<0.0027	<0.0027	<0.014	<0.0027	<0.0027	<0.0027	**<0.014**	<0.0027	<0.0054
		E-wetsed-2-053111	580-26502-1	5/23/2011	0.5	<0.039	<0.0052	<0.013	0.0032	<0.0026	<0.013	<0.0026	<0.0026	<0.0026	**<0.013**	<0.0026	<0.0052
		E-wetsed-3-053111	580-26502-1	5/23/2011	0.5	0.110	<0.0066	<0.017	<0.0033	**<0.0033**	0.025	<0.0033	<0.0033	<0.0033	**<0.017**	<0.0033	<0.0066
G	Wetsoil	G-wetsoil-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<0.019 H	<0.0025 H	<0.0013 H	<0.0013 H	<0.0013 H	<0.0064 H	<0.0013 H	<0.0013 H	<0.0013 H	**<0.0064 H**	<0.0013 H	<0.0025 H
		G-wetsoil-052611-1.0-2.0	580-26451-1	5/26/2011	2.0	<0.014	<0.0019	<0.0047	<0.00094	<0.00094	<0.0047	<0.00094	<0.00094	<0.00094	**<0.0047**	<0.00094	<0.0019
Preliminary Screening Level						**3.21**[5]	**NE**	**NE**	**5.651**[5]	**0.00305**[5]	**22**[5]	**164**[5]	**0.05303**[5]	**0.02631**[5]	**0.0005216**[5]	**0.35**[5]	**NE**

NOTES:

Results in **bold** denote concentrations above applicable cleanup levels.

< denotes analyte not detected at or above the reporting limit listed.

[1] Depth in feet below ground surface.

[2] Analyzed by U.S. Environmental Protection Agency Method 8260B.

[3] Compound was not retained as a COPC following completion of the 2004 Revised Remedial Investigation Report.

[4] Identified and retained as a COPC in the June 2004 Remedial Investigation Report.

[5] Preliminary screening level as identified in the May 2011 Feasibility Study Work Plan.

[6] Washington State Department of Ecology Cleanup Levels and Risk Calculations under the Washington State Model Toxics Control Act Cleanup Regulation, Version 3.1 Standard Method B Formula Values for Soil (Unrestricted Land Use) - Direct Contact (Ingestion Only) and Leaching Pathway, https://fortress.wa.gov/ecy/clarc/Reporting/ChemicalQuery.aspx

-- = The initial calibration curve was outside acceptance criteria for Carbon Disulfide. As Carbon Disulfide was not requested analyte at the time of sample analysis, it cannot be reported.

* = ISTD response or retention time outside acceptable limits.

COPC = constituent of potential concern

H = Sample was prepped or analyzed beyond specified holding time.

MEK = 2 butatnone

NE = not established

PCE = tetrachloroethene

TCE = trichloroethene

VOCs = volatile organic compounds

Table 3
Soil Analytical Results for Metals
Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Grid	Test Pit	Sample Identification	Laboratory Report	Sample Date	Sample Depth (feet) [1]	Analytical Results (milligrams per kilogram)[2]							
						Antimony [3]	Arsenic [3]	Cadmium [4]	Copper [3]	Lead [3]	Manganese [3]	Mercury [4]	Zinc [3]
Soil Samples													
A	1	A-TP1-052711-5.0	580-26530-1	5/27/2011	5.0	<2.9	<2.9	<0.49	24	6.3	170	0.035	830
	2	A-TP2-052711-5.0	580-26530-1	5/27/2011	5.0	<3.1	<3.1	<0.51	23	5.9	310	0.26	54
B	2	B-TP2-052611-5.5	580-26451-1	5/26/2011	5.5	<2.9	<2.9	<0.48	24	4.6	210	0.052	56
	3	B-TP3-052611-5.5	580-26451-1	5/26/2011	5.5	<2.7	<2.7	<0.45	20	13	330	0.053	69
C	1	C-TP1-052611-5.0	580-26451-1	5/26/2011	5.0	<3.5	<3.5	<0.58	29	5.8	280	0.088	69
	2	C-TP2-052611-8.0	580-26451-1	5/26/2011	8.0	<2.9	<2.9	0.95	25	41	240	0.09	610
	3	C-TP3-052611-4.5	580-26451-1	5/26/2011	4.5	<3.1	<3.1	<0.51	23	5.2	340	0.05	58
D	1	D-TP1-052511-4.5	580-26451-1	5/25/2011	4.5	<3.5	<3.5	<0.59 L	27	20	370	0.1	340
	2	D-TP2-052511-5.5	580-26451-1	5/25/2011	5.5	<5.3	<5.3	**88**	74	**1,000**	410	0.43	7,000
	3	D-TP3-052611-4.5	580-26451-1	5/26/2011	4.5	<2.9	<2.9	<0.49	24	13	330	0.041	260
E	1	E-TP1-052511-4.5	580-26451-1	5/25/2011	4.5	<2.5 L	<2.5	**8.8**	19	27	570	0.041	2,200
	2	E-TP2-052511-3.0	580-26451-1	5/25/2011	3.0	<2.7 L	<2.7	**6.2**	28	100	480	0.087	2,400
G	1	G-TP1-052511-0.0-0.5	580-26451-1	5/25/2011	0.5	<2.8 L	8.6	1.3	19	27	540	0.19	61
		G-TP1-052511-2.0-2.5	580-26451-1	5/25/2011	2.5	<3.3 L	7.6	1.6	25	44	550	**2.4**	150
	2	G-TP2-052511-0.0-0.5	580-26451-1	5/25/2011	0.5	<3.7	5.2	1.3	25	31	510	0.07	80
	3	G-TP3-052511-0.0-0.5	580-26451-1	5/25/2011	0.5	<3.3 L	4.4	1.7	28	30	530	0.055	100
		G-TP3-052511-2.0-2.5	580-26451-1	5/25/2011	2.5	<3.3	3.9	1.2	23	150	240	0.48	450
H	1	H-TP1-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	3.3	<2.7	1.0	360	72	440	0.048	270
		H-TP1-052611-3.5-4.0	580-26451-1	5/26/2011	4.0	<2.8	7.1	<0.46	23	36	420	0.086	82
	2	H-TP2-052611-1.0-1.5	580-26451-1	5/26/2011	1.5	<2.7	4.1	1.1	39	110	460	0.13	350
		H-TP2-052611-2.0-2.5	580-26451-1	5/26/2011	2.5	<3.3	<3.3	<0.55	24	84	530	0.19	200
	3	H-TP3-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<2.5	4.3	0.76	25	42	400	0.054	150
		H-TP3-052611-3.5-4.0	580-26451-1	5/26/2011	4.0	<2.8	<2.8	1.1	100	170	360	0.053	210
I	3	I-TP3-052411-0.0-0.5	580-26377-1	5/24/2011	0.5	<2.1	<2.9	<0.49	41	67	560	0.14	210
		I-TP3-052411-1.5	580-26377-1	5/24/2011	1.5	3.6	8.2	<0.51	53	370	380	0.40	570
		I-TP3-052411-3.0	580-26377-1	5/24/2011	3.0	3.2	<3.0	0.82	160	730	390	0.38	870
J	1	J-TP1-052411-0.0-0.5	580-26377-1	5/24/2011	0.5	2.9	<2.9	<0.48	57	50	380	0.25	190
	2	J-TP2-052411-0.0-0.5	580-26377-1	5/24/2011	0.5	7.1	<3.1	1.4	74	410	520	0.38	790
	3	J-TP3-052511-1.5-2.0	580-26451-1	5/25/2011	2.0	<2.8	8.5	0.48	29	600	300	0.17	480
M	1	M-TP1-052511-0.0-0.5	580-26451-1	5/25/2011	0.5	<3.1	6.2	**2.8**	1,300	130	550	0.07	120
		M-TP1-052511-3.0-3.5	580-26451-1	5/25/2011	3.5	<3.7	4.4	<0.62 L	23	13	430	0.095	37
	2	M-TP2-052511-0.0-0.5	580-26451-1	5/25/2011	0.5	<3.0	5.3	1.4	67	160	420	0.26	490
N	1	N-TP1-052411-0.0-0.5	580-26377-1	5/24/2011	0.5	<3.3	4.9	<0.54 L	25	40	500	0.096	97
Wetland Samples													
E	WetSoil	E-wetsoil-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<5.1	<5.1	**3.7**	39	110	190	0.14	1,700
		E-wetsoil-052611-0.5-1.0	580-26451-1	5/26/2011	1.0	<2.4	<2.4	<0.40	17	4.2	160	0.043	310
	WetSoil-2	E-wetsoil-2-052611-0.5-1.0	580-26451-1	5/26/2011	1.0	<3.4	<3.4	1.6	19	19	250	0.071	670
		E-wetsoil-2-052611-1.0-2.0	580-26451-1	5/26/2011	2.0	<3.0	<3.0	1.8	20	4.4	270	0.059	870
	Wetsed	E-wetsed-1-053111	580-26360-1	5/23/2011	0.5	<5.8	<5.8	**9.2**	36	190	210	–	2,700
		E-wetsed-2-053111	580-26360-1	5/23/2011	0.5	<6.9	7.6	**6.8**	41	150	220	–	2,800
		E-wetsed-3-053111	580-26360-1	5/23/2011	0.5	<6.1	8.5	**7.8**	52	180	270	–	2,700
G	WetSoil	G-wetsoil-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<2.4	<2.4	<0.40	16	3.5	210	0.044	41
		G-wetsoil-052611-1.0-2.0	580-26451-1	5/26/2011	2.0	<4.2	<4.2	1.5	40	80	470	0.14	510
Preliminary Screening Levels						**32** [5]	**20** [5]	**2.0** [5]	**2,960** [5]	**1,000** [5]	**11,000** [6]	**2** [5]	**24,000** [5]

NOTES:

Results in **bold** denote concentrations above applicable cleanup levels.

COPC = constituent of potential concern

– = denotes sample not analyzed

L = A negative instrument reading had an absolute value greater than the reporting limit.

< denotes analyte not detected at or above the laboratory reporting limit listed.

[1] Depth in feet below ground surface.

[2] Analyzed by U.S. Environmental Protection Agency Methods 6000/6010/7000 Series.

[3] Constituent was not retained as a COPC following completion of the June 2004 Revised Remedial Investigation Report.

[4] Identified and retained as COPC in June 2004 Revised Remedial Investigation Report.

[5] Preliminary screening level as identified in the May 2011 Feasibility Study Work Plan.

[6] Washington State Department of Ecology Cleanup Levels and Risk Calculations under the Washington State Model Toxics Control Act Cleanup Regulation, Version 3.1 Standard Method B Formula Values for Soil (Unrestricted Land Use) - Direct Contact (Ingestion Only) and Leaching Pathway, https://fortress.wa.gov/ecy/clarc/Reporting/ChemicalQuery.aspx

Table 4
Soil Analytical Results for Pesticides
Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Grid	Test Pit	Lab Report	Sample Identification	Sample Date	Sample Depth (feet) [1]	Analytical Results (milligrams per kilogram)[2]												
						Aldrin [3]	Alpha Chlordane [4]	4,4'-DDD [4]	4,4'-DDE [4]	4,4'-DDT [3]	Dieldrin [4]	Endosulfan Sulfate [3]	Endrin [4]	Heptachlor Epoxide [4]	Endrin Aldehyde [3]	Gamma Chlordane [3]	Heptachlor [3]	Endosulfan II
Soil Samples																		
A	1	580-26530-1	A-TP1-052711-5.0	5/27/2011	5.0	<0.0011	<0.0011	<0.0023	<0.0023	<0.0023 ^	<0.0023	<0.0023	<0.0023	<0.0011	<0.0023	<0.0011	<0.0011	<0.0023
	2	580-26530-1	A-TP2-052711-5.0	5/27/2011	5.0	<0.0012	<0.0012	<0.0023	<0.0023	<0.0023 ^	<0.0023	<0.0023	<0.0023	<0.0012	<0.0023	<0.0012	<0.0012	<0.0023
B	2	580-26451-1	B-TP2-052611-5.5	5/26/2011	5.5	<0.0011	<0.0011	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0011	<0.0023	<0.0011	<0.0011	<0.0023
	3	580-26451-1	B-TP3-052611-5.5	5/26/2011	5.5	<0.0012	<0.0012	<0.0024	<0.0024	<0.0024	<0.0024	<0.0024	<0.0024	<0.0012	<0.0024	<0.0012	<0.0012	<0.0024
C	1	580-26451-1	C-TP1-052611-5.0	5/26/2011	5.0	<0.0012	<0.0012	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0012	<0.0025	<0.0012	<0.0012	<0.0025
	2	580-26451-1	C-TP2-052611-8.0	5/26/2011	8.0	<0.0012	<0.0012	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0012	<0.0025	<0.0012	<0.0012	<0.0025
	3	580-26451-1	C-TP3-052611-4.5	5/26/2011	4.5	<0.0011	<0.0011	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0011	<0.0023	<0.0011	<0.0011	<0.0023
D	1	580-26451-1	D-TP1-052511-4.5	5/25/2011	4.5	<0.0013	<0.0013	<0.0025	<0.0025	<0.0025 ^	<0.0025	<0.0025 ^	<0.0025	<0.0013	<0.0025 ^	<0.0013	<0.0013	<0.0025 ^
	2	580-26451-1	D-TP2-052511-5.5	5/25/2011	5.5	<0.0018	<0.0018	<0.0036	<0.0036	<0.0036 ^	**<0.0036**	<0.0036 ^	<0.0036	<0.0018	<0.0036 ^	<0.0018	<0.0018	<0.0036 ^
	3	580-26451-1	D-TP3-052611-4.5	5/26/2011	4.5	<0.0012	<0.0012	<0.0024	0.0048	<0.0024	<0.0024	<0.0024	<0.0024	<0.0012	<0.0024	<0.0012	<0.0012	<0.0024
G	1	580-26451-1	G-TP1-052511-0.0-0.5	5/25/2011	0.5	<0.0011 H	<0.0011 H	<0.0022 H	0.0073 H	0.0062 H^	<0.0022 H	<0.0022 H	0.0066 H	<0.0011 H	<0.0022 H	0.0018 H	<0.0011 H	<0.0022 H
			G-TP1-052511-2.0-2.5	5/25/2011	2.5	<0.0011 H	<0.0011 H	0.010 H	0.061 H	0.0036 H^	<0.0022 H	<0.0022 H	0.0044 H	<0.0011 H	<0.0022 H	<0.0011 H	<0.0011 H	<0.0022 H
	2	580-26451-1	G-TP2-052511-0.0-0.5	5/25/2011	0.5	<0.0012 H	0.0050 H	0.0035 H	0.059 H	0.0082 H^	**0.039 H**	<0.0024 H	<0.0024 H	<0.0012 H	<0.0024 H	0.0029 H	<0.0012 H	<0.0024 H
			G-TP2-052511-2.0-2.5	5/25/2011	2.5	<0.0011 H	<0.0011 H	0.0065 H	0.032 H	<0.0022 H^	<0.0022 H	<0.0022 H	<0.0022 H	<0.0011 H	<0.0022 H	<0.0011 H	<0.0011 H	<0.0022 H
	3	580-26451-1	G-TP3-052511-0.0-0.5	5/25/2011	0.5	<0.0011 H	<0.0011 H	<0.0022 H	<0.0022 H	<0.0022 H^	<0.0022 H	<0.0022 H	<0.0022 H	<0.0011 H	<0.0022 H	<0.0011 H	<0.0011 H	<0.0022 H
			G-TP3-052511-3.5-4.0	5/25/2011	4.0	<0.0011	<0.0011	0.0038	0.0087	0.0075 ^	<0.0023	<0.0023	<0.0023	<0.0011	<0.0023	<0.0011	<0.0011 ^	0.031
H	1	580-26451-1	H-TP1-052611-0.0-0.5	5/26/2011	0.5	<0.0011	<0.0011	<0.0021	0.0075	0.012 ^	<0.0021 ^	<0.0021 ^	<0.0021	<0.0011	<0.0021 ^	<0.0011	<0.0011	<0.0021 ^
			H-TP1-052611-3.5-4.0	5/26/2011	4.0	<0.0012	0.0017	0.0064	0.022	0.0055 ^	<0.0023	<0.0023 ^	<0.0023	<0.0012	<0.0023 ^	0.0019	<0.0012	<0.0023 ^
	2	580-26451-1	H-TP2-052611-1.0-1.5	5/26/2011	1.5	<0.0011	0.0028	<0.0021	0.013	0.026 ^	**0.0040**	<0.0021 ^	<0.0021	<0.0011	<0.0021 ^	0.0019	<0.0011	<0.0021 ^
			H-TP2-052611-2.0-2.5	5/26/2011	2.5	<0.0012	<0.0012	<0.0024	0.0056	0.0045 ^	<0.0024	<0.0024 ^	<0.0024	<0.0012 ^	<0.0024 ^	<0.0012	<0.0012	<0.0024
	3	580-26451-1	H-TP3-052611-0.0-0.5	5/26/2011	0.5	<0.0010	0.0032	0.0030	0.0044	0.0031	**0.0030**	<0.0021	<0.0021	<0.0010	<0.0021	0.0038	<0.0010	<0.0021
			H-TP3-052611-3.5-4.0	5/26/2011	4.0	<0.0011	<0.0011	0.0065	0.0042	<0.0022	<0.0022	<0.0022	<0.0022	<0.0011	<0.0022	<0.0011	<0.0011	<0.0022
I	1	580-26377-1	I-TP1-052411-0.0-0.5	5/24/2011	0.5	<0.0011	<0.0011	<0.0023	<0.0023	<0.0023 ^	<0.0023	<0.0023 ^	<0.0023	<0.0011	<0.0023 ^	<0.0011	<0.0011	<0.0023 ^
		580-26377-1	I-TP1-052411-6.0	5/24/2011	6.0	<0.0011	<0.0011	<0.0023	<0.0023	<0.0023 ^	<0.0023	<0.0023	<0.0023	<0.0011	<0.0023	<0.0011	<0.0011	<0.0023
	2	580-26377-1	I-TP2-052411-0.0-0.5	5/24/2011	0.5	<0.0010	<0.0010	<0.0020	0.0037	0.0035 ^	<0.0020	<0.0020 ^	<0.0020	<0.0010	<0.0020 ^	<0.0010	<0.0010	<0.0020
			I-TP2-052411-2.0-2.5	5/24/2011	2.5	<0.0011	<0.0011	<0.0023	<0.0023	<0.0023 ^	<0.0023	<0.0023 ^	<0.0023	<0.0011	<0.0023 ^	<0.0011	<0.0011	<0.0023
	3	580-26377-1	I-TP3-052411-0.0-0.5	5/24/2011	0.5	<0.0010	<0.0010	0.0052	0.0052	0.0022 ^	<0.0020	<0.0020 ^	<0.0020	<0.0010	<0.0020 ^	<0.0010	<0.0010	<0.0020
			I-TP3-052411-1.5	5/24/2011	1.5	<0.0011	<0.0011	0.028 P	<0.0022	<0.0022 ^	<0.0022	<0.0022 ^	<0.0022	<0.0011	<0.0022 ^	<0.0011	<0.0011	<0.0022
J	1	580-26377-1	J-TP1-052411-0.0-0.5	5/24/2011	0.5	<0.0010	<0.0010	0.0024	0.010	<0.0021 ^	<0.0021	<0.0021 ^	<0.0021	<0.0010	<0.0021 ^	<0.0010	<0.0010	<0.0021 ^
			J-TP1-052411-3.0-3.5	5/24/2011	3.5	<0.0016	<0.0016	<0.0033	<0.0033	<0.0033 ^	**<0.0033**	<0.0033 ^	<0.0033	<0.0016	<0.0033 ^	<0.0016	<0.0016	<0.0033 ^
	2	580-26377-1	J-TP2-052411-0.0-0.5	5/24/2011	0.5	<0.0011	<0.0011	<0.0021	0.024	0.030 ^	<0.0021	<0.0021 ^	0.0028	<0.0011	<0.0021 ^	<0.0011	<0.0011	<0.0021
			J-TP2-052411-2.0-2.5	5/24/2011	2.5	<0.0010 ^	0.0030 P^	<0.0021	0.0050 ^	0.022 P^	<0.0021 ^	<0.0021 ^	<0.0021	<0.0010	<0.0021 ^	0.0038 P^	<0.0010	<0.0021 ^
	3	580-26451-1	J-TP3-052511-0.5-1.0	5/25/2011	1.0	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020 ^	<0.0020	<0.0020 ^	<0.0020	<0.0010	<0.0020 ^	<0.0010	<0.0010	<0.0020 ^
			J-TP3-052511-3.5-4.0	5/25/2011	4.0	<0.0016	<0.0016	<0.0032	<0.0032	<0.0032 ^	**<0.0032**	<0.0032 ^	<0.0032	<0.0016	<0.0032 ^	<0.0016	<0.0016	<0.0032 ^
K	1	580-26377-1	K-TP1-052311-0.0-0.5	5/23/2011	0.5	<0.0011	<0.0011	<0.0022	0.0091	0.013 ^	**0.0029**	<0.0022 ^	<0.0022	<0.0011	<0.0022 ^	<0.0011	<0.0011	<0.0022 ^
			K-TP1-052311-2.0-2.5	5/23/2011	2.5	<0.0011	0.0086 P	<0.0022	<0.0022	<0.0022 ^	<0.0022	<0.0022 ^	<0.0022	<0.0011	<0.0022 ^	0.0095	<0.0011	<0.0022 ^
	2	580-26377-1	K-TP2-052311-1.0-1.5	5/23/2011	1.5	<0.0010	<0.0010	<0.0021	<0.0021	<0.0021 ^	<0.0021	<0.0021 ^	<0.0021	<0.0010	<0.0021 ^	<0.0010	<0.0010	<0.0021 ^
			K-TP2-052311-3.5-4.0	5/23/2011	4.0	<0.0012	<0.0012	<0.0023	<0.0023	<0.0023 ^	<0.0023	<0.0023 ^	<0.0023	<0.0012	<0.0023 ^	<0.0012	<0.0012	<0.0023 ^
	3	580-26377-1	K-TP3-052311-0.0-0.5	5/23/2011	0.5	<0.0010	<0.0010	<0.0021	0.0081	0.0038 ^	<0.0021	<0.0021 ^	<0.0021	<0.0010	<0.0021 ^	<0.0010	<0.0010	<0.0021 ^
			K-TP3-052311-2.0-2.5	5/23/2011	2.5	<0.0011	0.036 P	0.0051 P	0.0087	0.022 ^	**0.0055 ^P**	<0.0021 ^	<0.0021	0.0016 P	<0.0021 ^	0.041 P	<0.0011	<0.0021 ^
Preliminary Screening Levels						**0.00503** [5]	**0.2576** [5]	**0.3354** [5]	**0.4459** [5]	**3.485** [5]	**0.002817** [5]	**4.301** [5]	**0.0404** [5]	**0.01605** [5]	**NE**	**NE**	**0.22** [6]	**4,301** [5]

Table 4
Soil Analytical Results for Pesticides
Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Grid	Test Pit	Lab Report	Sample Identification	Sample Date	Sample Depth (feet) [1]	Analytical Results (milligrams per kilogram)[2]												
						Aldrin [3]	Alpha Chlordane [4]	4,4'-DDD [4]	4,4'-DDE [4]	4,4'-DDT [3]	Dieldrin [4]	Endosulfan Sulfate [3]	Endrin [4]	Heptachlor Epoxide [4]	Endrin Aldehyde [3]	Gamma Chlordane [3]	Heptachlor [3]	Endosulfan II
L	1	580-26377-1	L-TP1-052311-0.0-0.5	5/23/2011	0.5	<0.0011	<0.0011	<0.0021	<0.0021	<0.0021 ^	<0.0021	<0.0021 ^	<0.0021	<0.0011	<0.0021 ^	<0.0011	<0.0011	<0.0021 ^
			L-TP1-052311-3.0-3.5	5/23/2011	3.5	<0.0043	<0.0043	<0.0085	<0.0085	<0.0085 ^	**<0.0085**	<0.0085 ^	<0.0085	<0.0043	<0.0085 ^	<0.0043	<0.0043	<0.0085 ^
	2	580-26377-1	L-TP2-052311-0.0-0.5	5/23/2011	0.5	<0.0011	0.0029 P	0.0044	0.0059	0.013 ^	**0.0029**	<0.0021 ^	<0.0021	0.0024 P	<0.0021 ^	0.0027 P	<0.0011	0.0036 ^
			L-TP2-052311-2.0-2.5	5/23/2011	2.5	<0.0011	0.0017 P	0.0030	0.0035	0.0032 ^	<0.0021	<0.0021 ^	<0.0021	<0.0011	<0.0021 ^	0.0017	<0.0011	<0.0021 ^
	3	580-26377-1	L-TP3-052411-0.0-0.5	5/24/2011	0.5	<0.0010	0.013	0.0050	0.028	0.0041 ^	<0.0020	<0.0020 ^	0.0026	0.0023 P	<0.0020 ^	0.012	<0.0010	<0.0020 ^
			L-TP3-052511-2.0-2.5	5/24/2011	2.5	<0.0010	<0.0010	<0.0021	<0.0021	<0.0021 ^	<0.0021	<0.0021 ^	<0.0021	<0.0010	<0.0021 ^	<0.0010	<0.0010	<0.0021 ^
M	1	580-26451-1	M-TP1-052511-0.0-0.5	5/25/2011	0.5	<0.0011	<0.0011	0.0029	0.025	0.014 ^	<0.0022	<0.0022	<0.0022	<0.0011	<0.0022	<0.0011	<0.0011 ^	<0.0022
			M-TP1-052511-3.0-3.5	5/25/2011	3.5	<0.0012	<0.0012	<0.0024	0.0034	<0.0024 ^	<0.0024	<0.0024	<0.0024	<0.0012	<0.0024	<0.0012	<0.0012 ^	<0.0024
	2	580-26451-1	M-TP2-052511-0.0-0.5	5/25/2011	0.5	<0.0010	<0.0010	<0.0020	0.0035	0.019 ^	<0.0020	<0.0020 ^	<0.0020	<0.0010	<0.0020 ^	<0.0010	<0.0010	<0.0020 ^
			M-TP2-052511-3.5-4.0	5/25/2011	4.0	**0.0054**	0.0018 P	0.0049	0.0089	0.0038 ^	**0.014**	<0.0026 ^	<0.0026	<0.0013	<0.0026 ^	0.0022	<0.0013	<0.0026 ^
N	1	580-26377-1	N-TP1-052411-0.0-0.5	5/24/2011	0.5	<0.0011 ^	<0.0011 ^	<0.0022	<0.0022 ^	0.0046 ^	<0.0022 ^	<0.0022 ^	<0.0022	<0.0011	<0.0022 ^	<0.0011 ^	<0.0011	<0.0022 ^
			N-TP1-052411-2.0-2.5	5/24/2011	2.5	<0.0011	<0.0011	<0.0021	0.0024	0.0029 ^	<0.0021	<0.0021 ^	<0.0021	<0.0011	<0.0021 ^	<0.0011	<0.0011	<0.0021
Wetland Samples																		
E	WetSoil	580-26451-1	E-wetsoil-052611-0.0-0.5	5/26/2011	0.5	<0.0019	<0.0019	<0.0038	<0.0038	<0.0038	**<0.0038**	<0.0038	<0.0038	<0.0019	<0.0038	<0.0019	<0.0019	<0.0038
			E-wetsoil-052611-0.5-1.0	5/26/2011	1.0	<0.0011	<0.0011	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0011	<0.0022	<0.0011	<0.0011	<0.0022
	WetSoil-2	580-26451-1	E-wetsoil-2-052611-0.5-1.0	5/26/2011	1.0	<0.0011	<0.0011	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0011	<0.0023	<0.0011	<0.0011	<0.0023
			E-wetsoil-2-052611-1.0-2.0	5/26/2011	2.0	<0.0011	<0.0011	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0011	<0.0023	<0.0011	<0.0011	<0.0023
	Wetsed	580-26360-1	E-wetsed-1-053111	5/23/2011	0.5	<0.0021 H	<0.0021 H	<0.0042 H	<0.0042 H	<0.0042 H	**<0.0042 H**	<0.0042 H	<0.0042 H	<0.0021 H*	<0.0042 H	<0.0021 H	<0.0021 H	<0.0042 H
		580-26360-1	E-wetsed-2-053111	5/23/2011	0.5	<0.0022 H	<0.0022 H	<0.0044 H	<0.0044 H	<0.0044 H	**<0.0044 H**	<0.0044 H	<0.0044 H	<0.0022 H*	<0.0044 H	<0.0022 H	<0.0022 H	<0.0044 H
		580-26360-1	E-wetsed-3-053111	5/23/2011	0.5	<0.0023 H	<0.0023 H	<0.0047 H	<0.0047 H	<0.0047 H	**<0.0047 H**	<0.0047 H	<0.0047 H	<0.0023 H*	<0.0047 H	<0.0023 H	<0.0023 H	<0.0047 H
G	WetSoil	580-26451-1	G-wetsoil-052611-0.0-0.5	5/26/2011	0.5	<0.0012	<0.0012	<0.0024	<0.0024	<0.0024	<0.0024	<0.0024	<0.0024	<0.0012	<0.0024	<0.0012	<0.0012	<0.0024
			G-wetsoil-052611-1.0-2.0	5/26/2011	2.0	<0.0016	<0.0016	<0.0031	<0.0031	<0.0031	**<0.0031**	<0.0031	<0.0031	<0.0016	<0.0031	<0.0016	<0.0016	<0.0031
Preliminary Screening Levels						**0.00503** [5]	**0.2576** [5]	**0.3354** [5]	**0.4459** [5]	**3.485** [5]	**0.002817** [5]	**4.301** [5]	**0.0404** [5]	**0.01605** [5]	**NE**	**NE**	**0.22** [6]	**4,301** [5]

NOTES:

Results in **bold** denote concentrations at or above the Preliminary Screening Level indicated.

< denotes analyte not detected at or above the reporting limit listed.

[1] Depth in feet below ground surface.

[2] Analyzed by U.S. Environmental Protection Agency Method 8081.

[3] Compound was not retained as a COPC following completion of the June 2004 Revised Remedial Investigation.

[4] Identified and retained as a COPC in the June 2004 Revised Remedial Investigation Report.

[5] Preliminary screening level as identified in the May 2011 Feasibility Study Work Plan.

[6] Washington State Department of Ecology Cleanup Levels and Risk Calculations under the Washington State Model Toxics Control Act Cleanup Regulation, Version 3.1 Standard Method B Formula Values for Soil (Unrestricted Land Use) - Direct Contact (Ingestion Only) and Leaching Pathway, https://fortress.wa.gov/ecy/clarc/Reporting/ChemicalQuery.aspx

^ = Instrument-related quality control exceeds the control limits.

* = Response or retention time outside acceptable limits.

COPC = constituent of potential concern

H = Sample was prepped or analyzed beyond the specified holding time.

NE = Not established

P = The analyte was detected on both chromatographic columns, but the quantified values differ by ≥40 percent relative percent difference with no obvious chromatographic interference.

Table 5
Summary Groundwater Elevation Data
Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Well Number	Date Measured	Well Elevation[1]	Depth to Water (bgs)	Groundwater Elevation
MW-1	12/3/1997	1002.88	4.41	998.47
	3/3/1998		5.78	997.10
	6/3/1998		4.60	998.28
	9/2/1998		2.52	1,000.36
	12/3/2002		4.91	997.97
	6/1/2011		5.79	997.09
MW-2	12/3/1997	1002.59	5.15	997.44
	3/3/1998		6.75	995.84
	6/3/1998		5.46	997.13
	9/2/1998		3.36	999.23
	12/4/2002		5.86	996.73
	6/1/2011		6.93	995.66
MW-3	12/3/1997	1000.81	4.18	996.63
	3/3/1998		5.65	995.16
	6/3/1998		4.64	996.17
	9/2/1998		2.57	998.24
	12/4/2002		4.92	995.89
	6/1/2011		6.00	994.81
MW-4	12/3/1997	1000.82	4.56	996.26
	3/3/1998		6.02	994.80
	6/3/1998		5.02	995.80
	9/2/1998		3.03	997.79
	12/4/2002		5.36	995.46
	6/1/2011		6.45	994.37
MW-5	12/3/1997	1001.45	4.92	996.53
	3/3/1998		6.49	994.96
	6/3/1998		5.28	996.17
	9/2/1998		3.35	998.10
	12/4/2002		5.72	995.73
MW-6	12/3/1997	1002.28	5.23	997.05
	3/3/1998		6.78	995.50
	6/3/1998		5.56	996.72
	9/2/1998		3.50	998.78
	12/4/2002		5.94	996.34
	6/1/2011		7.06	995.22
WDOE-6	12/3/1997	1002.27	--	--
	3/3/1998		5.51	996.76
	6/3/1998		4.29	997.98
	9/2/1998		2.20	1,000.07
	12/3/2002		4.55	997.72
	6/1/2011		5.50	996.77
MW-7A	12/3/2002	999.96	5.57	994.39
	6/1/2011		6.83	993.13
MW-7B	12/3/2002	999.82	5.75	994.07
	6/1/2011		6.95	992.87
MW-10	6/1/2011	1002.99	7.31	995.68
MW-11	6/1/2011	1000.51	6.75	993.76

NOTES:

[1]Based on survey relative to City of Yakima NAVD29.

bgs = below ground surface

-- = not measured

Table 6
Groundwater Analytical Results for Volatile Organic Compounds
Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Location	Lab Report	Sample Date	Analytical Results (micrograms per liter)[1]											
			PCE [3]	TCE [3]	cis 1,2-DCE [3]	trans 1,2-DCE [2]	Vinyl Chloride [3]	1,1,1-TCA [2]	1,1-DCA [2]	MEK [2]	Acetone [2]	1,2-dichloropropane [3]	Chloroform [2]	Chloromethane [3]
MW-1	580-26540-1	12/3/1997	3.64	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		3/3/1998	3.39	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		6/3/1998	**6.5**	1.18	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	1.12	<1.0
		9/2/1998	4.22	0.71	0.25	<1.0	<1.0	0.15	<1.0	<1.0	<20	<1.0	1.88	<1.0
		12/3/2002	**6.0**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.0	<2.0
		6/2/2011	3.2	0.31	0.10	<0.10	<0.020	<0.10	<0.10	<2.0	<2.0	<0.10	2.2	<0.10
MW-2	580-26520-1	12/3/1997	<1.0	1.51	12.4	<1.0	**2.42**	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		3/3/1998	1.59	1.46	3.21	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		6/3/1998	<1.0	<1.0	7.13	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	**12.1**
		9/2/1998	1.27	3.06	17.6	0.36	<1.0	<1.0	0.19	<1.0	<20	<1.0	<1.0	<1.0
		12/4/2002	<2.0	<2.0	15.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
		6/1/2011	1.6	1.5	8.9	<0.10	0.025	<0.10	<0.10	<2.0	<2.0	<0.10	0.52	<0.10
MW-3	580-26520-1	12/3/1997	**6.06**	1.07	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		3/3/1998	4.44	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		6/3/1998	4.52	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	1.3	**9.24**
		9/2/1998	**5.37**	0.81	0.22	<1.0	<1.0	<1.0	<1.0	0.23	<20	<1.0	1.93	<1.0
		12/4/2002	**6.0**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<2.0
		6/1/2011	3.2	0.23	<0.10	<0.10	<0.020	<0.10	<0.10	<2.0	<2.0	<0.10	1.9	<0.10
MW-4	580-26520-1	12/3/1997	3.32	<1.0	5.23	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		3/3/1998	3.78	<1.0	1.64	<1.0	<1.0	<1.0	<1.0	<1.0	24.1	<1.0	<1.0	<1.0
		6/3/1998	3.86	<1.0	3.25	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	2.78
		9/2/1998	3.12	0.84	4.34	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	1.15	<1.0
		12/4/2002	**5.0**	<2.0	5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
		6/1/2011	2.2	0.29	0.87	<0.10	<0.020	<0.10	<0.10	<2.0	<2.0	<0.10	1.7	<0.10
MW-5 [5]	NA	12/3/1997	3.98	1.10	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		3/3/1998	2.25	1.02	4.5	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		6/3/1998	2.72	<1.0	2.52	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	2.59
		9/2/1998	2.65	0.89	2.87	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	0.85	<1.0
		12/4/2002	**5.0**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-6	580-26520-1	12/3/1997	<1.0	<1.0	7.68	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		3/3/1998	<1.0	<1.0	13.2	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		6/3/1998	<1.0	<1.0	13.3	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		9/2/1998	<1.0	0.33	7.08	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		12/4/2002	**6.0**	**74.0**	**270**	<2.0	**4**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
		6/1/2011	<0.10	<0.10	6.6	<0.10	0.20	<0.10	<0.10	<2.0	<2.0	<0.10	<0.10	<0.10
Preliminary Screening Level[4]			**5.0**	**3.98**	**70**	**100**	**0.0292**	**7,200**	**800**	**4,800**	**800**	**0.643**	**7.17**	**3.37**

Table 6
Groundwater Analytical Results for Volatile Organic Compounds
Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Location	Lab Report	Sample Date	Analytical Results (micrograms per liter)[1]											
			PCE [3]	TCE [3]	cis 1,2-DCE [3]	trans 1,2-DCE [2]	Vinyl Chloride [3]	1,1,1-TCA [2]	1,1-DCA [2]	MEK [2]	Acetone [2]	1,2-dichloropropane [3]	Chloroform [2]	Chloromethane [3]
WDOE-6	580-26540-1	May-92	**420**	**430**	**270**	<1.0	<10	<1.0	<1.0	<1.0	<20	<1.0	<5.0	<1.0
		12/3/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		3/3/1998	**49.6**	**108**	**83.7**	2.34	**4.24**	<1.0	<1.0	<1.0	<20	**1.73**	<1.0	<1.0
		6/3/1998	**75.6**	**60.4**	45.6	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		9/2/1998	**20.8**	**18.7**	11.4	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		12/3/2002	<2.0	<2.0	14.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
		6/1/2011	**5.7**	**31**	**300**	0.57	**37**	<0.10	3.1	<2.0	<2.0	<0.10	<0.10	<0.10
MW-7A	580-26540-1	12/3/2002	<2.0	<2.0	4.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20	<1.0	<2	<2
		6/2/2011	<0.10	<0.10	<0.10	<0.10	<0.020	<0.10	<0.10	<2.0	<2.0	<0.10	<0.10	<0.10
MW-7B	580-26540-1	12/3/2002	2.0	<2.0	12.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
		6/2/2011	1.9	0.44	3.8	<0.10	<0.020	<0.10	<0.10	<2.0	<2.0	<0.10	1.1	<0.10
MW-10	580-26540-1	6/2/2011	1.8	0.10	<0.10	<0.10	<0.020	<0.10	<0.10	<2.0	<2.0	<0.10	1.5	<0.10
MW-11	580-26540-1	6/2/2011	1.6	0.22	<0.10	<0.10	<0.020	<0.10	<0.10	<2.0	<2.0	<0.10	1.3	<0.10
Preliminary Screening Level[4]			**5.0**	**3.98**	**70**	**100**	**0.0292**	**7,200**	**800**	**4,800**	**800**	**0.643**	**7.17**	**3.37**

NOTES:

Results in **bold** denote concentrations above preliminary screening levels.

< denotes analyte not detected at or above the reporting limit listed.

[1] Analyzed by U.S. Environmental Protection Agency Method 8260B.

[2] Compound was not retained as a COPC following completion of the 2004 Revised Remedial Investigation Report.

[3] Identified and retained as a COPC in the June 2004 Remedial Investigation Report.

[4] Preliminary screening level as identified in the June 2004 Revised Remedial Investigation Report.

[5] Monitoring well MW-5 was decommissioned in 2007 during Bay Chemical Cleanup.

1,1-DCA = 1,1-dichloroethane

1,1,1-TCA = 1,1,1-trichloroethane

cis-1,2-DCE = cis-1,2-dichloroethene

COPC = constituent of potential concern

MEK = methyl ethyl ketone

NA = not analyzed

PCE = tetrachloroethene

TCE = trichloroethene

trans 1,2-DCE = trans 1,2-dichloroethene

Table 7
Groundwater Analytical Results for Metals
Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Location	Lab Report	Sample Date	Analytical Results (micrograms per liter)															
			Antimony[1,3]		Arsenic[1,3]		Cadmium[1,4]		Copper[1,3]		Lead[1,3]		Manganese[1,3]		Mercury[2,4]		Zinc[1,3]	
			Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-1	580-26540-1	6/2/2011	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	70	<2.0	<0.20	<0.20	<7.0	<7.0
MW-2	580-26520-1	6/1/2011	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	180	190	<0.20	<0.20	540	550
MW-3	580-26520-1	6/1/2011	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<0.20	<0.20	7.3	<7.0
MW-4	580-26520-1	6/1/2011	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	11	<2.0	<0.20	<0.20	<7.0	<7.0
MW-6	580-26520-1	6/1/2011	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	280	280	<0.20	<0.20	<7.0	<7.0
WDOE-6	580-26540-1	6/2/2011	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	400	420	<0.20	<0.20	450	99
MW-7A	580-26540-1	6/2/2011	5.4	5.4	**6.4**	**6.0**	<2.0	<2.0	6.3	6.0	<2.0	<2.0	5.3	3.5	<0.20	<0.20	37	40
MW-7B	580-26540-1	6/2/2011	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<0.20	<0.20	<7.0	11
MW-10	580-26540-1	6/2/2011	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<0.20	<0.20	70	72
MW-11	580-26540-1	6/2/2011	<2.0	<2.0	<2.0	<2.0	**22**	**22**	<5.0	<5.0	3.8	<2.0	180	18	<0.20	<0.20	**7,700**	**7,500**
Preliminary Screening Level			**6.4** [5]		**5.0** [5]		**5.0** [5]		**592** [5]		**15** [5]		**2,200** [6]		**2.0** [5]		**4,800** [5]	

NOTES:

Results in **bold** denote concentrations above preliminary screening levels.

COPC = constituent of potential concern

< denotes analyte not detected at or above the reporting limit listed.

[1]Analyzed by U.S. Environmental Protection Agency Method 6020.

[2]Analyzed by U.S. Environmental Protection Agency Method 7470A.

[3] Constituent was not retained as a COPC following completion of the June 2004 Revised Remedial Investigation Report.

[4] Identified and retained as COPC in June 2004 Revised Remedial Investigation Report.

[5] Preliminary screening level as identified in the June 2004 Revised Remedial Investigation Report.

[6] Washington State Department of Ecology Cleanup Levels and Risk Calculations under the Washington State Model Toxics Control Act Cleanup Regulation, Version 3.1 Standard Method B Formula Values for Soil (Unrestricted Land Use) - Direct Contact (Ingestion Only) and Leaching Pathway, https://fortress.wa.gov/ecy/clarc/Reporting/ChemicalQuery.aspx

Table 8

DRAFT - Issued for Client Review

Groundwater Analytical Restults for Organochlorine Pesticides
Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Location	Lab Report	Sample Date	Analytical Results (micrograms per liter)[1]			
			4,4-DDD [3]	4,4-DDE [3]	Dieldrin [3]	gamma-Chlordane [2]
MW-1	580-26540-1	12/3/1997	<0.1	<0.1	<0.1	--
		3/3/1998	<0.1	<0.1	<0.1	--
		6/3/1998	--	--	--	--
		9/2/1998	--	--	--	--
		12/3/2002	--	--	--	--
		6/2/2011	<0.020	<0.020	<0.020	<0.010
MW-2	580-26520-1	12/3/1997	<0.1	**0.119**	**0.102**	--
		3/3/1998	<0.1	<0.1	<0.1	--
		6/3/1998	<0.1	<0.1	<0.1	--
		9/2/1998	<0.1	<0.1	<0.1	--
		12/4/2002	<0.05	<0.05	**0.05**	--
		6/1/2011	<0.021	<0.021	**0.033**	<0.010
MW-3	580-26520-1	12/3/1997	<0.1	<0.1	<1.0	--
		3/3/1998	<0.1	<0.1	<1.0	--
		6/3/1998	<0.1	<0.1	<1.0	--
		9/2/1998	<0.1	<0.1	<1.0	--
		12/4/2002	--	--	--	--
		6/1/2011	<0.020	<0.020	<0.020	<0.010
MW-4	580-26520-1	12/3/1997	<0.1	<0.1	<0.1	--
		3/3/1998	<0.1	<0.1	<0.1	--
		6/3/1998	--	--	--	--
		9/2/1998	--	--	--	--
		12/4/2002	--	--	--	--
		6/1/2011	<0.019	<0.019	<0.019	<0.0097
MW-5 [4]	NA	12/3/1997	<0.1	<0.1	<0.1	--
		3/3/1998	<0.1	<0.1	<0.1	--
		6/3/1998	--	--	--	--
		9/2/1998	--	--	--	--
		12/4/2002	--	--	--	--
MW-6	580-26520-1	12/3/1997	<0.1	<0.1	<0.1	--
		3/3/1998	<0.1	<0.1	<0.1	--
		6/3/1998	--	--	--	--
		9/2/1998	<0.1	<0.1	<0.1	--
		12/4/2002	--	--	--	--
		6/1/2011	<0.019	<0.019	<0.019	<0.0097
WDOE-6	580-26540-1	May-92	**0.48**	<0.50	**1.1**	--
		12/3/1997	--	--	--	--
		3/3/1998	<0.1	<0.1	**0.226**	--
		6/3/1998	**0.296**	**0.586**	**0.242**	--
		9/2/1998	**0.100**	**0.334**	<0.1	--
		12/3/2002	**0.13**	<0.05	<0.05	--
		6/2/2011	0.028	<0.020	**0.063**	0.011
MW-7A	580-26540-1	12/3/2002	--	--	--	--
		6/2/2011	<0.020	<0.020	<0.020	<0.0099
MW-7B	580-26540-1	12/3/2002	--	--	--	--
		6/2/2011	<0.020	<0.020	<0.020	<0.010
MW-10	580-26540-1	6/2/2011	<0.020	<0.020	<0.020	<0.010
MW-11	580-26540-1	6/2/2011	<0.020	<0.020	<0.020	<0.010
Preliminary Screening Level[5]			**0.365**	**0.257**	**0.0055**	**0.25**

Notes:

Results in **bold** denote concentrations above preliminary screening levels.

COPC = constituent of potential concern

< denotes analyte not detected at or above the reporting limit listed.

-- = denotes sample not analyzed

[1] Analyzed by U.S. Environmental Protection Agency Method 8081A.

[2] Constituent was not retained as a COPC following completion of the June 2004 Revised Remedial Investigation Report.

[3] Identified and retained as COPC in June 2004 Revised Remedial Investigation Report.

[4] Monitoring well MW-5 was decommissioned in 2007 during bay Chemical Cleanup.

[5] Preliminary screening level as identified in the June 2004 Revised Remedial Investigation Report.

Table 9
Groundater Analytical Results for Natural Attenuation Parameters
Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Location	Lab Report	Sample Identification	Sampled By	Sample Date	Analytical Results (milligrams per liter)										
					Alkalinity[1]	Sulfate[2]	Sulfide[3]	Methane[4]	Ethane[4]	Ethylene[4]	Ferrous Iron[5]	Nitrate[6]	Total Phosphate[7]	Chloride[8]	Total Organic Carbon[9]
MW-1	580-26540-1	MW-1-060211	AGRA	12/3/1997	**144**	**81.3**	--	--	--	--	--	--	--	--	--
			AGRA	3/3/1998	**96.3**	**25.4**	--	--	--	--	--	--	--	--	--
			AGRA	6/3/1998	**96**	**20.6**	--	--	--	--	--	--	--	--	--
			AGRA	9/2/1998	**102**	**61.1**	--	--	--	--	--	--	--	--	--
			Farallon	12/3/2002	**74**	**25**	<0.050	<0.01	<0.01	<0.01	**0.088**	**2.9**	**0.2**	**12**	**1.1**
			Farallon	6/2/2011	**81**	**16**	--	<0.00058	<0.0011	<0.001	--	**4.0**	--	**22**	**1.4**
MW-2	580-26520-1	MW-2-060111	AGRA	12/3/1997	**166**	**134**	--	--	--	--	--	--	--	--	--
			AGRA	3/3/1998	**116**	**35.1**	--	--	--	--	--	--	--	--	--
			AGRA	6/3/1998	**104**	**59.5**	--	--	--	--	--	--	--	--	--
			AGRA	9/2/1998	**84**	**758**	--	--	--	--	--	--	--	--	--
			Farallon	12/4/2002	**79**	**46**	<0.050	**0.02**	<0.01	<0.01	**0.19**	<0.010	**0.57**	**12**	**1.8**
			Farallon	6/1/2011	**97**	**39**	--	<0.00058	<0.0011	<0.001	--	**1.7**	--	**20**	**1.5**
MW-3	580-26520-1	MW-3-060111	AGRA	12/3/1997	**156**	**21.1**	--	--	--	--	--	--	--	--	--
			AGRA	3/3/1998	**110**	**18.2**	--	--	--	--	--	--	--	--	--
			AGRA	6/3/1998	**102**	**17.4**	--	--	--	--	--	--	--	--	--
			AGRA	9/2/1998	**108**	**32.4**	--	--	--	--	--	--	--	--	--
			Farallon	12/4/2002	NA	NA	--	--	--	--	--	--	--	--	--
			Farallon	6/1/2011	NA	NA	--	--	--	--	--	--	--	--	--
MW-4	580-26520-1	MW-4-060111	AGRA	12/3/1997	**188**	**52**	--	--	--	--	--	--	--	--	--
			AGRA	3/3/1998	**113**	**23.1**	--	--	--	--	--	--	--	--	--
			AGRA	6/3/1998	**110**	**26**	--	--	--	--	--	--	--	--	--
			AGRA	9/2/1998	**110**	**55.2**	--	--	--	--	--	--	--	--	--
			Farallon	12/4/2002	**79**	**34**	<0.050	<0.01	<0.01	<0.01	**0.039**	**2.3**	**0.12**	**12**	**1.8**
			Farallon	6/1/2011	--	--	--	--	--	--	--	--	--	--	--
MW-5 [10]	NA	MW-5	AGRA	12/3/1997	**155**	**86.1**	--	--	--	--	--	--	--	--	--
			AGRA	3/3/1998	**114**	**50.3**	--	--	--	--	--	--	--	--	--
			AGRA	6/3/1998	**103**	**61.9**	--	--	--	--	--	--	--	--	--
			AGRA	9/2/1998	**104**	**91.7**	--	--	--	--	--	--	--	--	--
			Farallon	12/4/2002	**74**	**42**	<0.050	<0.01	<0.01	<0.01	**0.044**	**2**	**0.11**	**12**	**0.75**
MW-6	580-26520-1	MW-6-060111	AGRA	12/3/1997	**180**	**81.4**	--	--	--	--	--	--	--	--	--
			AGRA	3/3/1998	**115**	**68.1**	--	--	--	--	--	--	--	--	--
			AGRA	6/3/1998	**99**	**82.7**	--	--	--	--	--	--	--	--	--
			AGRA	9/2/1998	**124**	**147**	--	--	--	--	--	--	--	--	--
			Farallon	12/4/2002	**81**	**61**	<0.050	**0.11**	<0.01	<0.01	**0.46**	**0.027**	**0.12**	**12**	**0.79**
			Farallon	6/1/2011	**72**	**120**	--	**0.0017**	<0.0011	<0.001	--	<0.90	--	**20**	**1.1**
WDOE-6	580-26540-1	WDOE-6-060211	AGRA	3/3/1998	**85.5**	**209**	--	--	--	--	--	--	--	--	--
			AGRA	6/3/1998	**79**	**74.8**	--	--	--	--	--	--	--	--	--
			AGRA	9/2/1998	**97**	**95.6**	--	--	--	--	--	--	--	--	--
			Farallon	12/3/2002	**78**	**57**	**0.2**	**0.04**	<0.01	<0.01	**4.1**	**0.019**	**0.091**	**14**	**2**
			Farallon	6/2/2011	**36**	**160**		**0.0039**	<0.0011	<0.001		<0.90		**21**	**1.3**
MW-7A	580-26540-1	MW-7A-060211	Farallon	12/3/2002	**210**	**130**	<0.050	**0.12**	<0.01	<0.01	**0.035**	**0.011**	**0.068**	**16**	**4.5**
			Farallon	6/2/2011	**160**	**150**	--	**0.0017**	<0.0011	<0.001	--	**4.7**	--	**11**	**7.8**
MW-7B	580-26540-1	MW-7B-060211	Farallon	12/3/2002	--	--	--	--	--	--	--	--	--	--	--
			Farallon	6/2/2011	--	--	--	--	--	--	--	--	--	--	--
MW-10	580-26540-1	MW-10-060211	Farallon	6/2/2011	--	--	--	--	--	--	--	--	--	--	--
MW-11	580-26540-1	MW-11-060211	Farallon	6/2/2011	--	--	--	--	--	--	--	--	--	--	--

NOTES:

Results in **bold** denote analyte not detected above the laboratory practical quantitation limit.

< denotes concentration not detected at or above the laboratory practical quantitation limit initiated.

-- = denotes sample not analyzed

EPA = U.S. Environmental Protection Agency

[1]Analyzed by EPA Method 310.1.

[2]Analyzed by EPA Method 375.4.

[3]Analyzed by EPA Method 376.1.

[4]Analyzed by Method -GC in house.

[5]Analyzed by Method SM18 3500FED.

[6]Analyzed by EPA Method 353.2, 354.1.

[7]Analyzed by EPA Method 365.1.

[8]Analyzed by EPA Method 325.3.

[9]Analyzed by EPA Method 415.2.

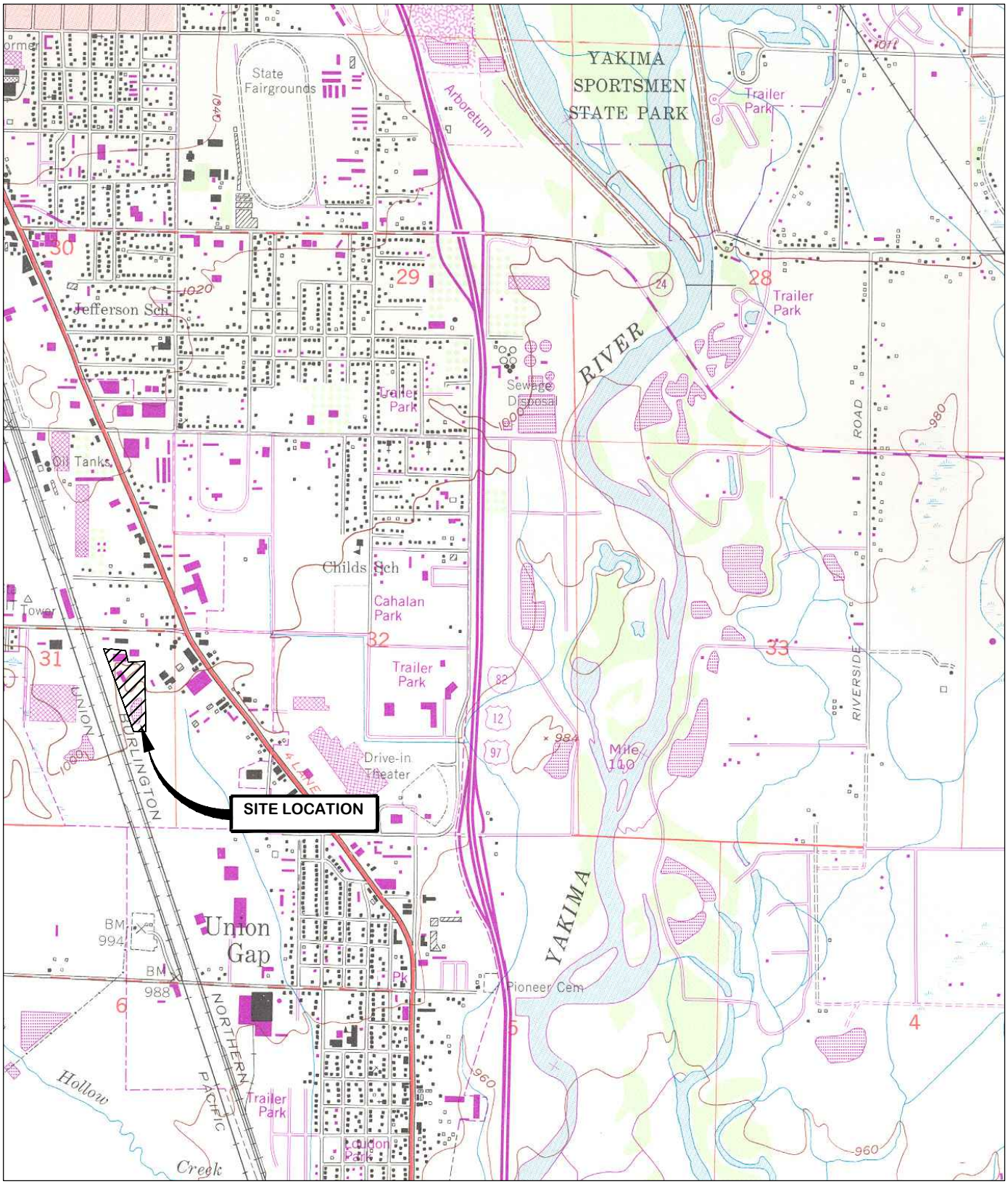
[10] Monitoring well MW-5 decommissioned in 2007 during Bay Chemical Cleanup.

ATTACHMENT C
METALS SOURCE TM FIGURES AND TABLES

CONCEPTUAL SITE MODEL TECHNICAL MEMORANDUM

Agri-Tech and Yakima Steel Fabricators Site
Yakima Steel Fabricators
Yakima, Washington

Farallon PN: 765-001



REFERENCE: 7.5 MINUTE USGS QUADRANGLE YAKIMA SOUTH, WASHINGTON. DATED 1953 AND PHOTOREVISED 1981

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Oregon
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California
Oakland | Sacramento | Irvine

FIGURE 1

SITE VICINITY MAP
YSF/AGRI-TECH SITE
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: DEW | Checked By: HC | Date: 1/25/2016 | Disk Reference: 765001a

LEGEND

SITE BOUNDARY

TAX PARCEL BOUNDARY

FENCE

RAILROAD

FORMER BAY CHEMICAL FLUE DUST STOCKPILE AREA

FORMER BAY CHEMICAL SLUDGE SETTLING POND AREA

PARCEL # 19133141010
BAY CHEMICAL SITE

PARCEL # 19133141408

- ASPHALT -

AGRI-TECH BUILDING

PARCEL # 19133141409

BUILDING

EAST WASHINGTON AVENUE

OFFICES

YAKIMA STEEL FABRICATORS BUILDING

FABRICATION AREA

FABRICATION AND LOADING AREA

EDGE OF PAVEMENT

CONCRETE PAD

PARCEL # 19133141005

- GRAVEL -

PARCEL # 19133141011

- ASPHALT -

BUILDING

BNSF RAILROAD SPUR

PARCEL # 19133114003

- GRAVEL -

UNPAVED ROAD

- ASPHALT -

STEEL STORAGE AREA

- DITCH -

OLD BARB WIRE FENCE

FORMER POND CURRENT WETLANDS AREA

MATERIALS STORAGE AREA

- GRAVEL -

PARCEL # 19133141009

- GRAVEL -

- DITCH -

- DITCH -

PARCEL # 19133232408

PARCEL # 19133232433

CASCADE AUTO RECYCLING

PARCEL # 19133141406

PARCEL # 19133233009

N

0 100

APPROXIMATE SCALE IN FEET

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FIGURE 2

SITE PLAN AND TAX PARCEL LOCATIONS
YSF/AGRI-TECH SITE
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: DEW Checked By: HC Date: 1/25/2016 Disk Reference: 765001a

LEGEND

- APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT
- **AREA 1** FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION
- **AREA 2** FORMER YAKIMA FARMERS SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS
- **AREA 3** YAKIMA STEEEL STORAGE YARD AND WETLAND AREA
- SITE BOUNDARY
- TAX PARCEL BOUNDARY
- FENCE
- RAILROAD

- PIT B — WASHINGTON STATE DEPARTMENT OF ECOLOGY (ECOLOGY) TEST PIT (JULY 2007)
- TP−2 — ENVIRONMENTAL PARTNERS, INC. TEST PIT (2007)
- SP-25 — DIRECT PUSH SOIL BORING LOCATION AGRA EARTH AND ENVIRONMENTAL INC. (1997)
- M — ECOLOGY SAMPLING GRID DESIGNATION

SOIL ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM
DEPTH IN INCHES BELOW GROUND SURFACE

BOLD = INDICATES CONCENTRATION EXCEEDS WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION METHOD B CLEANUP LEVELS PRESENTED IN THE REMEDIAL INVESTIGATION REPORT (FARALLON 2004)

< = INDICATES CONCENTRATIONS NOT DETECTED AT OR ABOVE THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT

NA = NOT ANALYZED

Sb = ANTIMONY
As = ARSENIC
Cd = CADMIUM
Cr = CHROMIUM
Cu = COPPER
Pb = LEAD
Mn = MANGANESE
Hg = MERCURY
Ni = NICKEL
Ag = SILVER
Tl = THALLIUM
Zn = ZINC

BAY CHEMICAL CLEANUP AREA
APPROXIMATE EXCAVATION DEPTH IN FEET BELOW GROUND SURFACE

- 0-2
- 2-4
- 4-6
- >6

NOTE:

1. LOCATIONS OF ALL TEST PITS BY ECOLOGY ARE APPROXIMATED. COORDINATES PROVIDED BY ECOLOGY DID NOT PLOT IN CORRESPONDING SAMPLING GRID IN ALL CASES. FARALLON SHIFTED TEST PIT LOCATIONS TO THE APPROPRIATE SAMPLING GRID AND ESTIMATED THE TEST PIT LOCATION ON BEST AVAILABLE INFORMATION.
2. FIGURE INCLUDES INFORMATION PRESENTED IN COLOR. PHOTOCOPYING MAY NOT BE APPROPRIATE.

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
0	NA	2.9	**15.3**	NA	57.9	762	515	NA	NA	NA	NA	3,100

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
24"	NA	<5.0	**330**	NA	1,820	**22,500**	**12,500**	NA	NA	NA	NA	**123,000**

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
26"	**65**	<5.0	**310**	490	2,000	**27,000**	NA	**14**	110	43	39	**140,000**

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
6"	NA	13	**7.6**	NA	944	674	645	NA	NA	NA	NA	2,200

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
28"	<3.0	<5.0	2.0	6.7	35	300	NA	0.09	18	<5.0	<10	150

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
6"	NA	13.0	**4.22**	NA	136	290	524	NA	NA	NA	NA	1,200

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
16"	<3.0	<5.0	**6.9**	16	51	630	NA	0.26	18	<5.0	<10	2,100

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
24"	NA	11.9	**5.38**	NA	79.8	439	569	NA	NA	NA	NA	1,710

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
24"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
24"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
24"	NA	12.5	1.1	NA	62.0	409	369	NA	NA	NA	NA	465

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
6"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
18"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
12"	<3.0	<5.0	1.3	15	22	170	NA	0.23	20	<5.0	<10	310

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
12"	NA	6.17	0.67	NA	30.4	212	336	NA	NA	NA	NA	369

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
0	NA	1.5	<0.10	NA	77.4	5.67	160	NA	NA	NA	NA	69

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
0	<3.0	<5.0	1.2	8.6	21	31	NA	0.04	21	<5.0	<10	99

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
0.5"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

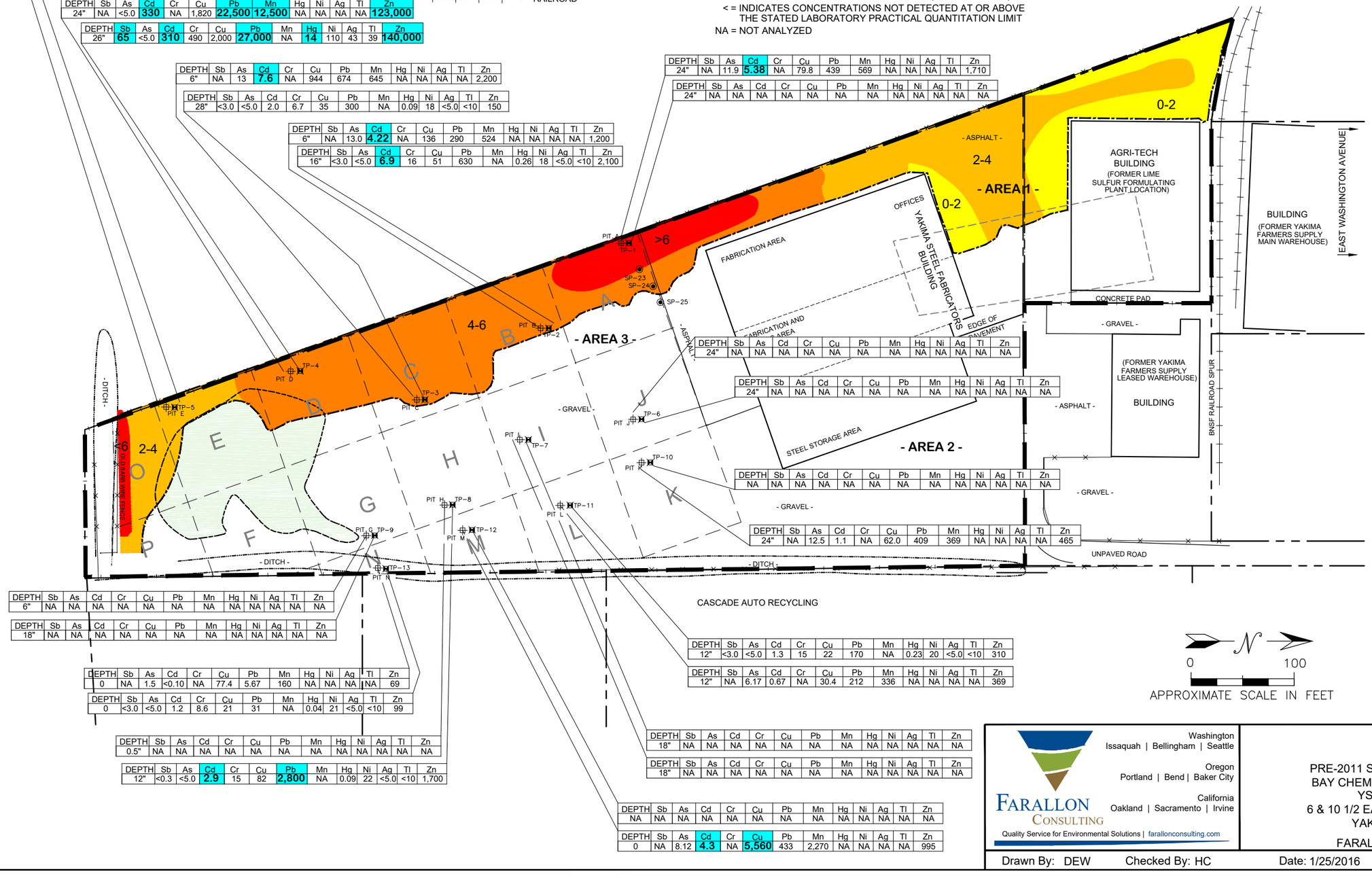
DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
12"	<0.3	<5.0	**2.9**	15	82	**2,800**	NA	0.09	22	<5.0	<10	1,700

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
18"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
18"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

DEPTH	Sb	As	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Ag	Tl	Zn
0	NA	8.12	**4.3**	NA	**5,560**	433	2,270	NA	NA	NA	NA	995



0 100
APPROXIMATE SCALE IN FEET

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FIGURE 3

PRE-2011 SAMPLING LOCATIONS AND
BAY CHEMICAL SOIL REMOVAL AREA
YSF/AGRI-TECH SITE
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

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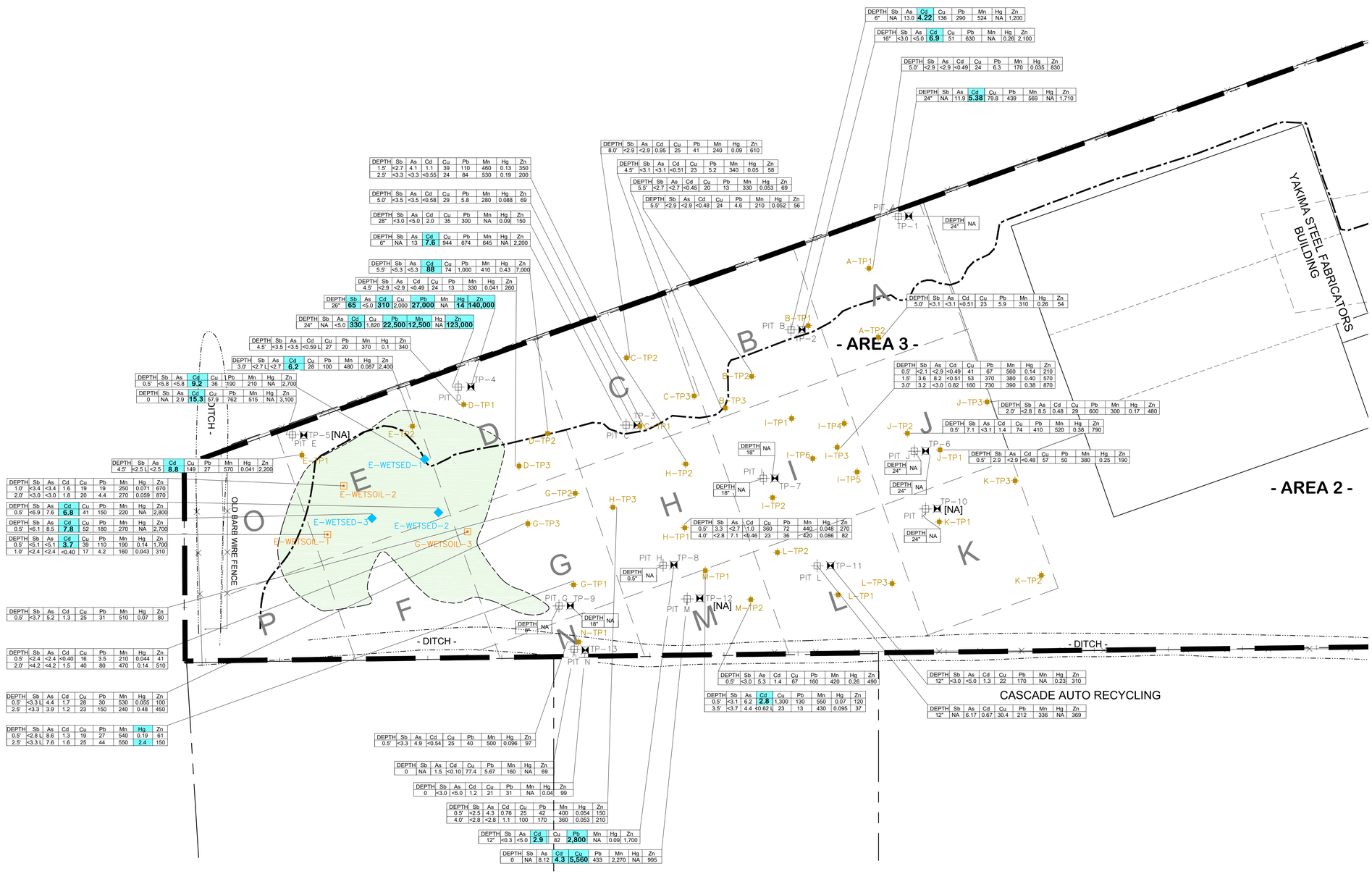
Drawn By: DEW | Checked By: HC | Date: 1/25/2016 | Disk Reference: 765001a



LEGEND

- APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT
- **AREA 1** FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION
- **AREA 2** FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS
- **AREA 3** YAKIMA STEEEL STORAGE YARD AND WETLAND AREA
- SITE BOUNDARY
- TAX PARCEL BOUNDARY
- FENCE
- RAILROAD
- BAY CHEMICAL CLEANUP AREA
- D–TP3 TEST PIT LOCATION FARALLON CONSULTING (2011)
- E–WETSED–1 WET SEDIMENT SAMPLE LOCATION FARALLON CONSULTING (2011)
- E–WETSOIL–2 WET SOIL SAMPLE LOCATION FARALLON CONSULTING (2011)
- PIT B WASHINGTON STATE DEPARTMENT OF ECOLOGY (ECOLOGY) TEST PIT (2007)
- TP–2 ENVIRONMENTAL PARTNERS, INC. TEST PIT (2007)
- M ECOLOGY SAMPLING GRID DESIGNATION
- ESTIMATED LATERAL EXTENT OF TYPE 3 WETLAND (EXISTING POND)

Sb = ANTIMONY
As = ARSENIC
Cd = CADMIUM
Cu = COPPER
Pb = LEAD
Mn = MANGANESE
Hg = MERCURY
Zn = ZINC
NA = NOT ANALYZED
< = INDICATES CONCENTRATIONS NOT DETECTED AT OR ABOVE THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT

SOIL ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM
DEPTH IN INCHES BELOW GROUND SURFACE

Sb	As	Cd	Cu	Pb	Mn	Hg	Zn
32	20	200	2,960	1,000	11,000	2.0	24,000

ANALYTE HIGHLIGHTED IN BLUE EXCEEDS PRELIMINARY SCREENING LEVEL INDICATED IN TABLE ABOVE.

N

0 40
APPROXIMATE SCALE IN FEET

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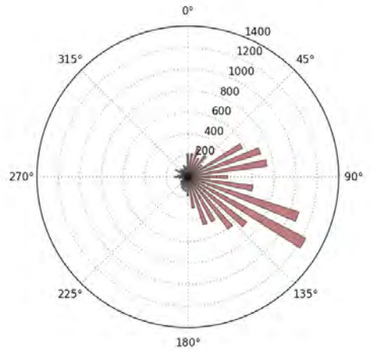
FIGURE 4

CONCENTRATIONS OF METALS IN SOIL
YSF/AGRI-TECH SITE
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

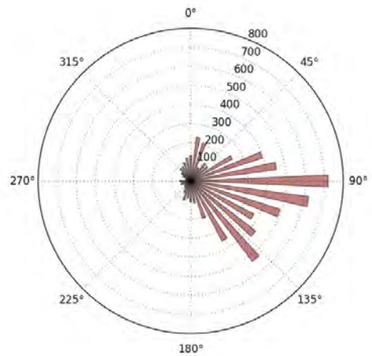
FARALLON PN: 765-001

Drawn By: DEW | Checked By: JK | Date: 1/25/2016 | Disk Reference: 765001A

WIND 1-MINUTE MAXIMUM SPEED PLOT OF DIRECTION OF TRANSPORT



WIND 2-MINUTE MAXIMUM SPEED PLOT OF DIRECTION OF TRANSPORT



NOTE:
ROSE DIAGRAMS SHOW THE DIRECTION OF TRANSPORT FOR THE FASTEST 1- AND 2-MINUTE WIND INTERVAL RECORDED EACH DAY. 1-MINUTE DATA COVERS THE PERIOD FROM 1965 TO 2015. 2-MINUTE DATA COVERS THE PERIOD FROM 1995 TO 2015. THE LENGTH OF EACH PETAL ON THE ROSE REFLECTS THE TOTAL NUMBER OF DAYS THE MAXIMUM WIND WAS RECORDED BLOWING THAT DIRECTION.

LEGEND

- FORMER BAY CHEMICAL SITE FEATURES
- YAKIMA STEEL FABRICATORS/AGRI-TECH APPROXIMATE SITE BOUNDARY

N

0 160

Scale in Feet

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FIGURE 5

WIND TRANSPORT DATA FOR SITE VICINITY
YSF/AGRI-TECH SITE
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

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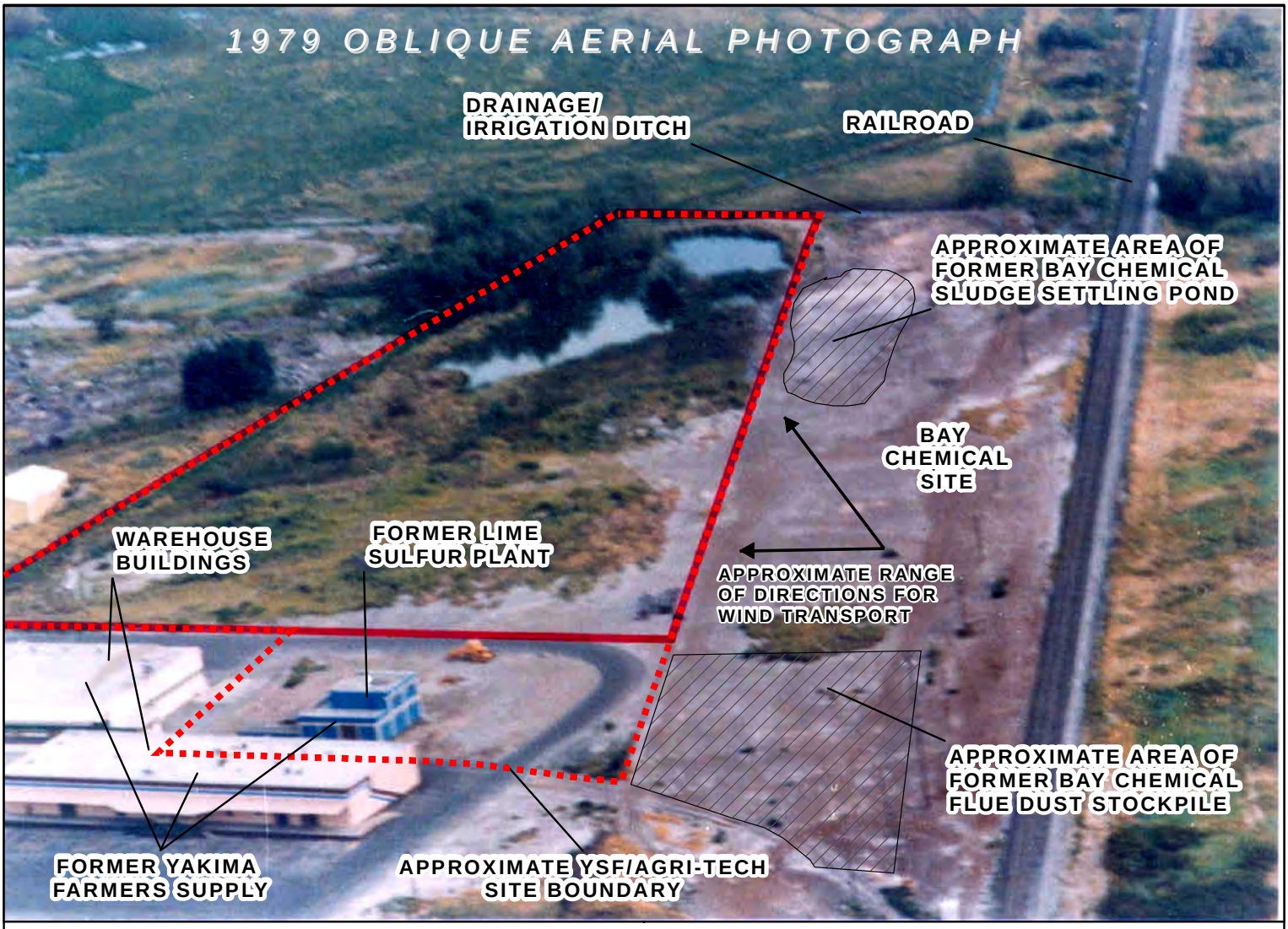

LEGEND

APPROXIMATE SITE BOUNDARY

NOT TO SCALE

N

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FIGURE 6

1979 OBLIQUE AERIAL PHOTOGRAPH OF SITE
YSF/AGRI-TECH SITE
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

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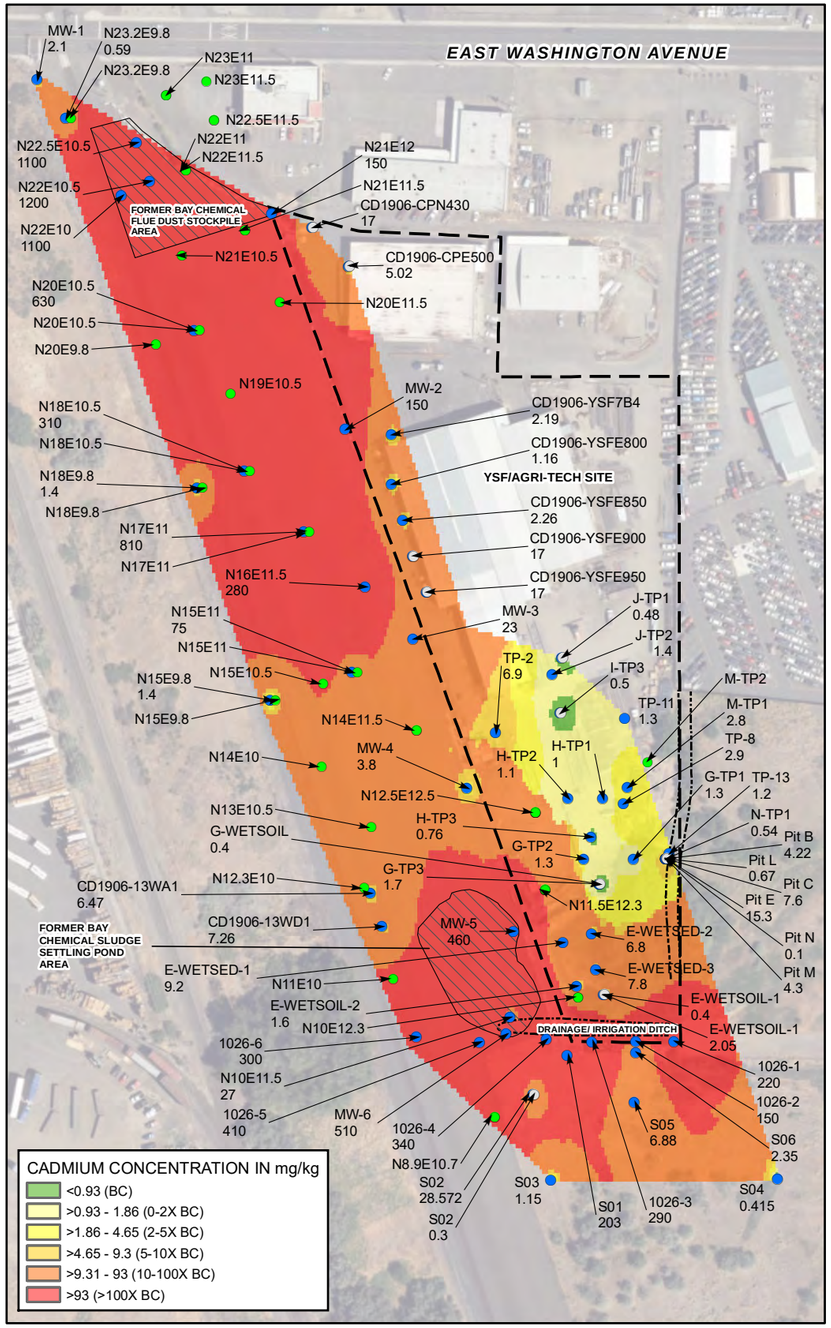

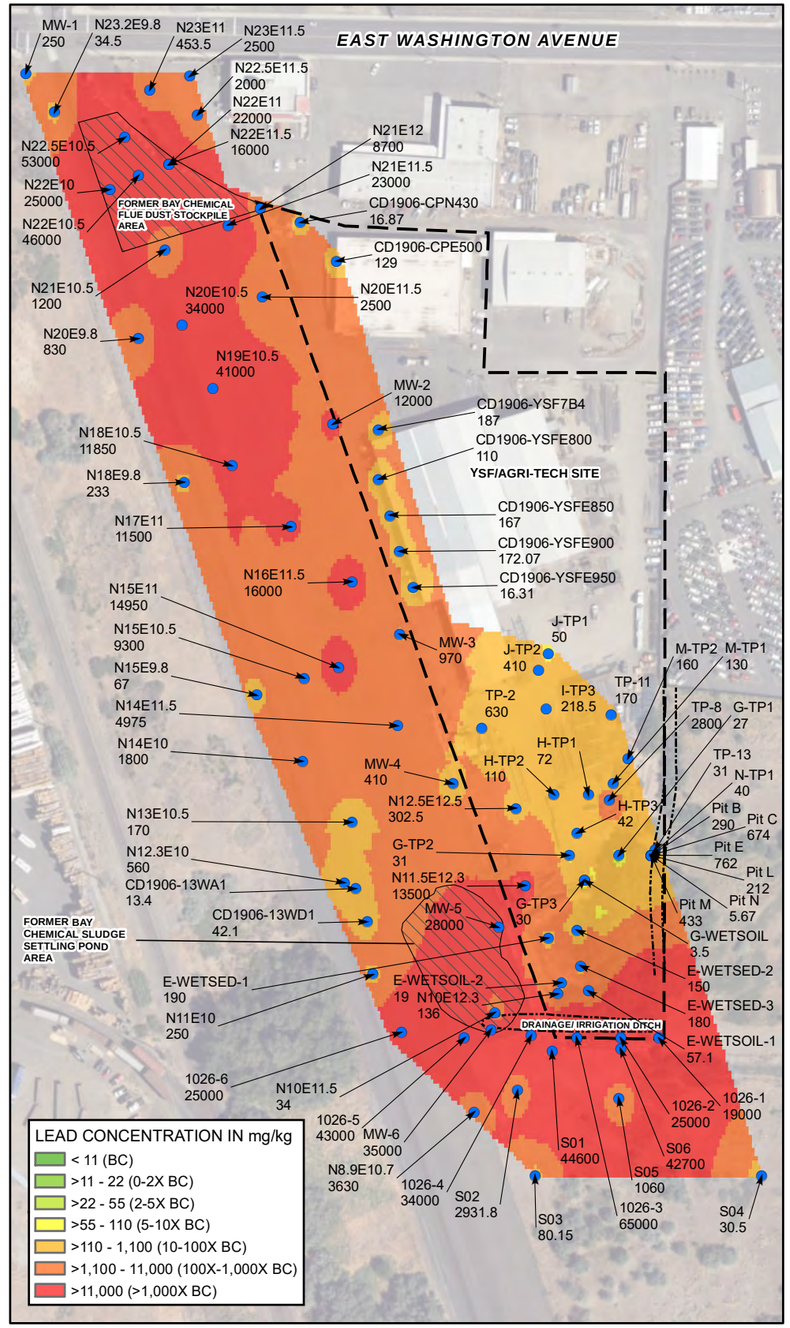

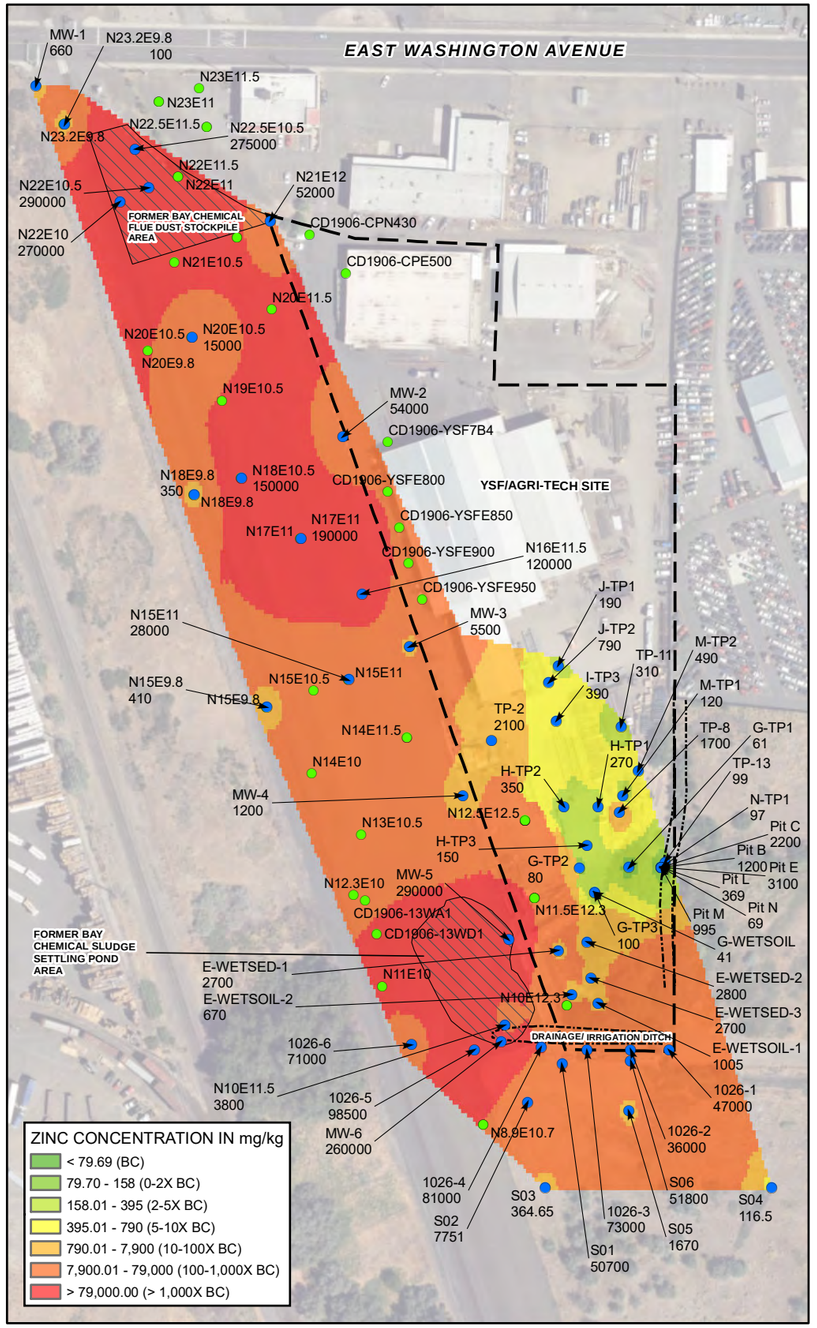

LEGEND

- YAKIMA STEEL FABRICATORS/ AGRI-TECH SAMPLE LOCATION
- NON DETECT SAMPLE
- NO DATA SAMPLE
- FORMER BAY CHEMICAL SITE FEATURES
- YAKIMA STEEL FABRICATORS/AGRI-TECH APPROXIMATE SITE BOUNDARY

BC - BACKGROUND CONCENTRATION
mg/kg - MILLIGRAMS PER KILOGRAM

NATURAL BACKGROUND CONCENTRATIONS *					
	0	2X	5X	10X	100X
CADMIUM	0.93	1.86	4.65	9.3	93
LEAD	11	22	55	110	1,100
ZINC	79	158	395	790	7,900

* FROM *NATURAL BACKGROUND SOIL METALS CONCENTRATIONS IN WASHINGTON STATE*, WASHINGTON STATE DEPARTMENT OF ECOLOGY PUBLICATION NO. 94-115, (OCTOBER 1994).

N

0 100 200
Scale in Feet

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FIGURE 7A

CADMIUM, LEAD, AND ZINC ESTIMATED DISTRIBUTION IN SOIL 0 - 2 FT BGS
YSF/AGRI-TECH SITE

6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: tperrin
Checked By: JK
Date: 8/30/2016
Disc Reference:
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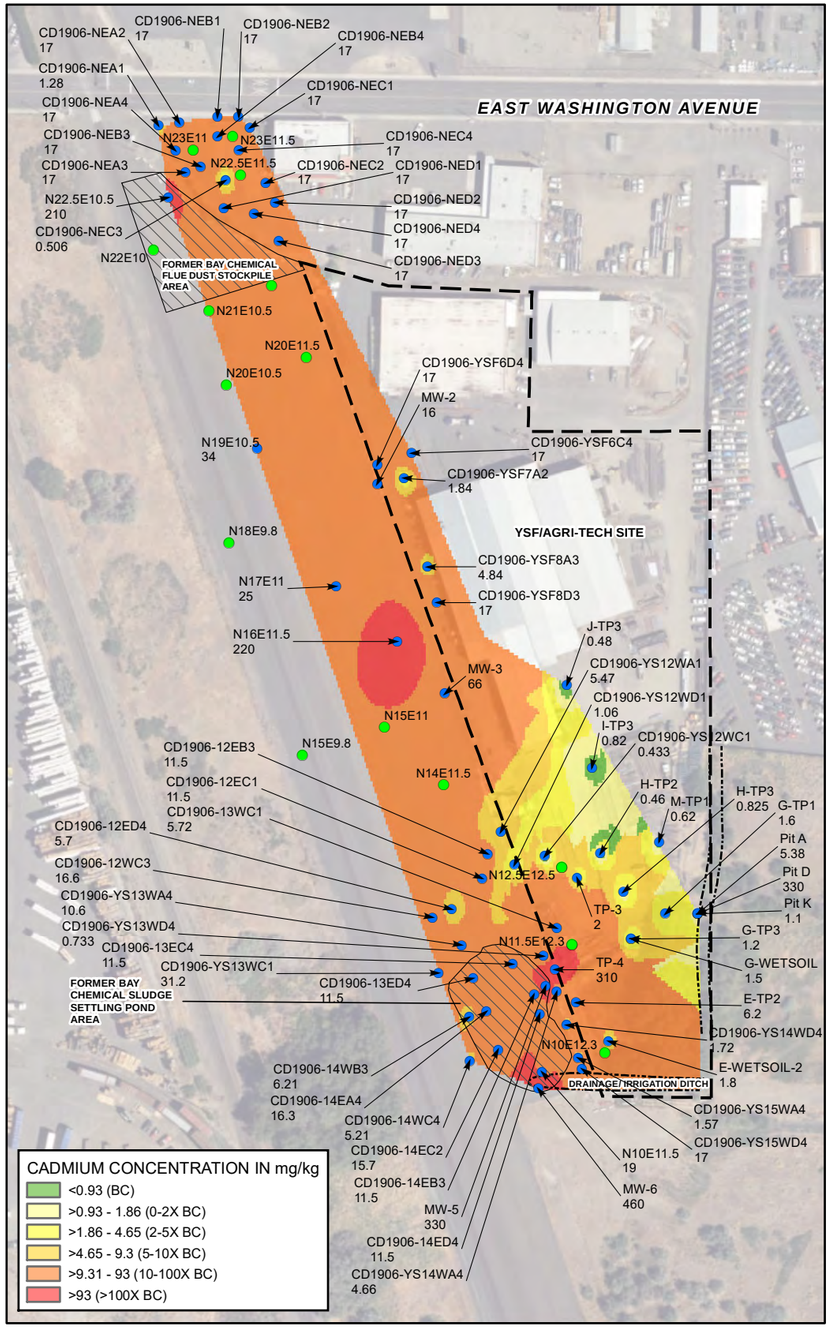

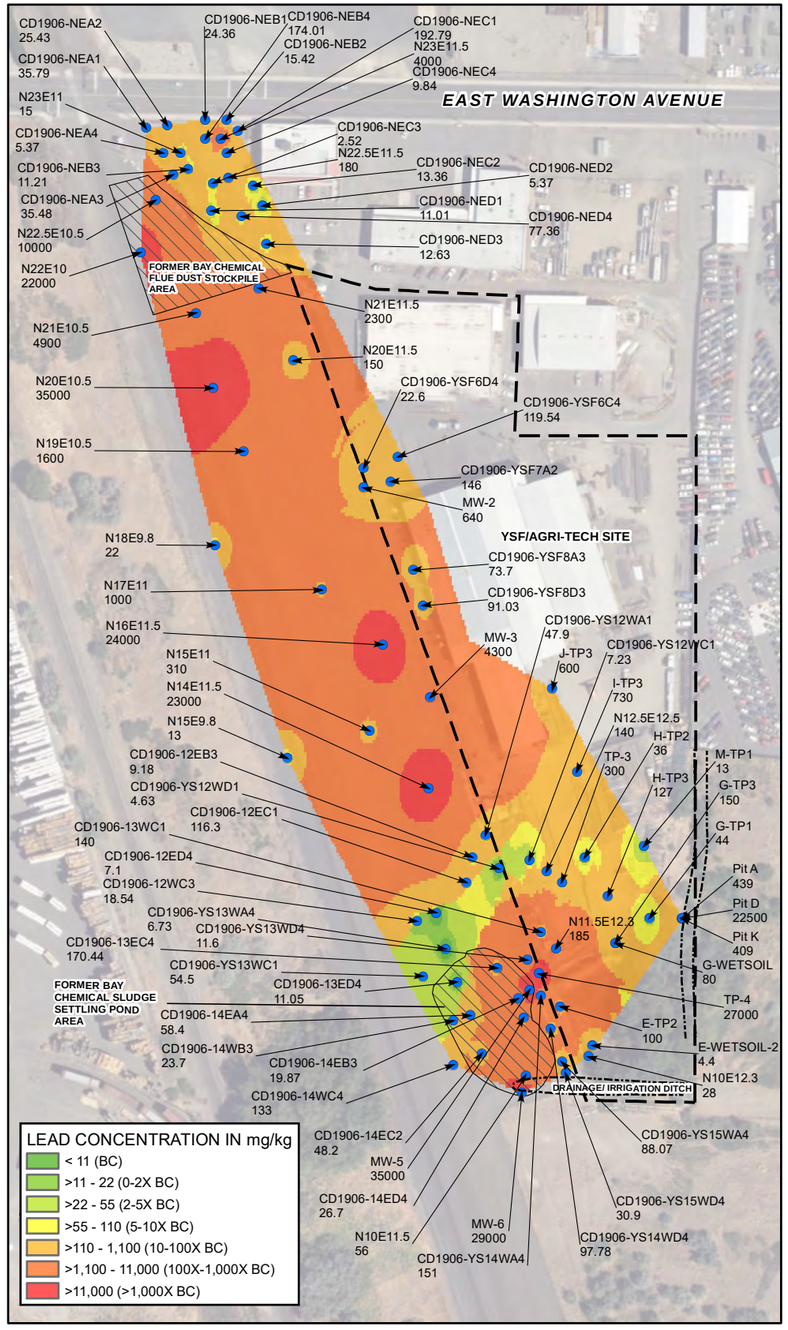

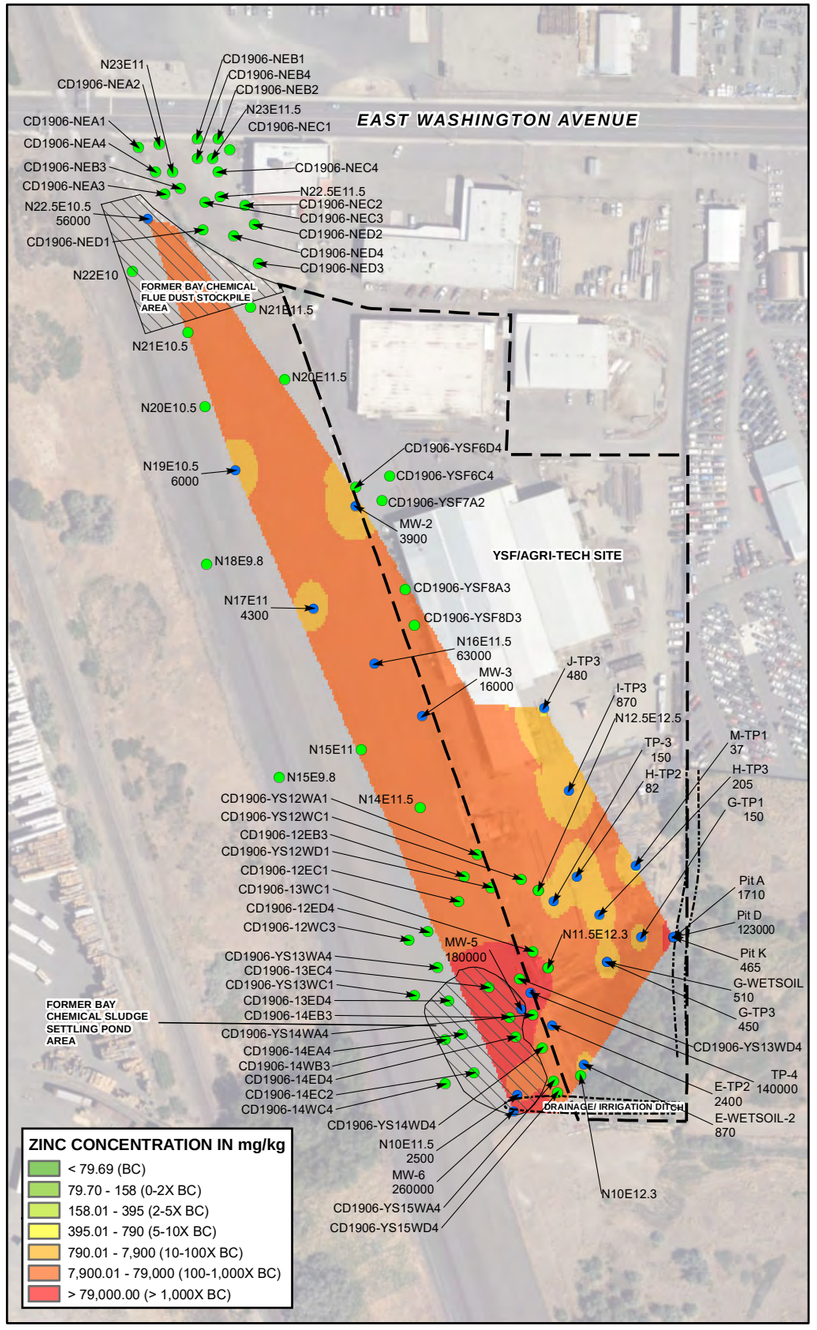

LEGEND

- YAKIMA STEEL FABRICATORS/ AGRI-TECH SAMPLE LOCATION
- NON DETECT SAMPLE
- NO DATA SAMPLE
- FORMER BAY CHEMICAL SITE FEATURES
- YAKIMA STEEL FABRICATORS/AGRI-TECH APPROXIMATE SITE BOUNDARY

BC - BACKGROUND CONCENTRATION
mg/kg - MILLIGRAMS PER KILOGRAM

NATURAL BACKGROUND CONCENTRATIONS *					
	0	2X	5X	10X	100X
CADMIUM	0.93	1.86	4.65	9.3	93
LEAD	11	22	55	110	1,100
ZINC	79	158	395	790	7,900

* FROM *NATURAL BACKGROUND SOIL METALS CONCENTRATIONS IN WASHINGTON STATE*, WASHINGTON STATE DEPARTMENT OF ECOLOGY PUBLICATION NO. 94-115, (OCTOBER 1994).

N

0 100 200
Scale in Feet

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FIGURE 7B

CADMIUM, LEAD, AND ZINC ESTIMATED DISTRIBUTION IN SOIL 2 - 4 FT BGS
YSF/AGRI-TECH SITE

6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

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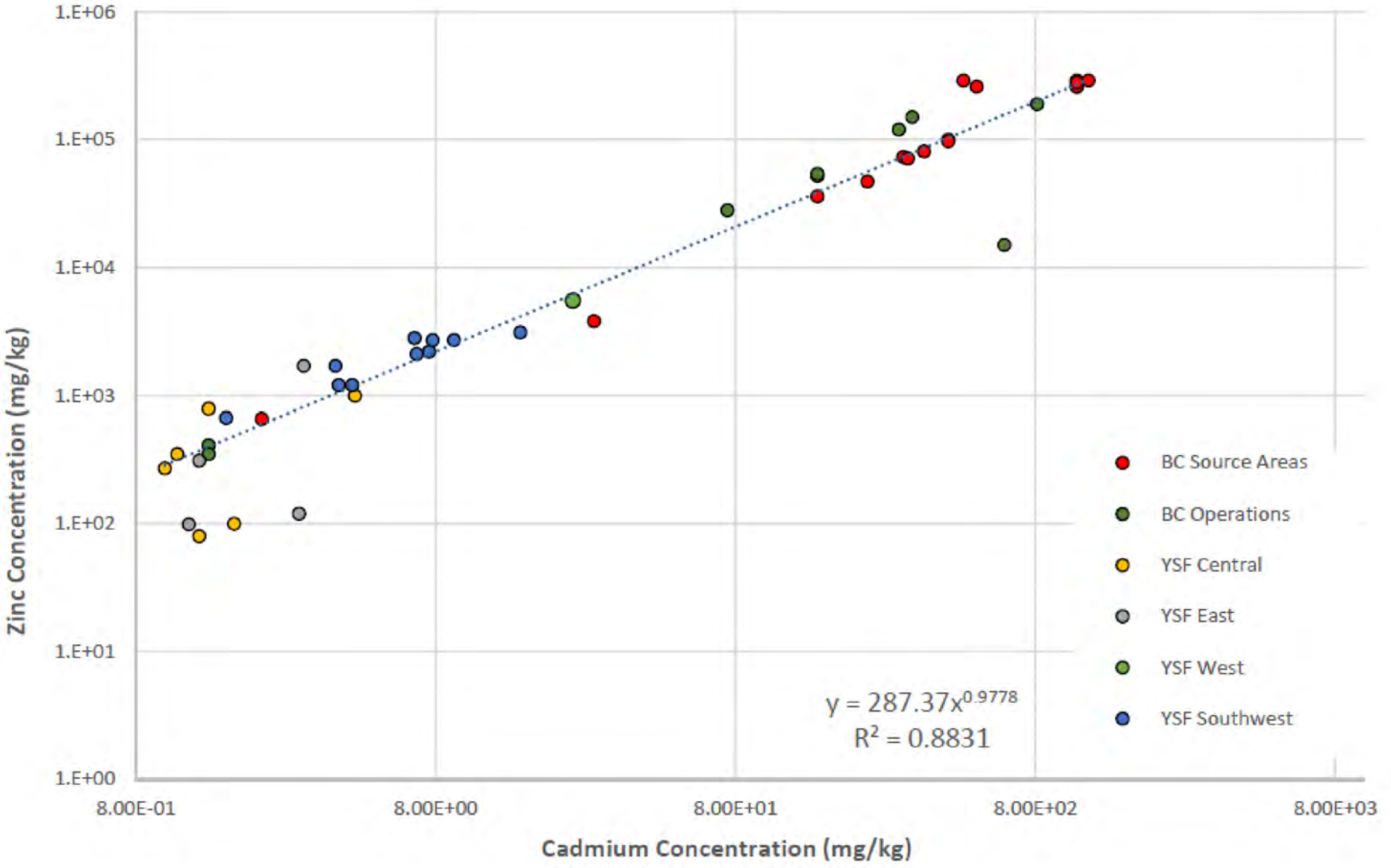

NOTES:

mg/kg = MILLIGRAMS PER KILOGRAM

BC = BAY CHEMICAL SITE

BGS = BELOW GROUND SURFACE

YSF = YAKIMA STEEL FABRICATORS / AGRI-TECH SITE

SOURCE AREA DATA INCLUDES BAY CHEMICAL FLUE DUST AREA, SLUDGE SETTLING POND, AND SLUDGE SEDIMENT

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FIGURE 8A

RATIO OF CADMIUM TO ZINC IN SOIL 0-2 FEET BGS
YSF/AGRI-TECH SITE
6 AND 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

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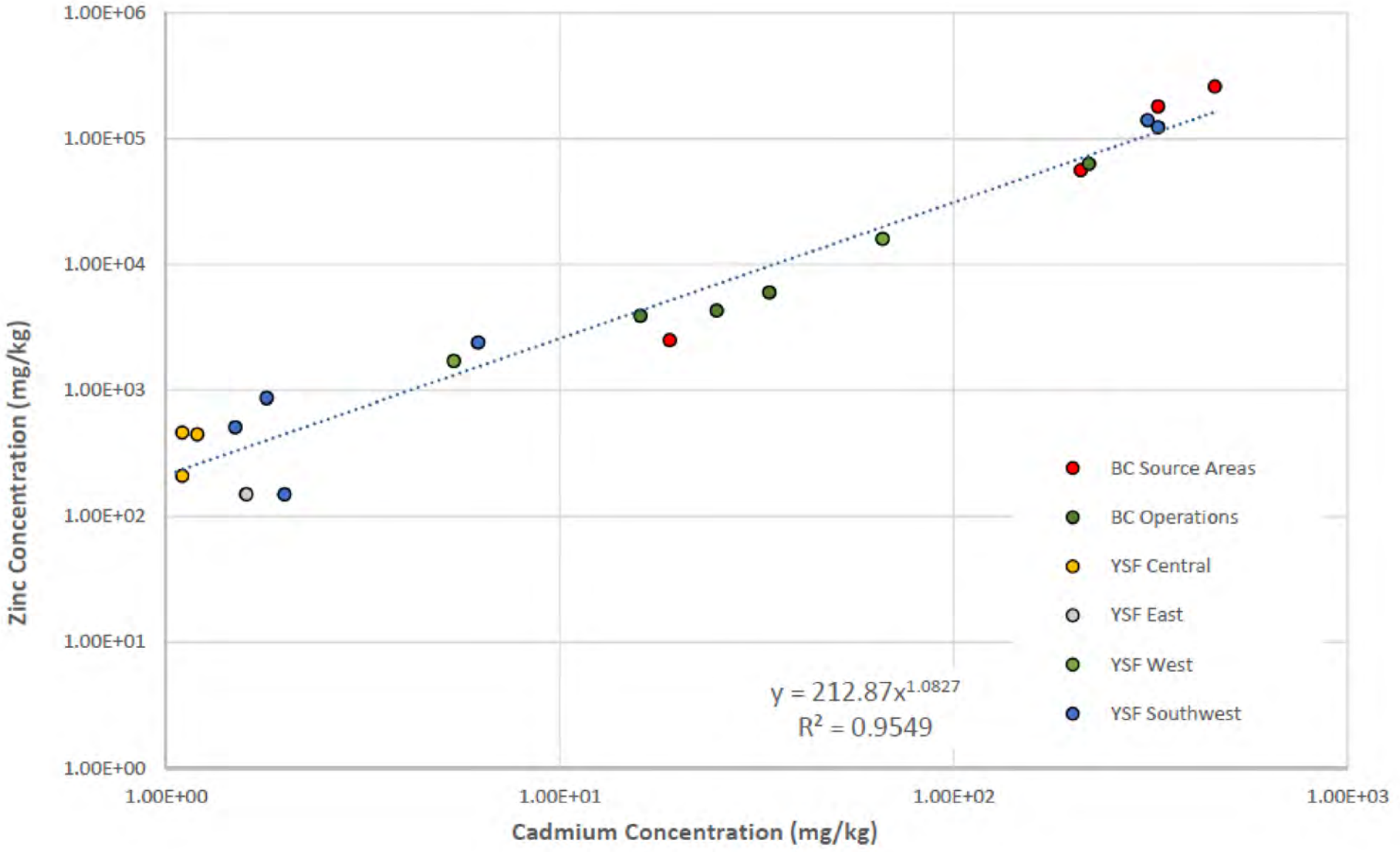

NOTES:

mg/kg = MILLIGRAMS PER KILOGRAM
BC = BAY CHEMICAL SITE
BGS = BELOW GROUND SURFACE
YSF = YAKIMA STEEL FABRICATORS / AGRI-TECH SITE
SOURCE AREA DATA INCLUDES BAY CHEMICAL FLUE DUST AREA, SLUDGE SETTLING POND, AND SLUDGE SEDIMENT

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FIGURE 8B

RATIO OF CADMIUM TO ZINC IN SOIL 2-4 FEET BGS
YSF/AGRI-TECH SITE
6 AND 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

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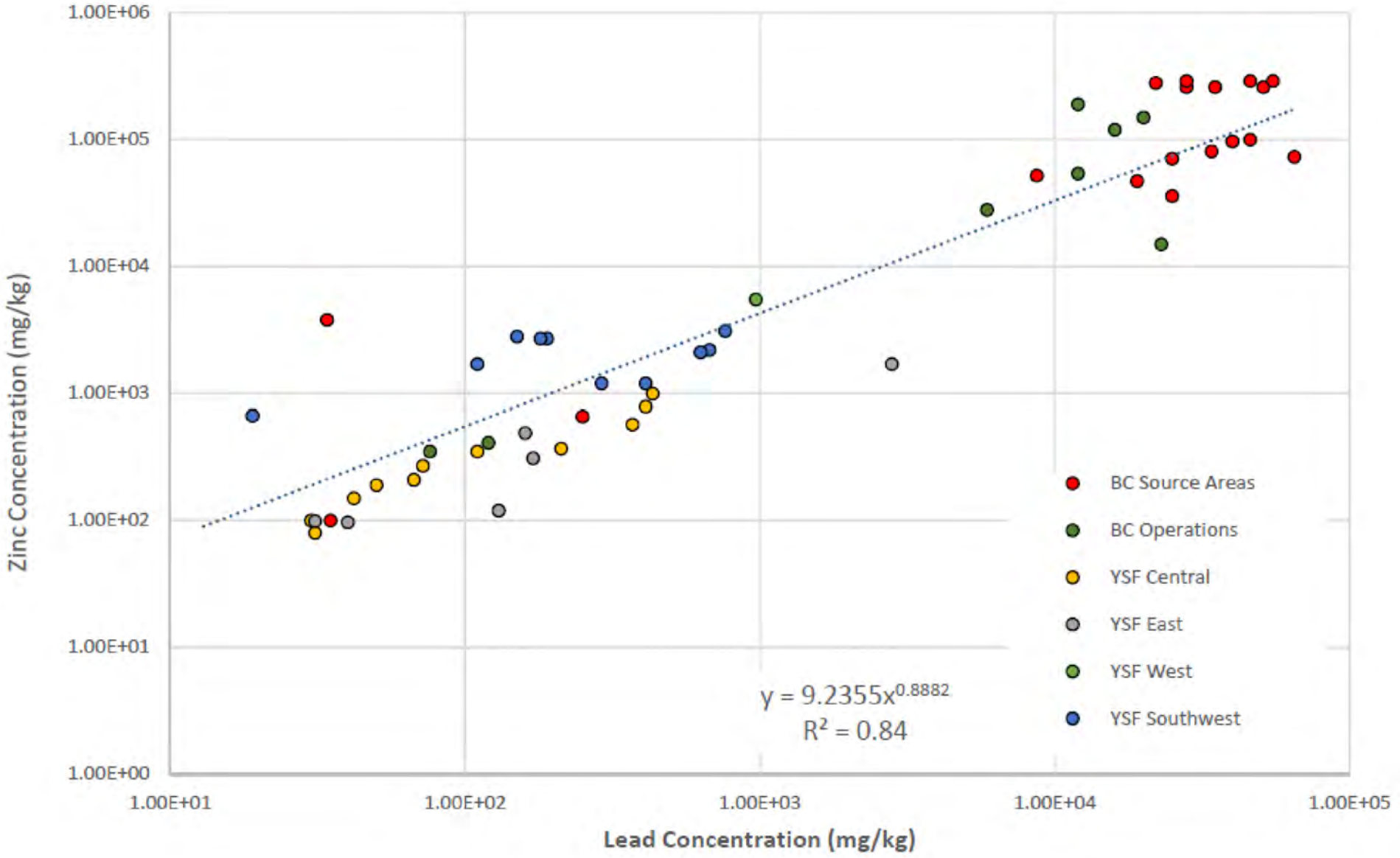

NOTES:

mg/kg = MILLIGRAMS PER KILOGRAM
BC = BAY CHEMICAL SITE
BGS = BELOW GROUND SURFACE
YSF = YAKIMA STEEL FABRICATORS / AGRI-TECH SITE
SOURCE AREA DATA INCLUDES BAY CHEMICAL FLUE DUST AREA, SLUDGE SETTLING POND, AND SLUDGE SEDIMENT

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FIGURE 9A

RATIO OF LEAD TO ZINC IN SOIL 0-2 FEET BGS
YSF/AGRI-TECH SITE
6 AND 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

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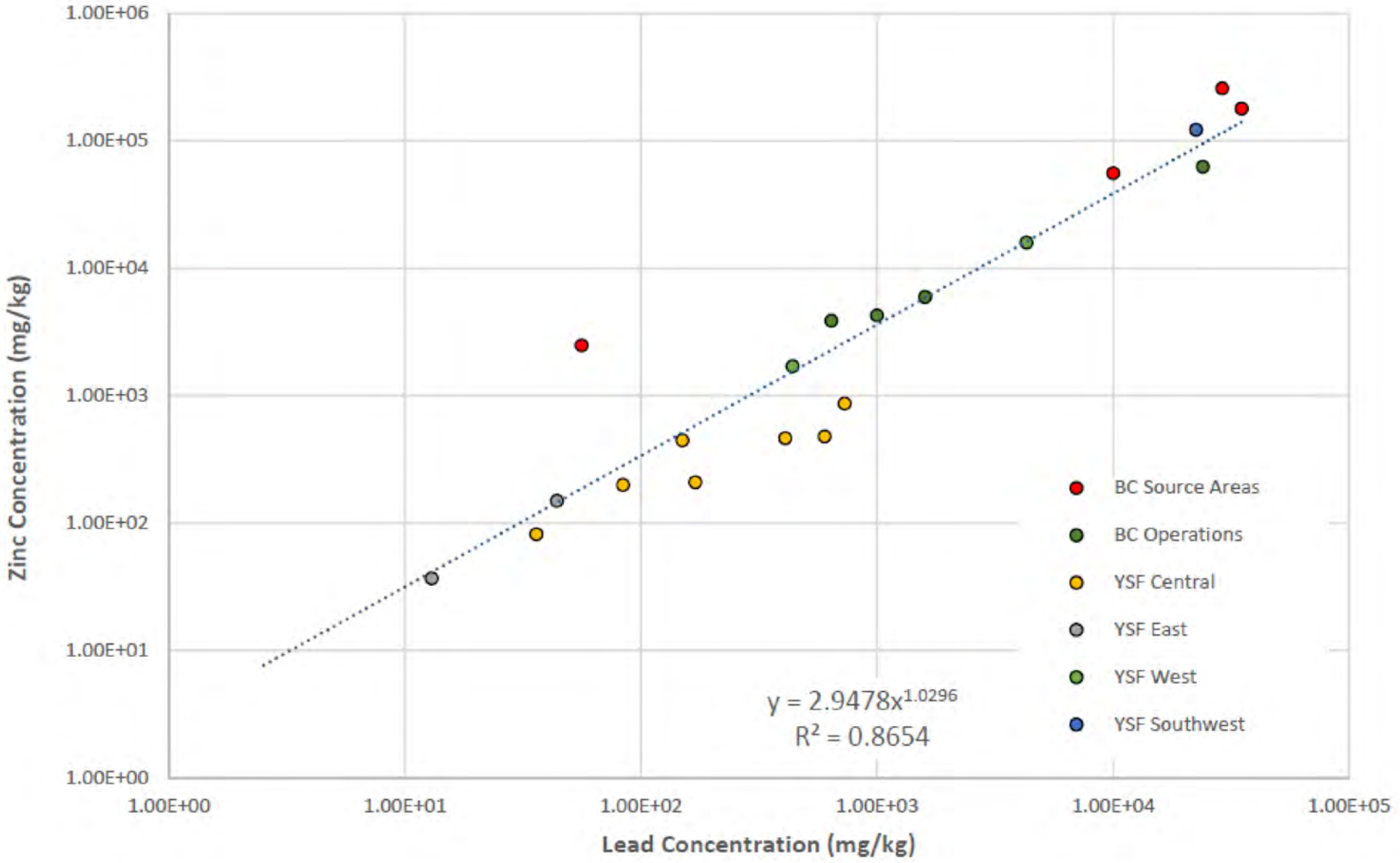

NOTES:

mg/kg = MILLIGRAMS PER KILOGRAM
BC = BAY CHEMICAL SITE
BGS = BELOW GROUND SURFACE
YSF = YAKIMA STEEL FABRICATORS / AGRI-TECH SITE
SOURCE AREA DATA INCLUDES BAY CHEMICAL FLUE DUST AREA, SLUDGE SETTLING POND, AND SLUDGE SEDIMENT

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FIGURE 9B

RATIO OF LEAD TO ZINC IN SOIL 2-4 FEET BGS
YSF/AGRI-TECH SITE
6 AND 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

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Table B-1
Yakima Steel Facility and Bay Chemical Site Metals Data
Agri-Tech and Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Data Source[1]	Sample Location	Sample ID	Sample Date	Sample Depth (Feet bgs)[2]	Analytical Results (micrograms per gram)[3]									Longitude (Decimal Degrees)	Latitutde (Decimal Degrees)	Sample Excluded[4]	Zone Assigned in Ratio Analysis[5]
					Antimony	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Zinc				
Bay_Chem_RI	MW-1	MW-1-0	3/28/94	0	3.6	<2.8	2.1	20	40	250	510	0.075	660	-120.493009	46.570363	0	Flue Dust Area
Bay_Chem_RI	MW-1	MW-1-5.0	3/28/94	5	2.3	3.6	1.2	19	36	130	480	0.061	340	-120.493009	46.570363	0	Flue Dust Area
Bay_Chem_RI	MW-1	MW-1-7.5	3/28/94	7.5	<1.4	<2	0.41	25	19	14	380	0.041	56	-120.493009	46.570363	0	Flue Dust Area
Bay_Chem_RI	MW-2	MW-2-0	3/28/94	0	27	<29	150	220	650	12,000	4,300	6.23	54,000	-120.491402	46.569091	0	BC Operations Area
Bay_Chem_RI	MW-2	MW-2-2.5	3/28/94	2.5	<1.5	<2.3	16	28	150	640	690	0.453	3,900	-120.491402	46.569091	0	BC Operations Area
Bay_Chem_RI	MW-2	MW-2-7.5	3/28/94	7.5	<1.5	<2.2	2.3	92	67	18	460	0.078	640	-120.491402	46.569091	0	BC Operations Area
Bay_Chem_RI	MW-3	MW-3-0	3/28/94	0	37	210	23	59	410	970	800	0.22	5,500	-120.491046	46.56833	0	YSF West
Bay_Chem_RI	MW-3	MW-3-2.5	3/28/94	2.5	27	110	66	100	410	4,300	1,800	1.65	16,000	-120.491046	46.56833	0	YSF West
Bay_Chem_RI	MW-3	MW-3-5.0	3/28/94	5	<45	<68	2,000	180	320	2,300	2,300	0.123	68,000	-120.491046	46.56833	0	YSF West
Bay_Chem_RI	MW-4	MW-4-0	3/28/94	0	2.6	4.6	3.8	24	51	410	650	0.234	1,200	-120.49077	46.567794	0	YSF Southwest
Bay_Chem_RI	MW-4	MW-4-7.5	3/28/94	7.5	<1.5	3.9	3.7	14	21	49	390	0.047	1,700	-120.49077	46.567794	0	YSF Southwest
Bay_Chem_RI	MW-4	MW-4-10.0	3/28/94	10	2.1	<2.7	9.7	24	110	740	740	0.312	3,700	-120.49077	46.567794	0	YSF Southwest
Bay_Chem_RI	MW-4	MW-4-D	3/28/94	15	2.1	7.3	5	30	79	650	790	0.218	1,800	-120.49077	46.567794	0	YSF Southwest
Bay_Chem_RI	MW-5	MW-5-0	3/28/94	0	140	<140	460	760	2,300	28,000	23,000	0.423	290,000	-120.490528	46.567272	0	Settling Pond
Bay_Chem_RI	MW-5	MW-5-2.5	3/28/94	2.5	82	<36	330	640	1,800	35,000	13,000	8.4	180,000	-120.490528	46.567272	0	Settling Pond
Bay_Chem_RI	MW-5	MW-5-7.5	3/28/94	7.5	3.4	<1.9	30	52	130	1,700	1,300	0.357	14,000	-120.490528	46.567272	0	Settling Pond
Bay_Chem_RI	MW-6	MW-6-0	3/28/94	0	140	<170	510	900	2,700	35,000	17,000	17.4	260,000	-120.490565	46.566905	0	Settling Pond
Bay_Chem_RI	MW-6	MW-6-2.5	3/28/94	2.5	210	<170	460	880	2,600	29,000	18,000	14.6	260,000	-120.490565	46.566905	0	Settling Pond
Bay_Chem_RI	MW-6	MW-6-5.0	3/28/94	5	<78	<110	77	140	680	8,700	3,700	1.99	43,000	-120.490565	46.566905	0	Settling Pond
Bay_Chem_RI	N10E11.5	N10E11.5-1	11/8/95	1	<2.3	<3.4	27	19	29	34	54	<1.1	3,800B	-120.490547	46.566958	0	Settling Pond
Bay_Chem_RI	N10E11.5	N10E11.5-2	11/8/95	2	<1.7	<2.5	19	15	20	56	340	<0.83	2,500B	-120.490547	46.566958	0	Settling Pond
Bay_Chem_RI	N10E12.3	N10E12.3(0-0.5)	10/3/96	0	--	--	--	--	--	190	--	--	--	-120.490218	46.567034	0	YSF Southwest
Bay_Chem_RI	N10E12.3	N10E12.3(1.5-2)	10/3/96	1.5	--	--	--	--	--	82	--	--	--	-120.490218	46.567034	0	YSF Southwest
Bay_Chem_RI	N10E12.3	N10E12.3(3.5-4)	10/3/96	3.5	--	--	--	--	--	28	--	--	--	-120.490218	46.567034	0	YSF Southwest
Bay_Chem_RI	N10E12.3	N10E12.3(5.5-6)	10/3/96	5.5	--	--	--	--	--	51	--	--	--	-120.490218	46.567034	0	YSF Southwest
Bay_Chem_RI	N11.5E12.3	N11.5E12.3(0-0.5)	10/3/96	0	--	--	--	--	--	24,000	--	--	--	-120.49039	46.567422	0	YSF Southwest
Bay_Chem_RI	N11.5E12.3	N11.5E12.3(0-0.5) SPLIT	10/3/96	0	--	--	--	--	--	27,000	--	--	--	-120.49039	46.567422	0	YSF Southwest
Bay_Chem_RI	N11.5E12.3	N11.5E12.3(1.5-2)	10/3/96	1.5	--	--	--	--	--	1,700	--	--	--	-120.49039	46.567422	0	YSF Southwest
Bay_Chem_RI	N11.5E12.3	N11.5E12.3(1.5-2) SPLIT	10/3/96	1.5	--	--	--	--	--	1,300	--	--	--	-120.49039	46.567422	0	YSF Southwest
Bay_Chem_RI	N11.5E12.3	N11.5E12.3(3.5-4)	10/3/96	3.5	--	--	--	--	--	160	--	--	--	-120.49039	46.567422	0	YSF Southwest
Bay_Chem_RI	N11.5E12.3	N11.5E12.3(3.5-4) SPLIT	10/3/96	3.5	--	--	--	--	--	210	--	--	--	-120.49039	46.567422	0	YSF Southwest
Bay_Chem_RI	N11.5E12.3	N11.5E12.3(5.5-6)	10/3/96	5.5	--	--	--	--	--	44	--	--	--	-120.49039	46.567422	0	YSF Southwest
Bay_Chem_RI	N11.5E12.3	N11.5E12.3(5.5-6) SPLIT	10/3/96	5.5	--	--	--	--	--	45	--	--	--	-120.49039	46.567422	0	YSF Southwest
Bay_Chem_RI	N11E10	N11E10-0	5/20/94	0	1.9	--	--	--	--	250	--	--	--	-120.491191	46.567095	0	BC Operations Area
Bay_Chem_RI	N12.3E10	N12.3E10-0	5/20/94	0	--	--	--	--	--	560	--	--	--	-120.491343	46.56743	0	BC Operations Area
Bay_Chem_RI	N12.5E12.5	N12.5E12.5(0-0.5)	10/4/96	0	--	--	--	--	--	420	--	--	--	-120.490442	46.567703	0	YSF Southwest
Bay_Chem_RI	N12.5E12.5	N12.5E12.5(0-0.5) SPLIT	10/4/96	0	--	--	--	--	--	510	--	--	--	-120.490442	46.567703	0	YSF Southwest
Bay_Chem_RI	N12.5E12.5	N12.5E12.5(1.5-2)	10/4/96	1.5	--	--	--	--	--	140	--	--	--	-120.490442	46.567703	0	YSF Southwest
Bay_Chem_RI	N12.5E12.5	N12.5E12.5(1.5-2) SPLIT	10/4/96	1.5	--	--	--	--	--	140	--	--	--	-120.490442	46.567703	0	YSF Southwest
Bay_Chem_RI	N12.5E12.5	N12.5E12.5(3.5-4)	10/4/96	3.5	--	--	--	--	--	130	--	--	--	-120.490442	46.567703	0	YSF Southwest
Bay_Chem_RI	N12.5E12.5	N12.5E12.5(3.5-4) SPLIT	10/4/96	3.5	--	--	--	--	--	150	--	--	--	-120.490442	46.567703	0	YSF Southwest
Bay_Chem_RI	N12.5E12.5	N12.5E12.5(5.5-6)	10/4/96	5.5	--	--	--	--	--	20	--	--	--	-120.490442	46.567703	0	YSF Southwest
Bay_Chem_RI	N12.5E12.5	N12.5E12.5(5.5-6) SPLIT	10/4/96	5.5	--	--	--	--	--	11	--	--	--	-120.490442	46.567703	0	YSF Southwest
Bay_Chem_RI	N13E10.5	N13E10.5-0	5/20/94	0	--	--	--	--	--	170	--	--	--	-120.491302	46.56765	0	BC Operations Area
Bay_Chem_RI	N14E10	N14E10-0	5/20/94	0	--	--	--	--	--	1,800	--	--	--	-120.491558	46.567872	0	BC Operations Area
Bay_Chem_RI	N14E11.5	N14E11.5-0	5/20/94	0	--	--	--	--	--	850	--	--	--	-120.491059	46.567996	0	BC Operations Area
Bay_Chem_RI	N14E11.5	N14E11.5-E-1.5	10/25/94	1.5	<20	<31	--	--	--	9,100	--	0.648	--	-120.491059	46.567996	0	BC Operations Area
Bay_Chem_RI	N14E11.5	N14E11.5-E-3.5	10/25/94	3.5	--	--	--	--	--	23,000	--	--	--	-120.491059	46.567996	0	BC Operations Area
Bay_Chem_RI	N14E11.5	N14E11.5-E-5.5	10/25/94	5.5	<22	<31	78	20	57	120	490	0.097	8,600	-120.491059	46.567996	0	BC Operations Area
Bay_Chem_RI	N15E10.5	N15E10.5-0	5/20/94	0	--	--	--	--	--	9,300	--	--	--	-120.491554	46.56817	0	BC Operations Area
Bay_Chem_RI	N15E11	N15E11-0	5/20/94	0	--	--	--	--	--	24,000	--	--	--	-120.491365	46.568214	0	BC Operations Area
Bay_Chem_RI	N15E11	N15E11-N-1.5	10/25/94	1.5	<20	<30	75	110	340	5,900	2,800	1.01	28,000	-120.491365	46.568214	0	BC Operations Area
Bay_Chem_RI	N15E11	N15E11-N-3.5	10/25/94	3.5	--	--	--	--	--	310	--	--	--	-120.491365	46.568214	0	BC Operations Area
Bay_Chem_RI	N15E11	N15E11-N-5.5	10/25/94	5.5	--	--	--	--	--	97	--	--	--	-120.491365	46.568214	0	BC Operations Area
Bay_Chem_RI	N15E9.8	N15E9.8(0-0.5)	10/4/96	0	0.95	2.4	1.4	14	37	120	410	0.04	410	-120.491803	46.568113	0	BC Operations Area
Bay_Chem_RI	N15E9.8	N15E9.8(1.5-2)	10/4/96	1.5	--	--	--	--	--	14	--	--	--	-120.491803	46.568113	0	BC Operations Area
Bay_Chem_RI	N15E9.8	N15E9.8(3.5-4)	10/4/96	3.5	--	--	--	--	--	13	--	--	--	-120.491803	46.568113	0	BC Operations Area

Table B-1
Yakima Steel Facility and Bay Chemical Site Metals Data
Agri-Tech and Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Data Source[1]	Sample Location	Sample ID	Sample Date	Sample Depth (Feet bgs)[2]	Analytical Results (micrograms per gram)[3]									Longitude (Decimal Degrees)	Latitutde (Decimal Degrees)	Sample Excluded[4]	Zone Assigned in Ratio Analysis[5]
					Antimony	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Zinc				
Bay_Chem_RI	N15E9.8	N15E9.8(5.5-6)	10/4/96	5.5	--	--	--	--	--	12	--	--	--	-120.491803	46.568113	0	BC Operations Area
Bay_Chem_RI	N16E10	N16E10-0	5/20/94	20	14	--	--	--	--	6,700	--	1.58	--	-120.491811	46.568387	0	BC Operations Area
Bay_Chem_RI	N16E11.5	N16E11.5-0	5/20/94	1.5	33	<3.8	280	480	1,300	16,000	9,400	5	120,000	-120.491302	46.568518	0	BC Operations Area
Bay_Chem_RI	N16E11.5	N16E11.5-3.5	10/25/94	3.5	36	<31	220	380	1,300	24,000	7,200	54.4	63,000	-120.491302	46.568518	0	BC Operations Area
Bay_Chem_RI	N16E11.5	N16E11.5-5.5	10/25/94	5.5	<19	<29	18	30	100	940	1000	2.6	3,400	-120.491302	46.568518	0	BC Operations Area
Bay_Chem_RI	N16E11.5	N16E11.5-6.5	10/25/94	6.5	<17	<26	--	--	--	200	--	6.93	--	-120.491302	46.568518	0	BC Operations Area
Bay_Chem_RI	N17E11	N17E11-0	5/20/94	0	69	<3	810	780	2,100	12,000	17,000	7.24	190,000	-120.491622	46.568718	0	BC Operations Area
Bay_Chem_RI	N17E11	N17E11-W-1.5	10/25/94	1.5	--	--	--	--	--	11,000	--	--	--	-120.491622	46.568718	0	BC Operations Area
Bay_Chem_RI	N17E11	N17E11-W-3.5	10/25/94	3.5	<20	<30	25	34	100	1000	840	1.22	4,300	-120.491622	46.568718	0	BC Operations Area
Bay_Chem_RI	N17E11	N17E11-W-6.5	10/25/94	6.5	<17	<24	17	28	87	810	870	41	3,300	-120.491622	46.568718	0	BC Operations Area
Bay_Chem_RI	N18E10.5	N18E10.5-0	5/20/94	0	110	<3.9	310	520	1,700	20,000	13,000	5.23	150,000	-120.491929	46.56894	0	BC Operations Area
Bay_Chem_RI	N18E10.5	N18E11.5-0	5/20/94	0	--	--	--	--	--	3,700	--	--	--	-120.491929	46.56894	0	BC Operations Area
Bay_Chem_RI	N18E9.8	N18E9.8(0-0.5)	10/4/96	0	--	--	--	--	--	390	--	--	--	-120.492182	46.568878	0	BC Operations Area
Bay_Chem_RI	N18E9.8	N18E9.8(1.5-2.0)	10/4/96	1.5	0.35	2.4	1.4	13	22	76	500	<0.01	350	-120.492182	46.568878	0	BC Operations Area
Bay_Chem_RI	N18E9.8	N18E9.8(3.5-4)	10/4/96	3.5	--	--	--	--	--	22	--	--	--	-120.492182	46.568878	0	BC Operations Area
Bay_Chem_RI	N18E9.8	N18E9.8(5.5-6)	10/4/96	5.5	0.13	1.4	0.33	16	14	19	320	<0.02	66	-120.492182	46.568878	0	BC Operations Area
Bay_Chem_RI	N19E10.5	N19E10.5-1	11/8/95	1	--	--	--	--	--	41,000	--	--	--	-120.492027	46.569217	0	BC Operations Area
Bay_Chem_RI	N19E10.5	N19E10.5-2	11/8/95	2	<2.3	<3.5	34	39	120	1,600	1000	<1.2	6,000	-120.492027	46.569217	0	BC Operations Area
Bay_Chem_RI	N20E10.5	N20E10.5-0	5/20/94	0	100	<3.5	--	--	--	45,000	--	--	--	-120.492186	46.569445	0	BC Operations Area
Bay_Chem_RI	N20E10.5	N20E10.5-S-1.5	10/25/94	1.5	130	<37	630	840	2,700	23,000	16,000	102	15,000	-120.492186	46.569445	0	BC Operations Area
Bay_Chem_RI	N20E10.5	N20E10.5-S-3.5	10/25/94	3.5	--	--	--	--	--	35,000	--	--	--	-120.492186	46.569445	0	BC Operations Area
Bay_Chem_RI	N20E10.5	N20E10.5-S-6	10/25/94	6	<19	<30	28	69	260	3,900	1,400	20.2	8,600	-120.492186	46.569445	0	BC Operations Area
Bay_Chem_RI	N20E11.5	N20E11.5-1	11/8/95	1	--	--	--	--	--	2,500	--	--	--	-120.491772	46.56955	0	BC Operations Area
Bay_Chem_RI	N20E11.5	N20E11.5-2	11/8/95	2	--	--	--	--	--	150	--	--	--	-120.491772	46.56955	0	BC Operations Area
Bay_Chem_RI	N20E9.8	N20E9.8(0-0.5)	10/4/96	0	--	--	--	--	--	830	--	--	--	-120.492424	46.569401	0	BC Operations Area
Bay_Chem_RI	N21E10.5	N21E10.5-1	11/8/95	1	--	--	--	--	--	1,200	--	--	--	-120.492283	46.569723	0	Flue Dust Area
Bay_Chem_RI	N21E10.5	N21E10.5-2	11/8/95	2	--	--	--	--	--	4,900	--	--	--	-120.492283	46.569723	0	Flue Dust Area
Bay_Chem_RI	N21E11.5	N21E11.5-0	5/20/94	0	160	<3.8	--	--	--	22,000	--	2.52	--	-120.491952	46.569813	0	Flue Dust Area
Bay_Chem_RI	N21E11.5	N21E11.5-W-1.5	10/25/94	1.5	100	<31	--	--	--	24,000	--	10.6	--	-120.491952	46.569813	0	Flue Dust Area
Bay_Chem_RI	N21E11.5	N21E11.5-W-3.5	10/25/94	3.5	<18	<28	--	--	--	2,300	--	1.19	--	-120.491952	46.569813	0	Flue Dust Area
Bay_Chem_RI	N21E12	N21E12-0	5/20/94	0	24	<4.3	150	150	480	8,700	3,800	5.1	52,000	-120.491778	46.569867	0	Flue Dust Area
Bay_Chem_RI	N22.5E11.5	N22.5E11.5 (0-0.5)	10/3/96	0	--	--	--	--	--	2,000	--	--	--	-120.49211	46.570211	0	Flue Dust Area
Bay_Chem_RI	N22.5E11.5	N22.5E11.5 (1.5-2)	10/3/96	1.5	--	--	--	--	--	2,000	--	--	--	-120.49211	46.570211	0	Flue Dust Area
Bay_Chem_RI	N22.5E11.5	N22.5E11.5 (3.5-4)	10/3/96	3.5	--	--	--	--	--	180	--	--	--	-120.49211	46.570211	0	Flue Dust Area
Bay_Chem_RI	N22.5E11.5	N22.5E11.5 (5.5-6)	10/3/96	5.5	--	--	--	--	--	23	--	--	--	-120.49211	46.570211	0	Flue Dust Area
Bay_Chem_RI	N22.5E10.5	N22.5E10.5	11/7/95	0	<49	<74	1,100	850	2,600	510,00J	5,100	<25	260,000B	-120.49249	46.570127	0	Flue Dust Area
Bay_Chem_RI	N22.5E10.5	N22.5E10.5-1	11/7/95	1	<48	<72	1,100	930	2,800	55,000J	23,000	<24	290,000B	-120.49249	46.570127	0	Flue Dust Area
Bay_Chem_RI	N22.5E10.5	N22.5E10.5-2	11/7/95	2	<45	<67	210	170	520	10,000J	4,900	<22	56000B	-120.49249	46.570127	0	Flue Dust Area
Bay_Chem_RI	N22E10	N22E10-0	5/20/94	0	110	<4.2	1,100	870	2,400	28,000	27,000	0.42	260,000	-120.492568	46.569935	0	Flue Dust Area
Bay_Chem_RI	N22E10	N22E10E-1.5	10/25/94	1.5	60	<28	1,100	790	2,500	22,000	21,000	0.706	280,000	-120.492568	46.569935	0	Flue Dust Area
Bay_Chem_RI	N22E10	N22E10E-3	10/25/94	3	<21	<32	--	--	--	22,000	--	0.323	--	-120.492568	46.569935	0	Flue Dust Area
Bay_Chem_RI	N22E10	N22E10-E-5.5	10/25/94	5.5	<17	<24	11	21	160	270	540	0.171	2,000	-120.492568	46.569935	0	Flue Dust Area
Bay_Chem_RI	N22E10.5	N22E10.5-1	11/7/95	0	<47	<71	1,200	960	2,800	46,000J	24,000	<24	290,000B	-120.492421	46.569994	0	Flue Dust Area
Bay_Chem_RI	N22E11	N22E11-0	5/20/94	0	--	--	--	--	--	22,000	--	--	--	-120.492263	46.57003	0	Flue Dust Area
Bay_Chem_RI	N22E11.5	N22E11.5(0-0.5)	10/3/96	0	--	--	--	--	--	16,000	--	--	--	-120.492263	46.57003	0	Flue Dust Area
Bay_Chem_RI	N23E11.5	N23E11.5(1.5-2)	10/3/96	1.5	--	--	--	--	--	2,500	--	--	--	-120.492151	46.570352	0	Flue Dust Area
Bay_Chem_RI	N23E11.5	N23E11.5(3.5-4)	10/3/96	3.5	--	--	--	--	--	4,000	--	--	--	-120.492151	46.570352	0	Flue Dust Area
Bay_Chem_RI	N23.2E9.8	N23.2E9.8(0-0.5)	10/4/96	0	--	--	--	--	--	34	--	--	--	-120.49286	46.570218	0	Flue Dust Area
Bay_Chem_RI	N23.2E9.8	N23.2E9.8(1.5-2)	10/4/96	1.5	0.51	2.9	0.59	21	21	35	650	<0.01	100	-120.49286	46.570218	0	Flue Dust Area
Bay_Chem_RI	N23E11	N23E11(0.5) DUPLICATE	10/3/96	0	--	--	--	--	--	810	--	--	--	-120.49236	46.570297	0	Flue Dust Area
Bay_Chem_RI	N23E11	N23E11(1.5-2)	10/3/96	1.5	--	--	--	--	--	97	--	--	--	-120.49236	46.570297	0	Flue Dust Area
Bay_Chem_RI	N23E11	N23E11(3.5-4)	10/3/96	3.5	--	--	--	--	--	15	--	--	--	-120.49236	46.570297	0	Flue Dust Area
Bay_Chem_RI	N23E11	N23E11(5.5-6)	10/3/96	5.5	--	--	--	--	--	11	--	--	--	-120.49236	46.570297	0	Flue Dust Area
Bay_Chem_RI	N8.9E10.7	N8.9E10.7-0	11/11/96	0	--	--	--	--	--	260	--	--	--	-120.490658	46.566596	0	BC South
Bay_Chem_RI	N8.9E10.7	N9.75E10.3-0	11/11/96	0	--	--	--	--	--	7,000	--	--	--	-120.490658	46.566596	0	BC South
Bay_Chem_RI	S01	S01A	1/31/96	0	16J	<8	203	705	--	44,600	11,300	--	50,700	-120.490251	46.566824	0	BC South

Table B-1
Yakima Steel Facility and Bay Chemical Site Metals Data
Agri-Tech and Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Data Source[1]	Sample Location	Sample ID	Sample Date	Sample Depth (Feet bgs)[2]	Analytical Results (micrograms per gram)[3]									Longitude (Decimal Degrees)	Latitutde (Decimal Degrees)	Sample Excluded[4]	Zone Assigned in Ratio Analysis[5]
					Antimony	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Zinc				
Bay_Chem_RI	S02	S02B	1/31/96	0	<4J	21	73.9	173	--	10,600	3,020	--	18,000	-120.490434	46.56668	0	BC South
Bay_Chem_RI	S02	S02A	1/31/96	0	<3J	<8	39.7	41.2	79.8	1,090	299	--	4,180	-120.490434	46.56668	0	BC South
Bay_Chem_RI	S02	S02B	1/31/96	0	<3J	10	0.39	13.8	28.4	23.2	191	--	520	-120.490434	46.56668	0	BC South
Bay_Chem_RI	S02	S02C	1/31/96	0	<4J	12	<0.3	14.8	28	14	583	--	8,304	-120.490434	46.56668	0	BC South
Bay_Chem_RI	S03	S03A	1/31/96	0	<3J	11	2	14.3	34.1	151	890	--	655	-120.490335	46.566366	0	BC South
Bay_Chem_RI	S03	S03B	1/31/96	0	<4J	11	0.3	14.8	26.9	9.3	410	--	74	-120.490335	46.566366	0	BC South
Bay_Chem_RI	S04	S04A	1/31/96	0	<3J	<8	0.53	12.3	23.7	48	749	--	126	-120.489147	46.566367	0	BC South
Bay_Chem_RI	S04	S04B	1/31/96	0	<3J	14	0.3	13.6	35.5	13	886	--	107	-120.489147	46.566367	0	BC South
Bay_Chem_RI	S05	S05A	1/31/96	0	<3J	12	6.88	23.9	--	1,060	--	--	1,670	-120.489905	46.566653	0	BC South
Bay_Chem_RI	S06	S06A	1/31/96	0	5.5J	<8	2.35	651	--	42,700	--	--	51,800	-120.489892	46.566827	0	BC South
Bay_Chem_RI	1026-1	SED1026-1	10/26/94	0	45	<20	220	630	1,400	19,000	9,800	9.94	47,000	-120.489687	46.566868	0	Sludge Sediment
Bay_Chem_RI	1026-2	SED1026-2	10/26/94	0	<32	<48	150	540	1,200	25,000	6,800	10	36,000	-120.489886	46.566865	0	Sludge Sediment
Bay_Chem_RI	1026-3	SED1026-3	10/26/94	0	<33	<50	290	1,100	2,700	65,000	18,000	27.3	73,000	-120.490118	46.566867	0	Sludge Sediment
Bay_Chem_RI	1026-4	SED1026-4	10/26/94	0	<140	<220	340	1,300	3,000	34,000	22,000	36	81,000	-120.490361	46.566878	0	Sludge Sediment
Bay_Chem_RI	1026-5	SED1026-5A	10/26/94	0	310	100	410	1,500	3,800	46,000	27,000	32.7	100,000	-120.49071	46.566869	0	Sludge Sediment
Bay_Chem_RI	1026-5	SED1026-5B	10/26/94	0	290	100	410	1,500	3,400	40,000	26,000	21.9	97,000	-120.49071	46.566869	0	Sludge Sediment
Bay_Chem_RI	1026-6	SED1026-6	10/26/94	0	170	<17	300	1,200	2,700	25,000	21,000	16.7	71,000	-120.491036	46.566894	0	Sludge Sediment
Farallon_Sup_RI	A-TP1	A-TP1-052711-5.0	5/27/11	5	<2.9	<2.9	<0.49	--	24	6.3	170	0.035	830	-120.4908	46.568129	0	YSF West
Farallon_Sup_RI	A-TP2	A-TP2-052711-5.0	5/27/11	5	<3.1	<3.1	<0.51	--	23	5.9	310	0.26	54	-120.4906	46.568145	0	YSF West
Farallon_Sup_RI	B-TP2	B-TP2-052611-5.5	5/26/11	5.5	<2.9	<2.9	<0.48	--	24	4.6	210	0.052	56	-120.490493	46.56789	0	YSF Southwest
Farallon_Sup_RI	B-TP3	B-TP3-052611-5.5	5/26/11	5.5	<2.7	<2.7	<0.45	--	20	13	330	0.053	69	-120.490403	46.567836	0	YSF Southwest
Farallon_Sup_RI	C-TP1	C-TP1-052611-5.0	5/26/11	5	<3.5	<3.5	<0.58	--	29	5.8	280	0.088	69	-120.490355	46.567665	0	YSF Southwest
Farallon_Sup_RI	C-TP2	C-TP2-052611-8.0	5/26/11	8	<2.9	<2.9	0.95	--	25	41	240	0.09	610	-120.490554	46.567641	0	YSF Southwest
Farallon_Sup_RI	C-TP3	C-TP3-052611-4.5	5/26/11	4.5	<3.1	<3.1	<0.51	--	23	5.2	340	0.05	58	-120.49044	46.567775	0	YSF Southwest
Farallon_Sup_RI	D-TP1	D-TP1-052511-4.5	5/25/11	4.5	<3.5	<3.5	<0.59L	--	27	20	370	0.1	340	-120.490427	46.567313	0	YSF Southwest
Farallon_Sup_RI	D-TP2	D-TP2-052511-5.5	5/25/11	5.5	<5.3	<5.3	88	--	74	1000	410	0.43	7,000	-120.490339	46.56748	0	YSF Southwest
Farallon_Sup_RI	D-TP3	D-TP3-052611-4.5	5/26/11	4.5	<2.9	<2.9	<0.49	--	24	13	330	0.041	260	-120.490246	46.567422	0	YSF Southwest
Farallon_Sup_RI	E-TP1	E-TP1-052511-4.5	5/25/11	4.5	<2.5L	<2.5	8.8	--	19	27	570	0.041	2,200	-120.49029	46.566988	0	YSF Southwest
Farallon_Sup_RI	E-TP2	E-TP2-052511-3.0	5/25/11	3	<2.7L	<2.7	6.2	--	28	100	480	0.087	2,400	-120.490367	46.56721	0	YSF Southwest
Farallon_Sup_RI	G-TP1	G-TP1-052511-0.0-0.5	5/25/11	0.5	<2.8L	8.6	1.3	--	19	27	540	0.19	61	-120.489899	46.567526	0	YSF East
Farallon_Sup_RI	G-TP1	G-TP1-052511-2.0-2.5	5/25/11	2.5	<3.3L	7.6	1.6	--	25	44	550	2.4	150	-120.489899	46.567526	0	YSF East
Farallon_Sup_RI	G-TP2	G-TP2-052511-0.0-0.5	5/25/11	0.5	<3.7	5.2	1.3	--	25	31	510	0.07	80	-120.490164	46.567533	0	YSF Central
Farallon_Sup_RI	G-TP3	G-TP3-052511-0.0-0.5	5/25/11	0.5	<3.3L	4.4	1.7	--	28	30	530	0.055	100	-120.490078	46.567437	0	YSF Central
Farallon_Sup_RI	G-TP3	G-TP3-052511-2.0-2.5	5/25/11	2.5	<3.3	3.9	1.2	--	23	150	240	0.48	450	-120.490078	46.567437	0	YSF Central
Farallon_Sup_RI	H-TP1	H-TP1-052611-0.0-0.5	5/26/11	0.5	3.3	<2.7	1	--	360	72	440	0.048	270	-120.490058	46.567751	0	YSF Central
Farallon_Sup_RI	H-TP2	H-TP1-052611-3.5-4.0	5/26/11	4	<2.8	7.1	<0.46	--	23	36	420	0.086	82	-120.490242	46.567755	0	YSF Central
Farallon_Sup_RI	H-TP2	H-TP2-052611-1.0-1.5	5/26/11	1.5	<2.7	4.1	1.1	--	39	110	460	0.13	350	-120.490242	46.567755	0	YSF Central
Farallon_Sup_RI	H-TP3	H-TP2-052611-2.0-2.5	5/26/11	2.5	<3.3	<3.3	<0.55	--	24	84	530	0.19	200	-120.490121	46.567608	0	YSF Central
Farallon_Sup_RI	H-TP3	H-TP3-052611-0.0-0.5	5/26/11	0.5	<2.5	4.3	0.76	--	25	42	400	0.054	150	-120.490121	46.567608	0	YSF Central
Farallon_Sup_RI	H-TP3	H-TP3-052611-3.5-4.0	5/26/11	4	<2.8	<2.8	1.1	--	100	170	360	0.053	210	-120.490121	46.567608	0	YSF Central
Farallon_Sup_RI	I-TP3	I-TP3-052411-0.0-0.5	5/24/11	0.5	<2.1	<2.9	<0.49	--	41	67	560	0.14	210	-120.490283	46.568058	0	YSF Central
Farallon_Sup_RI	I-TP3	I-TP3-052411-1.5	5/24/11	1.5	3.6	8.2	<0.51	--	53	370	380	0.4	570	-120.490283	46.568058	0	YSF Central
Farallon_Sup_RI	I-TP3	I-TP3-052411-3.0	5/24/11	3	3.2	<3	0.82	--	160	730	390	0.38	870	-120.490283	46.568058	0	YSF Central
Farallon_Sup_RI	J-TP1	J-TP1-052411-0.0-0.5	5/24/11	0.5	2.9	<2.9	<0.48	--	57	50	380	0.25	190	-120.49027	46.568264	0	YSF Central
Farallon_Sup_RI	J-TP2	J-TP2-052411-0.0-0.5	5/24/11	0.5	7.1	<3.1	1.4	--	74	410	520	0.38	790	-120.49032	46.568199	0	YSF Central
Farallon_Sup_RI	J-TP3	J-TP3-052511-1.5-2.0	5/25/11	2	<2.8	8.5	0.48	--	29	600	300	0.17	480	-120.490406	46.56836	0	YSF Central
Farallon_Sup_RI	M-TP1	M-TP1-052511-0.0-0.5	5/25/11	0.5	<3.1	6.2	2.8	--	1,300	130	550	0.07	120	-120.489933	46.56779	0	YSF East
Farallon_Sup_RI	M-TP1	M-TP1-052511-3.0-3.5	5/25/11	3.5	<3.7	4.4	<0.62L	--	23	13	430	0.095	37	-120.489933	46.56779	0	YSF East
Farallon_Sup_RI	M-TP2	M-TP2-052511-0.0-0.5	5/25/11	0.5	<3	5.3	--	--	67	160	420	0.26	490	-120.489846	46.56788	0	YSF East
Farallon_Sup_RI	N-TP1	N-TP1-052411-0.0-0.5	5/24/11	0.5	<3.3	4.9	<0.54L	--	25	40	500	0.096	97	-120.489733	46.567534	0	YSF East
ECY_EPI_Sampling	Pit A		7/9/07	2	--	11.9	5.38	79.8	--	439	569	--	1,710	-120.489733	46.567534	0	YSF West
ECY_EPI_Sampling	Pit B		7/9/07	0.5	--	13	4.22	136	--	290	524	--	1,200	-120.489733	46.567534	0	YSF Southwest
ECY_EPI_Sampling	Pit C		7/9/07	0.5	--	13	7.6	944	--	674	645	--	2,200	-120.489733	46.567534	0	YSF Southwest
ECY_EPI_Sampling	Pit D		7/9/07	2	--	55	330	1,820	--	22,500	12,500	--	123,000	-120.489733	46.567534	0	YSF Southwest
ECY_EPI_Sampling	Pit E		7/9/07	0	--	2.9	15.3	57.9	--	762	515J	--	3,100	-120.489733	46.567534	0	YSF Southwest
ECY_EPI_Sampling	Pit K		7/9/07	2	--	12.5	1.1	62	--	409	369	--	465	-120.489733	46.567534	0	YSF Central

Table B-1
Yakima Steel Facility and Bay Chemical Site Metals Data
Agri-Tech and Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Data Source[1]	Sample Location	Sample ID	Sample Date	Sample Depth (Feet bgs)[2]	Analytical Results (micrograms per gram)[3]									Longitude (Decimal Degrees)	Latitutde (Decimal Degrees)	Sample Excluded[4]	Zone Assigned in Ratio Analysis[5]
					Antimony	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Zinc				
ECY_EPI_Sampling	Pit L		7/9/07	1	--	6.17	0.67	30.4	--	212	336	--	369	-120.489733	46.567534	0	YSF Central
ECY_EPI_Sampling	Pit M		7/9/07	0	--	8.12	4.3	5,560	--	433	2,270	--	995	-120.489733	46.567534	0	YSF Central
ECY_EPI_Sampling	Pit N		7/9/07	0	--	1.5	<0.1	77.4J	--	5.67	160	--	69	-120.489733	46.567534	0	YSF Southwest
ECY_EPI_Sampling	TP-2		7/9/07	1.25	<3	<5	6.9	51	16	630	--	0.26	2,100	-120.490625	46.567993	0	YSF Southwest
ECY_EPI_Sampling	TP-3		7/9/07	2.25	<3	<5	2	35	6.7	300	--	0.09	150	-120.490358	46.567659	0	YSF Southwest
ECY_EPI_Sampling	TP-4		7/9/07	2	65	<5	310	2,000	490	27,000	--	14	140,000	-120.490478	46.567328	0	YSF Southwest
ECY_EPI_Sampling	TP-8		7/9/07	1	<3	<5	2.9	82	15	2,800	--	0.09	1,700	-120.489951	46.567728	0	YSF East
ECY_EPI_Sampling	TP-11		7/9/07	1	<3	<5	1.3	22	15	170	--	0.23	310	-120.48994	46.568041	0	YSF East
ECY_EPI_Sampling	TP-13		7/9/07	0	<3	<5	1.2	21	8.6	31	--	0.04	99	-120.489709	46.567547	0	YSF East
Farallon_Sup_RI	E-WETSOIL-1	E-wetsoil-052611-0.0-0.5	5/26/11	0.5	<5.1	<5.1	3.7	--	39	110	190	0.14	1,700	-120.490058	46.567036	0	YSF Southwest
Farallon_Sup_RI	E-WETSOIL-1	E-wetsoil-052611-0.5-1.0	5/26/11	1	<2.4	<2.4	<0.4	--	17	4.2	160	0.043	310	-120.490058	46.567036	0	YSF Southwest
Farallon_Sup_RI	E-WETSOIL-2	E-wetsoil-2-052611-0.5-1.0	5/26/11	1	<3.4	<3.4	1.6	--	19	19	250	0.071	670	-120.490198	46.56707	0	YSF Southwest
Farallon_Sup_RI	E-WETSOIL-2	E-wetsoil-2-052611-1.0-2.0	5/26/11	2	<3	<3	1.8	--	20	4.4	270	0.059	870	-120.490198	46.56707	0	YSF Southwest
Farallon_Sup_RI	E-WETSED-1	E-wetsed-1-053111	5/23/11	0.5	<5.8	<5.8	9.2	--	36	190	210	--	2,700	-120.490271	46.567233	0	YSF Southwest
Farallon_Sup_RI	E-WETSED-2	E-wetsed-2-053111	5/23/11	0.5	<6.9	7.6	6.8	--	41	150	220	--	2,800	-120.490116	46.567259	0	YSF Southwest
Farallon_Sup_RI	E-WETSED-3	E-wetsed-3-053111	5/23/11	0.5	<6.1	8.5	7.8	--	52	180	270	--	2,700	-120.490103	46.567126	0	YSF Southwest
Farallon_Sup_RI	G-WETSOIL	G-wetsoil-052611-0.0-0.5	5/26/11	0.5	<2.4	<2.4	<0.4	--	16	3.5	210	0.044	41	-120.490078	46.567437	0	YSF Southwest
Farallon_Sup_RI	G-WETSOIL	G-wetsoil-052611-1.0-2.0	5/26/11	2	<4.2	<4.2	1.5	--	40	80	470	0.14	510	-120.490078	46.567437	0	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YSF7B4	BC-082907-YSF-7B4	8/29/07	0	--	6.81	2.19	19.4	37.3	187	642	0.134	--	-120.4911566	46.56907284	0	YSF Northwest
YSF_Soil_Data_EIM	CD1906-YSFE800	BC-083007-YSF-E800	8/30/07	0	--	1.43	1.16	88.31	<19	110	500	5.44	--	-120.491161	46.5688865	0	YSF West
YSF_Soil_Data_EIM	CD1906-YSFE850	BC-083007-YSF-E850	8/30/07	0	--	6.26	2.26	165.62	43.1	167	420	0.175	--	-120.4911047	46.56875857	0	YSF West
YSF_Soil_Data_EIM	CD1906-YSFE900	BC-083007-YSF-E900	8/30/07	0	--	5.39	<17	78.52	40.94	172.07	438.53	<0.113	--	-120.4910484	46.56863173	0	YSF West
YSF_Soil_Data_EIM	CD1906-YSFE950	BC-083007-YSF-E950	8/30/07	0	--	3.57	<17	24.1	48.04	16.31	669.06	10.2	--	-120.4909803	46.56850162	0	YSF West
YSF_Soil_Data_EIM	CD1906-CP6A2	BC-091407-CP-6A2	9/14/07	0	--	8.37	<17	15	25	90.2	749	0.114	--	-120.491388	46.56935943	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CP6B3	BC-091407-CP-6B3	9/14/07	0	--	6.79	<5.44	104.95	13.7	11.2	1,317	<5	--	-120.4911987	46.56934918	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CPE650	BC-091407-CP-E650	9/14/07	0	--	<6	<6	42.2	77.9	1,169	417	0.819	--	-120.4910573	46.56935858	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CPE6A4	BC-091407-CP-E6A4	9/14/07	0	--	<5.4	<5.4	8.7	11.6	7.13	252	<5	--	-120.4910896	46.56936376	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CPN100	BC-091407-CP-N100	9/14/07	0	--	<5.14	<5.14	12.4	30.9	175	145	<5	--	-120.4911357	46.56939988	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CPN50	BC-091407-CP-N50	9/14/07	0	--	<5.38	<5.38	13.2	25	172.73	662	5.18	--	-120.4913308	46.56940224	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CPN75	BC-091407-CP-N75	9/14/07	0	--	<5.34	<17	18.8	31.23	231.71	444.23	5.38	--	-120.4912208	46.56939852	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CP5A1	BC-092107-CP-5A1	9/21/07	0	--	<5.36	<5.36	17.8	23.9	42.5	635	<5	--	-120.4915993	46.56959261	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CP5B1	BC-092107-CP-5B1	9/21/07	0	--	<6	<17	104.72	23.1	11.57	510.51	<5	--	-120.491421	46.5696315	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CP5D2	BC-092107-CP-5D2	9/21/07	0	--	<5.44	<5.44	14.8	31.61	<5.44	289	6.92	--	-120.4914535	46.56948485	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CP4B4	BC-092407-CP-4B4	9/24/07	0	--	<5.18	<5.18	15.8	<19	95.78	408	7.18	--	-120.4915052	46.56979152	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CP4C4	BC-092407-CP-4C4	9/24/07	0	--	<6	<17	15	25.8	123	448	0.286	--	-120.4914457	46.56970002	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-YSF7EB2	BC-092407-YSF-7EB2	9/24/07	0	--	<5.66	<17	61.94	20.92	75.92	738.56	0.156	--	-120.4909826	46.56919286	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CPE500	BC-092507-CP-E500	9/25/07	0	--	5.17	<5.02	20	<19	129	502	<0.0972	--	-120.4913777	46.56968257	0	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CPN430	BC-092507-CP-N430	9/25/07	0	--	<5.24	<17	<55	<19	16.87	867.44	<5	--	-120.4915706	46.56981706	0	YSF Northwest
YSF_Soil_Data_EIM	CD1906-YSFE750	BC-092507-YSF-E750	9/25/07	0	--	<5.35	<5.35	15.9	12.5	21.8	430	<5	--	-120.491209	46.56901565	1	YSF West
YSF_Soil_Data_EIM	CD1906-YSE1425W	BC-092707-YS-E1425W	9/27/07	0	--	8.8	<4.81	97.16	29.2	74.4	431	<5	--	-120.4903222	46.56736712	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YSFS758	BC-092807-YSF-S758	9/28/07	0	--	<6	<5.74	13.8	16.9	27.8	411	<5	--	-120.4910072	46.5691057	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-YS12WA1	BC-080307-YS-12W-A1	8/3/07	4	--	2.56	5.47	17	28.3	47.9	610	<0.112	--	-120.4907591	46.56782687	0	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YS12WC1	BC-080307-YS-12W-C1	8/3/07	4	--	2.64	<0.433	<55	<19	7.23	231	<0.118	--	-120.490527	46.56774259	0	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YS12WD1	BC-080307-YS-12W-D1	8/3/07	4	--	2.18	1.06	17.1	37.31	4.63	318	<0.114	--	-120.4906947	46.56770893	0	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YS13WD4	BC-080307-YS-13W-D4	8/3/07	4	--	1.65	0.733	18.3	30.8	11.6	382	<5	--	-120.4905443	46.5673754	0	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YS14WA4	BC-080307-YS-14W-A4	8/3/07	4	--	9.17	4.66	14.9	24.92	151	603	0.123	--	-120.490473	46.56724873	0	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YS14WD4	BC-080307-YS-14W-D4	8/3/07	4	--	2.85	1.72	78.04	<19	97.78	451	6.26	--	-120.4904157	46.56712926	0	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YS15WA4	BC-080307-YS-15W-A4	8/3/07	4	--	2.54	1.57	<55	26.6	88.07	334	<0.102	--	-120.4903602	46.56701448	0	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YS15WD4	BC-080307-YS-15W-D4	8/3/07	4	--	2.56	<17	17	21.8	30.9	449	11.23	--	-120.490339	46.5669706	0	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YSF6C4	BC-082907-YSF-6C4	8/29/07	4	--	2.45	<17	108.93	<19	119.54	780.52	6.89	--	-120.4912205	46.56919869	0	YSF Northwest
YSF_Soil_Data_EIM	CD1906-YSF6D4	BC-082907-YSF-6D4	8/29/07	4	--	<6	<17	72.26	<19	22.6	820.4	<5	--	-120.491404	46.56916118	0	YSF Northwest
YSF_Soil_Data_EIM	CD1906-YSF7A2	BC-082907-YSF-7A2	8/29/07	4	--	19.88	1.84	15.9	28.1	146	670.53	0.0969	--	-120.4912637	46.56911166	0	YSF Northwest
YSF_Soil_Data_EIM	CD1906-YSF8A3	BC-083007-YSF-8A3	8/30/07	4	--	22.46	<4.84	16.9	28.2	73.7	884.31	10.43	--	-120.4911419	46.56878699	0	YSF West
YSF_Soil_Data_EIM	CD1906-YSF8D3	BC-083007-YSF-8D3	8/30/07	4	--	13.98	<17	127.04	<19	91.03	712	<5	--	-120.4910918	46.56866317	0	YSF West
YSF_Soil_Data_EIM	CD1906-YSF10B1	BC-090507-YSF-10B1	9/5/07	4	--	<5.57	<5.57	15.2	28.3	8.58	443	6.22	--	-120.4908464	46.56838123	1	YSF West
YSF_Soil_Data_EIM	CD1906-YSF10C4	BC-090507-YSF-10C4	9/5/07	4	--	<6	<6.17	13.3	26.5	14.4	312	<5	--	-120.4907552	46.56816853	1	YSF West
YSF_Soil_Data_EIM	CD1906-YSF11A2	BC-090507-YSF-11A2	9/5/07	4	--	7.82	<6.36	11.7	20.9	11.7	266	<0.139	--	-120.4908115	46.56809212	1	YSF West

Table B-1
Yakima Steel Facility and Bay Chemical Site Metals Data
Agri-Tech and Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Data Source[1]	Sample Location	Sample ID	Sample Date	Sample Depth (Feet bgs)[2]	Analytical Results (micrograms per gram)[3]									Longitude (Decimal Degrees)	Latitutde (Decimal Degrees)	Sample Excluded[4]	Zone Assigned in Ratio Analysis[5]
					Antimony	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Zinc				
YSF_Soil_Data_EIM	CD1906-YSFE1050	BC-090507-YSF-E1050	9/5/07	4	--	<5.86	<17	<55	27.73	162.07	508.37	<5	--	-120.4907609	46.56827109	1	YSF West
YSF_Soil_Data_EIM	CD1906-YSFE1100	BC-090507-YSF-E1100	9/5/07	4	--	18.6	<5.5	10.4	24	92.7	696.77	<0.103	--	-120.4907209	46.56814643	1	YSF West
YSF_Soil_Data_EIM	CD1906-YSF7D3	BC-090607-YSF-7D3	9/6/07	4	--	<5.46	<5.46	71.97	<19	11.51	563.07	<5	--	-120.4912149	46.56892619	1	YSF West
YSF_Soil_Data_EIM	CD1906-YSF11A4	BC-091207-YSF-11A4	9/12/07	4	--	6.52	15.6	17.5	26.5	10.6	423.34	<0.136	--	-120.4908456	46.5680069	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YSF11B4	BC-091207-YSF-11B4	9/12/07	4	--	<5.75	<5.75	101.84	24.9	<5.75	752.49	<0.124	--	-120.4906709	46.56804757	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YSF11D2	BC-091207-YSF-11D2	9/12/07	4	--	<5.68	<17	<55	28.5	16.87	402	<0.123	--	-120.4907474	46.56795415	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YSF12B4	BC-091207-YSF-12B4	9/12/07	4	--	<5.94	<5.94	17.6	20.41	<5.94	441.86	<5	--	-120.4905519	46.56780776	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YSFE1000	BC-091207-YSF-E1000	9/12/07	4	--	26.06	<17	16.8	<19	332.58	348.47	<5	--	-120.4908509	46.5684025	1	YSF West
YSF_Soil_Data_EIM	CD1906-YSFE1150	BC-091207-YSF-E1150	9/12/07	4	--	<6	<17	<55	<19	116.13	309	0.324	--	-120.4906391	46.56803099	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-CP6C1	BC-091407-CP-6C1	9/14/07	4	--	9.02	<5	12.6	30	138	800.6	0.205	--	-120.4912188	46.56924526	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CPE675	BC-091407-CP-E675	9/14/07	4	--	<5.41	<5.41	<55	68.3	379	349	0.349	--	-120.4910196	46.56929177	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CP5D4	BC-092107-CP-5D4	9/21/07	4	--	10.64	<5.09	16.4	26.1	79.9	520	0.128	--	-120.4915131	46.56941099	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CP6A1	BC-092107-CP-6A1	9/21/07	4	--	<6	<5.43	79.85	<19	45.15	563.17	<0.116	--	-120.4914741	46.56933734	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CP6A4	BC-092107-CP-6A4	9/21/07	4	--	<5.23	<17	166.46	<19	25.55	953.87	<0.1	--	-120.4914412	46.56927506	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-CP4D2	BC-092407-CP-4D2	9/24/07	4	--	7.37	<17	99.46	<19	115.78	897.61	14.49	--	-120.4915684	46.56973678	1	YSF Northwest
YSF_Soil_Data_EIM	CD1906-YS13WC1	BC-092707-YS-13W-C1	9/27/07	4	--	<8.95	31.2	14.1	20.15	54.5	409	<0.187	--	-120.4910878	46.56732118	0	BC Operations Area
YSF_Soil_Data_EIM	CD1906-YS14WB1	BC-092707-YS-14W-B1	9/27/07	4	--	<10.3	<17	13.1	<19	142	345	<0.222	--	-120.4903546	46.56736604	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YSE1300W	BC-092707-YS-E1300W	9/27/07	4	--	7.88	<5.15	15.3	28	43.6	532	<5	--	-120.4904234	46.56765209	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YSE1350W	BC-092707-YS-E1350W	9/27/07	4	--	<6	<4.96	<4.96	27.5	5.95	2,233	<5	--	-120.4903881	46.56753241	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YSS14W60	BC-092707-YS-S14W-60	9/27/07	4	--	15.3	<17	<55	<19	62.7	552	<5	--	-120.4903275	46.56732738	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YS12WB2	BC-100407-YS-12W-B2	10/4/07	4	--	<5.78	<5.78	7.86	<19	7.4	138	<0.122	--	-120.490516	46.56787254	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YS12WB3	BC-100407-YS-12W-B3	10/4/07	4	--	19.85	<17	124.98	<19	123.24	287.25	<0.115	--	-120.4904834	46.56781486	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YS12WC2	BC-100407-YS-12W-C2	10/4/07	4	--	<6	<8.75	16.3	28.4	10.2	278.57	<0.165	--	-120.490443	46.56774873	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YS12WC3	BC-100407-YS-12W-C3	10/4/07	4	--	<6	<7.53	21.7	<19	7.05	276	<5	--	-120.4904268	46.56771721	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YS13WA4	BC-100507-YS-13W-A4	10/5/07	4	--	<6.19	10.6	<55	28.6	6.73	286	<0.154	--	-120.4909654	46.56742397	0	BC Operations Area
YSF_Soil_Data_EIM	CD1906-YSE1200W	BC-100507-YS-E1200W	10/5/07	4	--	14.34	<4.5	12.3	<19	48.26	841	<0.106	--	-120.4904352	46.56786492	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YSE1275W	BC-100507-YS-E1275W	10/5/07	4	--	6.6	<5.04	145.88	27.6	55.7	695	<0.117	--	-120.4903979	46.5677028	1	YSF Southwest
YSF_Soil_Data_EIM	CD1906-YSF9A1	BC-083007-YSF-9A1	8/30/07	6	--	26.13	<4.6	16.4	24.8	156	726.72	0.123	--	-120.4911252	46.56856967	0	YSF West
YSF_Soil_Data_EIM	CD1906-YSF10A3	BC-083107-YSF-10A3	8/31/07	6	--	8.85	<17	61.97	<19	7.73	343.71	<0.117	--	-120.4909074	46.56827917	0	YSF West
YSF_Soil_Data_EIM	CD1906-YSF10D1	BC-083107-YSF-10D1	8/31/07	6	--	3.4	1.88	17.2	25.6	14.57	556	<0.13	--	-120.4909326	46.56820648	0	YSF West
YSF_Soil_Data_EIM	CD1906-YSF9D2	BC-090707-YSF-9D2	9/7/07	6	--	<6	<17	17.6	24.9	24.98	732	<5	--	-120.4909996	46.56847166	1	YSF West
BC_Soil_Data_EIM	CD1906-13WA1	BC-040707-13W-A1	4/7/07	0	--	<5.35	6.47	134.9	17.1	13.4	354	<0.0949	--	-120.4912831	46.56740584	0	BC Operations Area
BC_Soil_Data_EIM	CD1906-13WD1	BC-040707-13W-D1	4/7/07	0	--	<5.2	7.26	14.3	22	42.1	862	0.131	--	-120.4912195	46.56728934	0	BC Operations Area
BC_Soil_Data_EIM	CD1906-NEA1	BC-053007-NE-A1	5/30/07	2	--	6.99	1.28	95.58	38.04	35.79	729	<0.109	--	-120.4925422	46.57039123	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-NEA2	BC-053007-NE-A2	5/30/07	2	--	5.24	<17	100.71	11.78	25.43	723.42	8.33	--	-120.4924314	46.5703974	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-NEA3	BC-053007-NE-A3	5/30/07	2	--	2.88	<17	52.24	22.34	35.48	810.48	4.73	--	-120.4923955	46.57021668	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-NEA4	BC-053007-NE-A4	5/30/07	2	--	9.65	<17	124.39	12.42	5.37	643.4	<5	--	-120.4924518	46.57030244	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-NEB1	BC-053007-NE-B1	5/30/07	2	--	3.68	<17	78.75	18.77	24.36	734.12	<5	--	-120.4922294	46.57041926	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-NEB2	BC-053007-NE-B2	5/30/07	2	--	<6	<17	143.28	36.89	15.42	658.71	5.85	--	-120.4921196	46.57041945	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-NEB3	BC-053007-NE-B3	5/30/07	2	--	5.01	<17	58.21	11.58	11.21	625.91	<5	--	-120.4923176	46.57024257	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-NEB4	BC-053007-NE-B4	5/30/07	2	--	9.15	<17	111.72	51.28	174.01	888.25	<5	--	-120.4922311	46.57035142	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-NEC1	BC-053007-NE-C1	5/30/07	2	--	<6	<17	66.19	40.75	192.79	876.88	<5	--	-120.4920584	46.57038275	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-NEC2	BC-053007-NE-C2	5/30/07	2	--	<6	<17	33.62	6.18	13.36	620.92	<5	--	-120.491982	46.57017854	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-NED3	BC-053007-NE-D3	5/30/07	2	--	3.02	<17	<48	<19	12.63	720	6.22	--	-120.4919063	46.56996532	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-NED4	BC-053007-NE-D4	5/30/07	2	--	<6	<17	107.66	21.55	77.36	903.2	5.48	--	-120.4920382	46.57006983	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-NEC3	BC-121307-NE-C3	12/13/07	2	--	<0.506	<0.506	3.07	<19	2.52	764	<0.107	--	-120.4921866	46.57018705	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-NEC4	BC-121307-NE-C4	5/30/07	2	--	<6	<17	88.07	12.75	9.84	773.36	<5	--	-120.4921163	46.57029533	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-NED1	BC-121307-NE-D1	5/30/07	2	--	<6	<17	97.26	31.94	11.01	762.62	<5	--	-120.4921958	46.57008845	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-NED2	BC-121307-NE-D2	5/30/07	2	--	<6	<17	51.55	18.38	5.37	537.92	<5	--	-120.4919295	46.57011156	0	Flue Dust Area
BC_Soil_Data_EIM	CD1906-12ED4	BC-040507-12E-D4	4/5/07	4	--	6.95	<5.7	96.3	<19.2	<7.1	474.13	<0.118	--	-120.4910196	46.56755298	0	BC Operations Area
BC_Soil_Data_EIM	CD1906-12WC3	BC-040507-12W-C3	4/5/07	4	--	<5.2	<16.6	104.08	17	18.54	965.31	<5.4	--	-120.4911157	46.56751929	0	BC Operations Area
BC_Soil_Data_EIM	CD1906-13WC1	BC-040707-13W-C1	4/7/07	4	--	<5.72	<5.72	17.3	<19.2	140	570	<0.0914	--	-120.4904736	46.56748415	0	YSF Southwest
BC_Soil_Data_EIM	CD1906-12EB3	BC-041107-12E-B3	4/11/07	4	--	<6.8	<11.5	45.94	<13.6	9.18	388.62	<0.124	--	-120.490825	46.56774965	0	BC Operations Area
BC_Soil_Data_EIM	CD1906-12EC1	BC-041107-12E-C1	4/11/07	4	--	<3.7	<11.5	17.9	28.55	116.3	450.24	4.78	--	-120.4908598	46.56766314	0	BC Operations Area
BC_Soil_Data_EIM	CD1906-13EC4	BC-041107-13E-C4	4/11/07	4	--	26.13	<11.5	39	32.1	170.44	503.42	<0.114	--	-120.4906977	46.56734801	0	Settling Pond
BC_Soil_Data_EIM	CD1906-13ED4	BC-041107-13E-D4	4/11/07	4	--	<3.7	<11.5	89.66	31.8	11.05	361.89	<3.7	--	-120.4909091	46.56730018	0	Settling Pond
BC_Soil_Data_EIM	CD1906-14EA4	BC-041207-14E-A4	4/12/07	4	--	--	16.3	87.91	21.1	58.4	633	<0.1	--	-120.4908436	46.56717785	0	Settling Pond

Table B-1
Yakima Steel Facility and Bay Chemical Site Metals Data
Agri-Tech and Yakima Steel Fabricators
Yakima, Washington
Farallon PN: 765-001

Data Source[1]	Sample Location	Sample ID	Sample Date	Sample Depth (Feet bgs)[2]	Analytical Results (micrograms per gram)[3]									Longitude (Decimal Degrees)	Latitutde (Decimal Degrees)	Sample Excluded[4]	Zone Assigned in Ratio Analysis[5]
					Antimony	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Zinc				
BC_Soil_Data_EIM	CD1906-14EB3	BC-041207-14E-B3	4/12/07	4	--	<5.03	<11.5	13.7	21.4	19.87	1,320	<0.0957	--	-120.4905909	46.56723603	0	Settling Pond
BC_Soil_Data_EIM	CD1906-14EC2	BC-041207-14E-C2	4/12/07	4	--	<4.62	15.7	14.2	31.63	48.2	578	<0.102	--	-120.4907785	46.56704312	0	Settling Pond
BC_Soil_Data_EIM	CD1906-14ED4	BC-041207-14E-D4	4/12/07	4	--	4.89	<11.5	73	19.4	26.7	705	7.49	--	-120.4905616	46.56717153	0	Settling Pond
BC_Soil_Data_EIM	CD1906-14WB3	BC-041307-14W-B3	4/13/07	4	--	4.02	6.21	17.9	18.7	23.7	1,170	<3.7	--	-120.4909313	46.56715819	0	Settling Pond
BC_Soil_Data_EIM	CD1906-14WC4	BC-041307-14W-C4	4/13/07	4	--	<3.7	<5.21	15.6	16.9	133	788	<0.114	--	-120.4909269	46.5670047	0	BC Operations Area

NOTES:

− denotes sample not analyzed.

< denotes analyte not detected at or exceeding the laboratory reporting limit listed.

B denotes blank contamination.

L denotes a negative instrument reading with an absolute value exceeding the reporting limit.

J denotes the associated value is an estimated quantity.

<J denotes the material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

[1]Data transcribed from the following sources:

Bay_Chem_RI = Table 6, *Bay Chemical Site RI Soil Data Used for Analysis* , provided in the *Former Bay Chemical Site Remedial Investigation Report, Volume I* dated March 1997, prepared by ERC/Pacific Groundwater Group.

ECY_EPI_Sampling = Results of soil sampling conducted by the Washington State Department of Ecology and Environmental Partners Inc of Issaquah, Washington in 2007.

Farallon_Sup_RI = Results of soil sampling conducted by Farallon in 2011.

BC_Soil_Data_EIM = Sampling results provided in *Completion and Compliance Monitoring Report, Bay Chemical Site, Yakima, Washington* dated November 17, 2009, prepared by Farallon.

YSF_Soil_Data_EIM = Sampling results provided in *Completion and Compliance Monitoring Report, Bay Chemical Site, Yakima, Washington* dated November 17, 2009, prepared by Farallon.

[2]Depth in feet below ground surface (bgs).

[3]Analyzed by U.S. Environmental Protection Agency Methods 6000/6010/7000 Series.

[4]Excluded samples include those located within the remediation footprint collected after September 1, 2007.

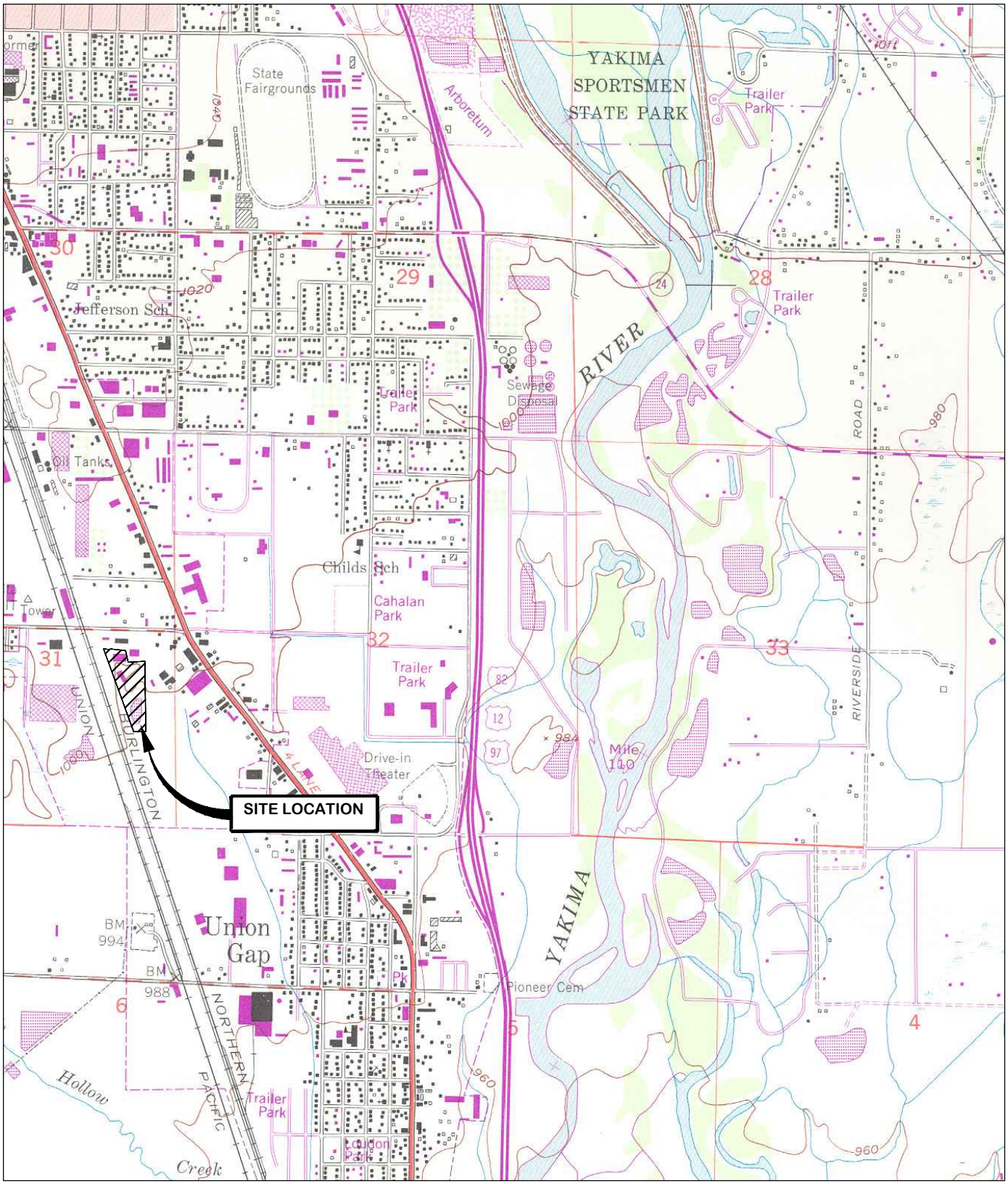
[5]Zones are used to group points plotted in ratio analysis shown in Figures 6 and 7.

ATTACHMENT D
WETLAND EVALUATION TM FIGURES AND TABLES

CONCEPTUAL SITE MODEL TECHNICAL MEMORANDUM

Agri-Tech and Yakima Steel Fabricators Site
Yakima Steel Fabricators
Yakima, Washington

Farallon PN: 765-001



REFERENCE: 7.5 MINUTE USGS QUADRANGLE YAKIMA SOUTH, WASHINGTON. DATED 1953 AND PHOTOREVISED 1981

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FIGURE 1

SITE VICINITY MAP
YSF/AGRI-TECH SITE
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: DEW | Checked By: HC | Date: 1/25/2016 | Disk Reference: 765001a

LEGEND

- SITE BOUNDARY
- TAX PARCEL BOUNDARY
- FENCE
- RAILROAD
- APPROXIMATE BOUNDARY OF FORMER YAKIMA FARMERS SUPPLY WASTE PIT
- AREA = 1 — FORMER YAKIMA FARMERS SUPPLY WASTE PIT LOCATION
- AREA = 2 — FORMER YAKIMA FARMER SUPPLY LIME AND SULFUR STOCKPILE LOCATIONS
- AREA = 3 — YAKIMA STEEEL STORAGE YARD AND WETLAND AREA

FORMER BAY CHEMICAL FLUE DUST STOCKPILE AREA

FORMER BAY CHEMICAL SLUDGE SETTLING POND AREA

PARCEL # 19133141010
BAY CHEMICAL SITE

PARCEL # 19133141408

- ASPHALT -

- AREA 1 -

AGRI-TECH BUILDING
(FORMER LIME SULFUR FORMULATING PLANT LOCATION)

PARCEL # 19133141409

BUILDING
(FORMER YAKIMA FARMERS SUPPLY MAIN WAREHOUSE)

EAST WASHINGTON AVENUE

CONCRETE PAD

PARCEL # 19133141005

- GRAVEL -

(FORMER YAKIMA FARMERS SUPPLY LEASED WAREHOUSE)

PARCEL # 19133141011
BUILDING

- ASPHALT -

BNSF RAILROAD SPUR

PARCEL # 19133114003

- GRAVEL -

UNPAVED ROAD

OFFICES

YAKIMA STEEL FABRICATORS BUILDING

FABRICATION AREA

FABRICATION AND LOADING AREA

EDGE OF PAVEMENT

- AREA 3 -

- ASPHALT -

- AREA 2 -

STEEL STORAGE AREA

MATERIALS STORAGE AREA

- GRAVEL -

PARCEL # 19133141009

- GRAVEL -

- DITCH -

OLD BARB WIRE FENCE

FORMER POND
CURRENT
WETLANDS AREA

- DITCH -

- DITCH -

PARCEL # 19133232408

PARCEL # 19133232433

CASCADE AUTO RECYCLING

PARCEL # 19133141406

PARCEL # 19133233009

DRAFT

0 N 100

APPROXIMATE SCALE IN FEET

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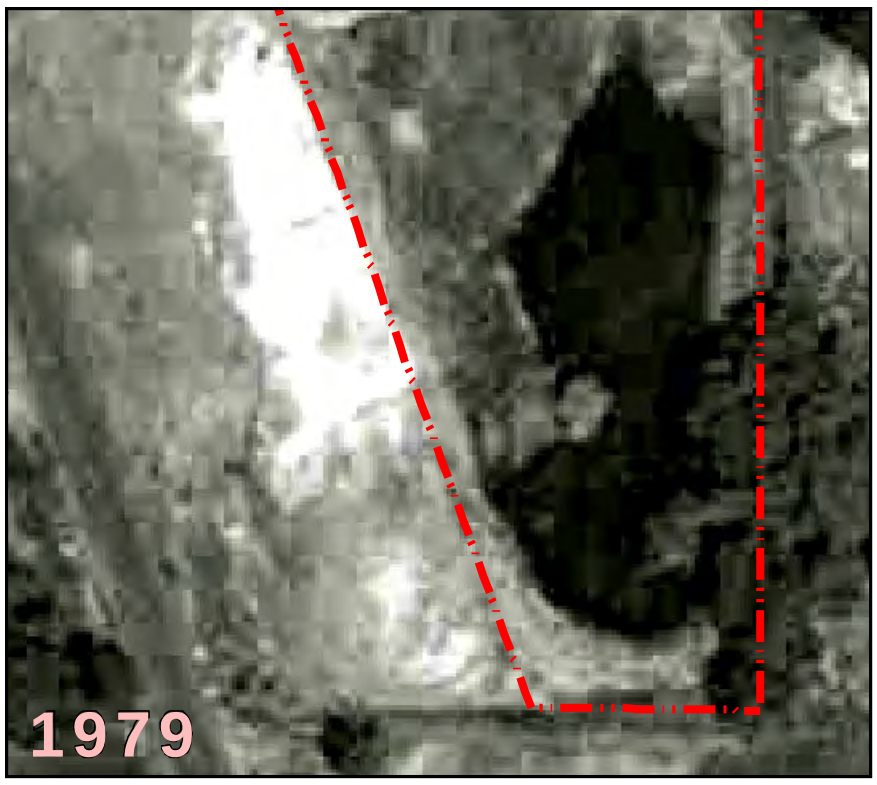
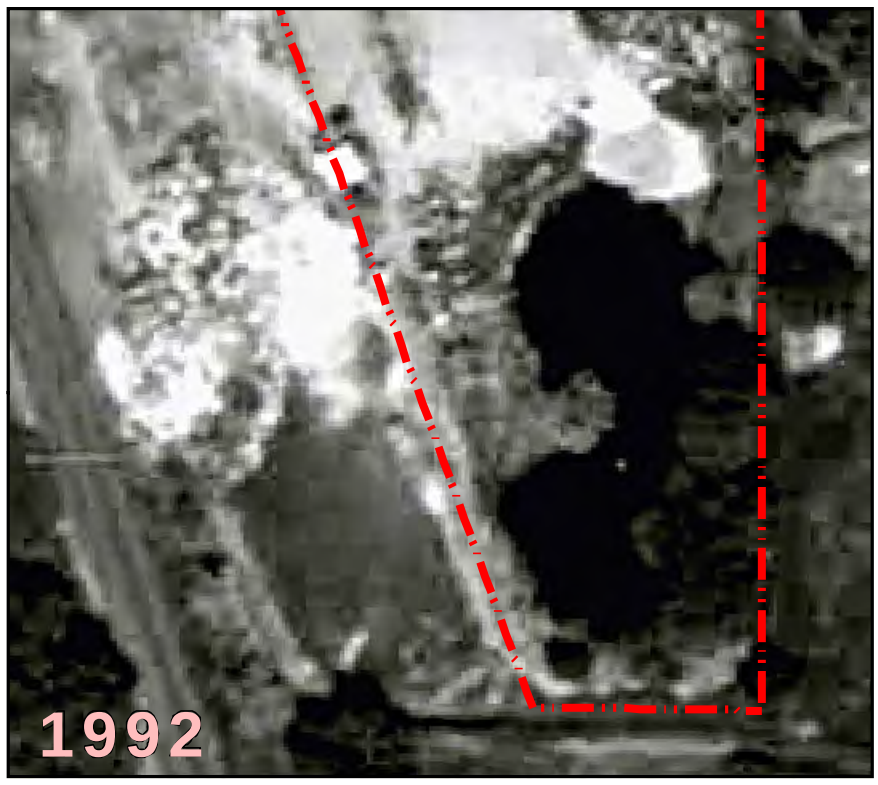
FIGURE 2

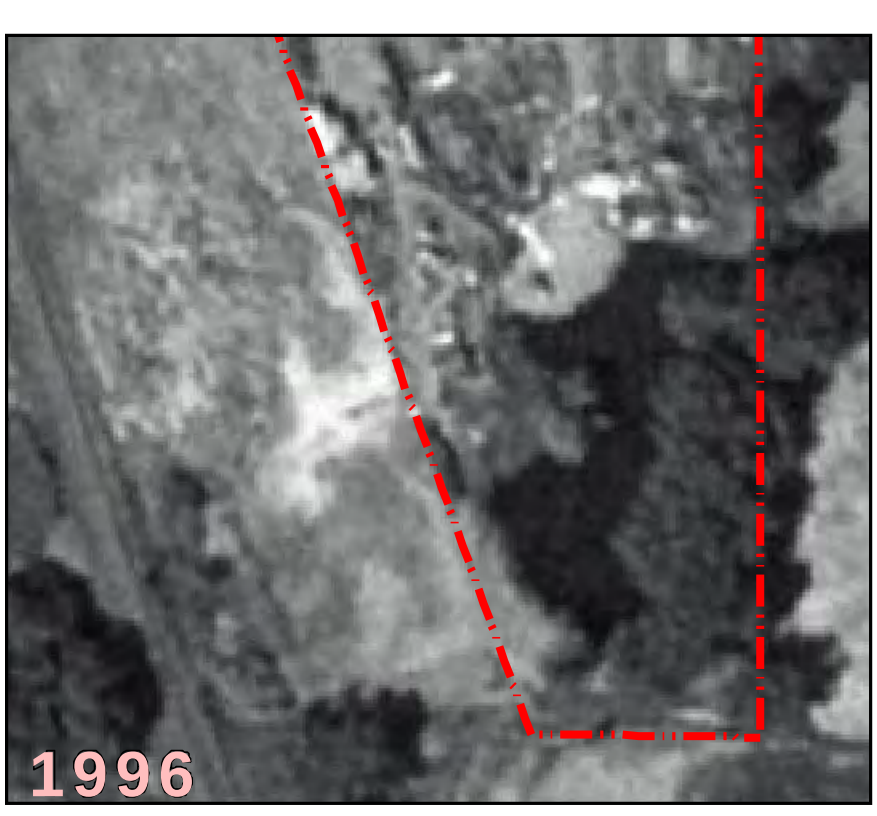
SITE PLAN AND TAX PARCEL LOCATIONS
YSF/AGRI-TECH SITE
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: DEW | Checked By: EB | Date: 1/5/2017 | Disk Reference: 765001a







LEGEND

SITE BOUNDARY

0 100

SCALE IN FEET

N

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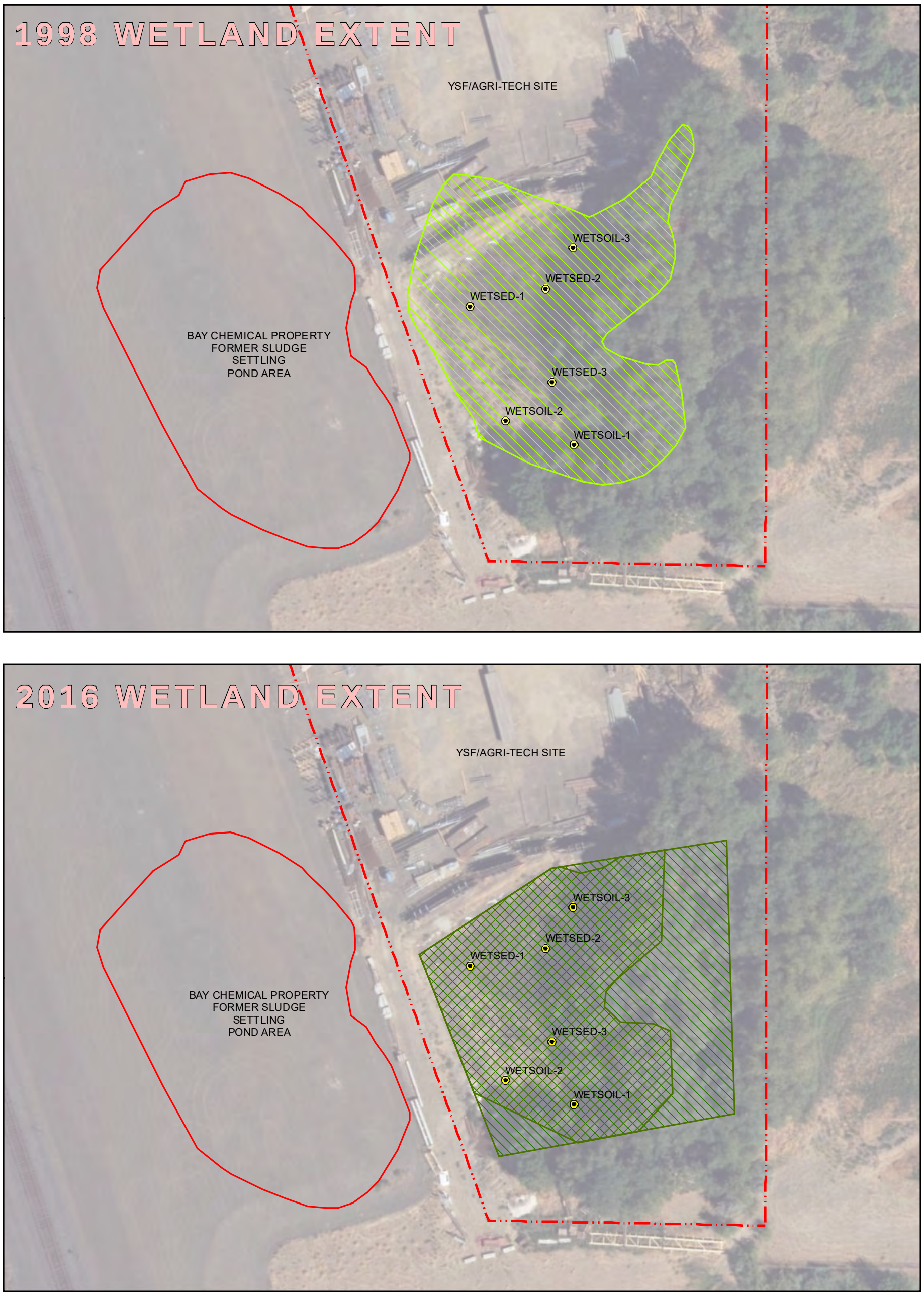
FIGURE 3

HISTORICAL WETLAND EXTENT
YSF/AGRI-TECH SITE
6 & 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 765-001

Drawn By: ebuer | Checked By: JC | Date: 1/31/2017 | Disc Reference:

Document Path: G:\Projects\765001 Yakima Steel Fab\GIS\Mapfiles\Wetland\Wetland_TimeLapse.mxd



LEGEND

- SAMPLE LOCATION
- FORMER SLUDGE SETTLING POND AREA
- YSF/AGRI-TECH SITE
- 1998 WETLAND EXTENT
- 2016 EMERGENT WETLAND
- 2016 WETLAND EXTENT

0 50

SCALE IN FEET

N

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FIGURE 4

WETLAND BOUNDARIES
YSF/AGRI-TECH SITE
6 AND 10 1/2 EAST WASHINGTON AVENUE
YAKIMA, WASHINGTON

FARALLON PN: 555-001

Drawn By: ebuer | Checked By: JC | Date: 1/31/2017 | Disc Reference:

Document Path: G:\Projects\765001 Yakima Steel Fab\GIS\Mapfiles\Wetland\Figure_03.mxd

Table 1
Analytical Results for Metals
Agri-Tech and Yakima Steel Fabricators Site
Yakima, Washington
Farallon PN: 765-001

Grid	Test Pit	Sample Identification	Laboratory Report	Sample Date	Sample Depth (feet) [1]	Analytical Results (milligrams per kilogram)[2]							
						Antimony [3]	Arsenic [3]	Cadmium [4]	Copper [3]	Lead [3]	Manganese [3]	Mercury [4]	Zinc [3]
Wetland Samples													
E	WetSoil-1	E-wetsoil-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<5.1	<5.1	**3.7**	39	110	190	0.14	1,700
		E-wetsoil-052611-0.5-1.0	580-26451-1	5/26/2011	1.0	<2.4	<2.4	<0.40	17	4.2	160	0.043	310
	WetSoil-2	E-wetsoil-2-052611-0.5-1.0	580-26451-1	5/26/2011	1.0	<3.4	<3.4	1.6	19	19	250	0.071	670
		E-wetsoil-2-052611-1.0-2.0	580-26451-1	5/26/2011	2.0	<3.0	<3.0	1.8	20	4.4	270	0.059	870
	WetSed-1	E-wetsed-1-053111	580-26360-1	5/23/2011	0.5	<5.8	<5.8	**9.2**	36	190	210	–	2,700
	WetSed-2	E-wetsed-2-053111	580-26360-1	5/23/2011	0.5	<6.9	7.6	**6.8**	41	150	220	–	2,800
	WetSed-3	E-wetsed-3-053111	580-26360-1	5/23/2011	0.5	<6.1	8.5	**7.8**	52	180	270	–	2,700
G	WetSoil-3	G-wetsoil-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<2.4	<2.4	<0.40	16	3.5	210	0.044	41
		G-wetsoil-052611-1.0-2.0	580-26451-1	5/26/2011	2.0	<4.2	<4.2	1.5	40	80	470	0.14	510
Sediment Cleanup Objective[5]						**--**	**14**	**2.1**	**400**	**360**	**--**	**0.7**	**3,200**
Sediment Cleanup Screening Level[5]						**--**	**120**	**5.4**	**1,200**	**1,300**	**--**	**0.8**	**4,200**

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

Result exceeds the sediment cleanup objective.

Result exceeds the sediment cleanup screening level.

– = denotes sample not analyzed

< denotes analyte not detected at or exceeding the laboratory reporting limit listed.

COPC = constituent of potential concern

L = a negative instrument reading had an absolute value greater than the reporting limit

[1] Depth in feet below ground surface.

[2] Analyzed by U.S. Environmental Protection Agency Methods 6000/6010/7000 Series.

[3] Constituent was not retained as a COPC following completion of the *Revised Remedial Investigation Report, Agri-Tech & Yakima Steel* Fabricators, 6 and 10 1/2 East Washington Avenue, Yakima, Washington dated June 10, 2004, prepared by Farallon Consulting, L.L.C. (Revised RI Report).

[4] Identified and retained as COPC in the Revised RI Report.

[5] Table VI, *Freshwater Sediment Cleanup Objectives and Cleanup Screening Levels Chemical Criteria* , of Section 563 of Chapter 173-204 of the Washington Administrative Code (WAC 173-204-563).

Table 2
Analytical Results for Petroleum Hydrocarbons
Agri-Tech and Yakima Steel Fabricators Site
Yakima, Washington
Farallon PN: 765-001

Grid	Test Pit	Sample Identification	Lab Report	Sample Date	Sample Depth (feet)[1]	Analytical Results (milligrams per kilogram)						
						GRO[2]	DRO[3]	ORO[3]	Benzene[3]	Toluene[3]	Ethyl-benzene[3]	Xylenes[3]
Wetland Samples												
E	Wetsoil-1	E-wetsoil-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<36	<90	<180	<0.0019	<0.0038	<0.0019*	<0.0047*
		E-wetsoil-052611-0.5-1.0	580-26451-1	5/26/2011	1.0	<22	<54	<110	<0.0012[H]	<0.0024[H]	<0.0012[H]	<0.0036[H]
	Wetsoil-2	E-wetsoil-2-052611-0.5-1.0	580-26451-1	5/26/2011	1.0	<22	<55	<110	<0.00091[H]	<0.0018[H]	<0.00091[H]	<0.00271[H]
		E-wetsoil-2-052611-1.0-2.0	580-26451-1	5/26/2011	2.0	<23	<58	<120	<0.0013[H]	<0.0026[H]	<0.0013[H]	<0.0039[H]
	WetSed-1	E-wetsed-1-052311	580-26502-1	5/23/2011	0.5	--	–	–	<0.0027	<0.0054	<0.0027	<0.0081
	WetSed-2	E-wetsed-2-052311	580-26502-1	5/23/2011	0.5	--	–	–	<0.0026	<0.0052	<0.0026	<0.0078
	WetSed-3	E-wetsed-3-052311	580-26502-1	5/23/2011	0.5	--	–	–	<0.0033	<0.0066	<0.0033	<0.0099
G	Wetsoil-3	G-wetsoil-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<24	<60	<120	<0.0013[H]	<0.0025[H]	<0.0013[H]	<0.0038[H]
		G-wetsoil-052611-1.0-2.0	580-26451-1	5/26/2011	2.0	<30	<74	<150	<0.00094	<0.0019	<0.00094	<0.00284
Sediment Cleanup Objective[4]						--	**340**	**3,600**	--	--	--	--
Sediment Cleanup Screening Level[4]						--	**510**	**4,400**	--	--	--	--

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the laboratory reporting limit listed.

[1] Depth in feet below ground surface.

[2] Analyzed by Northwest Method NWTPH-HCID.

[3] Analyzed by Northwest Method NWTPH-Dx.

[4] Table VI, *Freshwater Sediment Cleanup Objectives and Cleanup Screening Levels Chemical Criteria* , of Section 563 of Chapter 173-204 of the Washington Administrative Code (WAC 173-204-563).

COPC = constituent of potential concern

DRO = total petroleum hydrocarbons (TPH) as diesel-range organics

ORO = TPH as oil-range organics

H = sample was prepared or analyzed beyond the specified holding time

Table 3
Analytical Results for Volatile Organic Compounds
Agri-Tech and Yakima Steel Fabricators Site
Yakima, Washington
Farallon PN: 765-001

Grid	Test Pit	Sample Identification	Lab Report	Sample Date	Sample Depth (feet)[1]	Analytical Results (milligrams per kilogram)[2]												
						Benzene[3]	Ethyl-benzene[3]	m,p-Xylene[3]	o-Xylene[3]	Toluene[3]	Naphthalene[3]	n-Butylbenzene[3]	Sec-Butylbenzene[3]	Isopropylbenzene[3]	Methylene Chloride[3]	4-Methyl-2-Pentanone[3]	4-Isopropyltoluene[3]	n-Propylbenzene[3]
Wetland Samples																		
E	Wetsoil-1	E-wetsoil-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<0.0019	<0.0019*	<0.0038 *	<0.0019 *	<0.0038	<0.0094 *	<0.0038 *	<0.0038 *	<0.0038 *	<0.028	<0.0094	<0.0038 *	<0.0019 *
		E-wetsoil-052611-0.5-1.0	580-26451-1	5/26/2011	1.0	<0.0012 H	<0.0012 H	<0.0024 H	<0.0012 H	<0.0024 H	<0.0060 H	<0.0024 H	<0.0024 H	<0.0024 H	<0.018 H	<0.0060 H	<0.0024 H	<0.0012 H
	Wetsoil-2	E-wetsoil-2-052611-0.5-1.0	580-26451-1	5/26/2011	1.0	<0.00091 H	<0.00091 H	<0.0018 H	<0.00091 H	<0.0018 H	<0.0045 H	<0.0018 H	<0.0018 H	<0.0018 H	<0.014 H	<0.0045 H	<0.0018 H	<0.00091 H
		E-wetsoil-2-052611-1.0-2.0	580-26451-1	5/26/2011	2.0	<0.0013 H	<0.0013 H	<0.0026 H	<0.0013 H	<0.0026 H	<0.0065 H	<0.0026 H	<0.0026 H	<0.0026 H	<0.019 H	<0.0065 H	<0.0026 H	<0.0013 H
	WetSed-1	E-wetsed-1-053111	580-26502-1	5/23/2011	0.5	<0.0027	<0.0027	<0.0054	<0.0027	<0.0054	<0.014	<0.0054	<0.0054	<0.054	<0.041	<0.014	<0.0054	<0.0027
	WetSed-2	E-wetsed-2-053111	580-26502-1	5/23/2011	0.5	<0.0026	<0.0026	<0.0052	<0.0026	<0.0052	<0.013	<0.0052	<0.0052	<0.0052	<0.039	<0.013	<0.0052	<0.0026
	WetSed-3	E-wetsed-3-053111	580-26502-1	5/23/2011	0.5	<0.0033	<0.0033	<0.0066	<0.0033	<0.0066	<0.017	<0.0066	<0.0066	<0.0066	<0.050	<0.017	<0.0066	<0.0033
G	Wetsoil-3	G-wetsoil-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<0.0013 H	<0.0013 H	<0.0025 H	<0.0013 H	<0.0025 H	<0.0064 H	<0.0025 H	<0.0025 H	<0.0025 H	<0.019 H	<0.0064 H	<0.0025 H	<0.0013 H
		G-wetsoil-052611-1.0-2.0	580-26451-1	5/26/2011	2.0	<0.00094	<0.00094	<0.0019	<0.00094	<0.0019	<0.0047	<0.0019	<0.0019	<0.0019	<0.014	<0.0047	<0.0019	<0.00094
Sediment Cleanup Objective[5]						--	--	--	--	--	--	--	--	--	--	--	--	--
Sediment Cleanup Screening Level[5]						--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the reporting limit listed.

-- Denotes the initial calibration curve was outside acceptance criteria for Carbon Disulfide. As Carbon Disulfide was not a requested analyte at the time of sample analysis, it cannot be reported.

* Denotes Internal Standard response or retention time outside acceptable limits.

[1] Depth in feet below ground surface.

[2] Analyzed by U.S. Environmental Protection Agency Method 8260B.

[3] Compound was not retained as a COPC following completion of the *Revised Remedial Investigation Report, Agri-Tech & Yakima Steel Fabricators, 6 and 10 1/2 East Washington Avenue, Yakima, Washington* dated June 10, 2004, prepared by Farallon Consulting, L.L.C. (Revised RI Report).

[4] Identified and retained as a COPC in the Revised RI Report.

[5] Table VI, *Freshwater Sediment Cleanup Objectives and Cleanup Screening Levels Chemical Criteria* , of Section 563 of Chapter 173-204 of the Washington Administrative Code (WAC 173-204-563).

COPC = constituent of potential concern

H = sample was prepared or analyzed beyond specified holding time

MEK = 2-butanone

NE = not established

PCE = tetrachloroethene

TCE = trichloroethene

VOCs = volatile organic compounds

Table 3
Analytical Results for Volatile Organic Compounds
Agri-Tech and Yakima Steel Fabricators Site
Yakima, Washington
Farallon PN: 765-001

Grid	Test Pit	Sample Identification	Lab Report	Sample Date	Sample Depth (feet)[1]	Analytical Results (milligrams per kilogram)[2]											
						Acetone[3]	1,2,4-Trimethylbenzene[3]	1,3,5-Trimethylbenzene[3]	Carbon Disulfide[3]	1,2-Dichloropropane[4]	MEK[3]	Chloroform[3]	Tetrachloroethene[4]	Trichloroethene[4]	1,1-Dichloroethene[3]	(cis) 1,2-Dichloroethene[4]	tert-Butylbenzene[3]
Wetland Samples																	
E	Wetsoil-1	E-wetsoil-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	0.094	<0.0038 *	<0.0094 *	0.0064	<0.0019	0.010	<0.0019	<0.0019	<0.0019	**<0.0094**	<0.0019	<0.0038 *
		E-wetsoil-052611-0.5-1.0	580-26451-1	5/26/2011	1.0	<0.018 H	<0.0024 H	<0.0060 H	<0.0012 H	<0.0012 H	<0.0060 H	<0.0012 H	<0.0012 H	<0.0012 H	**<0.0060 H**	<0.0012 H	<0.0024 H
	Wetsoil-2	E-wetsoil-2-052611-0.5-1.0	580-26451-1	5/26/2011	1.0	0.029 H	<0.0018 H	<0.0045 H	0.0010 H	<0.00091 H	<0.0045 H	<0.00091 H	<0.00091 H	<0.00091 H	**<0.0045 H**	<0.00091 H	<0.0018 H
		E-wetsoil-2-052611-1.0-2.0	580-26451-1	5/26/2011	2.0	0.038 H	<0.0026 H	<0.0065 H	<0.0013 H	<0.0013 H	<0.0065 H	<0.0013 H	<0.0013 H	<0.0013 H	**<0.0065 H**	<0.0013 H	<0.0026 H
	WetSed-1	E-wetsed-1-053111	580-26502-1	5/23/2011	0.5	0.082	<0.0054	<0.014	<0.0027	<0.0027	<0.014	<0.0027	<0.0027	<0.0027	**<0.014**	<0.0027	<0.0054
	WetSed-2	E-wetsed-2-053111	580-26502-1	5/23/2011	0.5	<0.039	<0.0052	<0.013	0.0032	<0.0026	<0.013	<0.0026	<0.0026	<0.0026	**<0.013**	<0.0026	<0.0052
	WetSed-3	E-wetsed-3-053111	580-26502-1	5/23/2011	0.5	0.110	<0.0066	<0.017	<0.0033	**<0.0033**	0.025	<0.0033	<0.0033	<0.0033	**<0.017**	<0.0033	<0.0066
G	Wetsoil-3	G-wetsoil-052611-0.0-0.5	580-26451-1	5/26/2011	0.5	<0.019 H	<0.0025 H	<0.0013 H	<0.0013 H	<0.0013 H	<0.0064 H	<0.0013 H	<0.0013 H	<0.0013 H	**<0.0064 H**	<0.0013 H	<0.0025 H
		G-wetsoil-052611-1.0-2.0	580-26451-1	5/26/2011	2.0	<0.014	<0.0019	<0.0047	<0.00094	<0.00094	<0.0047	<0.00094	<0.00094	<0.00094	**<0.0047**	<0.00094	<0.0019
Sediment Cleanup Objective[5]						--	--	--	--	--	--	--	--	--	--	--	--
Sediment Cleanup Screening Level[5]						--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the reporting limit listed.

-- Denotes the initial calibration curve was outside acceptance criteria for Carbon Disulfide. As Carbon Disulfide was not a requested analyte at the time of sample analysis, it cannot be reported.

* Denotes Internal Standard response or retention time outside acceptable limits.

[1] Depth in feet below ground surface.

[2] Analyzed by U.S. Environmental Protection Agency Method 8260B.

[3] Compound was not retained as a COPC following completion of the *Revised Remedial Investigation Report, Agri-Tech & Yakima Steel Fabricators, 6 and 10 1/2 East Washington Avenue, Yakima, Washington* dated June 10, 2004, prepared by Farallon Consulting, L.L.C. (Revised RI Report).

[4] Identified and retained as a COPC in the Revised RI Report.

[5] Table VI, *Freshwater Sediment Cleanup Objectives and Cleanup Screening Levels Chemical Criteria* , of Section 563 of Chapter 173-204 of the Washington Administrative Code (WAC 173-204-563).

COPC = constituent of potential concern

H = sample was prepared or analyzed beyond specified holding time

MEK = 2-butanone

NE = not established

PCE = tetrachloroethene

TCE = trichloroethene

VOCs = volatile organic compounds

Table 4
Analytical Results for Pesticides
Agri-Tech and Yakima Steel Fabricators Site
Yakima, Washington
Farallon PN: 765-001

Grid	Test Pit	Lab Report	Sample Identification	Sample Date	Sample Depth (feet) [1]	Analytical Results (milligrams per kilogram)[2]												
						Aldrin [3]	Alpha Chlordane [4]	4,4'-DDD [4]	4,4'-DDE [4]	4,4'-DDT [3]	Dieldrin [4]	Endosulfan Sulfate [3]	Endrin [4]	Heptachlor Epoxide [4]	Endrin Aldehyde [3]	Gamma Chlordane [3]	Heptachlor [3]	Endosulfan II
Wetland Samples																		
E	WetSoil-1	580-26451-1	E-wetsoil-052611-0.0-0.5	5/26/2011	0.5	<0.0019	<0.0019	<0.0038	<0.0038	<0.0038	**<0.0038**	<0.0038	<0.0038	<0.0019	<0.0038	<0.0019	<0.0019	<0.0038
			E-wetsoil-052611-0.5-1.0	5/26/2011	1.0	<0.0011	<0.0011	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0011	<0.0022	<0.0011	<0.0011	<0.0022
	WetSoil-2	580-26451-1	E-wetsoil-2-052611-0.5-1.0	5/26/2011	1.0	<0.0011	<0.0011	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0011	<0.0023	<0.0011	<0.0011	<0.0023
			E-wetsoil-2-052611-1.0-2.0	5/26/2011	2.0	<0.0011	<0.0011	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0011	<0.0023	<0.0011	<0.0011	<0.0023
	WetSed-1	580-26360-1	E-wetsed-1-053111	5/23/2011	0.5	<0.0021 H	<0.0021 H	<0.0042 H	<0.0042 H	<0.0042 H	**<0.0042 H**	<0.0042 H	<0.0042 H	<0.0021 H*	<0.0042 H	<0.0021 H	<0.0021 H	<0.0042 H
	WetSed-2	580-26360-1	E-wetsed-2-053111	5/23/2011	0.5	<0.0022 H	<0.0022 H	<0.0044 H	<0.0044 H	<0.0044 H	**<0.0044 H**	<0.0044 H	<0.0044 H	<0.0022 H*	<0.0044 H	<0.0022 H	<0.0022 H	<0.0044 H
	WetSed-3	580-26360-1	E-wetsed-3-053111	5/23/2011	0.5	<0.0023 H	<0.0023 H	<0.0047 H	<0.0047 H	<0.0047 H	**<0.0047 H**	<0.0047 H	<0.0047 H	<0.0023 H*	<0.0047 H	<0.0023 H	<0.0023 H	<0.0047 H
G	WetSoil-3	580-26451-1	G-wetsoil-052611-0.0-0.5	5/26/2011	0.5	<0.0012	<0.0012	<0.0024	<0.0024	<0.0024	<0.0024	<0.0024	<0.0024	<0.0012	<0.0024	<0.0012	<0.0012	<0.0024
			G-wetsoil-052611-1.0-2.0	5/26/2011	2.0	<0.0016	<0.0016	<0.0031	<0.0031	<0.0031	**<0.0031**	<0.0031	<0.0031	<0.0016	<0.0031	<0.0016	<0.0016	<0.0031
Sediment Cleanup Objective[5]						--	--	**0.31**	**0.31**	**0.10**	**4.9**	--	--	--	--	--	--	--
Sediment Cleanup Screening Level[5]						--	--	**0.86**	**0.9**	**8.1**	**9.3**	--	--	--	--	--	--	--

NOTES:

Results in **bold** denote concentrations at or exceeding the Preliminary Screening Level indicated.

< denotes analyte not detected at or above the reporting limit listed.

* = Response or retention time outside acceptable limits.

COPC = constituent of potential concern

H = sample was prepared or analyzed beyond the specified holding time

NE = not established

[1] Depth in feet below ground surface.

[2] Analyzed by U.S. Environmental Protection Agency Method 8081.

[3] Constituent was not retained as a COPC following completion of the *Revised Remedial Investigation Report, Agri-Tech & Yakima Steel Fabricators, 6 and 10 1/2 East Washington Avenue, Yakima, Washington* dated June 10, 2004, prepared by Farallon Consulting, L.L.C. (Revised RI Report).

[4] Identified and retained as a COPC in the Revised RI Report.

[5] Table VI, *Freshwater Sediment Cleanup Objectives and Cleanup Screening Levels Chemical Criteria* , of Section 563 of Chapter 173-204 of the Washington Administrative Code (WAC 173-204-563).

Table 5
Bioassay Results Summary
Agri-Tech and Yakima Steel Fabricators Site
Yakima, Washington
Farallon PN: 765-001

Bioassay Evaluation	Screening Criteria		WETSED-1		WETSED-2		WETSED-3	
	SCO	CSL	Nautilus	Environ	Nautilus	Environ	Nautilus	Environ
10-day *H. azteca* Mortality (M_T-M_C)	>15%	>25%	100%	91%	14%	-4%	4%	-4%
20-day *C. dilutus* Mortality (M_T-M_C)	>15%	>25%	15%	14%	18%	17%	58%	20%
20-day *C. dilutus* Growth (MIG_C-MIG_T)/MIG_C	>0.25	>0.40	-0.22	0.12	0.04	-0.31	0.34	-0.01

Table based on Attachment C, Table 24, Summary of Sediment Chemistry and Test Results, Agri-Tech/YSF, 2011 and 2013.

NOTES:

Result exceeds sediment cleanup objective.

Result exceeds sediment cleanup screening level.

CSL = Cleanup Screening Level
Environ = Ramboll-Environ Corporation
M_C = Control group mortality
MIG_C = Control group mean individual growth
MIG_T = Test group mean individual growth
M_T = Test group mortality
Nautilus = Nautilus Environmental
SCO = Sediment Cleanup Objective

ATTACHMENT E
TERRESTRIAL ECOLOGICAL EVALUATION FORM

CONCEPTUAL SITE MODEL TECHNICAL MEMORANDUM

Agri-Tech and Yakima Steel Fabricators Site
Yakima Steel Fabricators
Yakima, Washington

Farallon PN: 765-001

Voluntary Cleanup Program

Washington State Department of Ecology
Toxics Cleanup Program

TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation.

Completion of this form is not sufficient to document your evaluation. You still need to document your analysis and the basis for your conclusion in your cleanup plan or report.

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to www.ecy.wa.gov/programs/tcp/policies/terrestrial/TEEHome.htm.

Step 1: IDENTIFY HAZARDOUS WASTE SITE	
Please identify below the hazardous waste site for which you are documenting an evaluation.	
Facility/Site Name: Agri-Tech/Yakima Steel Fabricators	
Facility/Site Address: 6 and 10 1/2 East Washington Avenue, Yakima, Washington	
Facility/Site No: 479	VCP Project No.:

Step 2: IDENTIFY EVALUATOR			
Please identify below the person who conducted the evaluation and their contact information.			
Name: Eric Buer			Title: Associate Geologist
Organization: Farallon Consulting, LLC			
Mailing address: 1809 7th Avenue			
City: Seattle		State: WA	Zip code: 98101
Phone: (424)394-4418	Fax: (425)295-0850	E-mail: ebuer@farallonconsulting.com	

Step 3: DOCUMENT EVALUATION TYPE AND RESULTS

A. Exclusion from further evaluation.

1. Does the Site qualify for an exclusion from further evaluation?

☐ Yes *If you answered **"YES,"** then answer **Question 2**.*

☒ No or Unknown *If you answered **"NO" or "UKNOWN,"** then skip to **Step 3B** of this form.*

2. What is the basis for the exclusion? *Check all that apply. Then skip to **Step 4** of this form.*

Point of Compliance: WAC 173-340-7491(1)(a)

☐ All soil contamination is, or will be,* at least 15 feet below the surface.

☐ All soil contamination is, or will be,* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.

Barriers to Exposure: WAC 173-340-7491(1)(b)

☐ All contaminated soil, is or will be,* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.

Undeveloped Land: WAC 173-340-7491(1)(c)

☐ There is less than 0.25 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.

☐ For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site.

Background Concentrations: WAC 173-340-7491(1)(d)

☐ Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.

* An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.

[±] "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

[#] "Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

B. Simplified evaluation.

1. Does the Site qualify for a simplified evaluation?

☒ Yes *If you answered **"YES,"** then answer **Question 2** below.*

☐ No or Unknown *If you answered **"NO"** or **"UNKNOWN,"** then skip to **Step 3C** of this form.*

2. Did you conduct a simplified evaluation?

☒ Yes *If you answered **"YES,"** then answer **Question 3** below.*

☐ No *If you answered **"NO,"** then skip to **Step 3C** of this form.*

3. Was further evaluation necessary?

☐ Yes *If you answered **"YES,"** then answer **Question 4** below.*

☒ No *If you answered **"NO,"** then answer **Question 5** below.*

4. If further evaluation was necessary, what did you do?

☐ Used the concentrations listed in Table 749-2 as cleanup levels. *If so, then skip to **Step 4** of this form.*

☐ Conducted a site-specific evaluation. *If so, then skip to **Step 3C** of this form.*

5. If no further evaluation was necessary, what was the reason? *Check all that apply. Then skip to **Step 4** of this form.*

Exposure Analysis: WAC 173-340-7492(2)(a)

☐ Area of soil contamination at the Site is not more than 350 square feet.

☐ Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.

Pathway Analysis: WAC 173-340-7492(2)(b)

☐ No potential exposure pathways from soil contamination to ecological receptors.

Contaminant Analysis: WAC 173-340-7492(2)(c)

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.

☒ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.

C. Site-specific evaluation. A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. *See* WAC 173-340-7493(1)(c).

1. Was there a problem? *See* WAC 173-340-7493(2).

☐ Yes *If you answered **"YES,"** then answer **Question 2** below.*

☐ No *If you answered **"NO,"** then identify the reason here and then skip to **Question 5** below:*

- ☐ No issues were identified during the problem formulation step.
- ☐ While issues were identified, those issues were addressed by the cleanup actions for protecting human health.

2. What did you do to resolve the problem? *See* WAC 173-340-7493(3).

- ☐ Used the concentrations listed in Table 749-3 as cleanup levels. *If so, then skip to **Question 5** below.*
- ☐ Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. *If so, then answer **Questions 3 and 4** below.*

3. If you conducted further site-specific evaluations, what methods did you use?
Check all that apply. See WAC 173-340-7493(3).

- ☐ Literature surveys.
- ☐ Soil bioassays.
- ☐ Wildlife exposure model.
- ☐ Biomarkers.
- ☐ Site-specific field studies.
- ☐ Weight of evidence.
- ☐ Other methods approved by Ecology. If so, please specify:

4. What was the result of those evaluations?

- ☐ Confirmed there was no problem.
- ☐ Confirmed there was a problem and established site-specific cleanup levels.

5. Have you already obtained Ecology's approval of both your problem formulation and problem resolution steps?

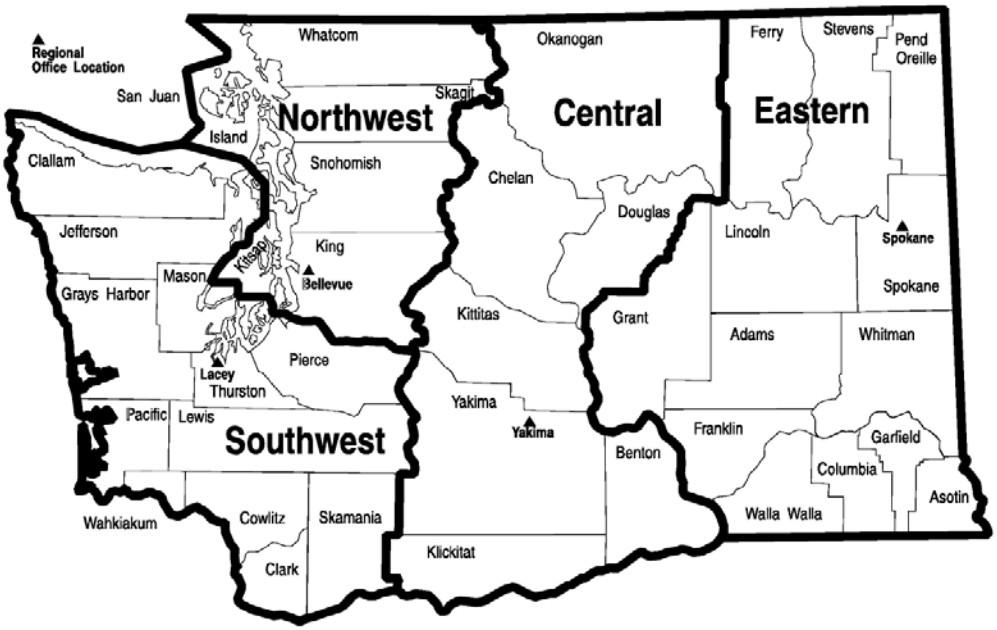
☐ Yes If so, please identify the Ecology staff who approved those steps:

☐ No

Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.

Northwest Region: Attn: VCP Coordinator 3190 160th Ave. SE Bellevue, WA 98008-5452	**Central Region:** Attn: VCP Coordinator 1250 West Alder St. Union Gap, WA 98903-0009
Southwest Region: Attn: VCP Coordinator P.O. Box 47775 Olympia, WA 98504-7775	**Eastern Region:** Attn: VCP Coordinator N. 4601 Monroe Spokane WA 99205-1295



ATTACHMENT F
SITE CLEANUP STANDARDS

CONCEPTUAL SITE MODEL TECHNICAL MEMORANDUM

Agri-Tech and Yakima Steel Fabricators Site
Yakima Steel Fabricators
Yakima, Washington

Farallon PN: 765-001

Table F-1
Soil and Sediment Constituents of Concern and Cleanup Levels
Yakima Steel Fabricators
Seattle, Washington
Farallon PN: 765-001

Constituent of Potential Concern	Carcinogen or Non-Carcinogen	Soil and Sediment Cleanup Levels										
		Soil									Sediment	
		Soil Method A Unrestricted Land Use (mg/kg)	Soil Method A Industrial Properties (mg/kg)	Soil Method B Non-Cancer (mg/kg)	Soil Method B Cancer (mg/kg)	Soil Method B Protective of Groundwater Vadose Zone @ 25 degrees C (mg/kg)	Soil Method B Protective of Groundwater Vadose Zone @ 13 degrees C (mg/kg)	Soil Method B Protection of Groundwater Saturated Zone (mg/kg)	Soil Method C Non-Cancer (mg/kg)	Soil Method C Cancer (mg/kg)	Dry Weight Sediment Cleanup Objective (mg/kg)	Retained As Constituent of Concern for Feasbilitiy Study
Tetrachloroethene	Carcinogen	0.05	0.05	480	476.19	0.053	**0.050**	0.0028	21,000	62,500	Not Applicable	**Yes**
Trichloroethene	Carcinogen	0.03	0.03	40	12	0.026	**0.025**	0.0015	1,750	2,853.26	Not Applicable	**Yes**
cis-1,2-Dichloroethene	Non-Carcinogen	Not Applicable	Not Applicable	160	Not Applicable	0.080	**0.078**	0.0052	7,000	Not Applicable	Not Applicable	**Yes**
Vinyl chloride	Carcinogen	Not Applicable	Not Applicable	240	0.67	0.002	**0.0017**	0.0001	10,500	87.50	Not Applicable	No
1,1-Dichloroethene	Non-Carcinogen	Not Applicable	Not Applicable	4,000	Not Applicable	0.050	**0.046**	0.0025	175,000	Not Applicable	Not Applicable	No
1,2-dichloropropane	Carcinogen	Not Applicable	Not Applicable	7,200	27.78	0.026	**0.025**	0.0017	315,000	3,645.83	Not Applicable	**Yes**
4,4-DDE* (DDE)	Carcinogen	Not Applicable	Not Applicable	Not Applicable	2.94	0.45	**0.45**	0.022	Not Applicable	386.03	Not Applicable	No
4,4-DDD* (DDD)	Carcinogen	Not Applicable	Not Applicable	Not Applicable	4.17	**0.34**	Not Applicable	0.017	Not Applicable	546.88	**0.31**	No
Dieldrin	Carcinogen	Not Applicable	Not Applicable	4	0.063	0.0028	**0.0028**	0.0001	175	8.20	**0.0049**	**Yes**
Endrin	Non-Carcinogen	Not Applicable	Not Applicable	24	Not Applicable	**0.44**	Not Applicable	0.022	1,050	Not Applicable	**0.0085**	No
Heptachlor epoxide	Carcinogen	Not Applicable	Not Applicable	1.04	0.11	**0.08**	Not Applicable	0.0040	45.50	14.42	Not Applicable	No
Aldrin	Non-Carcinogen	Not Applicable	Not Applicable	2.40	0.059	0.0025	**0.0025**	0.0001	105	7.72	Not Applicable	**Yes**
Alpha chlordane* (chlordane total)	Carcinogen	Not Applicable	Not Applicable	40	2.86	2.06	**2.06**	0.10	1,750	375	Not Applicable	No
DRO	Non-Carcinogen	**2,000**	2,000	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	**340**	**Yes**
ORO	Non-Carcinogen	**2,000**	2,000	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
cPAHs* (TEC) toxicity equivelent concentration	Carcinogen	0.10	2	Not Applicable	0.14	**2.33**	Not Applicable	0.12	Not Applicable	17.98	**17**	No
Antimony	Non-Carcinogen	Not Applicable	Not Applicable	32	Not Applicable	5.42	**5.42**	0.27	1,400	Not Applicable	Not Applicable	No
Arsenic	Carcinogen	20	20	24	0.67	2.92	**2.92**	0.15	1,050	87.50	**14**	No
Cadmium	Non-Carcinogen	2	2	80	Not Applicable	0.69	**0.69**	0.035	Not Applicable	Not Applicable	**2.10**	**Yes**
Copper	Non-Carcinogen	Not Applicable	Not Applicable	3,200	Not Applicable	284	**284**	14.26	140,000	Not Applicable	**400**	**Yes**
Lead	Non-Carcinogen	250	1,000	Not Applicable	Not Applicable	3,000	**3,000**	150	Not Applicable	Not Applicable	**360**	**Yes**
Mercury	Non-Carcinogen	2	2	Not Applicable	Not Applicable	2.09	**2.09**	0.10	Not Applicable	Not Applicable	**0.66**	**Yes**
Zinc	Non-Carcinogen	Not Applicable	Not Applicable	24,000	Not Applicable	5,971	**5,970**	298.98	1,050,000	Not Applicable	**3,200**	No

NOTES:
Bold = selected cleanup level

[1] Soil cleanup levels for protection of surface water quality are preliminary values only. Values are calculated using Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Equation 747-1 where the groundwater cleanup level protective of surface water in this table was used as Cw.

[2] Soil cleanup levels for protection of air quality are preliminary values only. Values are calculated using MTCA Equation 747-1 where the potable Method B groundwater cleanup level was used as Cw. Concentrations of hazardous substances in soil that meet the potable groundwater protection standard currently are considered sufficiently protective of the air pathway for unrestricted and industrial land uses.

[3] Cleanup level is based on standard MTCA Method B (unrestricted land use) or Method C (industrial land use) values from the Cleanup and Risk Calculations tables (CLARC).

"Not Applicable" is used where the constituent of concern will not affect the media of potential concern due to an incomplete pathway or no pertinent standard exists.
"Not Researched" denotes that no regulatory standards or toxicity information are available for the constituent of concern to derive a cleanup level for the medium of potential concern.

Table F-2
Groundwater Constituents of Concern and Cleanup Levels
Yakima Steel Fabricators
Seattle, Washington
Farallon PN: 765-001

Constituent of Potential Concern	Carcinogen or Non-Carcinogen	Groundwater Cleanup Levels					Retained As Constituent of Concern for Feasbilitiy Study
		Groundwater Method A (µg/L)	Groundwater Method B Non-Cancer (µg/L)	Groundwater Method B Cancer (µg/L)	Groundwater Method C Non-Cancer (µg/L)	Groundwater Method C Cancer (µg/L)	
Tetrachloroethene	Carcinogen	**5**	48	20.83	105	208.33	Yes
Trichloroethene	Carcinogen	**5**	4	0.54	8.75	9.51	Yes
cis-1,2-Dichloroethene	Non-Carcinogen	Not Applicable	**16**	Not Applicable	35	Not Applicable	Yes
Vinyl chloride	Carcinogen	**0.20**	24	0.029	52.50	0.29	Yes
1,1-Dichloroethene	Non-Carcinogen	Not Applicable	**400**	Not Applicable	875	Not Applicable	No
1,2-dichloropropane	Carcinogen	Not Applicable	720	**1.22**	1,575	12.15	Yes
4,4-DDE* (DDE)	Carcinogen	Not Applicable	Not Applicable	**0.26**	Not Applicable	2.57	Yes
4,4-DDD* (DDD)	Carcinogen	Not Applicable	Not Applicable	**0.36**	Not Applicable	3.65	Yes
Dieldrin	Carcinogen	Not Applicable	0.80	**0.0055**	1.75	0.055	Yes
Endrin	Non-Carcinogen	Not Applicable	**4.80**	Not Applicable	10.50	Not Applicable	No
Heptachlor epoxide	Carcinogen	Not Applicable	0.10	**0.0048**	0.23	0.048	No
Aldrin	Non-Carcinogen	Not Applicable	0.24	**0.0026**	0.53	0.026	No
Alpha chlordane* (chlordane total)	Carcinogen	Not Applicable	8	**0.25**	17.50	2.50	No
DRO	Non-Carcinogen	**500**	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
ORO	Non-Carcinogen	**500**	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
cPAHs* (TEC) toxicity equivelent concentration	Carcinogen	**0.10**	Not Applicable	0.012	Not Applicable	0.12	No
Antimony	Non-Carcinogen	Not Applicable	**6.40**	Not Applicable	14	Not Applicable	No
Arsenic	Carcinogen	**5**	4.80	0.058	10.50	0.58	No
Cadmium	Non-Carcinogen	**5**	8	Not Applicable	17.50	Not Applicable	No
Copper	Non-Carcinogen	Not Applicable	Not Applicable	**640**	Not Applicable	1,400	No
Lead	Non-Carcinogen	**15**	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
Mercury	Non-Carcinogen	**2**	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
Zinc	Non-Carcinogen	Not Applicable	**4,800**	Not Applicable	10,500	Not Applicable	No

NOTES:
Bold = selected cleanup level
[1] Groundwater cleanup levels protective of the air pathway for unrestricted land use (residential and commercial sites) and industrial land use were derived using the following equation: Gwcul = Aircul/GIVF.
[2] Cleanup level is based on standard Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method B default values from the Cleanup and Risk Calculations tables (CLARC).
[3]MTCA Cleanup Levels and Risk Calculations Method B Modified based on Asian Pacific Island (API) Exposure scenarios for the consumption of fish for the groundwater-to-surface water pathway using MTCA Equations 730-1 (non-carcinogens) or 730-2
[4] Cleanup levels based on MTCA Equation 730-1 (non-carcinogens) or 730-2 (carcinogens). Default values used with exception of:
Equation 730-1 - Average Body Weight (81.8 kilograms), Fish Consumption Rate (97.5 grams/day), Fish Diet Fraction (1), Averaging Time (64 years), and Exposure Duration (64 years)
Equation 730-2 - Averaging time of 70 years, and inputs for Equation 730-1 above
[6] Lowest MTCA ARAR set forth in CLARC
"Not Applicable" is used where the constituent of concern will not affect the media of potential concern due to an incomplete pathway or no pertinent standard exists.
"Not Researched" denotes that no regulatory standards or toxicity information are available for the constituent of concern to derive a cleanup level for the media of potential concern.

Table F-3
Air Constituents of Concern and Cleanup Levels
Yakima Steel Fabricators
Seattle, Washington
Farallon PN: 765-001

Constituent of Potential Concern	Carcinogen or Non-Carcinogen	Air Cleanup Levels				Retained As Constituent of Concern for Feasbilitiy Study
		Air Method B Non-Cancer (µg/m³)	Air Method B Cancer (µg/m³)	Air Method C Non-Cancer (µg/m³)	Air Method C Cancer (µg/m³)	
Tetrachloroethene	Carcinogen	18.29	**9.62**	40	96	**Yes**
Trichloroethene	Carcinogen	0.91	**0.37**	2	6	**Yes**
cis-1,2-Dichloroethene	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
Vinyl chloride	Carcinogen	45.71	**0.28**	100	3	**Yes**
Chloromethane	Non-Carcinogen	**41.10**	Not Applicable	90.0	Not Applicable	No
1,1-Dichloroethene	Non-Carcinogen	**91.43**	Not Applicable	200	Not Applicable	No
1,2-dichloropropane	Carcinogen	1.83	**0.25**	4	3	No
4,4-DDE* (DDE)	Carcinogen	Not Applicable	**0.026**	Not Applicable	0.26	No
4,4-DDD* (DDD)	Carcinogen	Not Applicable	**0.036**	Not Applicable	0.36	No
Dieldrin	Carcinogen	Not Applicable	**0.00054**	Not Applicable	0.01	No
Endrin	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
Heptachlor epoxide	Carcinogen	Not Applicable	**0.00096**	Not Applicable	0.01	No
Aldrin	Non-Carcinogen	Not Applicable	**0.00051**	Not Applicable	0.01	No
Alpha chlordane* (chlordane total)	Carcinogen	0.32	**0.025**	0.70	0.25	No
DRO	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
ORO	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
cPAHs* (TEC) toxicity equivelent concentration	Carcinogen	Not Applicable	**0.0023**	Not Applicable	0.02	No
Antimony	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
Arsenic	Carcinogen	0.007	**0.00058**	0.015	0.006	No
Cadmium	Non-Carcinogen	0.005	**0.0014**	0.010	0.014	No
Copper	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
Lead	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No
Mercury	Non-Carcinogen	**0.14**	Not Applicable	0.30	Not Applicable	No
Zinc	Non-Carcinogen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No

NOTES:

Bold = selected cleanup level

[1] Cleanup level is based on standard Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method B (unrestricted land use) or Method C (industrial land use) values from the Cleanup and Risk Calculations tables (CLARC).

"Not Applicable" is used where the constituent of concern will not affect the media of potential concern due to an incomplete pathway or no pertinent standard exists.