

Jensen's RI Data Summary
Port of Friday Harbor
November 22, 2022

RI field work was performed in general accordance with the RI Work Plan to address data gaps and define the extent of contamination. The following field activities were performed:

- Direct push soil and groundwater sampling and monitoring well installation were performed between July 25 and 29, 2022
- A tidal study was performed August 12 to 14, 2022
- Monitoring well groundwater sampling was performed September 6 to 8, 2022

This data package is intended to present the RI data collected to-date and initiate discussion regarding the completeness of these data.

Site Geology and Hydrogeology

Fill appears to be limited in the SRWA and the FDA. In the SRWA, it appears that fill is limited to the upper foot. In the FDA fill is up to 5 feet thick but the lateral extent is limited based on test pits and review of the 1941 aerial photograph.

More extensive fill is present in the BLWA. It is difficult to differentiate the fill from the native material, suggesting that most of the fill was derived locally, potentially from on-site grading from the southern portion of the site. Maximum fill thickness is estimated to be about 4 to 6 feet near the shoreline.

The shallow water bearing zone is tidally-influenced and is present in a gravelly sand unit that consists of both native soil and fill in the BLWA.

Six monitoring wells located closest to the shoreline (MW-2, 3, 5, 7, 8, and 9) were evaluated during the tidal study. Tidal efficiencies varied between 1% and 17%. MW-7 had the highest tidal efficiency at 16 to 17% per quarter cycle. MW-3 had the lowest tidal efficiency at 1 to 2% per quarter cycle. Tidal study average lag times range from approximately 3.5 to 7 hours. Wells will be sampled at the appropriate lag times relative to negative low tides.

The net groundwater flow evaluation from the tidal study largely confirmed groundwater flow toward surface water. The net groundwater flow from the tidal study is shown on the groundwater figure.

Groundwater Contamination

Dissolved metals (copper, nickel, and zinc) and dioxin/furan impacts to groundwater are concentrated in the shoreline area of the BLWA, with copper and zinc plumes extending further east into the SRWA. The data is summarized in Table 3 and the attached groundwater figure illustrates the extent of groundwater exceedances for each COI based on September 2022 groundwater well sampling results and July 2022 direct push groundwater samples. Isolated single location exceedances for chromium, TBT, lead, cPAHs, and dioxins/furans are present within the larger dissolved metals plume. A separate area of arsenic and copper impacts is located downgradient of the former shop floor drain (SFD) at MW-4 and SFD-4. Another separate area of cPAH impacts is located at BLWA-11.

The next round of groundwater well sampling is schedule to be performed in the second week of December 2022. Due to analytical interferences from sea water with Method 6020, all future groundwater metals analyses will be performed using EPA Method 1638.

Soil Contamination

Tables 1 and 2 summarize the RI soil data. Figures are provided to illustrate the extent of soil contamination for each of the soil COIs – TPH-Dx, metals (arsenic, cadmium, copper, lead, mercury, and zinc), and cPAHs. The RI data is generally consistent with the extent of soil contamination presented in the RI Work Plan.

TPH-Dx exceedances are limited to shallow and vadose soils in the immediate vicinity of the former AST behind the shop building and the SFD. RI data indicate that the SRWA-3 shallow soil TPH impact was isolated to this location.

Soil impacts for the other COIs are concentrated in the work areas, the BLWA and SRWA. Impacts are primarily from ground surface sources, consistent with boat maintenance activities. Surface soil impacts of copper, mercury, zinc, and cPAHs are widespread and stretch from Shipyard Cove (SYC) to the west to the former dump area (FDA) to the east.

The visual inspection of the wooded hillside located south of the OPALCO building pad and shop building did not produce any new findings or potential up-gradient sources of contamination. The walk-through noted trash debris largely originating from Turn Point Road.

Remaining Data Gaps

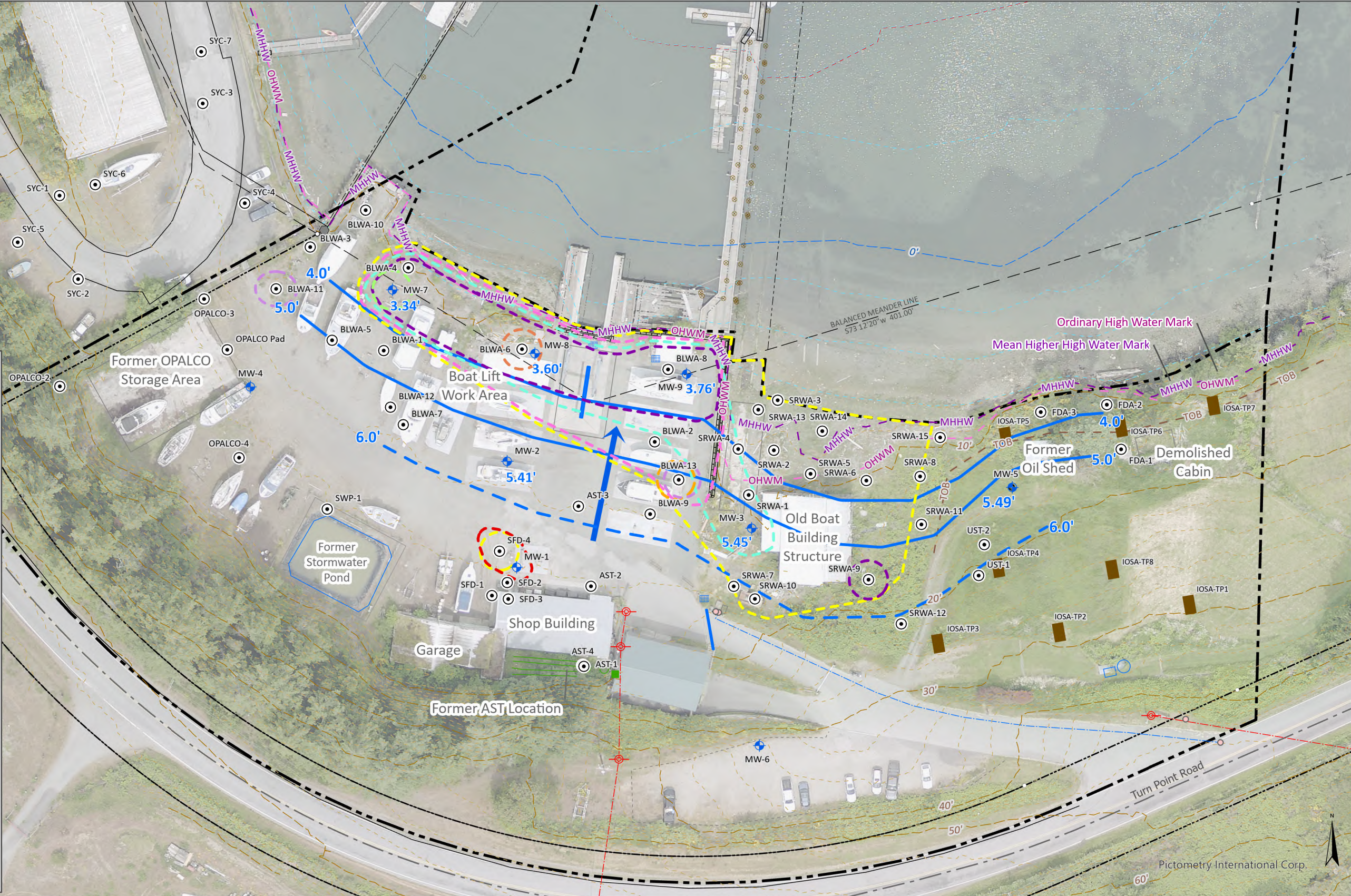
The RI work addressed most data gaps and largely defined the extent of contamination. Due to access issues (AST) and surface soil impacts extending beyond where sampling was performed (SYC), a few data gaps remain as follows:

- Extent of metals (Hg, Cu) and cPAH in surface soil beyond SYC-1 and SYC-7.
- Horizontal extent of TPH-Dx (and copper, zinc, and cPAH) impacts (less than 4 feet deep) in the AST area.

We propose to advance hand augers and collect soil samples in these areas to better define the extent of contamination and complete RI soil data collection. Copper and cPAH in surface soil at SYC may be associated with the access road rather than Jensen's sources so the extent of Jensen's impacts may be difficult to determine.

Filename: /Friday Harbor/GIS/UplandGIS/RIWP_Groundwater User: Springborn Version date: 11/24/2022

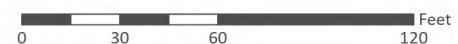
- ▭ Dioxins/Furans EA (SL=0.0051 ug/L)
- ▭ Dissolved Arsenic EA (SL=8.0 ug/L)
- ▭ Dissolved Chromium EA (SL=50 ug/L)
- ▭ Dissolved Copper EA (SL=3.1 ug/L)
- ▭ Dissolved Nickel EA (SL=8.2 ug/L)
- ▭ Dissolved Lead EA (SL=5.6 ug/L)
- ▭ Dissolved Zinc EA (SL=81 ug/L)
- ▭ Tributyltin EA (SL=0.0074 ug/L)
- ▭ cPAHs TEQ EA (SL=0.02 ug/L)
- ~ Net Groundwater Contours (feet MLLW elevation, 8/2022)
- 5.41' Averaged water level elevation (ft MLLW)
- ➔ Groundwater Flow Direction
- ⊕ Monitoring Well
- ⊙ Boring Location (Sample ID)
- Test Pits
- Trench Drain
- MHHW Mean Higher High Water Mark
- OHWM Ordinary High Water Mark
- TOB Top of Bank
- - - Property line (as of November 2019)
- - - 2' Contours Above 10' Elev.
- - - 2' Contours Below 10' Elev.



**Port of Friday Harbor
Jensen and Sons Boatyard and Marina**

Data Sources:
Crete Consulting, Inc. (2021), San Juan Surveying (2019), San Juan County (2019),
Shannon and Wilson, Inc. (2019), Star surveying, Inc. (2022), Whatcom Environmental (2018)

Notes:
COI = contaminant of interest
cPAH = carcinogenic polyaromatic hydrocarbons
PQL = practical quantitation limit
TEQ = toxicity equivalency factor
EA = exceedance area
SL = screening level



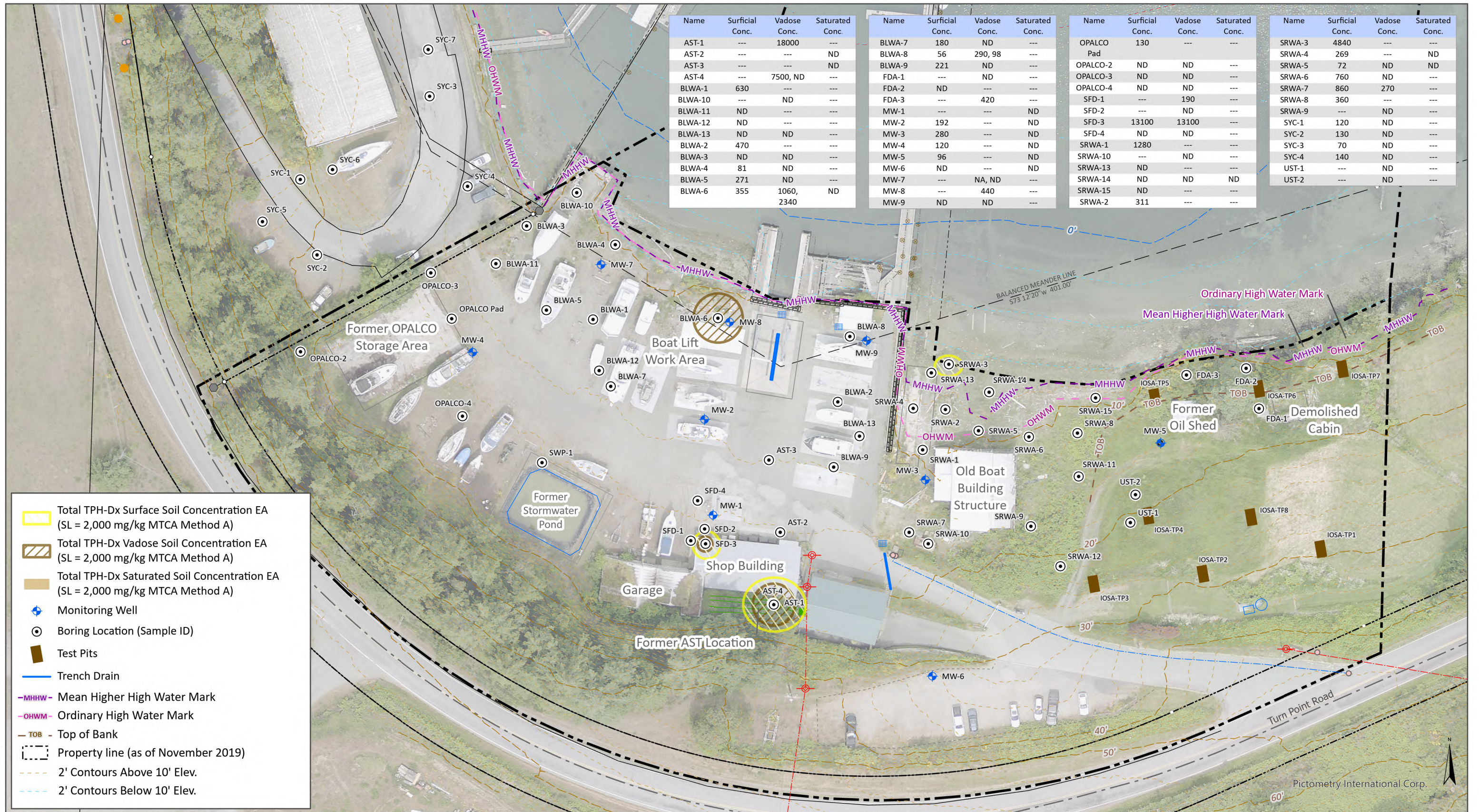
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**Remedial Investigation Work Plan
Net Groundwater Flow and COI Groundwater Plumes**



Pictometry International Corp.

Filename: /Friday Harbor/GIS/UplandGIS/RIWP_TPH_Dx_Table User: Springborn Version date: 11/24/2022



Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.
AST-1	---	18000	---	BLWA-7	180	ND	---	OPALCO Pad	130	---	---	SRWA-3	4840	---	---
AST-2	---	---	ND	BLWA-8	56	290, 98	---	OPALCO-2	ND	ND	---	SRWA-4	269	---	ND
AST-3	---	---	ND	BLWA-9	221	ND	---	OPALCO-3	ND	ND	---	SRWA-5	72	ND	ND
AST-4	---	7500, ND	---	FDA-1	---	ND	---	OPALCO-4	ND	ND	---	SRWA-6	760	ND	---
BLWA-1	630	---	---	FDA-2	ND	---	---	SFD-1	---	190	---	SRWA-7	860	270	---
BLWA-10	---	ND	---	FDA-3	---	420	---	SFD-2	---	ND	---	SRWA-8	360	---	---
BLWA-11	ND	---	---	MW-1	---	---	ND	SFD-3	13100	13100	---	SRWA-9	---	ND	---
BLWA-12	ND	---	---	MW-2	192	---	ND	SFD-4	ND	ND	---	SYC-1	120	ND	---
BLWA-13	ND	ND	---	MW-3	280	---	ND	SRWA-1	1280	---	---	SYC-2	130	ND	---
BLWA-2	470	---	---	MW-4	120	---	ND	SRWA-10	---	ND	---	SYC-3	70	ND	---
BLWA-3	ND	ND	---	MW-5	96	---	ND	SRWA-13	ND	---	---	SYC-4	140	ND	---
BLWA-4	81	ND	---	MW-6	ND	---	ND	SRWA-14	ND	ND	ND	UST-1	---	ND	---
BLWA-5	271	ND	---	MW-7	---	NA, ND	---	SRWA-15	ND	---	---	UST-2	---	ND	---
BLWA-6	355	1060, 2340	ND	MW-8	---	440	---	SRWA-2	311	---	---				
				MW-9	ND	ND	---								

- Total TPH-Dx Surface Soil Concentration EA (SL = 2,000 mg/kg MTCA Method A)
- Total TPH-Dx Vadose Soil Concentration EA (SL = 2,000 mg/kg MTCA Method A)
- Total TPH-Dx Saturated Soil Concentration EA (SL = 2,000 mg/kg MTCA Method A)
- Monitoring Well
- Boring Location (Sample ID)
- Test Pits
- Trench Drain
- MHHW- Mean Higher High Water Mark
- OHWM- Ordinary High Water Mark
- TOB- Top of Bank
- Property line (as of November 2019)
- 2' Contours Above 10' Elev.
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Notes:
Surface concentrations are less than 1-ft bgs.
ND = not detected at compound detection limits
--- = not analyzed in samples
EA = exceedance area
SL = screening level

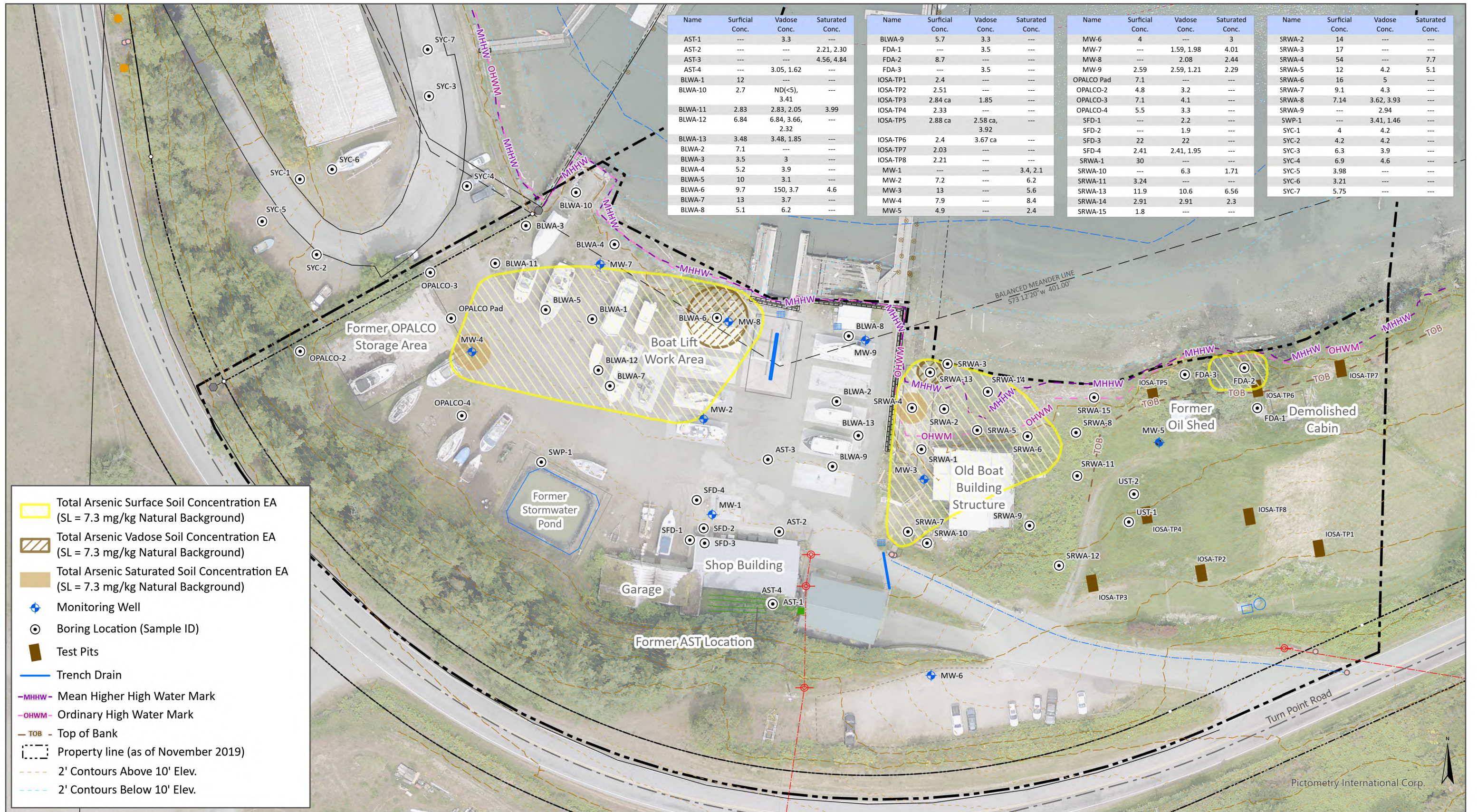


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**Remedial Investigation Work Plan
Soil TPH-Dx Diesel Concentration Map**



Filename: /Friday Harbor/GIS/UplandGIS/RIWP_As_Table User: Springborn Version date: 11/24/2022



Name	Surficial Conc.	Vadose Conc.	Saturated Conc.
AST-1	---	3.3	---
AST-2	---	2.21, 2.30	---
AST-3	---	4.56, 4.84	---
AST-4	---	3.05, 1.62	---
BLWA-1	12	---	---
BLWA-10	2.7	ND(<5), 3.41	---
BLWA-11	2.83	2.83, 2.05	3.99
BLWA-12	6.84	6.84, 3.66, 2.32	---
BLWA-13	3.48	3.48, 1.85	---
BLWA-2	7.1	---	---
BLWA-3	3.5	3	---
BLWA-4	5.2	3.9	---
BLWA-5	10	3.1	---
BLWA-6	9.7	150, 3.7	4.6
BLWA-7	13	3.7	---
BLWA-8	5.1	6.2	---

Name	Surficial Conc.	Vadose Conc.	Saturated Conc.
BLWA-9	5.7	3.3	---
FDA-1	---	3.5	---
FDA-2	8.7	---	---
FDA-3	---	3.5	---
IOSA-TP1	2.4	---	---
IOSA-TP2	2.51	---	---
IOSA-TP3	2.84 ca	1.85	---
IOSA-TP4	2.33	---	---
IOSA-TP5	2.88 ca	2.58 ca, 3.92	---
IOSA-TP6	2.4	3.67 ca	---
IOSA-TP7	2.03	---	---
IOSA-TP8	2.21	---	---
MW-1	---	---	3.4, 2.1
MW-2	7.2	---	6.2
MW-3	13	---	5.6
MW-4	7.9	---	8.4
MW-5	4.9	---	2.4

Name	Surficial Conc.	Vadose Conc.	Saturated Conc.
MW-6	4	---	3
MW-7	---	1.59, 1.98	4.01
MW-8	---	2.08	2.44
MW-9	2.59	2.59, 1.21	2.29
OPALCO Pad	7.1	---	---
OPALCO-2	4.8	3.2	---
OPALCO-3	7.1	4.1	---
OPALCO-4	5.5	3.3	---
SFD-1	---	2.2	---
SFD-2	---	1.9	---
SFD-3	22	22	---
SFD-4	2.41	2.41, 1.95	---
SRWA-1	30	---	---
SRWA-10	---	6.3	1.71
SRWA-11	3.24	---	---
SRWA-13	11.9	10.6	6.56
SRWA-14	2.91	2.91	2.3
SRWA-15	1.8	---	---

Name	Surficial Conc.	Vadose Conc.	Saturated Conc.
SRWA-2	14	---	---
SRWA-3	17	---	---
SRWA-4	54	---	7.7
SRWA-5	12	4.2	5.1
SRWA-6	16	5	---
SRWA-7	9.1	4.3	---
SRWA-8	7.14	3.62, 3.93	---
SRWA-9	---	2.94	---
SWP-1	---	3.41, 1.46	---
SYC-1	4	4.2	---
SYC-2	4.2	4.2	---
SYC-3	6.3	3.9	---
SYC-4	6.9	4.6	---
SYC-5	3.98	---	---
SYC-6	3.21	---	---
SYC-7	5.75	---	---

Legend

- Total Arsenic Surface Soil Concentration EA (SL = 7.3 mg/kg Natural Background)
- Total Arsenic Vadose Soil Concentration EA (SL = 7.3 mg/kg Natural Background)
- Total Arsenic Saturated Soil Concentration EA (SL = 7.3 mg/kg Natural Background)
- Monitoring Well
- Boring Location (Sample ID)
- Test Pits
- Trench Drain
- Mean Higher High Water Mark
- Ordinary High Water Mark
- Top of Bank
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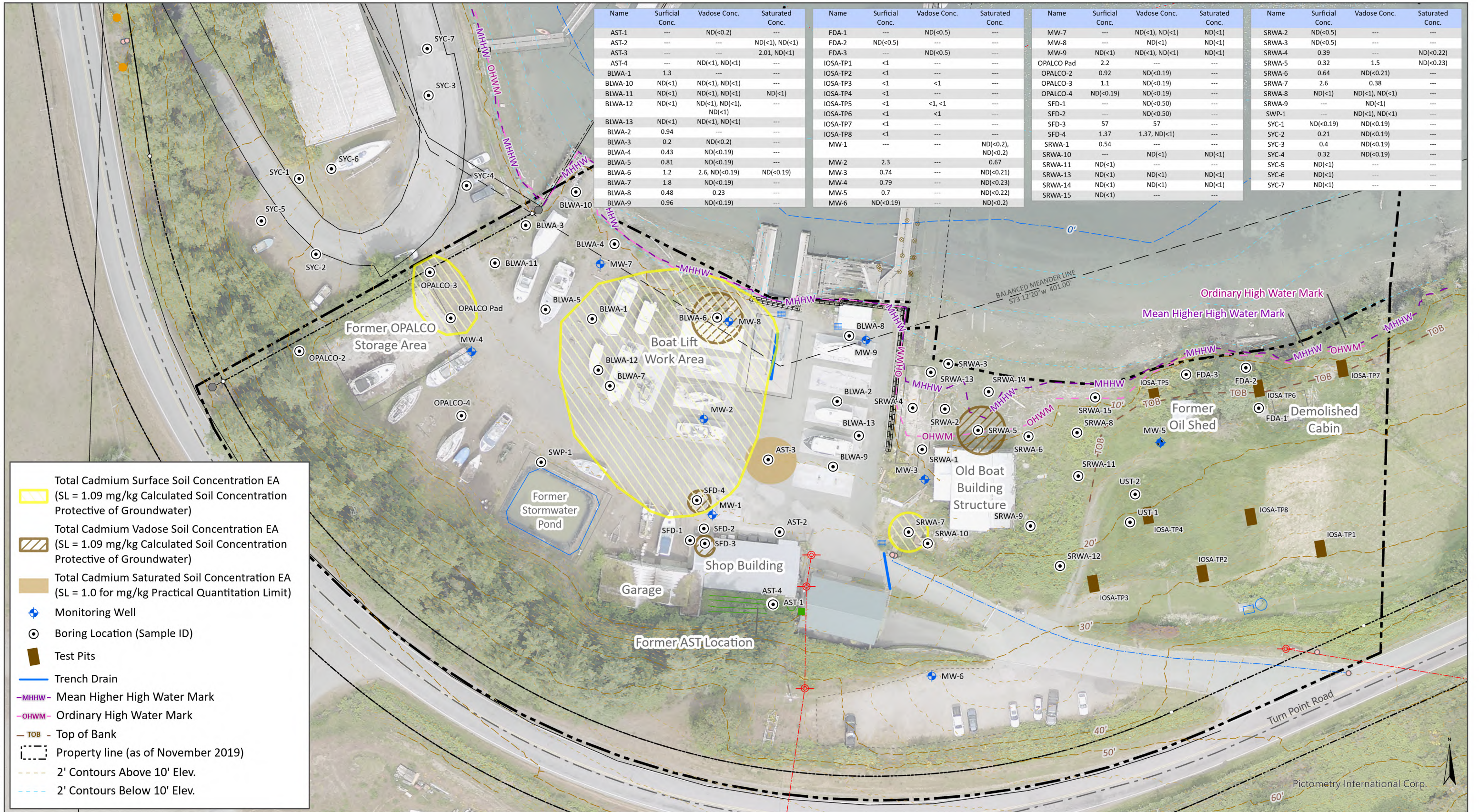
Data Sources:
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**Remedial Investigation Work Plan
 Soil Arsenic Concentration Map**



Pictometry International Corp.

Filename: /Friday Harbor/GIS/UplandGIS/RIWP_Cd_Table User: Springborn Version date: 11/24/2022



Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.
AST-1	---	ND(<0.2)	---	FDA-1	---	ND(<0.5)	---	MW-7	---	ND(<1), ND(<1)	ND(<1)	SRWA-2	ND(<0.5)	---	---
AST-2	---	---	ND(<1), ND(<1)	FDA-2	ND(<0.5)	---	---	MW-8	---	ND(<1)	ND(<1)	SRWA-3	ND(<0.5)	---	---
AST-3	---	---	2.01, ND(<1)	FDA-3	---	ND(<0.5)	---	MW-9	ND(<1)	ND(<1), ND(<1)	ND(<1)	SRWA-4	0.39	---	ND(<0.22)
AST-4	---	ND(<1), ND(<1)	---	IOSA-TP1	<1	---	---	OPALCO Pad	2.2	---	---	SRWA-5	0.32	1.5	ND(<0.23)
BLWA-1	1.3	---	---	IOSA-TP2	<1	---	---	OPALCO-2	0.92	ND(<0.19)	---	SRWA-6	0.64	ND(<0.21)	---
BLWA-10	ND(<1)	ND(<1), ND(<1)	---	IOSA-TP3	<1	<1	---	OPALCO-3	1.1	ND(<0.19)	---	SRWA-7	2.6	0.38	---
BLWA-11	ND(<1)	ND(<1), ND(<1)	ND(<1)	IOSA-TP4	<1	---	---	OPALCO-4	ND(<0.19)	ND(<0.19)	---	SRWA-8	ND(<1)	ND(<1), ND(<1)	---
BLWA-12	ND(<1)	ND(<1), ND(<1)	---	IOSA-TP5	<1	<1, <1	---	SFD-1	---	ND(<0.50)	---	SRWA-9	---	ND(<1)	---
BLWA-13	ND(<1)	ND(<1), ND(<1)	---	IOSA-TP6	<1	<1	---	SFD-2	---	ND(<0.50)	---	SWP-1	---	ND(<1), ND(<1)	---
BLWA-2	0.94	---	---	IOSA-TP7	<1	---	---	SFD-3	57	57	---	SYC-1	ND(<0.19)	ND(<0.19)	---
BLWA-3	0.2	ND(<0.2)	---	IOSA-TP8	<1	---	---	SFD-4	1.37	1.37, ND(<1)	---	SYC-2	0.21	ND(<0.19)	---
BLWA-4	0.43	ND(<0.19)	---	MW-1	---	---	ND(<0.2), ND(<0.2)	SRWA-1	0.54	---	---	SYC-3	0.4	ND(<0.19)	---
BLWA-5	0.81	ND(<0.19)	---	MW-2	2.3	---	0.67	SRWA-10	---	ND(<1)	ND(<1)	SYC-4	0.32	ND(<0.19)	---
BLWA-6	1.2	2.6, ND(<0.19)	ND(<0.19)	MW-3	0.74	---	ND(<0.21)	SRWA-11	ND(<1)	---	---	SYC-5	ND(<1)	---	---
BLWA-7	1.8	ND(<0.19)	---	MW-4	0.79	---	ND(<0.23)	SRWA-13	ND(<1)	ND(<1)	ND(<1)	SYC-6	ND(<1)	---	---
BLWA-8	0.48	0.23	---	MW-5	0.7	---	ND(<0.22)	SRWA-14	ND(<1)	ND(<1)	ND(<1)	SYC-7	ND(<1)	---	---
BLWA-9	0.96	ND(<0.19)	---	MW-6	ND(<0.19)	---	ND(<0.2)	SRWA-15	ND(<1)	---	---				

- Total Cadmium Surface Soil Concentration EA (SL = 1.09 mg/kg Calculated Soil Concentration Protective of Groundwater)
- Total Cadmium Vadose Soil Concentration EA (SL = 1.09 mg/kg Calculated Soil Concentration Protective of Groundwater)
- Total Cadmium Saturated Soil Concentration EA (SL = 1.0 for mg/kg Practical Quantitation Limit)
- Monitoring Well
- Boring Location (Sample ID)
- Test Pits
- Trench Drain
- MHHW - Mean Higher High Water Mark
- OHWM - Ordinary High Water Mark
- TOB - Top of Bank
- Property line (as of November 2019)
- 2' Contours Above 10' Elev.
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Notes:
 Surface concentrations are less than 1-ft bgs.
 ND = not detected at compound detection limits
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 EA = exceedance area
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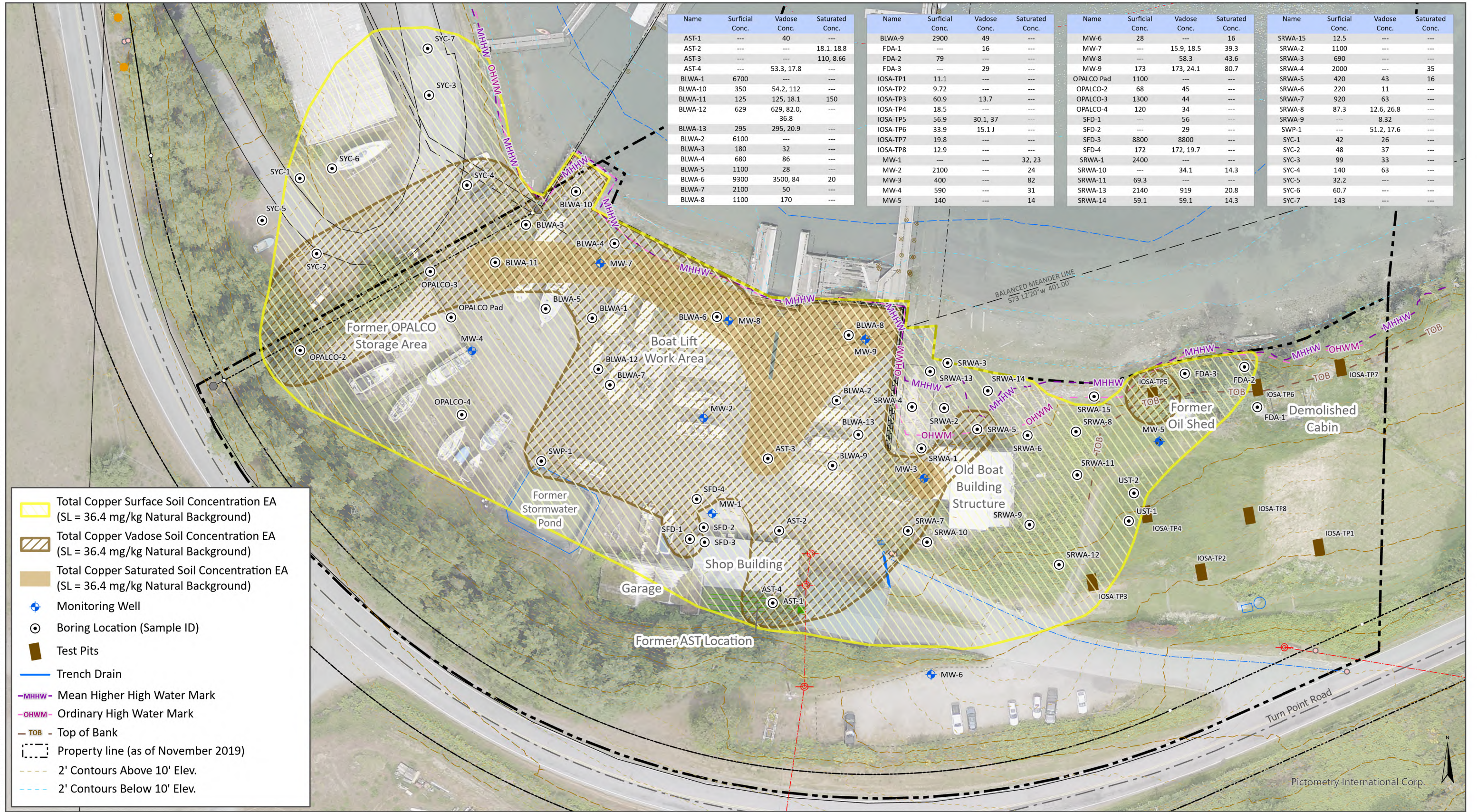


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**Remedial Investigation Work Plan
 Soil Cadmium Concentration Map**



Filename: /Friday Harbor/GIS/UplandGIS/RIWP_Cu_Table User: Springborn Version date: 11/24/2022



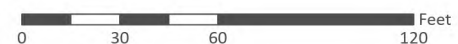
Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.
AST-1	---	40	---	BLWA-9	2900	49	---	MW-6	28	---	16	SRWA-15	12.5	---	---
AST-2	---	---	18.1, 18.8	FDA-1	---	16	---	MW-7	---	15.9, 18.5	39.3	SRWA-2	1100	---	---
AST-3	---	---	110, 8.66	FDA-2	79	---	---	MW-8	---	58.3	43.6	SRWA-3	690	---	---
AST-4	---	53.3, 17.8	---	FDA-3	---	29	---	MW-9	173	173, 24.1	80.7	SRWA-4	2000	---	35
BLWA-1	6700	---	---	IOSA-TP1	11.1	---	---	OPALCO Pad	1100	---	---	SRWA-5	420	43	16
BLWA-10	350	54.2, 112	---	IOSA-TP2	9.72	---	---	OPALCO-2	68	45	---	SRWA-6	220	11	---
BLWA-11	125	125, 18.1	150	IOSA-TP3	60.9	13.7	---	OPALCO-3	1300	44	---	SRWA-7	920	63	---
BLWA-12	629	629, 82.0,	---	IOSA-TP4	18.5	---	---	OPALCO-4	120	34	---	SRWA-8	87.3	12.6, 26.8	---
		36.8		IOSA-TP5	56.9	30.1, 37	---	SFD-1	---	56	---	SRWA-9	---	8.32	---
BLWA-13	295	295, 20.9	---	IOSA-TP6	33.9	15.1 J	---	SFD-2	---	29	---	SWP-1	---	51.2, 17.6	---
BLWA-2	6100	---	---	IOSA-TP7	19.8	---	---	SFD-3	8800	8800	---	SYC-1	42	26	---
BLWA-3	180	32	---	IOSA-TP8	12.9	---	---	SFD-4	172	172, 19.7	---	SYC-2	48	37	---
BLWA-4	680	86	---	MW-1	---	---	32, 23	SRWA-1	2400	---	---	SYC-3	99	33	---
BLWA-5	1100	28	---	MW-2	2100	---	24	SRWA-10	---	34.1	14.3	SYC-4	140	63	---
BLWA-6	9300	3500, 84	20	MW-3	400	---	82	SRWA-11	69.3	---	---	SYC-5	32.2	---	---
BLWA-7	2100	50	---	MW-4	590	---	31	SRWA-13	2140	919	20.8	SYC-6	60.7	---	---
BLWA-8	1100	170	---	MW-5	140	---	14	SRWA-14	59.1	59.1	14.3	SYC-7	143	---	---

- Total Copper Surface Soil Concentration EA (SL = 36.4 mg/kg Natural Background)
- Total Copper Vadose Soil Concentration EA (SL = 36.4 mg/kg Natural Background)
- Total Copper Saturated Soil Concentration EA (SL = 36.4 mg/kg Natural Background)
- Monitoring Well
- Boring Location (Sample ID)
- Test Pits
- Trench Drain
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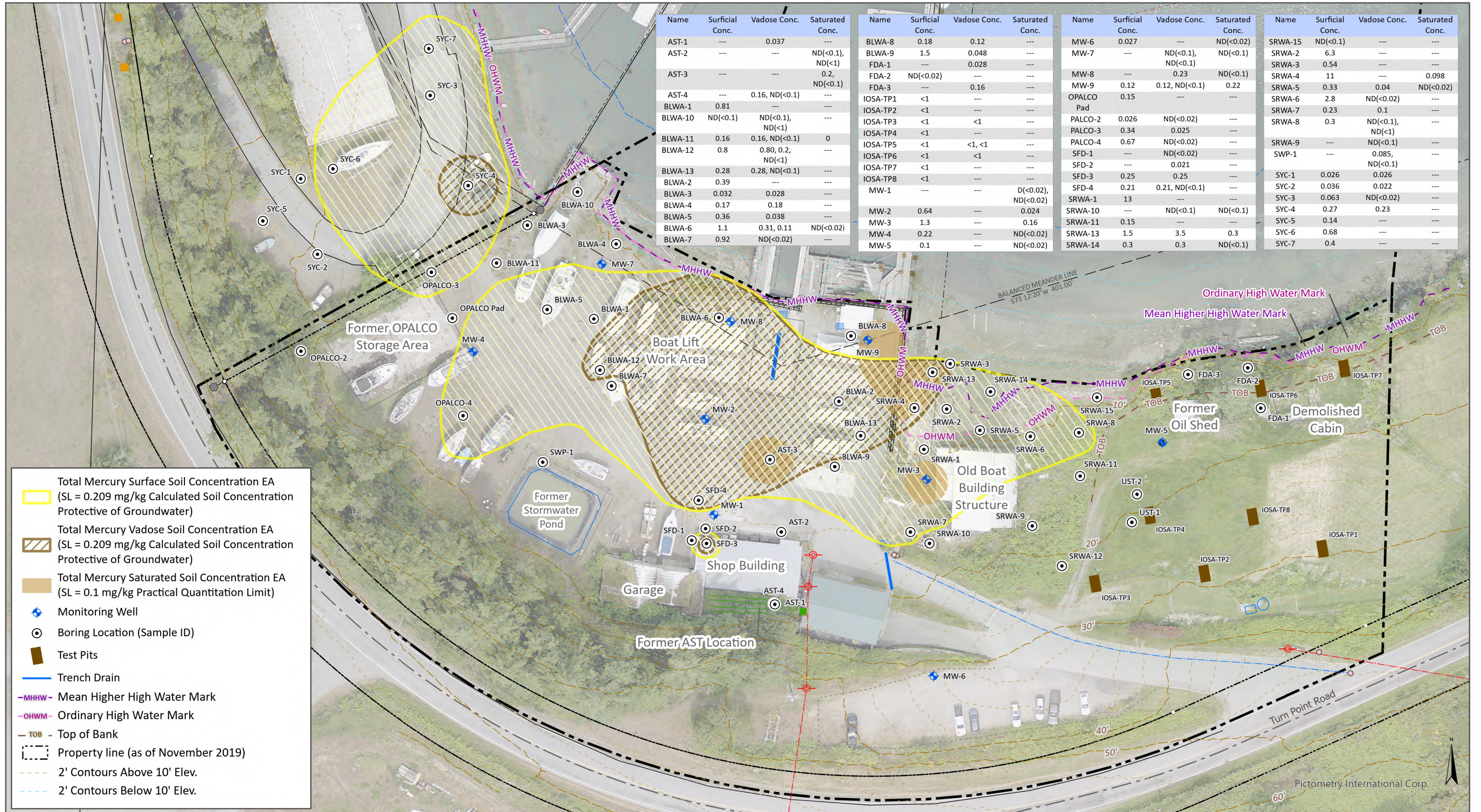
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**Remedial Investigation Work Plan
Soil Copper Concentration Map**

LEON Environmental, LLC **CRETE** CONSULTING, INC.

Pictometry International Corp.

Filename: /Friday Harbor/GIS/UplandGIS/RIWP_Hg_Table User: Springborn Version date: 11/24/2022



Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.
AST-1	---	0.037	---	BLWA-8	0.18	0.12	---	MW-6	0.027	---	ND(<0.02)	SRWA-15	ND(<0.1)	---	---
AST-2	---	---	ND(<0.1), ND(<1)	BLWA-9	1.5	0.048	---	MW-7	---	ND(<0.1), ND(<0.1)	---	SRWA-2	6.3	---	---
AST-3	---	---	0.2, ND(<0.1)	FDA-1	---	0.028	---	MW-8	---	0.23	ND(<0.1)	SRWA-3	0.54	---	---
AST-4	---	0.16, ND(<0.1)	---	FDA-2	ND(<0.02)	---	---	MW-9	0.12	0.12, ND(<0.1)	0.22	SRWA-4	11	---	0.098
BLWA-1	0.81	---	---	FDA-3	---	0.16	---	OPALCO Pad	0.15	---	---	SRWA-5	0.33	0.04	ND(<0.02)
BLWA-10	ND(<0.1)	ND(<0.1), ND(<1)	---	IOSA-TP1	<1	---	---	PALCO-2	0.026	ND(<0.02)	---	SRWA-6	2.8	ND(<0.02)	---
BLWA-11	0.16	0.16, ND(<0.1)	0	IOSA-TP2	<1	---	---	PALCO-3	0.34	0.025	---	SRWA-7	0.23	0.1	---
BLWA-12	0.8	0.80, 0.2, ND(<1)	---	IOSA-TP3	<1	<1	---	PALCO-4	0.67	ND(<0.02)	---	SRWA-8	0.3	ND(<0.1), ND(<1)	---
BLWA-13	0.28	0.28, ND(<0.1)	---	IOSA-TP4	<1	<1	---	SFD-1	---	ND(<0.02)	---	SRWA-9	---	ND(<0.1)	---
BLWA-2	0.39	---	---	IOSA-TP5	<1	<1, <1	---	SFD-2	---	0.021	---	SWP-1	---	0.085,	---
BLWA-3	0.032	0.028	---	IOSA-TP6	<1	<1	---	SFD-3	0.25	0.25	---	SYC-1	0.026	0.026	---
BLWA-4	0.17	0.18	---	IOSA-TP7	<1	---	---	SFD-4	0.21	0.21, ND(<0.1)	---	SYC-2	0.036	0.022	---
BLWA-5	0.36	0.038	---	IOSA-TP8	<1	---	---	SRWA-1	13	---	---	SYC-3	0.063	ND(<0.02)	---
BLWA-6	1.1	0.31, 0.11	ND(<0.02)	MW-1	---	---	D(<0.02), ND(<0.02)	SRWA-10	---	ND(<0.1)	ND(<0.1)	SYC-4	0.27	0.23	---
BLWA-7	0.92	ND(<0.02)	---	MW-2	0.64	---	0.024	SRWA-11	0.15	---	---	SYC-5	0.14	---	---
				MW-3	1.3	---	0.16	SRWA-13	1.5	3.5	0.3	SYC-6	0.68	---	---
				MW-4	0.22	---	ND(<0.02)	SRWA-14	0.3	0.3	ND(<0.1)	SYC-7	0.4	---	---
				MW-5	0.1	---	ND(<0.02)								

Total Mercury Surface Soil Concentration EA
 (SL = 0.209 mg/kg Calculated Soil Concentration Protective of Groundwater)

Total Mercury Vadose Soil Concentration EA
 (SL = 0.209 mg/kg Calculated Soil Concentration Protective of Groundwater)

Total Mercury Saturated Soil Concentration EA
 (SL = 0.1 mg/kg Practical Quantitation Limit)

Monitoring Well

Boring Location (Sample ID)

Test Pits

Trench Drain

MHHW - Mean Higher High Water Mark

OHWM - Ordinary High Water Mark

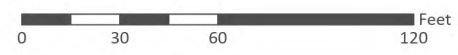
TOB - Top of Bank

Property line (as of November 2019)

2' Contours Above 10' Elev.

2' Contours Below 10' Elev.

Notes:
 Surface concentrations are less than 1-ft bgs.
 ND = not detected at compound detection limits
 --- = not analyzed in samples
 EA = exceedance area
 SL = screening level



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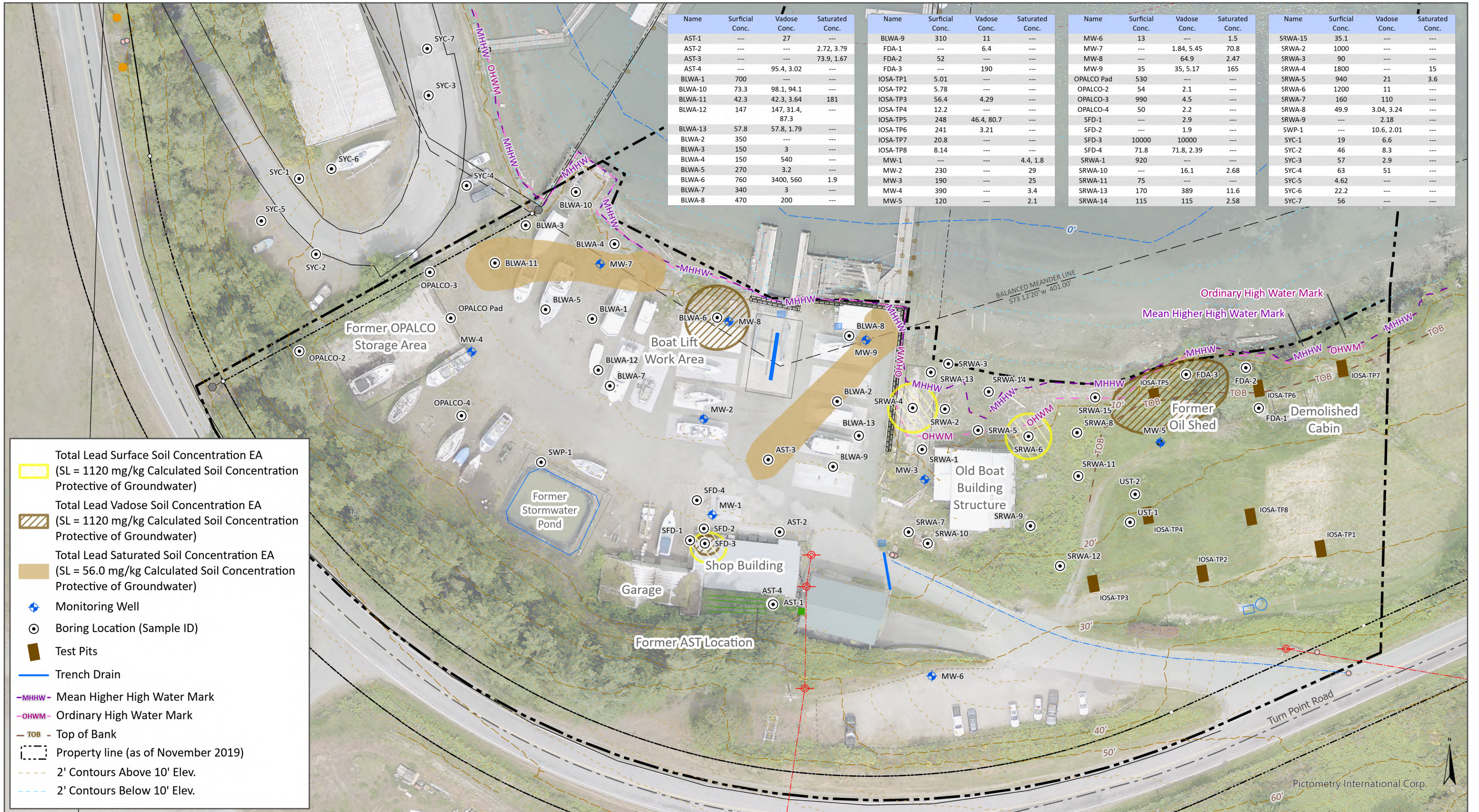
**Port of Friday Harbor
 Jensen and Sons Boatyard and Marina**

Data Sources:
 Crete Consulting, Inc. (2021), San Juan Surveying (2019), San Juan County (2019), Shannon and Wilson, Inc. (2019), Star surveying, Inc. (2022), Whatcom Environmental (2018)

**Remedial Investigation Work Plan
 Soil Mercury Concentration Map**



Filename: /Friday Harbor/GIS/UplandGIS/RIWP_Pb_Table User: Springborn Version date: 11/24/2022



Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.
AST-1	---	27	---	BLWA-9	310	11	---	MW-6	13	---	1.5	SRWA-15	35.1	---	---
AST-2	---	---	2.72, 3.79	FDA-1	---	6.4	---	MW-7	---	1.84, 5.45	70.8	SRWA-2	1000	---	---
AST-3	---	---	73.9, 1.67	FDA-2	52	---	---	MW-8	---	64.9	2.47	SRWA-3	90	---	---
AST-4	---	95.4, 3.02	---	FDA-3	---	190	---	MW-9	35	35, 5.17	165	SRWA-4	1800	---	15
BLWA-1	700	---	---	IOSA-TP1	5.01	---	---	OPALCO Pad	530	---	---	SRWA-5	940	21	3.6
BLWA-10	73.3	98.1, 94.1	---	IOSA-TP2	5.78	---	---	OPALCO-2	54	2.1	---	SRWA-6	1200	11	---
BLWA-11	42.3	42.3, 3.64	181	IOSA-TP3	56.4	4.29	---	OPALCO-3	990	4.5	---	SRWA-7	160	110	---
BLWA-12	147	147, 31.4,	---	IOSA-TP4	12.2	---	---	OPALCO-4	50	2.2	---	SRWA-8	49.9	3.04, 3.24	---
		87.3		IOSA-TP5	248	46.4, 80.7	---	SFD-1	---	2.9	---	SRWA-9	---	2.18	---
BLWA-13	57.8	57.8, 1.79	---	IOSA-TP6	241	3.21	---	SFD-2	---	1.9	---	SWP-1	---	10.6, 2.01	---
BLWA-2	350	---	---	IOSA-TP7	20.8	---	---	SFD-3	10000	10000	---	SYC-1	19	6.6	---
BLWA-3	150	3	---	IOSA-TP8	8.14	---	---	SFD-4	71.8	71.8, 2.39	---	SYC-2	46	8.3	---
BLWA-4	150	540	---	MW-1	---	---	4.4, 1.8	SRWA-1	920	---	---	SYC-3	57	2.9	---
BLWA-5	270	3.2	---	MW-2	230	---	29	SRWA-10	---	16.1	2.68	SYC-4	63	51	---
BLWA-6	760	3400, 560	1.9	MW-3	190	---	25	SRWA-11	75	---	---	SYC-5	4.62	---	---
BLWA-7	340	3	---	MW-4	390	---	3.4	SRWA-13	170	389	11.6	SYC-6	22.2	---	---
BLWA-8	470	200	---	MW-5	120	---	2.1	SRWA-14	115	115	2.58	SYC-7	56	---	---

Total Lead Surface Soil Concentration EA
 (SL = 1120 mg/kg Calculated Soil Concentration Protective of Groundwater)

Total Lead Vadose Soil Concentration EA
 (SL = 1120 mg/kg Calculated Soil Concentration Protective of Groundwater)

Total Lead Saturated Soil Concentration EA
 (SL = 56.0 mg/kg Calculated Soil Concentration Protective of Groundwater)

Monitoring Well

Boring Location (Sample ID)

Test Pits

Trench Drain

MHHW - Mean Higher High Water Mark

OHWM - Ordinary High Water Mark

TOB - Top of Bank

Property line (as of November 2019)

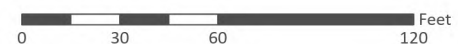
2' Contours Above 10' Elev.

2' Contours Below 10' Elev.

**Port of Friday Harbor
 Jensen and Sons Boatyard and Marina**

Data Sources:
 Crete Consulting, Inc. (2021), San Juan Surveying (2019), San Juan County (2019),
 Shannon and Wilson, Inc. (2019), Star surveying, Inc. (2022), Whatcom Environmental (2018)

Notes:
 Surface concentrations are less than 1-ft bgs.
 ND = not detected at compound detection limits
 --- = not analyzed in samples
 EA = exceedance area
 SL = screening level

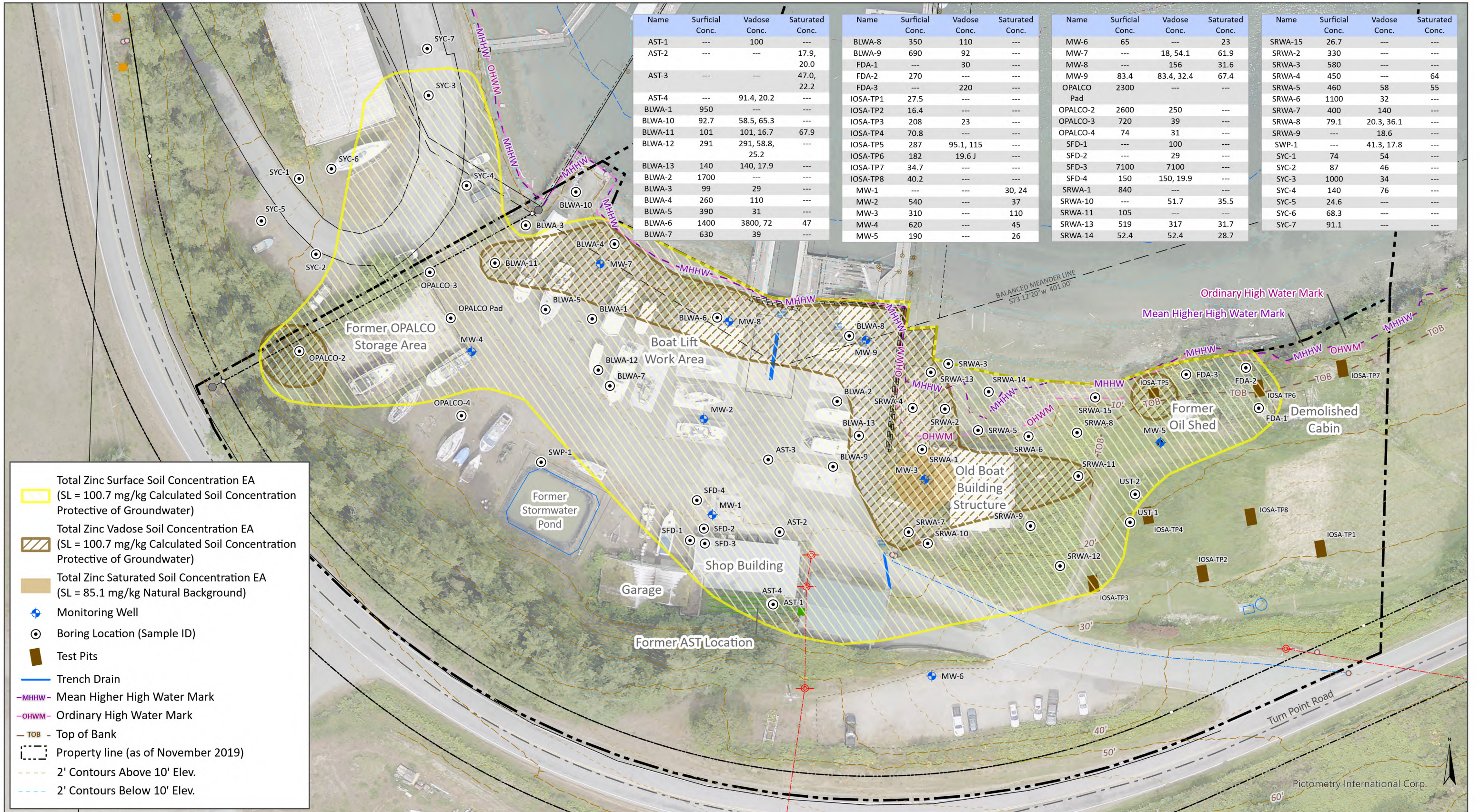


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**Remedial Investigation Work Plan
 Soil Lead Concentration Map**



Filename: /Friday Harbor/GIS/UplandGIS/RIWP_Zn_Table User: Springborn Version date: 11/24/2022



Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.	Name	Surficial Conc.	Vadose Conc.	Saturated Conc.
AST-1	---	100	---	BLWA-8	350	110	---	MW-6	65	---	23	SRWA-15	26.7	---	---
AST-2	---	---	17.9,	BLWA-9	690	92	---	MW-7	---	18, 54.1	61.9	SRWA-2	330	---	---
AST-3	---	---	20.0,	FDA-1	---	30	---	MW-8	---	156	31.6	SRWA-3	580	---	---
AST-4	---	---	22.2	FDA-2	270	---	---	MW-9	83.4	83.4, 32.4	67.4	SRWA-4	450	---	64
BLWA-1	950	---	---	FDA-3	---	220	---	OPALCO Pad	2300	---	---	SRWA-5	460	58	55
BLWA-10	92.7	58.5, 65.3	---	IOSA-TP1	27.5	---	---	OPALCO-2	2600	250	---	SRWA-6	1100	32	---
BLWA-11	101	101, 16.7	67.9	IOSA-TP2	16.4	---	---	OPALCO-3	720	39	---	SRWA-7	400	140	---
BLWA-12	291	291, 58.8,	---	IOSA-TP3	208	23	---	OPALCO-4	74	31	---	SRWA-8	79.1	20.3, 36.1	---
BLWA-13	140	140, 17.9	---	IOSA-TP4	70.8	---	---	SFD-1	---	100	---	SRWA-9	---	18.6	---
BLWA-2	1700	---	---	IOSA-TP5	287	95.1, 115	---	SFD-2	---	29	---	SWP-1	---	41.3, 17.8	---
BLWA-3	99	29	---	IOSA-TP6	182	19.6 J	---	SFD-3	7100	7100	---	SYC-1	74	54	---
BLWA-4	260	110	---	IOSA-TP7	34.7	---	---	SFD-4	150	150, 19.9	---	SYC-2	87	46	---
BLWA-5	390	31	---	IOSA-TP8	40.2	---	---	SRWA-1	840	---	---	SYC-3	1000	34	---
BLWA-6	1400	3800, 72	47	MW-1	---	---	30, 24	SRWA-10	---	51.7	35.5	SYC-4	140	76	---
BLWA-7	630	39	---	MW-2	540	---	37	SRWA-11	105	---	---	SYC-5	24.6	---	---
				MW-3	310	---	110	SRWA-13	519	317	31.7	SYC-6	68.3	---	---
				MW-4	620	---	45	SRWA-14	52.4	52.4	28.7	SYC-7	91.1	---	---
				MW-5	190	---	26								

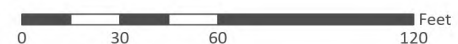
- Total Zinc Surface Soil Concentration EA (SL = 100.7 mg/kg Calculated Soil Concentration Protective of Groundwater)
- Total Zinc Vadose Soil Concentration EA (SL = 100.7 mg/kg Calculated Soil Concentration Protective of Groundwater)
- Total Zinc Saturated Soil Concentration EA (SL = 85.1 mg/kg Natural Background)
- Monitoring Well
- Boring Location (Sample ID)
- Test Pits
- Trench Drain
- MHHW - Mean Higher High Water Mark
- OHWM - Ordinary High Water Mark
- TOB - Top of Bank
- Property line (as of November 2019)
- 2' Contours Above 10' Elev.
- 2' Contours Below 10' Elev.

Notes:
 Surface concentrations are less than 1-ft bgs.
 ND = not detected at compound detection limits
 --- = not analyzed in samples
 EA = exceedance area
 SL = screening level

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**Port of Friday Harbor
 Jensen and Sons Boatyard and Marina**

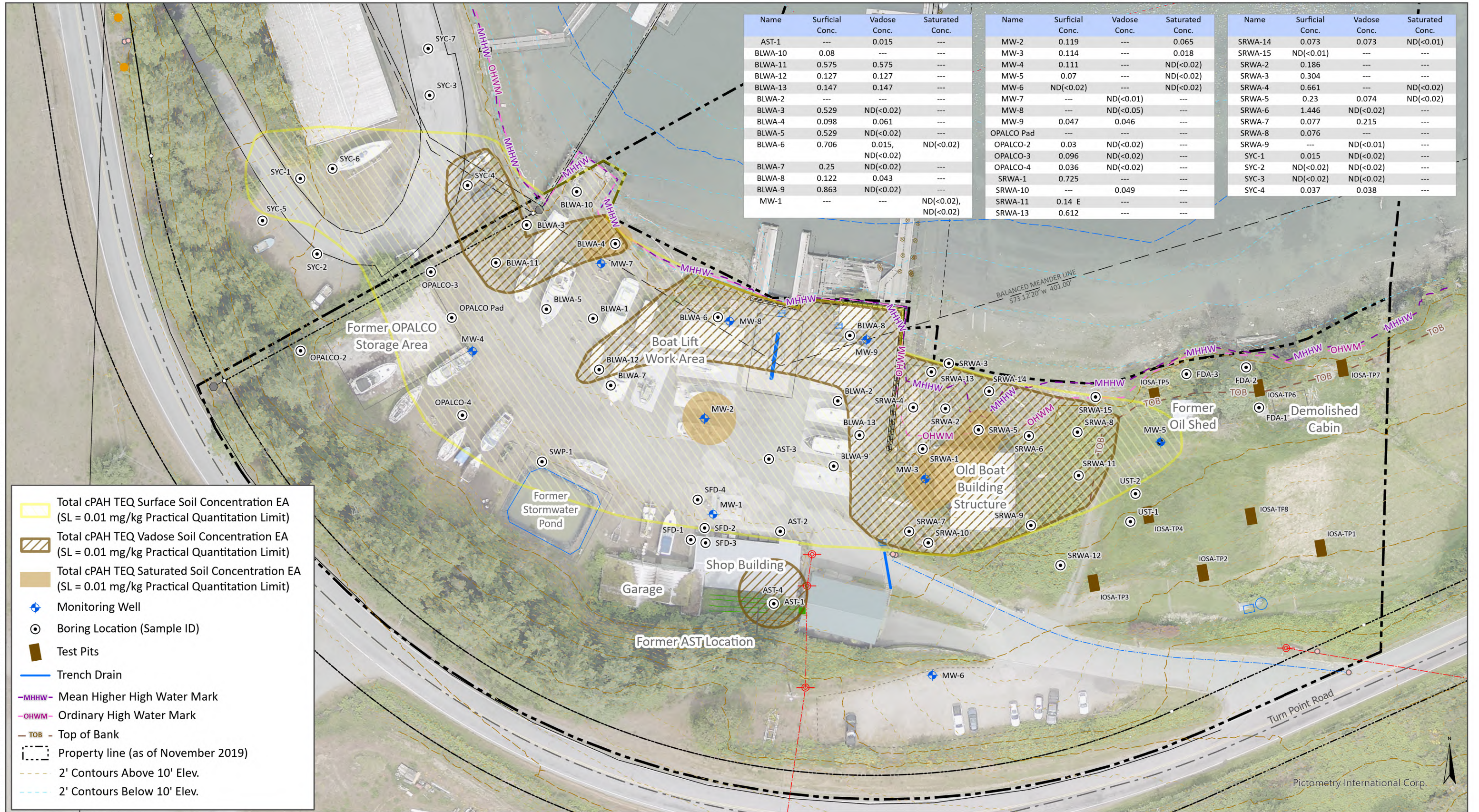
Data Sources:
 Crete Consulting, Inc. (2021), San Juan Surveying (2019), San Juan County (2019),
 Shannon and Wilson, Inc. (2019), Star surveying, Inc. (2022), Whatcom Environmental (2018)



**Remedial Investigation Work Plan
 Soil Zinc Concentration Map**



Filename: /Friday Harbor/GIS/UplandGIS/RIWP_cPAH_TEQ_Table User: Springborn Version date: 11/24/2022



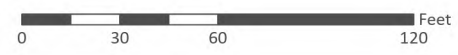
Name	Surficial Conc.	Vadose Conc.	Saturated Conc.
AST-1	---	0.015	---
BLWA-10	0.08	---	---
BLWA-11	0.575	0.575	---
BLWA-12	0.127	0.127	---
BLWA-13	0.147	0.147	---
BLWA-2	---	---	---
BLWA-3	0.529	ND(<0.02)	---
BLWA-4	0.098	0.061	---
BLWA-5	0.529	ND(<0.02)	---
BLWA-6	0.706	0.015, ND(<0.02)	ND(<0.02)
BLWA-7	0.25	ND(<0.02)	---
BLWA-8	0.122	0.043	---
BLWA-9	0.863	ND(<0.02)	---
MW-1	---	---	ND(<0.02), ND(<0.02)

Name	Surficial Conc.	Vadose Conc.	Saturated Conc.
MW-2	0.119	---	0.065
MW-3	0.114	---	0.018
MW-4	0.111	---	ND(<0.02)
MW-5	0.07	---	ND(<0.02)
MW-6	ND(<0.02)	---	ND(<0.02)
MW-7	---	ND(<0.01)	---
MW-8	---	ND(<0.05)	---
MW-9	0.047	0.046	---
OPALCO Pad	---	---	---
OPALCO-2	0.03	ND(<0.02)	---
OPALCO-3	0.096	ND(<0.02)	---
OPALCO-4	0.036	ND(<0.02)	---
SRWA-1	0.725	---	---
SRWA-10	---	0.049	---
SRWA-11	0.14 E	---	---
SRWA-13	0.612	---	---

Name	Surficial Conc.	Vadose Conc.	Saturated Conc.
SRWA-14	0.073	0.073	ND(<0.01)
SRWA-15	ND(<0.01)	---	---
SRWA-2	0.186	---	---
SRWA-3	0.304	---	---
SRWA-4	0.661	---	ND(<0.02)
SRWA-5	0.23	0.074	ND(<0.02)
SRWA-6	1.446	ND(<0.02)	---
SRWA-7	0.077	0.215	---
SRWA-8	0.076	---	---
SRWA-9	---	ND(<0.01)	---
SYC-1	0.015	ND(<0.02)	---
SYC-2	ND(<0.02)	ND(<0.02)	---
SYC-3	ND(<0.02)	ND(<0.02)	---
SYC-4	0.037	0.038	---

- Total cPAH TEQ Surface Soil Concentration EA (SL = 0.01 mg/kg Practical Quantitation Limit)
- Total cPAH TEQ Vadose Soil Concentration EA (SL = 0.01 mg/kg Practical Quantitation Limit)
- Total cPAH TEQ Saturated Soil Concentration EA (SL = 0.01 mg/kg Practical Quantitation Limit)
- Monitoring Well
- Boring Location (Sample ID)
- Test Pits
- Trench Drain
- Mean Higher High Water Mark
- Ordinary High Water Mark
- Top of Bank
- Property line (as of November 2019)
- 2' Contours Above 10' Elev.
- 2' Contours Below 10' Elev.

Notes:
 Surface concentrations are less than 1-ft bgs.
 ND = not detected at compound detection limits
 --- = not analyzed in samples
 EA = exceedance area
 SL = screening level



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**Port of Friday Harbor
 Jensen and Sons Boatyard and Marina**

Data Sources:
 Crete Consulting, Inc. (2021), San Juan Surveying (2019), San Juan County (2019),
 Shannon and Wilson, Inc. (2019), Star surveying, Inc. (2022), Whatcom Environmental (2018)

**Remedial Investigation Work Plan
 Soil cPAH TEQ Concentration Map**



Pictometry International Corp.

Table 1 - Summary of Uplands Soil Data (TPH, Metals)

Jensen's Shipyard and Marina
Port of Friday Harbor

Sample ID	Date	TPH (mg/kg)				Metals (EPA-6020/7471) (mg/kg)							
		NWTPH-Dx Diesel Range	NWTPH-Dx Oil-Range	Dx	NWTPH-Gx	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
Soil Screening Level Vadose and Surficial Soils		NC	NC	2,000	30	7.3 ^A	1.09 ^C	48.2 ^A	36.4 ^A	1120 ^C	0.209 ^B	48 ^A	100.7 ^C
Soil Screening Level Saturated Soils		NC	NC	2,000	30	7.3 ^A	1 ^B	48.2 ^A	36.4 ^A	56.0 ^C	0.1 ^B	48 ^A	85.1 ^A
Surface Rail Work Area (SRWA)													
SRWA-1 3-6in	1/24/2018	180	1,100	1,280	NA	30	0.54	29	2,400	920	13	NA	840
SRWA-2 3-6in	1/24/2018	91	220	311	NA	14	ND(<0.5)	18	1,100	1,000	6.3	NA	330
SRWA-3 0-6in	1/24/2018	3,900	940	4,840	NA	17	ND(<0.5)	21	690	90	0.54	NA	580
SRWA-4 6in	8/1/2018	79	190	269	NA	54	0.39	35	2,000	1,800	11	NA	450
SRWA-4 3.5ft	8/1/2018	ND(<25)	ND(<50)	ND	NA	7.7	ND(<0.22)	24	35	15	0.098	NA	64
SRWA-5 2-6in	8/1/2018	ND(<25)	72	72	NA	12	0.32	20	420	940	0.33	NA	460
SRWA-5 3.5 ft	8/1/2018	ND(<25)	ND(<50)	ND	NA	4.2	1.5	11	43	21	0.04	NA	58
SRWA-5 5-5' 1"	8/1/2018	ND(<25)	ND(<50)	ND	NA	5.1	ND(<0.23)	20	16	3.6	ND(<0.02)	NA	55
SRWA-6 2-6in	8/1/2018	120	640	760	NA	16	0.64	36	220	1,200	2.8	NA	1,100
SRWA-6 3ft	8/1/2018	ND(<25)	ND(<50)	ND	NA	5	ND(<0.21)	20	11	11	ND(<0.02)	NA	32
SRWA-7 2-6in	8/1/2018	170	690	860	NA	9.1	2.6	25	920	160	0.23	NA	400
SRWA-7 3ft	8/1/2018	40	230	270	NA	4.3	0.38	19	63	110	0.1	NA	140
MW-3 2-6in	8/1/2018	ND(<25)	280	280	NA	13	0.74	29	400	190	1.3	NA	310
MW-3 5.5ft	8/1/2018	ND(<25)	ND(<50)	ND	NA	5.6	ND(<0.21)	28	82	25	0.16	NA	110
SRWA-8 0-1'	7/26/2022	ND(<50)	360	360	ND(<5)	7.14	ND(<1)	10.4	87.3	49.9	0.30	NA	79.1
SRWA-8 2-3'	7/26/2022	NA	NA	NA	NA	3.62	ND(<1)	20.4	12.6	3.04	ND(<0.1)	NA	20.3
SRWA-8 4-5'	7/26/2022	NA	NA	NA	NA	3.93	ND(<1)	21.1	26.8	3.24	ND(<0.1)	NA	36.1
SRWA-9 2.5-5'	7/26/2022	ND(<50)	ND(<250)	ND	ND(<5)	2.94	ND(<1)	7.78	8.32	2.18	ND(<0.1)	NA	18.6
SRWA-10 3-5'	7/28/2022	ND(<50)	ND(<250)	ND	ND(<5)	6.30	ND(<1)	12.1	34.1	16.1	ND(<0.1)	NA	51.7
SRWA-10 5-7.5'	7/28/2022	NA	NA	NA	NA	1.71	ND(<1)	12.2	14.3	2.68	ND(<0.1)	NA	35.5
SRWA-11 0-2.5'	7/26/2022	NA	NA	NA	NA	3.24	ND(<1)	16.8	69.3	75.0	0.15	NA	105
SRWA-13 0-0.5'	7/26/2022	ND(<50)	ND(<250)	ND	ND(<5)	11.9	ND(<1)	11.7	2,140	170	1.5	NA	519
SRWA-13 0.5-1'	7/26/2022	NA	NA	NA	NA	10.6	ND(<1)	12.7	919	389	3.5	NA	31.7
SRWA-13 3-5'	7/26/2022	NA	NA	NA	NA	6.56	ND(<1)	8.71	20.8	11.6	0.30	NA	31.7
SRWA-14 0-1'	7/26/2022	ND(<50)	ND(<250)	ND	ND(<5)	2.91	ND(<1)	5.13	59.1	115	0.30	NA	52.4
SRWA-14 1-2'	7/26/2022	ND(<50)	ND(<250)	ND	ND(<5)	2.30	ND(<1)	6.96	14.3	2.58	ND(<0.1)	NA	28.7
SRWA-15 0-0.5'	7/26/2022	ND(<50)	ND(<250)	ND	ND(<5)	1.80	ND(<1)	7.68	12.5	35.1	ND(<0.1)	NA	26.7
Boat Lift Work Area (BLWA)													
BLWA-1 0-3in	1/24/2018	160	470	630	NA	12	1.3	35	6,700	700	0.81	NA	950
BLWA-2 0-3in	1/24/2018	170	900	470	NA	7.1	0.94	20	6,100	350	0.39	NA	1,700
BLWA-3 2-6in	7/30/2018	ND(<25)	ND(<50)	ND	NA	3.5	0.2	28	180	150	0.032	NA	99
BLWA-3 2ft	7/30/2018	ND(<25)	ND(<50)	ND	NA	3	ND(<0.2)	15	32	3	0.028	NA	29
BLWA-4 2-6in	7/30/2018	ND(<25)	81	81	NA	5.2	0.43	21	680	150	0.17	NA	260
BLWA-4 5ft	7/30/2018	ND(<25)	ND(<50)	ND	NA	3.9	ND(<0.19)	17	86	540	0.18	NA	110
BLWA-5 2-6in	7/30/2018	91	180	271	NA	10	0.81	29	1,100	270	0.36	NA	390
BLWA-5 2ft	7/30/2018	ND(<25)	ND(<50)	ND	NA	3.1	ND(<0.19)	15	28	3.2	0.038	NA	31
BLWA-6 2-6in	7/30/2018	95	360	355	NA	9.7	1.2	31	9,300	760	1.1	NA	1,400
BLWA-6 2ft	7/30/2018	350	710	1,060	NA	150	2.6	78	3,500	3,400	0.31	NA	3,800
BLWA-6 5ft	7/30/2018	1,400	940	2,340	NA	3.7	ND(<0.19)	18	84	560	0.11	NA	72
BLWA-6 10 ft	7/30/2018	ND(<25)	ND(<50)	ND	NA	4.6	ND(<0.19)	11	20	1.9	ND(<0.02)	NA	47
BLWA-7 2-6in	7/30/2018	ND(<25)	180	180	NA	13	1.8	30	2100	340	0.92	NA	630
BLWA-7 2ft	7/30/2018	ND(<25)	ND(<50)	ND	NA	3.7	ND(<0.19)	21	50	3	ND(<0.02)	NA	39
BLWA-7 5ft	7/30/2018	ND(<25)	ND(<50)	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
BLWA-8 2-6in	7/30/2018	ND(<25)	56	56	NA	5.1	0.48	19	1100	470	0.18	NA	350
BLWA-8 2ft	7/30/2018	ND(<25)	290	290	NA	6.2	0.23	23	170	200	0.12	NA	110
BLWA-8 5ft	7/30/2018	ND(<25)	98	98	NA	NA	NA	NA	NA	NA	NA	NA	NA
BLWA-9 2-6in	7/30/2018	61	160	221	NA	5.7	0.96	25	2900	310	1.5	NA	690
BLWA-9 2ft	7/30/2018	ND(<25)	ND(<50)	ND	NA	3.3	ND(<0.19)	18	49	11	0.048	NA	92
BLWA-9 5ft	7/30/2018	ND(<25)	ND(<50)	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2 6in	7/30/2018	32	160	192	NA	7.2	2.3	27	2,100	230	0.64	NA	540
MW-2 7ft	7/30/2018	ND(<25)	ND(<50)	ND	NA	6.2	0.67	12	24	29	0.024	NA	37
BLWA-10 0-1'	7/28/2022	NA	NA	NA	NA	2.70	ND(<1)	11.4	350	73.3	ND(<0.1)	NA	92.7
BLWA-10 3-5'	7/28/2022	ND(<50)	ND(<250)	ND	7.0	ND(<5)	ND(<1)	16.3	54.2	98.1	ND(<0.1)	NA	58.5
BLWA-10 5-6'	7/28/2022	NA	NA	NA	NA	3.41	ND(<1)	8.90	112	94.1	ND(<0.1)	NA	65.3
BLWA-11 0-2.5'	7/25/2022	ND(<50)	ND(<250)	ND	ND(<5)	2.83	ND(<1)	10.8	125	42.3	0.16	NA	101
BLWA-11 2.5-5'	7/25/2022	NA	NA	NA	NA	2.05	ND(<1)	6.23	18.1	3.64	ND(<0.1)	8.59	16.7
BLWA-11 5-7'	7/25/2022	NA	NA	NA	NA	3.99	ND(<1)	15.8	150	181	0.11	NA	67.9
BLWA-12 0-2'	7/25/2022	ND(<50)	ND(<250)	ND	ND(<5)	6.84	ND(<1)	17.0	629	147	0.80	NA	291
BLWA-12 3-5'	7/25/2022	NA	NA	NA	NA	3.66	ND(<1)	14.4	82.0	31.4	0.20	NA	58.8
BLWA-12 5-7'	7/25/2022	NA	NA	NA	NA	2.32	ND(<1)	15.1	36.8	8.73	ND(<0.1)	10.3	25.2
BLWA-13 0-2'	7/27/2022	ND(<50)	ND(<250)	ND	ND(<5)	3.48	ND(<1)	9.97	295	57.8	0.28	NA	140
BLWA-13 3-5'	7/27/2022	NA	NA	NA	NA	1.85	ND(<1)	8.82	20.9	1.79	ND(<0.1)	NA	17.9
MW-7 2-3'	7/27/2022	NA	NA	NA	NA	1.59	ND(<1)	8.50	15.9	1.84	ND(<0.1)	NA	18.0
MW-7 3-5'	7/27/2022	ND(<50)	ND(<250)	ND	ND(<5)	1.98	ND(<1)	8.82	18.5	5.45	ND(<0.1)	NA	54.1
MW-7 10-11'	7/27/2022	NA	NA	NA	NA	4.01	ND(<1)	10.3	39.3	70.8	ND(<0.1)	13.7	61.9
MW-8 4-5'	7/28/2022	61 x	440	440	ND(<5)	2.08	ND(<1)	10.4	58.3	64.9	0.23	NA	156
MW-8 5-7'	7/28/2022	NA	NA	NA	NA	2.44	ND(<1)	9.43	43.6	2.47	ND(<0.1)	NA	31.6
MW-9 0-2.5'	7/27/2022	ND(<50)	ND(<250)	ND	ND(<5)	2.59	ND(<1)	8.69	173	35.0	0.12	NA	83.4
MW-9 2.5-5'	7/27/2022	NA	NA	NA	NA	1.21	ND(<1)	4.60	24.1	5.17	ND(<0.1)	NA	32.4
MW-9 5-7'	7/27/2022	NA	NA	NA	NA	2.29	ND(<1)	7.63	80.7	165	0.22	7.33	67.4
Former Dumping Area (FDA)													
FDA-1 2ft	1/24/2018	ND(<25)	ND(<50)	ND	NA	3.5	ND(<0.5)	41	16	6.4	0.028	NA	30
FDA-2 0-6in	1/24/2018	ND(<25)	ND(<50)	ND	NA	8.7	ND(<0.5)	21	79	52	ND(<0.02)	NA	270
FDA-3 2.5ft	1/24/2018	ND(<25)	420	420	NA	3.5	ND(<0.5)	22	29	190	0.16	NA	220
MW-5 2-6in	7/31/2018	ND(<25)	96	96	NA	4.9	0.7	39	140	120	0.1	NA	190
MW-5 10ft	7/31/2018	ND(<25)	ND(<50)	ND	NA	2.4	ND(<0.22)	18	14	2.1	ND(<0.02)	NA	26
Former Underground Storage Tank (UST)													
UST-1 5ft	1/24/2018	ND(<25)	ND(<50)	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
UST-2 3ft	1/24/2018	ND(<25)	ND(<50)	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Former Above Ground Storage Tank (AST)													
AST-1 2ft	7/30/2018	8,000	10,000	18,000	NA	3.3	ND(<0.2)	17	40	27	0.037	NA	100
AST-2 7.5-10'	7/26/2022	ND(<50)	ND(<250)	ND	ND(<5)	2.21	ND(<1)	9.49	18.1	2.72	ND(<0.1)	NA	17.9
AST-2 10-12'	7/26/2022	NA	NA	NA	NA	2.30	ND(<1)	10.8	18.8	3.79	ND(<0.1)	NA	20.0
AST-3 5-7'													

Former Dumping Area (FDA)											
FDA-1 2ft	1/24/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FDA-2 0-6in	1/24/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FDA-3 2.5ft	1/24/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5 2-6in	7/31/2018	0.070	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5 10ft	7/31/2018	ND(<0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Former Underground Storage Tank (UST)											
UST-1 5ft	1/24/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
UST-2 3ft	1/24/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Former Above Ground Storage Tank (AST)											
AST-1 2ft	7/30/2018	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA
AST-2 7.5-10'	7/26/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AST-2 10-12'	7/26/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AST-3 5-7'	7/28/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AST-3 8-10'	7/28/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AST-4 1-2'	7/29/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AST-4 4-5'	7/29/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Shop Floor Drain And Outfall											
SFD-1 3.5ft	1/24/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SFD-2 3.5ft	1/24/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SFD-3 0-1.5'	1/24/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1 12ft	7/30/2018	ND(<0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1 15ft	7/30/2018	ND(<0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SFD-4 0-1.5'	7/25/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SFD-4 1.5-3'	7/25/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Storm Water Pond											
SWP-1 1-3'	7/25/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWP-1 3-5'	7/25/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Former Orcas Power and Light Company (OPALCO) Pad											
OPALCO Pad 1-4in	1/24/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OPALCO-2 2-6in	7/31/2018	0.030	NA	NA	NA	NA	NA	NA	NA	NA	NA
OPALCO-2 5ft	7/31/2018	ND(<0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA
OPALCO-3 2-6in	7/31/2018	0.096	NA	NA	NA	NA	NA	NA	NA	NA	NA
OPALCO-3 4ft	7/31/2018	ND(<0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA
OPALCO-4 2-6in	7/31/2018	0.036	NA	NA	NA	NA	NA	NA	NA	NA	NA
OPALCO-4 5ft	7/31/2018	ND(<0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 2-6in	7/31/2018	0.111	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 11ft	7/31/2018	ND(<0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ship Yard Cove (SYC)											
SYC-1 2-6in	7/31/2018	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA
SYC-1 2ft	7/31/2018	ND(<0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SYC-2 2-6in	7/31/2018	ND(<0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SYC-2 2ft	7/31/2018	ND(<0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SYC-3 2-6in	7/31/2018	ND(<0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SYC-3 3ft	7/31/2018	ND(<0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SYC-4 2-6in	7/31/2018	0.037	NA	NA	NA	NA	NA	NA	NA	NA	NA
SYC-4 2ft	7/31/2018	0.038	NA	NA	NA	NA	NA	NA	NA	NA	NA
SYC-5 0-1'	7/27/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SYC-6 0-1'	7/27/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SYC-7 0-1'	7/27/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Misc. Upgradient Area											
MW-6 2-6in	7/31/2018	ND(<0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6 40ft	7/31/2018	ND(<0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Eastern Uplands Undeveloped Area - Test Pits											
IOSA-TP1-1-1020	10/19/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IOSA-TP2-1-1020	10/19/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IOSA-TP3-1-1020	10/19/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IOSA-TP3-3-1020	10/19/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IOSA-TP4-1-1020	10/19/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IOSA-TP5-1-1020	10/19/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IOSA-TP5-3-1020	10/19/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IOSA-TP5-5-1020	10/19/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IOSA-TP6-1-1020	10/19/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IOSA-TP6-3-1020	10/19/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IOSA-TP7-1-1020	10/19/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IOSA-TP8-1-1020	10/19/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

- A - Screening level is natural background.
- B - Screening level is practical quantitation limit (PQL).
- C - Screening level is calculated soil protective of groundwater.
- D - Lab sample was collected from a non-recommended sample container.
- E - Method 8270E sample was analyzed outside of the method holding times.

ND - indicates analyte was not detected at level above reporting limit (shown in parentheses)

NA - indicates sample was not analyzed for the constituent

BOLD - indicates that the concentration in the sample exceeds the respective detection limit (quantified value)

Pink shaded cell indicates that the concentration in the sample exceeds the above listed applicable saturated soil screening level.

Tan shaded cell indicates that the concentration in the sample exceeds the above listed applicable surface or vadose soil screening level.

Sediment sample

Table 3 - Summary of Groundwater Data
Jensen's Shipyard and Marina
Port of Friday Harbor

Well ID	Screening Level Source	Lowest Screening Level	MW-1		MW-2 ^a			MW-3			MW-4			MW-5			MW-6			MW-7 ^f			MW-8		MW-9 ^g		SFD-4	SWP-1	BLWA-11	BLWA-13	AST-2	DUP-220726-2 (AST-2)	AST-3	SRWA-9	SRWA-10			
			Date	2/19/20	9/8/22	8/28/18	2/19/20	9/6/22	8/28/18	2/19/20	9/7/22	8/28/18	2/19/20	9/8/22	8/29/18	2/19/20	9/7/22	8/29/18	2/19/20	9/6/22	9/7/22		9/8/22		9/6/22	7/25/22	7/25/22	7/25/22	7/27/22	7/26/22	7/26/22	7/28/22	7/26/22	1638	1638			
			Metals Method(s)	60208	60208/1631E	200.8/245.1	60208	1638/1631E	60208/1631E	200.8/245.1	60208	1638/1631E	60208/1631E	200.8/245.1	60208	1638/1631E	60208/1631E	200.8/245.1	60208	1638/1631E	60208/1631E	1638/1631E	60208/1631E	1638/1631E	60208/1631E	1638	1638	1638	1638	1638	1638	1638	60208, 1631E	1638	1638			
Water Quality Parameters																																						
Specific Conductivity		mS/cm	0.856	0.364	5.854	8.158	2.634	2.634	4.839	6.611	13.176	13.176	0.351	0.885	0.287	0.513	0.422	0.402	0.513	0.352	0.153	34.935	34.935	34.705	34.705	37.987	37.987	NA	NA	NA	NA	0.550	0.550	1.952	NA	NA		
Turbidity		NTU	46.07	6.14	2.9	3.09	1.70	1.70	2.8	31.66	6.17	6.17	4.7	12.17	1.44	48.0	22.34	28.0	381	3.76	12.8	5.01	5.01	2.07	2.07	2.12	2.12	NA	NA	NA	NA	95.52	95.52	143	NA	NA		
Total and Dissolved Metals (EPA 60208, 1631E, 1638, EPA 200.8, 245.1)																																						
Arsenic, Total	8.0 ^h	Natural Background	ug/L	10.1	12.6	NA	7.21 J / 7.73 J	0.382 J	4.92	NA	9.56	1.43	21.0	NA	2.97	5.72	NA	1.07	1 U	NA	1 U	1 U	1.27 / 1.11	49.5 / 46.6	1.49	43.4	1.79	53.6	39.6	52.7	12.3	6.51	6.37	NA	5.22	5 U	39.7	4.28
Cadmium, Total	7.9	Aquatic Life - CWA	ug/L	1 U	1 U	NA	1 U / 1 U	0.061 U	1 U	NA	1 U	1.10	10 U	NA	1 U	1 U	NA	1 U	1 U	NA	1 U	1 U	1.24 / 1.26	10 U / 10 U	2.28	10 U	0.485	10 U	1.79	0.781	0.477	1.02	0.195	NA	0.378	1 U	1.55	0.186
Chromium, Total	50	Aquatic Life - CWA/173	ug/L	1.52	10 U	NA	5.74 / 5.06	5.06 J	10 U	NA	73.8	53.2	56.3	NA	4.43	10 U	NA	1.48	1 U	NA	1 U	10 U	188 / 185	176 / 180	64.4	65.4	1.72 U	10 U	67.8	357	28.4	13.5 J	13.5	NA	24.1	2.85	631	21.9
Copper, Total	3.1	Aquatic Life - CWA/173	ug/L	3.74	7.33	NA	3.96 / 3.05	1.56	5 U	NA	29.4	15.5	20.0	NA	10.9	11.5	NA	5.87	5 U	NA	2.5 U	5 U	11.7 / 11.9	50 U / 50 U	44.2	50 U	15.1	50 U	520	1110	238	171	74.5	NA	139	5.37	617	63.7
Lead, Total	5.6	Aquatic Life - CWA	ug/L	1 U	1 U	NA	1 U / 1 U	0.156	1 U	NA	9.42	5.89	10 U	NA	4.02	1 U	NA	1 U	1 U	NA	1 U	1 U	0.933 / 0.829	10 U / 10 U	0.466	10 U	1.59	10 U	115	89.2	50.9	70.6	12.9	NA	27.1	1 U	324	26.0
Mercury, Total	0.2	PQL	ug/L	0.2 U	0.2 U	NA	0.2 U / 0.2 U	1.65	0.2 U	NA	0.2 U	25.4	0.2 U	NA	0.2 U	0.2 U	NA	0.2 U	0.2 U	NA	0.2 U	0.2 U	114 / 125	0.2 U / 0.2 U	10.2	0.2 U	155	0.2 U	376	253	22.7	155	78.3	NA	28.2	0.022	2880	53.5
Nickel	8.2	Aquatic Life - CWA/173	ug/L	1.57	NA	NA	4.23 / 4.47	NA	NA	NA	3.83	NA	NA	NA	10.4	NA	NA	3.52	NA	NA	1.99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc, Total	81	Aquatic Life - CWA/173	ug/L	5 U	5 U	NA	5 U / 5 U	7.07 U	5 U	NA	53.9	250	135	NA	11.1	5.41	NA	5.85	5 U	NA	5 U	5 U	488 / 395	323 / 323	233	196	137	114	199	513	134	502	12.3 J	NA	64.3	5 U	719	76.4
Arsenic, Dissolved	8.0 ^h	Natural Background	ug/L	9.56	11.1	1 U	7.63 J / 8.68 J	0.308 J	3.76	2.3	7.81 J	0.680 J	16.8	1.1	2.06	3.03	1.2	1 U	1 U	1 U	1 U	1.18 / 0.895	47.0 / 45.8	1.54	46.7	1.58	53.6	11.5	0.241 J	4.25	2.88	2.28	NA	0.694 J	NA	0.366 J	0.237 J	
Cadmium, Dissolved	7.9	Aquatic Life - CWA	ug/L	1 U	1 U	1 U	1 U / 1 U	0.061 U	1 U	1 U	1 U	1.06	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.25 / 1.27	10 U / 10 U	2.30	10 U	0.438	10 U	0.061 U	0.061 U	0.247 J	0.811	0.061 U	NA	0.061 U	NA	0.061 U	0.061 U
Chromium, Dissolved	50	Aquatic Life - CWA/173	ug/L	1 U	10 U	2 U	1.83 J / 2.17	3.37 J	5.25	4.9/5.0	2.56	3.82 J	3.72	2 U	1.88	10 U	2 U	1 U	1 U	2 U	1 U	1.30	119 / 120	105 / 109	48.5	46.7	1.72 U	20.1	1.72 U	4.29 U	4.29 U	1.72 U	1.72 U	NA	5.03 J	NA	1.72 U	1.72 U
Copper, Dissolved	3.1	Aquatic Life - CWA/173	ug/L	2.5 U	5 U	2 U	2.5 U / 2.5 U	1.03	5 U	3.2	21.6	7.73	6.08	3.2	2.65	5 U	2 U	3.07	5 U	2 U	2.5 U	5 U	11 / 10.6	50 U / 50 U	57.1	50 U	14.5	100 U	8.46	1.91	2.63	76.9	0.698 J	NA	2.03	NA	4.68	3.47
Lead, Dissolved	5.6	Aquatic Life - CWA	ug/L	1 U	1 U	1 U	1 U / 1 U	0.095 J	1 U	1 U	1.71	0.193	10 U	1 U	1 U	1 U	1 U	1.67	1 U	1 U	1 U	1 U	0.359 / 0.298	10 U / 10 U	0.434	10 U	1.28	10 U	0.376	0.040 U	0.102 J	24.5	0.262	NA	0.98	NA	0.108 J	0.087 J
Mercury, Dissolved	0.2	PQL	ug/L	1 U	NA	2 U	0.2 U / 0.2 U	NA	NA	2 U	0.2 U	NA	2 U	0.2 U	NA	2 U	0.2 U	NA	2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel, Dissolved	8.2	Aquatic Life - CWA/173	ug/L	0.2 U	0.2 U	2 U	4.38 J / 4.60	1.20	0.2 U	NA	2.68	6.07	0.2 U	NA	7.05	0.2 U	NA	2.61	0.2 U	NA	2.04	0.2 U	18 / 19.2	0.2 U / 0.2 U	8.78	0.2 U	138	0.2 U	0.68	0.63	60.0	0.32 J	NA	0.586	NA	2.65	2.69	
Zinc, Dissolved	81	Aquatic Life - CWA/173	ug/L	5 U	5 U	2.5 U	5 U / 5 U	7.07 U	5 U	9.8	47.8	239	100	3	5 U	5 U	2.5 U	5 U	5 U	2.5 U	5 U	5 U	409 / 388	310 / 316	242	190	137	131	7.48 J	7.07 U	21.2 J	433	7.07 U	NA	7.07 U	NA	7.07 U	8.89 J
Total Petroleum Hydrocarbons (NWPHT-Dx) and BTEX (8021 and 8260)																																						
NWPHT-Dx Gasoline Range	800	Method A, benzene present	ug/L	NA	100 U	200	NA	100 U	50 U	NA	NA	50 U	NA	NA	50 U	NA	NA	50 U	NA	NA	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	290	290 x	100 U	100 U	NA	NA	
NWPHT-Dx Diesel Range	See Total	Method A	ug/L	160 x	77 x	210	110 x / 120 x	220 x	130 U	50 U	NA	130 U	50 U	NA	130 U	50 U	NA	130 U	50 U	NA	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
NWPHT-Dx Diesel Range with SGC	See Total	Method A	ug/L	50 U	NA	NA	50 U / 50 U	NA	NA	50 U	NA	NA	50 U	NA	NA	50 U	NA	NA	50 U	NA	NA	50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NWPHT-Dx Oil Range	See Total	Method A	ug/L	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
NWPHT-Dx Oil Range with SGC	See Total	Method A	ug/L	250 U	NA	NA	250 U / 250 U	NA	NA	250 U	NA	NA	250 U	NA	NA	250 U	NA	NA	250 U	NA	NA	250 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NWPHT-Dx	500	Method A	ug/L	160	77	210	110 / 120	220	250 U	250 U	NA	250 U	250 U	NA	250 U	250 U	NA	250 U	250 U	NA	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
NWPHT-Dx with SGC	500	Method A	ug/L	250 U	NA	NA	250 U / 250 U	NA	NA	250 U	NA	NA	250 U	NA	NA	250 U	NA	NA	250 U	NA	NA	250 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8021 Benzene	1.5	SW-HH-173	ug/L	0.35 U	NA	1 U	0.35 U	NA	1 U	0.35 U	NA	1 U	0.35 U	NA	1 U	0.35 U	NA	1 U	0.35 U	NA	1 U	0.35 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
EPA 8021 Toluene	130	SW-HH-173	ug/L	1 U	NA	1 U	1 U	NA	1 U	1 U	NA	1 U	1 U	NA	1 U	1 U	NA	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
EPA 8021 Ethylbenzene	31	SW-HH-40CFR	ug/L	1 U	NA	1 U	1 U	NA	1 U	1 U	NA	1 U	1 U	NA	1 U	1 U	NA	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
EPA 8021 Xylenes	320	Protection of Indoor Air	ug/L	2 U	NA	3 U	2 U	NA	3 U	2 U	NA	3 U	2 U	NA	3 U	2 U	NA	3 U	2 U	NA	3 U	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
CPAH Semi-Volatile Organic Compounds (EPA 8270D, 8270 SIM)																																						
Naphthalene ⁹	8.9	Protective of Indoor Air	ug/L	1 U	NA	0.02 U	1 U	NA	0.02 U	1 U	NA	0.02 U	1 U	NA	0.02 U	1 U	NA	0.02 U	1 U	NA	0.02 U	1 U	NA	0.02 U	1 U	NA	0.02 U	1 U	NA	0.02 U	1 U	NA	0.02 U	1 U	NA	0.02 U	1 U	
Benzo(a)pyrene	---	see cPAH TEQ	ug/L	NA	NA	0.02 U	NA	NA	0.02 U	NA	NA	0.02 U	NA	NA	0.02 U	NA	NA</																					