



Explanation
 Total Petroleum Hydrocarbon Concentrations in Soil
 (Highest ratio of reported analyte concentrations to screening levels at each sample location determines symbol color)

- For results with PQLs that were less than or equal to the screening levels, the analytes either were not detected or were detected at concentrations below the screening levels.
- Indicates analytes were detected at concentrations greater than the screening levels but less than 10 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 10 times the screening levels but less than 100 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 100 times the screening levels.

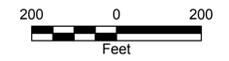
- Shallow Sample (0 to 2 feet)
- Deep Sample (> 2 feet)

- Indicates no sample was analyzed from the sample interval, or no analytes were detected above PQLs but the PQLs were greater than the screening levels.
- Monitoring Well Locations
- ◆ Former Monitoring Well
- Proposed Pipe Contents Sample
- Proposed Groundwater Grab Sample
- ⊗ Proposed Soil Boring
- ⊕ Proposed Test Pit
- △ Proposed Surface Water Sample
- ⊕ Proposed Monitoring Well

- Interim Action Areas**
- Finishing Room
 - Fuel Tank No. 2
 - Hog Fuel Pile
 - Wood Mill & Fuel Tank No.1

Analyte	Depth Description	Units	Screening Level	Screening Level Basis	Number of Locations Sampled	Number of Locations w/ Exceedances	Minimum Exceedance	Maximum Exceedance
Diesel-range TPH	Surface Sample (0 to 2 feet)	mg/kg	200	3	28	6	220	8200
Diesel-range TPH	Subsurface Sample (>2 feet)	mg/kg	200	3	122	16	240	39000
Fuel oil-range TPH	Subsurface Sample (>2 feet)	mg/kg	200	3	56	3	240	2000
Gasoline-range TPH	Subsurface Sample (>2 feet)	mg/kg	30	4	8	1	39	39
Heavy oil-range TPH	Surface Sample (0 to 2 feet)	mg/kg	200	3	41	15	200	28000
Heavy oil-range TPH	Subsurface Sample (>2 feet)	mg/kg	200	3	156	47	204	67000

Screening Level Basis Footnotes:
 1 - Protection of Groundwater as Public Surface Water
 2 - Protection of Groundwater as Public Surface Water
 3 - Protection of Groundwater as Public Surface Water
 4 - Protection of Groundwater as Public Surface Water
 5 - Protection of Human Health - Direct Contact



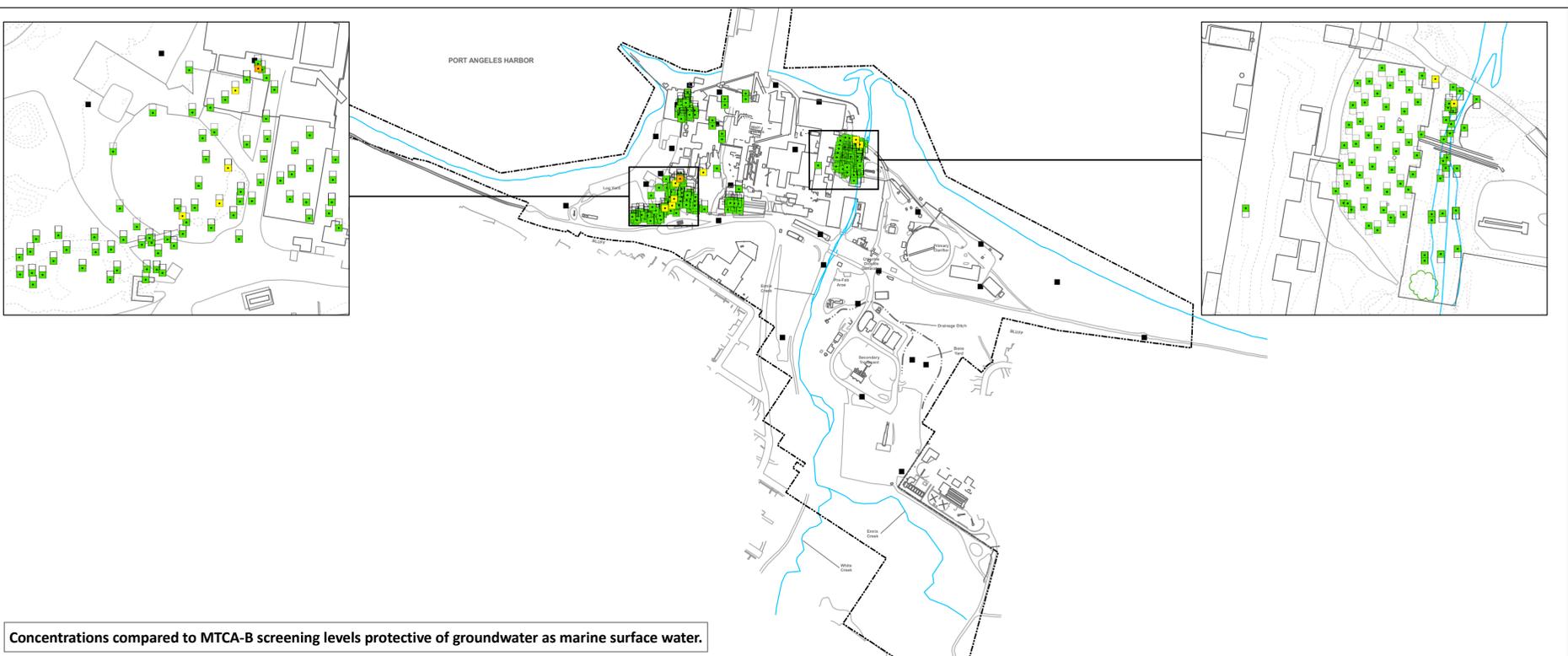
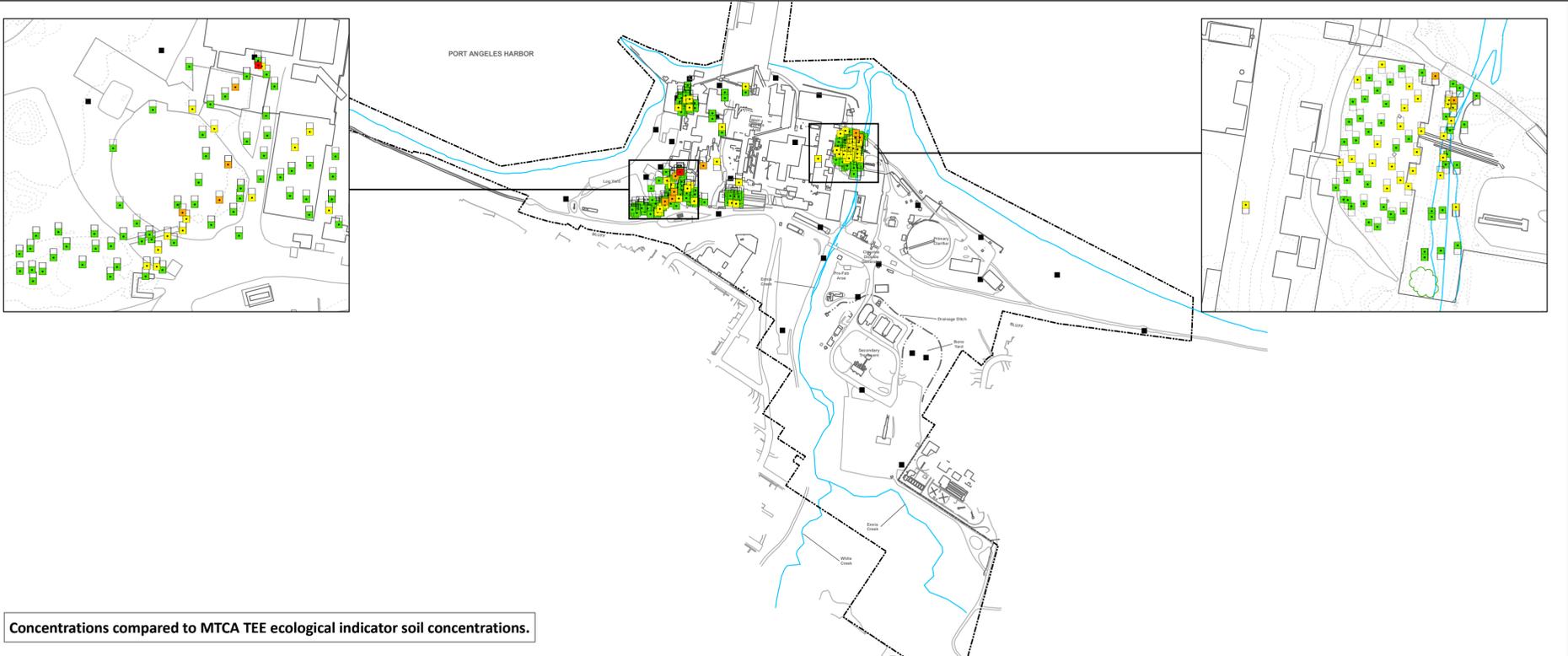
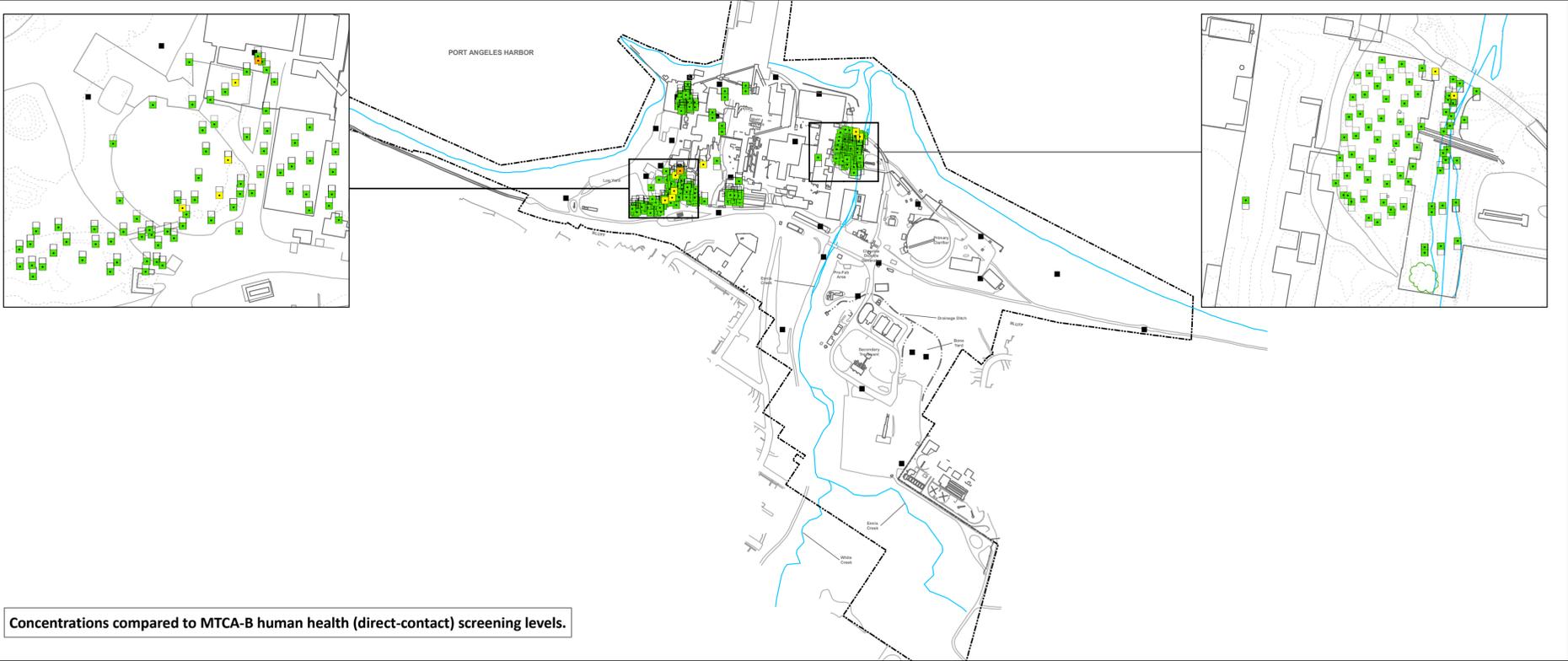
Total Petroleum Hydrocarbon Concentrations in Soil

Port Angeles Rayonier Mill Study Area
 Port Angeles, Washington

GEOENGINEERS

Figure 13A

Notes:
 1. Sampling locations that had only non-detect results for which the PQLs were greater than the respective screening levels are not displayed on this figure.
 2. The statistical summary table includes data from sampling locations that were subsequently excavated during interim actions. Locations excavated during interim actions are not shown on the map.
 3. The locations of all features shown are approximate.
 4. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.



Explanation
 Total Petroleum Hydrocarbon Concentrations in Soil
 (Highest ratio of reported analyte concentrations to screening levels at each sample location determines symbol color)

- Monitoring Well Locations
- Upland Study Area
- For results with PQLs that were less than or equal to the screening levels, the analytes either were not detected or were detected at concentrations below the screening levels.
- Indicates analytes were detected at concentrations greater than the screening levels but less than 10 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 10 times the screening levels but less than 100 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 100 times the screening levels.
- Indicates no sample was analyzed from the sample interval, or no analytes were detected above PQLs but the PQLs were greater than the screening levels.

Shallow Sample (0 to 2 feet)
 Deep Sample (> 2 feet)

Notes:
 1. Sampling locations that had only non-detect results for which the PQLs were greater than the respective screening levels are not displayed on this figure.
 2. The locations of all features shown are approximate.
 3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.



Total Petroleum Hydrocarbon Concentrations in Soil by Exposure Pathway
 Port Angeles Rayonier Mill Study Area
 Port Angeles, Washington



Figure 13B

Office: SEA Path: \SEA\projects\010137015\GIS\013701503_F13B_TPH_SL_Comparison.mxd Map Revised: July 19, 2010 TOK:CRG

Map Revised: July 20, 2010 TCK/CRC
 Path: \\Sealprojects\0137015\GIS\013701503_F14_PCB_Concentration_Soil_detects.mxd
 Office: TAC

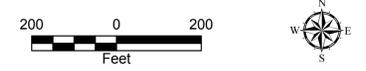
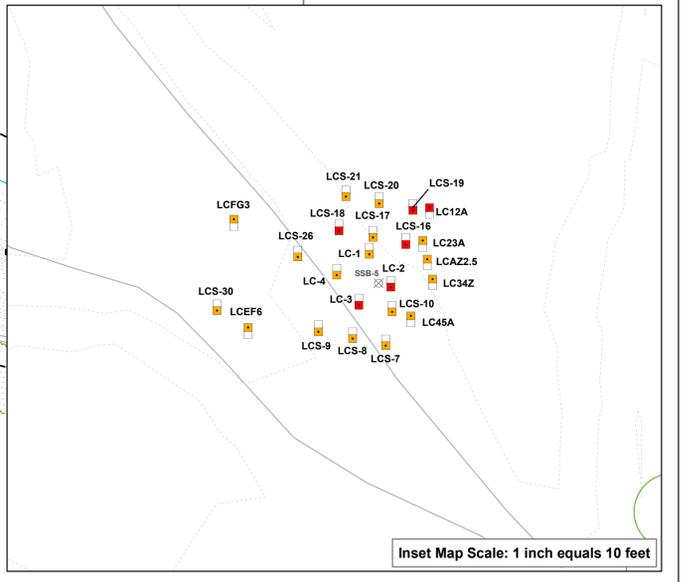
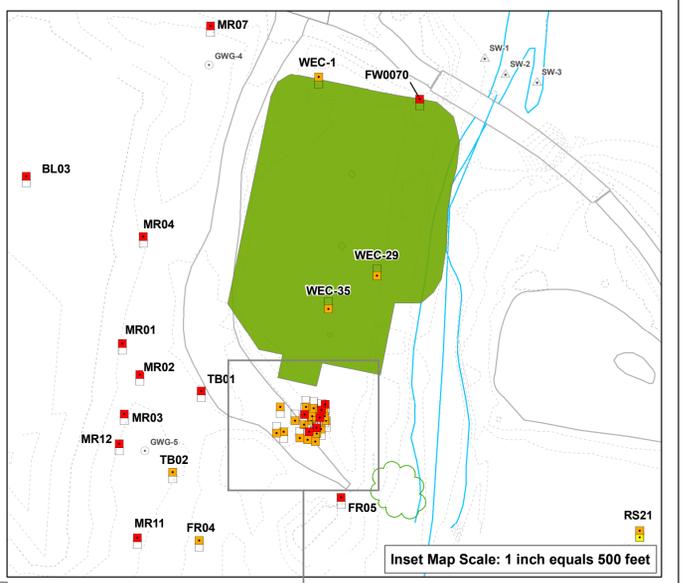
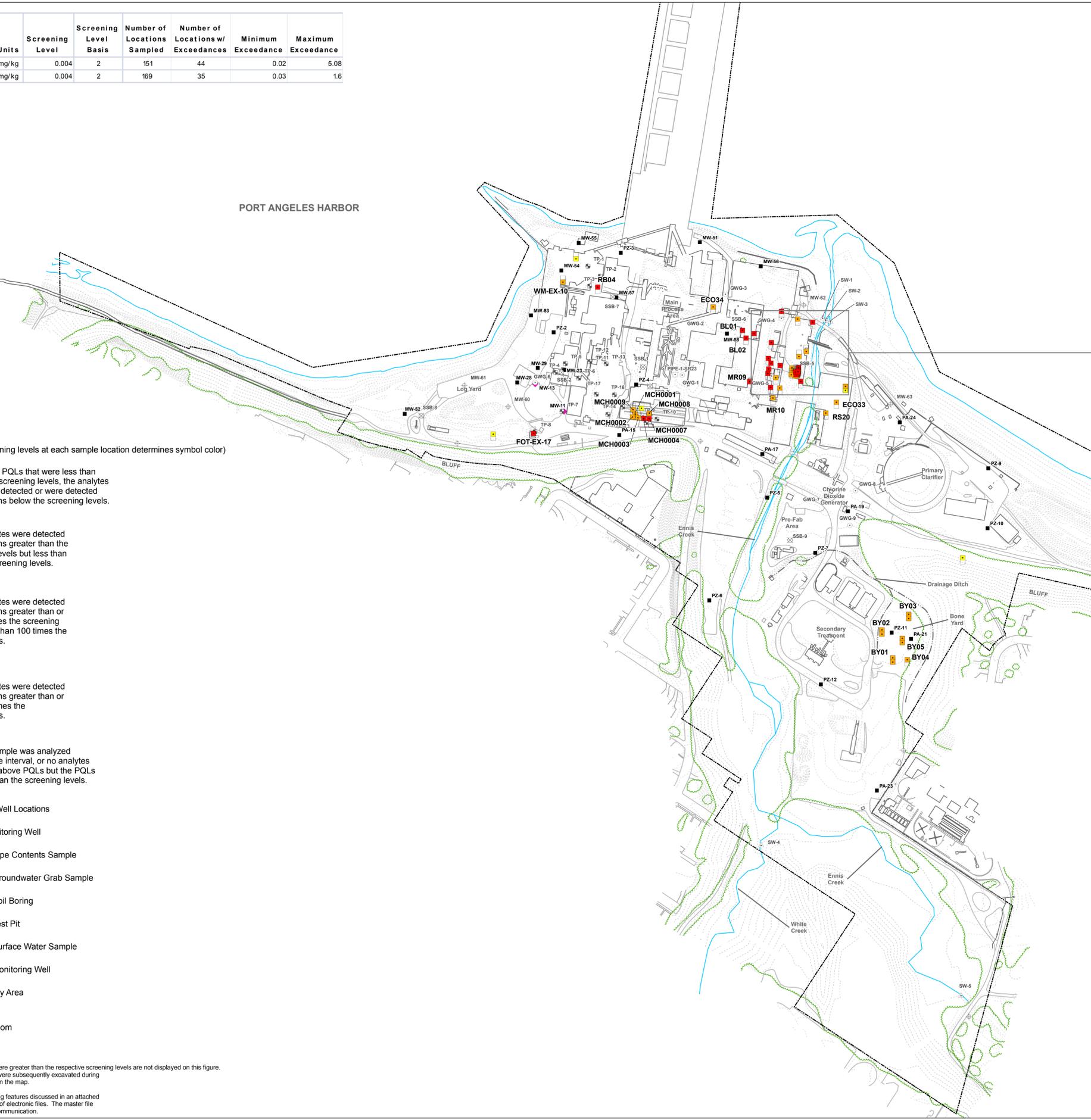
Analyte	Depth Description	Units	Screening Level	Screening Level Basis	Number of Locations Sampled	Number of Locations w/ Exceedances	Minimum Exceedance	Maximum Exceedance
Total PCBs (sum of Aroclors)	Surface Sample (0 to 2 feet)	mg/kg	0.004	2	151	44	0.02	5.08
Total PCBs (sum of Aroclors)	Subsurface Sample (>2 feet)	mg/kg	0.004	2	169	35	0.03	1.6

Screening Level Basis Factors:
 1 = Protection of Aquatic Wildlife
 2 = Protection of Groundwater as Below Surface Water
 3 = Protection of Terrestrial Ecological Resources
 4 = Protection of Human Health - Direct Contact

Explanation
 Total Polychlorinated Biphenyl Concentrations in Soil
 (Highest ratio of reported analyte concentrations to screening levels at each sample location determines symbol color)

- For results with PQLs that were less than or equal to the screening levels, the analytes either were not detected or were detected at concentrations below the screening levels.
- Indicates analytes were detected at concentrations greater than the the screening levels but less than 10 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 10 times the screening levels but less than 100 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 100 times the screening levels.
- Indicates no sample was analyzed from the sample interval, or no analytes were detected above PQLs but the PQLs were greater than the screening levels.
- Monitoring Well Locations
- ◆ Former Monitoring Well
- Proposed Pipe Contents Sample
- Proposed Groundwater Grab Sample
- Proposed Soil Boring
- ✱ Proposed Test Pit
- ▲ Proposed Surface Water Sample
- + Proposed Monitoring Well
- Upland Study Area
- Interim Action Areas**
- Finishing Room

Notes:
 1. Sampling locations that had only non-detect results for which the PQLs were greater than the respective screening levels are not displayed on this figure.
 2. The statistical summary table includes data from sampling locations that were subsequently excavated during interim actions. Locations excavated during interim actions are not shown on the map.
 3. The locations of all features shown are approximate.
 4. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

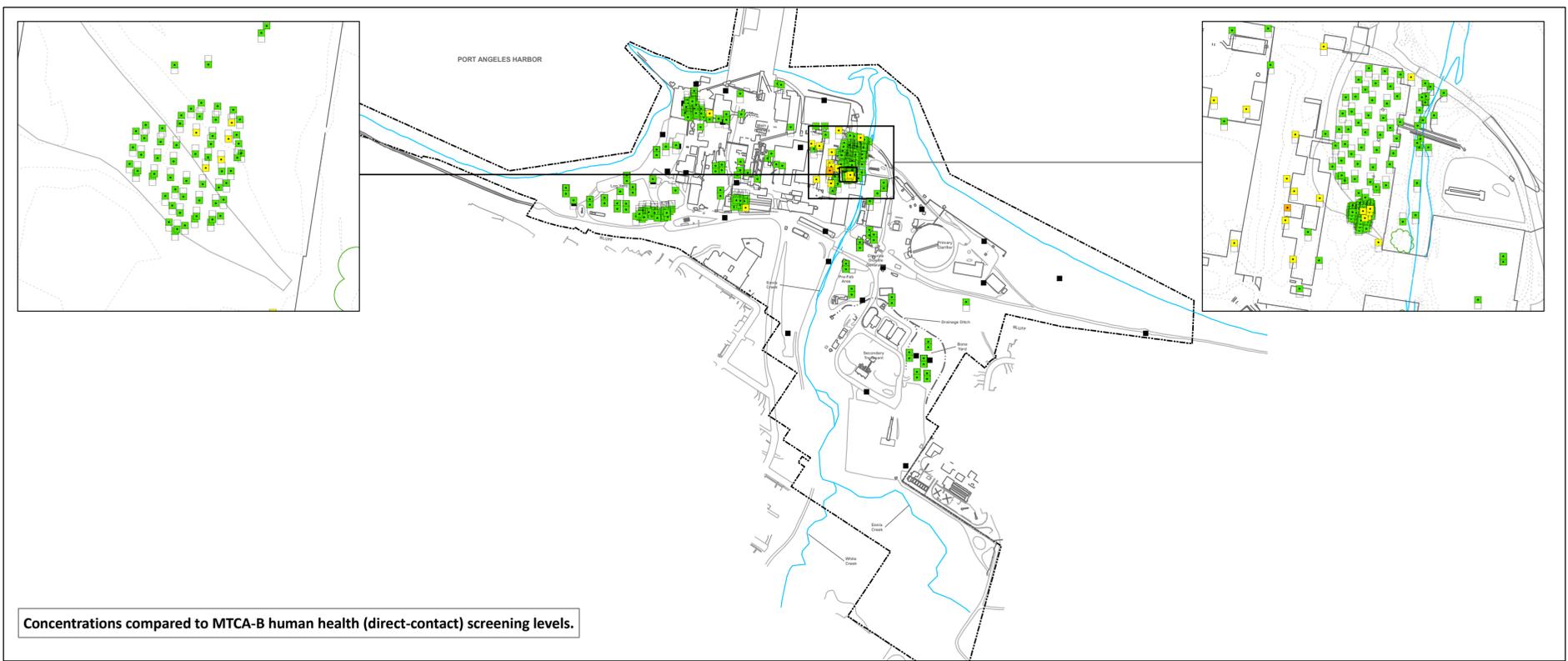


Total Polychlorinated Biphenyl Concentrations in Soil

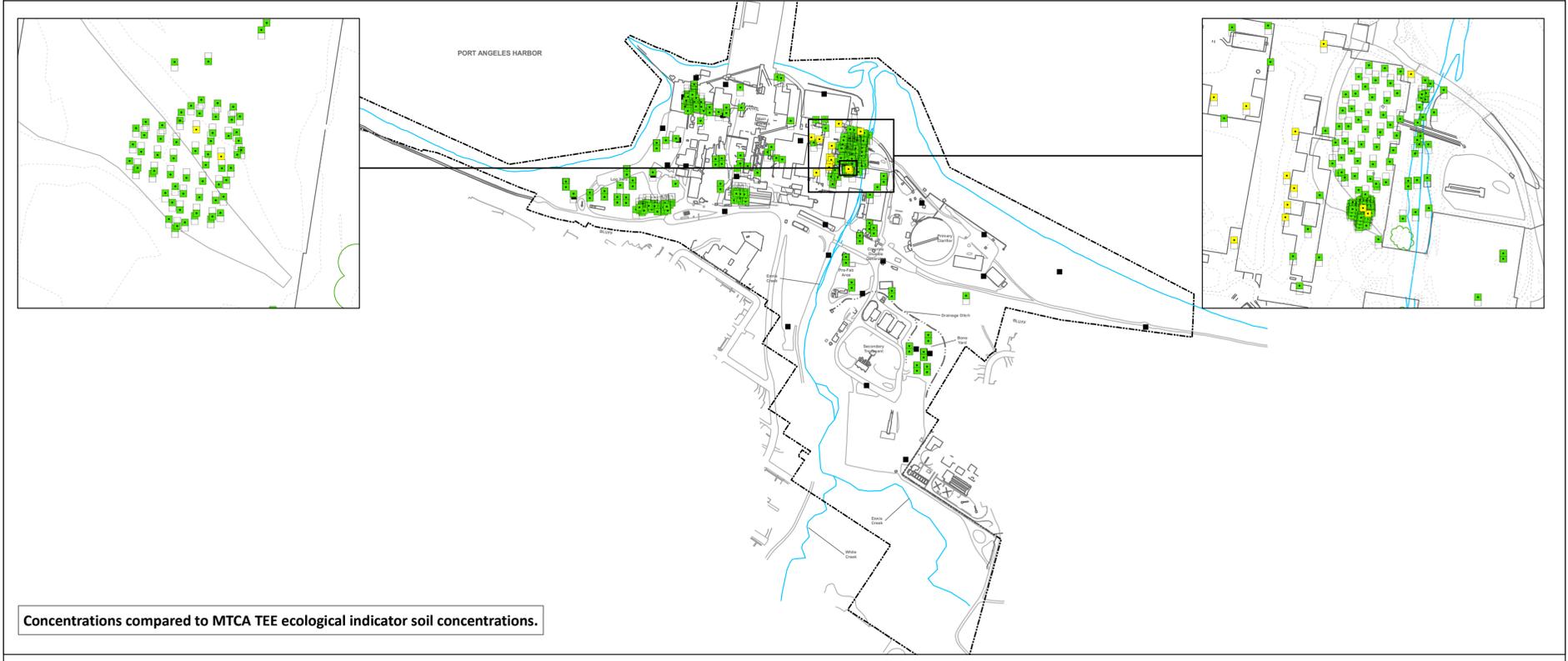
Port Angeles Rayonier Mill Study Area
 Port Angeles, Washington

GEOENGINEERS

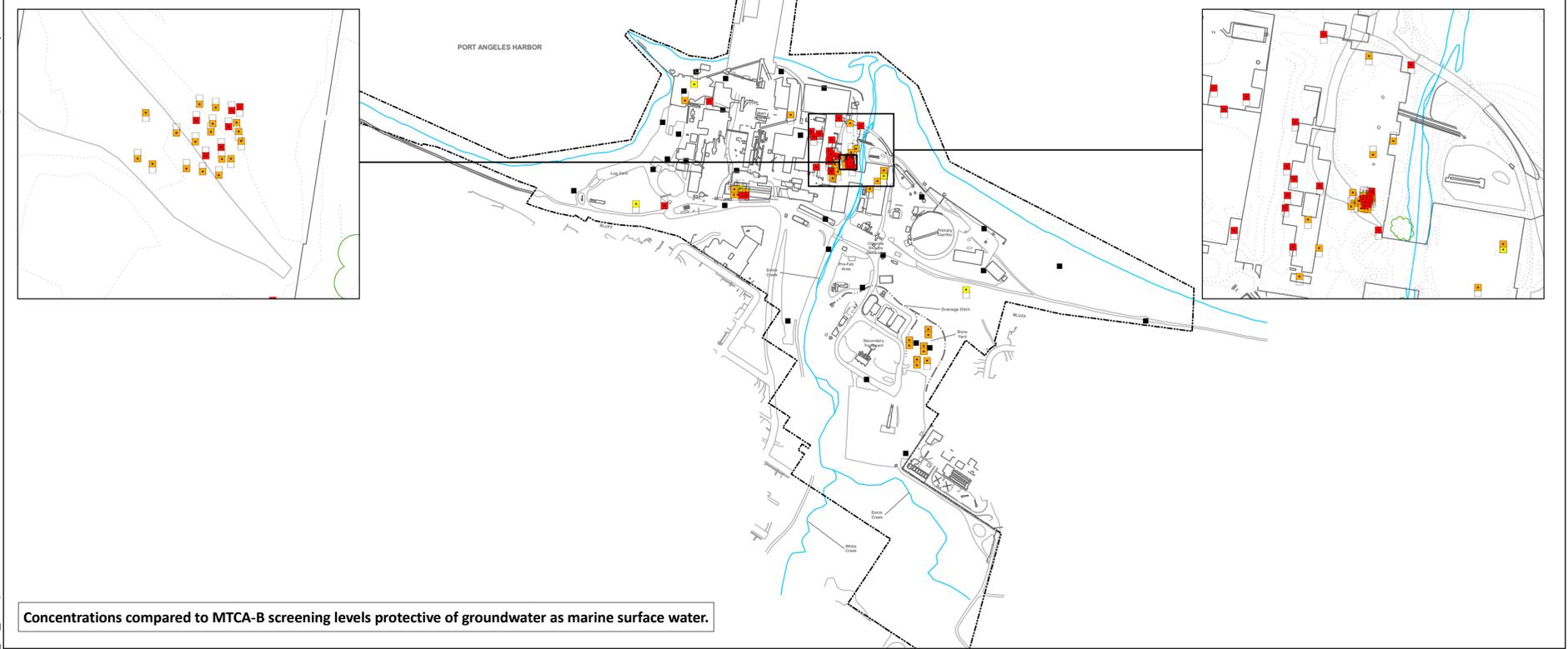
Figure 14A



Concentrations compared to MTCA-B human health (direct-contact) screening levels.



Concentrations compared to MTCA TEE ecological indicator soil concentrations.



Concentrations compared to MTCA-B screening levels protective of groundwater as marine surface water.

Explanation
 Total Polychlorinated Biphenyl Concentrations in Soil
 (Highest ratio of reported analyte concentrations to screening levels at each sample location determines symbol color)

- For results with PQLs that were less than or equal to the screening levels, the analytes either were not detected or were detected at concentrations below the screening levels.
- Indicates analytes were detected at concentrations greater than the screening levels but less than 10 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 10 times the screening levels but less than 100 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 100 times the screening levels.
- Indicates no sample was analyzed from the sample interval, or no analytes were detected above PQLs but the PQLs were greater than the screening levels.

Monitoring Well Locations
 Upland Study Area

Shallow Sample (0 to 2 feet)
 Deep Sample (> 2 feet)



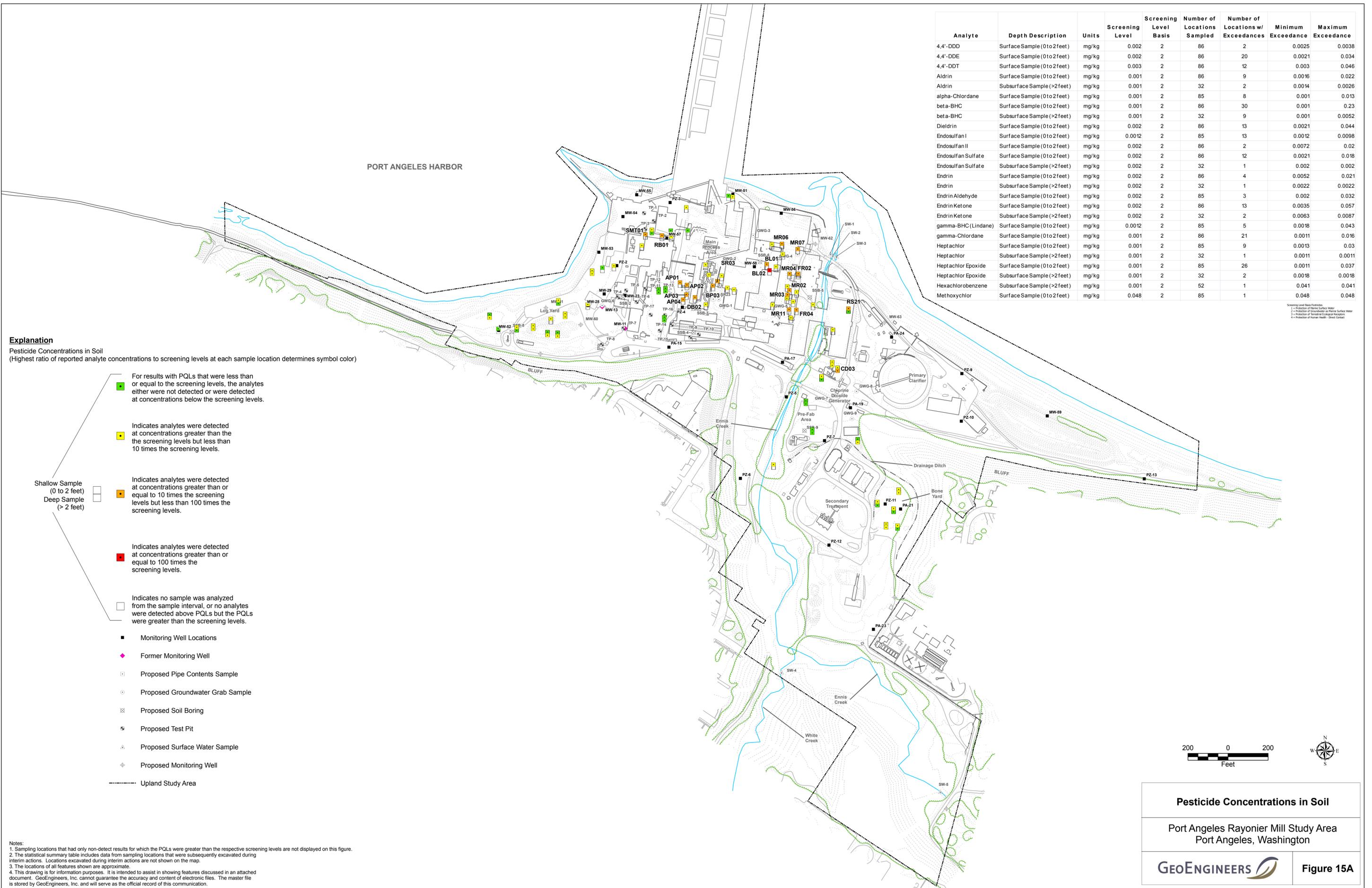
Total Polychlorinated Biphenyl Concentrations in Soil by Exposure Pathway

Port Angeles Rayonier Mill Study Area
Port Angeles, Washington

GEOENGINEERS

Figure 14B

Notes:
 1. Sampling locations that had only non-detect results for which the PQLs were greater than the respective screening levels are not displayed on this figure.
 2. The locations of all features shown are approximate.
 3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.



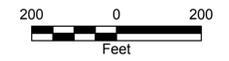
Analyte	Depth Description	Units	Screening Level	Screening Level Basis	Number of Locations Sampled	Number of Locations w/ Exceedances	Minimum Exceedance	Maximum Exceedance
4,4'-DDD	Surface Sample (0 to 2 feet)	mg/kg	0.002	2	86	2	0.0025	0.0038
4,4'-DDE	Surface Sample (0 to 2 feet)	mg/kg	0.002	2	86	20	0.0021	0.034
4,4'-DDT	Surface Sample (0 to 2 feet)	mg/kg	0.003	2	86	12	0.003	0.046
Aldrin	Surface Sample (0 to 2 feet)	mg/kg	0.001	2	86	9	0.0016	0.022
Aldrin	Subsurface Sample (>2 feet)	mg/kg	0.001	2	32	2	0.0014	0.0026
alpha-Chlordane	Surface Sample (0 to 2 feet)	mg/kg	0.001	2	85	8	0.001	0.013
beta-BHC	Surface Sample (0 to 2 feet)	mg/kg	0.001	2	86	30	0.001	0.23
beta-BHC	Subsurface Sample (>2 feet)	mg/kg	0.001	2	32	9	0.001	0.0052
Dieldrin	Surface Sample (0 to 2 feet)	mg/kg	0.002	2	86	13	0.0021	0.044
Endosulfan I	Surface Sample (0 to 2 feet)	mg/kg	0.0012	2	85	13	0.0012	0.0098
Endosulfan II	Surface Sample (0 to 2 feet)	mg/kg	0.002	2	86	2	0.0072	0.02
Endosulfan Sulfate	Surface Sample (0 to 2 feet)	mg/kg	0.002	2	86	12	0.0021	0.018
Endosulfan Sulfate	Subsurface Sample (>2 feet)	mg/kg	0.002	2	32	1	0.002	0.002
Endrin	Surface Sample (0 to 2 feet)	mg/kg	0.002	2	86	4	0.0052	0.021
Endrin	Subsurface Sample (>2 feet)	mg/kg	0.002	2	32	1	0.0022	0.0022
Endrin Aldehyde	Surface Sample (0 to 2 feet)	mg/kg	0.002	2	85	3	0.002	0.032
Endrin Ketone	Surface Sample (0 to 2 feet)	mg/kg	0.002	2	86	13	0.0035	0.057
Endrin Ketone	Subsurface Sample (>2 feet)	mg/kg	0.002	2	32	2	0.0063	0.0087
gamma-BHC (Lindane)	Surface Sample (0 to 2 feet)	mg/kg	0.0012	2	85	5	0.0018	0.043
gamma-Chlordane	Surface Sample (0 to 2 feet)	mg/kg	0.001	2	86	21	0.0011	0.016
Heptachlor	Surface Sample (0 to 2 feet)	mg/kg	0.001	2	85	9	0.0013	0.03
Heptachlor	Subsurface Sample (>2 feet)	mg/kg	0.001	2	32	1	0.0011	0.0011
Heptachlor Epoxide	Surface Sample (0 to 2 feet)	mg/kg	0.001	2	85	26	0.0011	0.037
Heptachlor Epoxide	Subsurface Sample (>2 feet)	mg/kg	0.001	2	32	2	0.0018	0.0018
Hexachlorobenzene	Subsurface Sample (>2 feet)	mg/kg	0.001	2	52	1	0.041	0.041
Methoxychlor	Surface Sample (0 to 2 feet)	mg/kg	0.048	2	85	1	0.048	0.048

Screening Level Basis:
 1 = Protection of Shallow Surface Water
 2 = Protection of Deep Surface Water
 3 = Protection of Groundwater
 4 = Protection of Human Health - Direct Contact

Explanation
 Pesticide Concentrations in Soil
 (Highest ratio of reported analyte concentrations to screening levels at each sample location determines symbol color)

- For results with PQLs that were less than or equal to the screening levels, the analytes either were not detected or were detected at concentrations below the screening levels.
- Indicates analytes were detected at concentrations greater than the screening levels but less than 10 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 10 times the screening levels but less than 100 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 100 times the screening levels.
- Indicates no sample was analyzed from the sample interval, or no analytes were detected above PQLs but the PQLs were greater than the screening levels.
- Monitoring Well Locations
- ◆ Former Monitoring Well
- Proposed Pipe Contents Sample
- Proposed Groundwater Grab Sample
- ⊗ Proposed Soil Boring
- ⊕ Proposed Test Pit
- △ Proposed Surface Water Sample
- ⊕ Proposed Monitoring Well
- Upland Study Area

Notes:
 1. Sampling locations that had only non-detect results for which the PQLs were greater than the respective screening levels are not displayed on this figure.
 2. The statistical summary table includes data from sampling locations that were subsequently excavated during interim actions. Locations excavated during interim actions are not shown on the map.
 3. The locations of all features shown are approximate.
 4. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

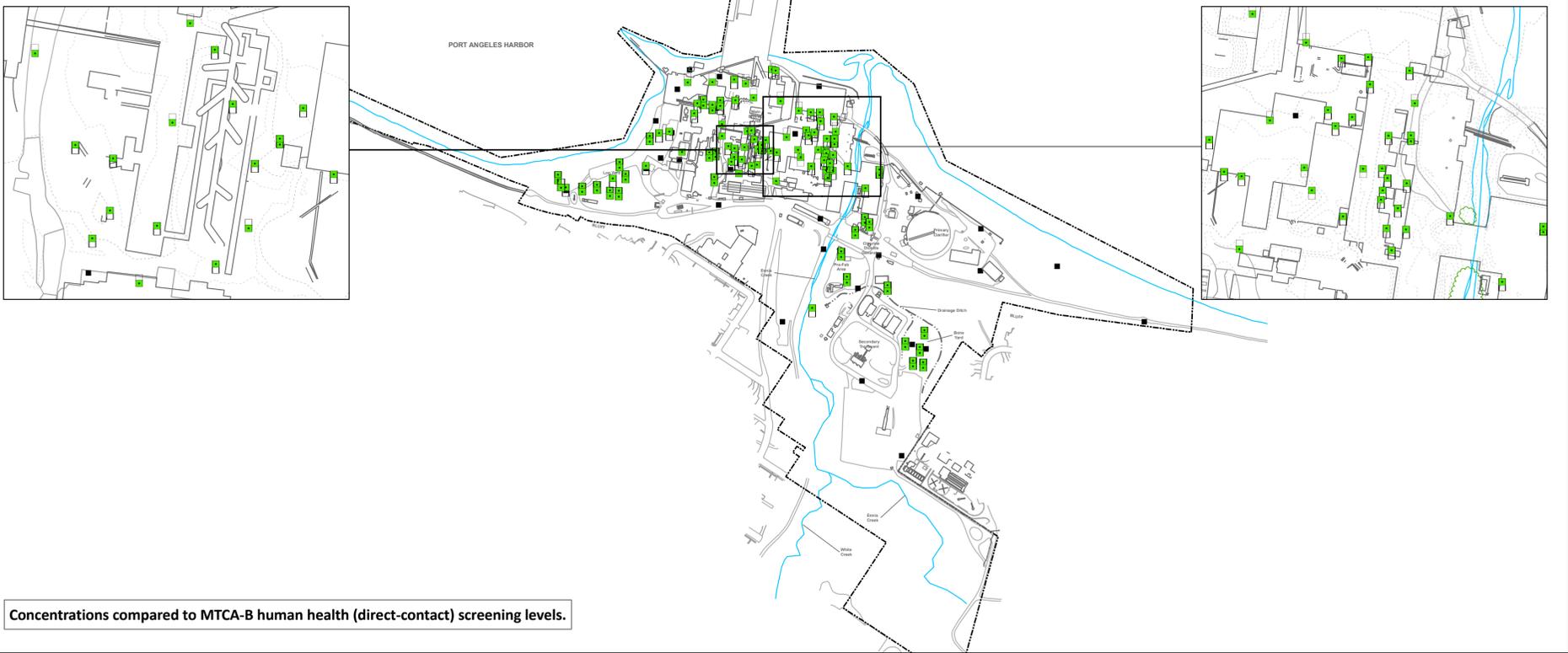


Pesticide Concentrations in Soil

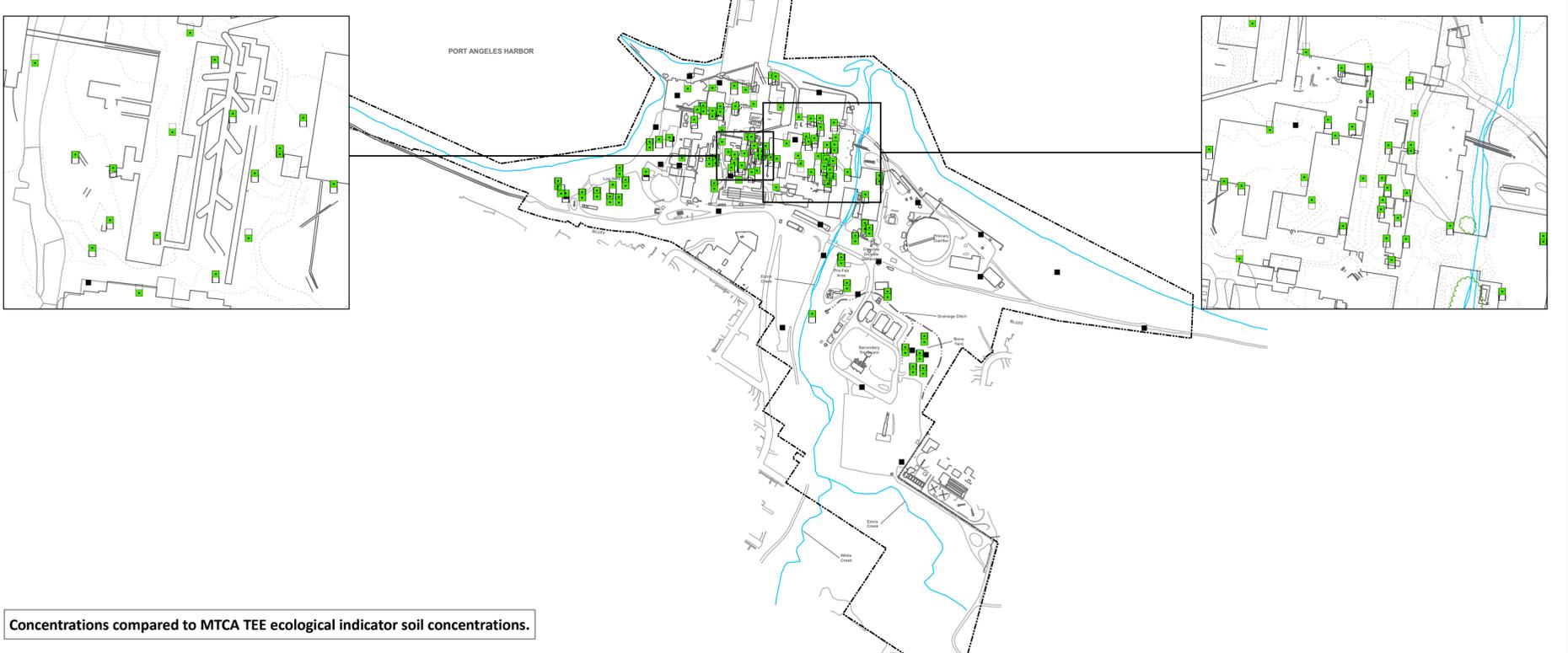
Port Angeles Rayonier Mill Study Area
 Port Angeles, Washington

GEOENGINEERS

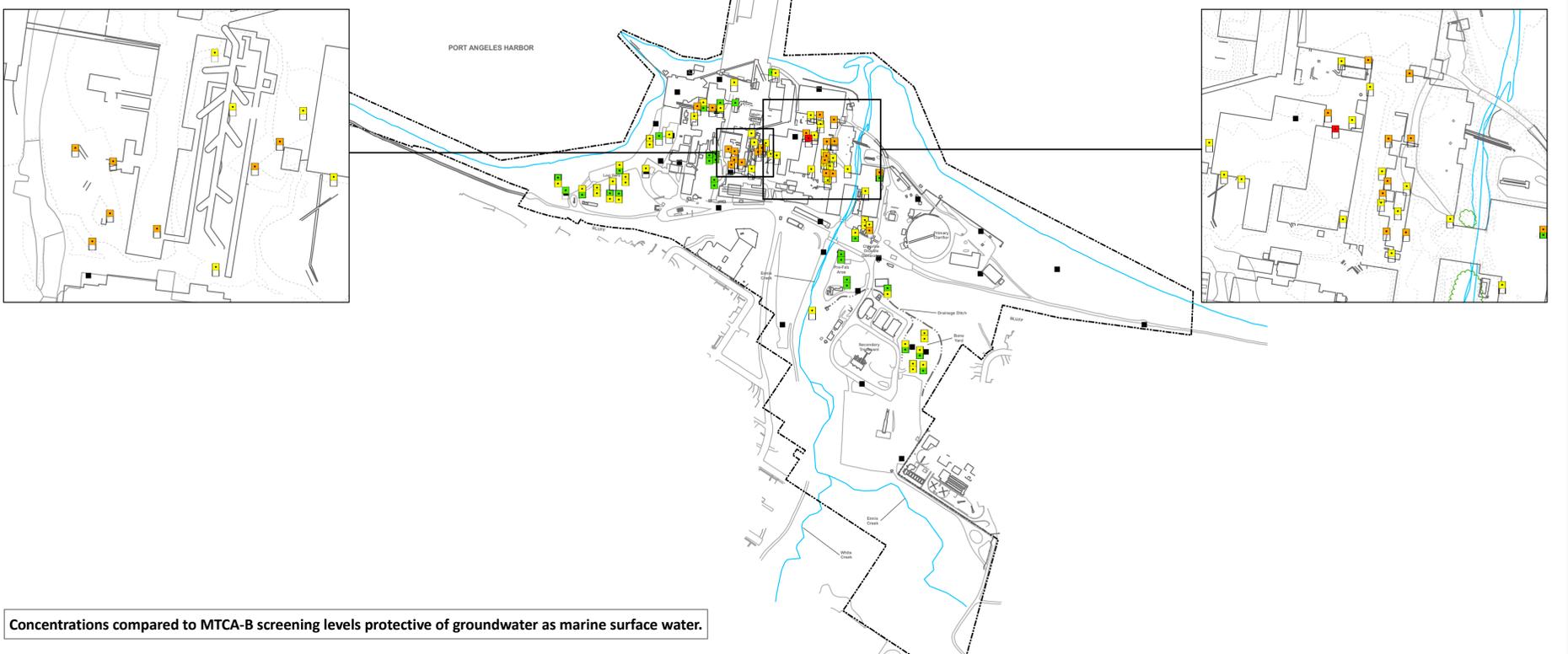
Figure 15A



Concentrations compared to MTCA-B human health (direct-contact) screening levels.



Concentrations compared to MTCA TEE ecological indicator soil concentrations.



Concentrations compared to MTCA-B screening levels protective of groundwater as marine surface water.

Explanation
Pesticide Concentrations in Soil
(Highest ratio of reported analyte concentrations to screening levels at each sample location determines symbol color)

- For results with PQLs that were less than or equal to the screening levels, the analytes either were not detected or were detected at concentrations below the screening levels.
- Indicates analytes were detected at concentrations greater than the screening levels but less than 10 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 10 times the screening levels but less than 100 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 100 times the screening levels.
- Indicates no sample was analyzed from the sample interval, or no analytes were detected above PQLs but the PQLs were greater than the screening levels.

Shallow Sample (0 to 2 feet)
 Deep Sample (> 2 feet)

■ Monitoring Well Locations
 Upland Study Area



Pesticide Concentrations in Soil by Exposure Pathway

Port Angeles Rayonier Mill Study Area
Port Angeles, Washington



Figure 15B

TCK:CRG

Map Revised: July 19, 2010

Office: SEA
Path: \NSEA\projects\010137015\GIS\013701503_F15B_Pesticide_SL_Comparison.mxd

Notes:
1. Sampling locations that had only non-detect results for which the PQLs were greater than the respective screening levels are not displayed on this figure.
2. The locations of all features shown are approximate.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.