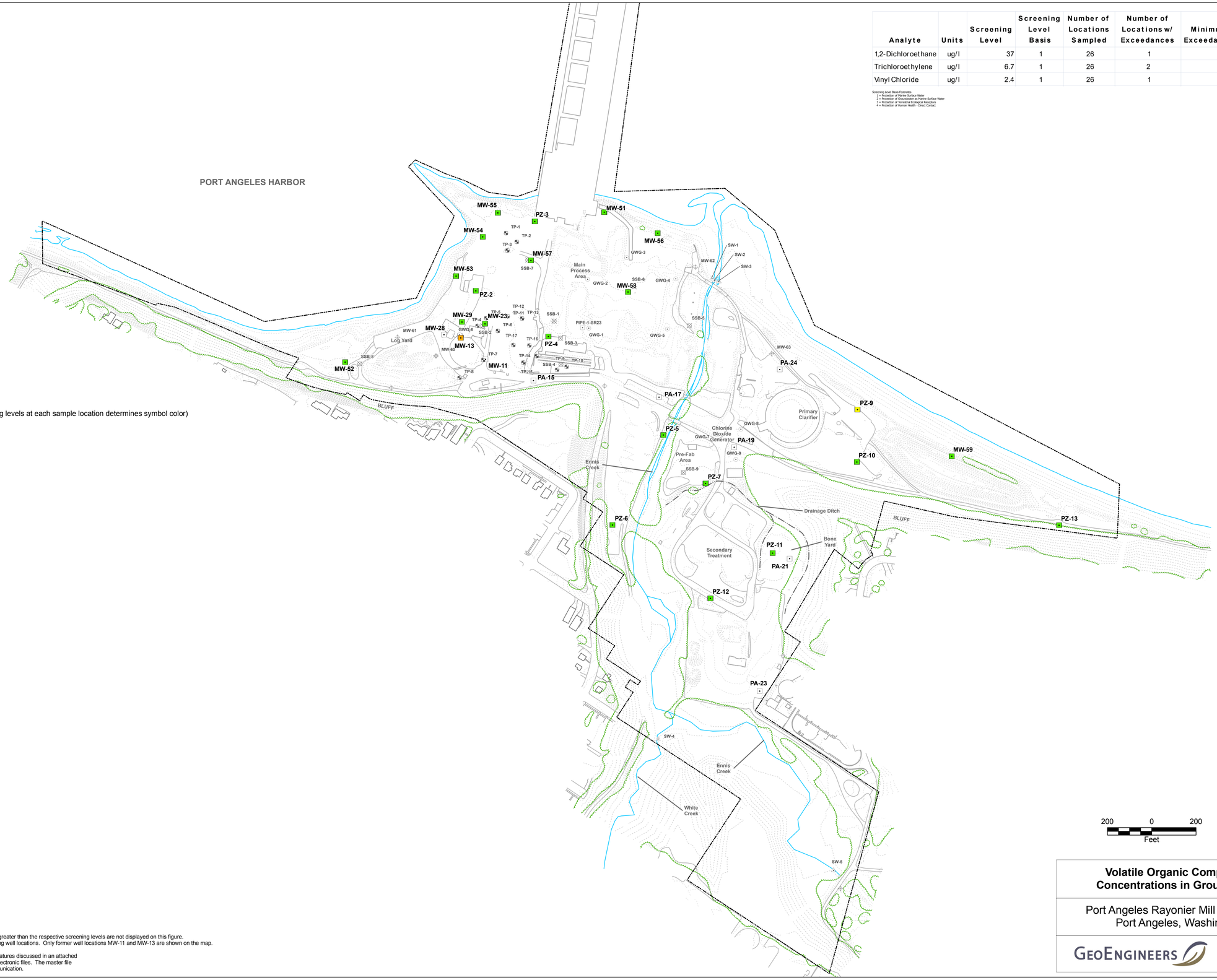
Analyte	Units	Screening Level	Screening Level Basis	Number of Locations Sampled	Number of Locations w/ Exceedances	Minimum Exceedance	Maximum Exceedance
1,2-Dichloroethane	ug/l	37	1	26	1	72	93
Trichloroethylene	ug/l	6.7	1	26	2	7	9.6
Vinyl Chloride	ug/l	2.4	1	26	1	26	34

Screening Level Basis Footnotes
1 = Protection of Marine Surface Water
2 = Protection of Groundwater as Marine Surface Water
3 = Protection of Terrestrial Ecological Receptors
4 = Protection of Human Health - Direct Contact



Map Revised: July 20, 2010 TCK:CRC

Path: \\Tac\projects\0\0137015\GIS\013701503_F18_VOC_BTEX_Concentration_GW_detects.mxd

Office: TAC

Explanation

Volatile Organic Compound Concentrations in Groundwater
(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.
- 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 existing and former monitoring well locations. Only former well locations MW-11 and MW-13 are 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.

Volatile Organic Compound Concentrations in Groundwater

Port Angeles Rayonier Mill Study Area
Port Angeles, Washington

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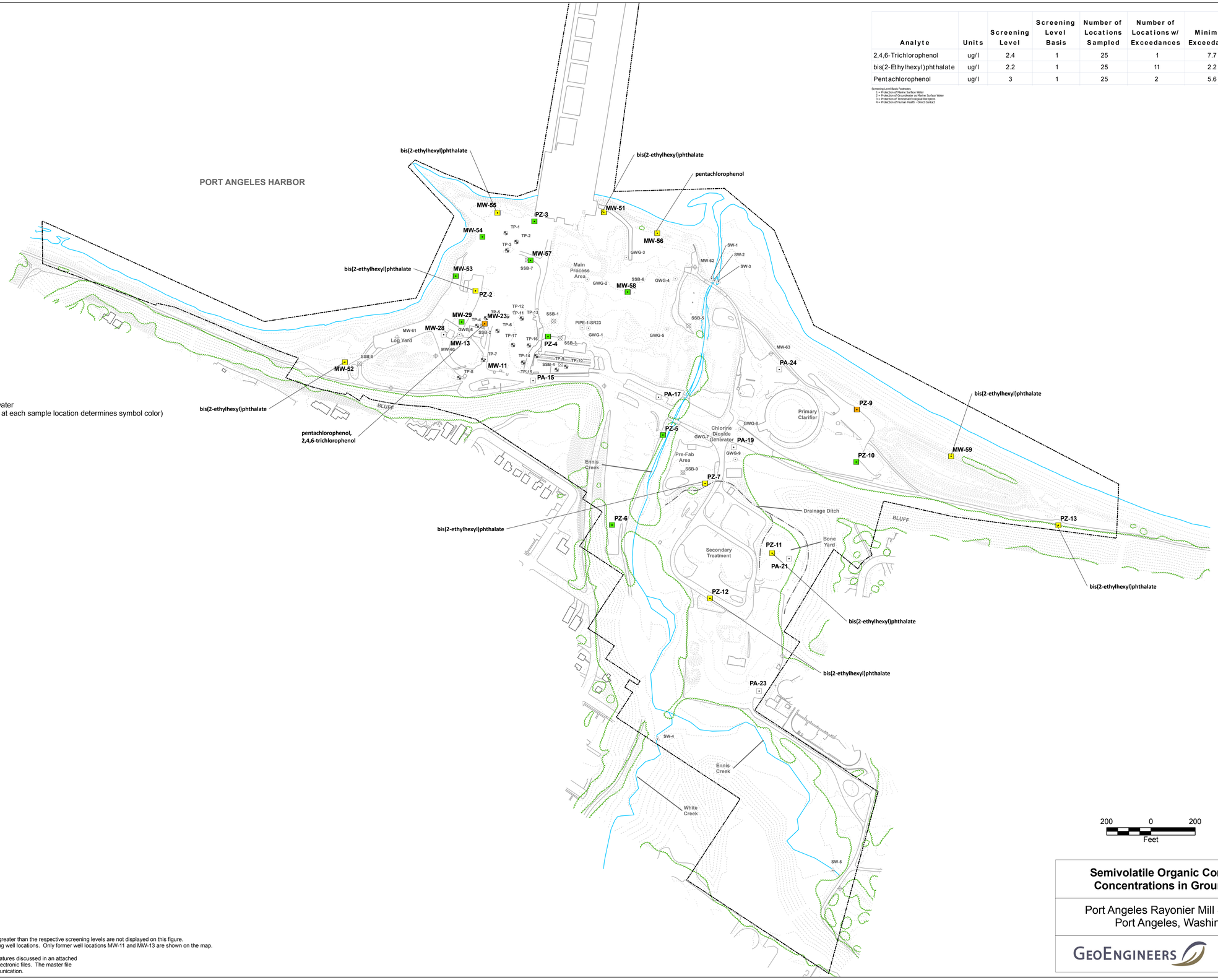
Figure 18

Analyte	Units	Screening Level	Screening Level Basis	Number of Locations Sampled	Number of Locations w/ Exceedances	Minimum Exceedance	Maximum Exceedance
2,4,6-Trichlorophenol	ug/l	2.4	1	25	1	7.7	7.7
bis(2-Ethylhexyl)phthalate	ug/l	2.2	1	25	11	2.2	35
Pentachlorophenol	ug/l	3	1	25	2	5.6	83

Screening Level Basis Footnotes:
1 = Protection of Marine Surface Water
2 = Protection of Groundwater as Marine Surface Water
3 = Protection of Terrestrial Ecological Receptors
4 = Protection of Human Health - Direct Contact



Explanation

Semivolatile Organic Compound Concentrations in Groundwater
(Highest ratio of detected 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.
- 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 existing and former monitoring well locations. Only former well locations MW-11 and MW-13 are shown on the map.
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Semivolatile Organic Compound Concentrations in Groundwater

Port Angeles Rayonier Mill Study Area
Port Angeles, Washington

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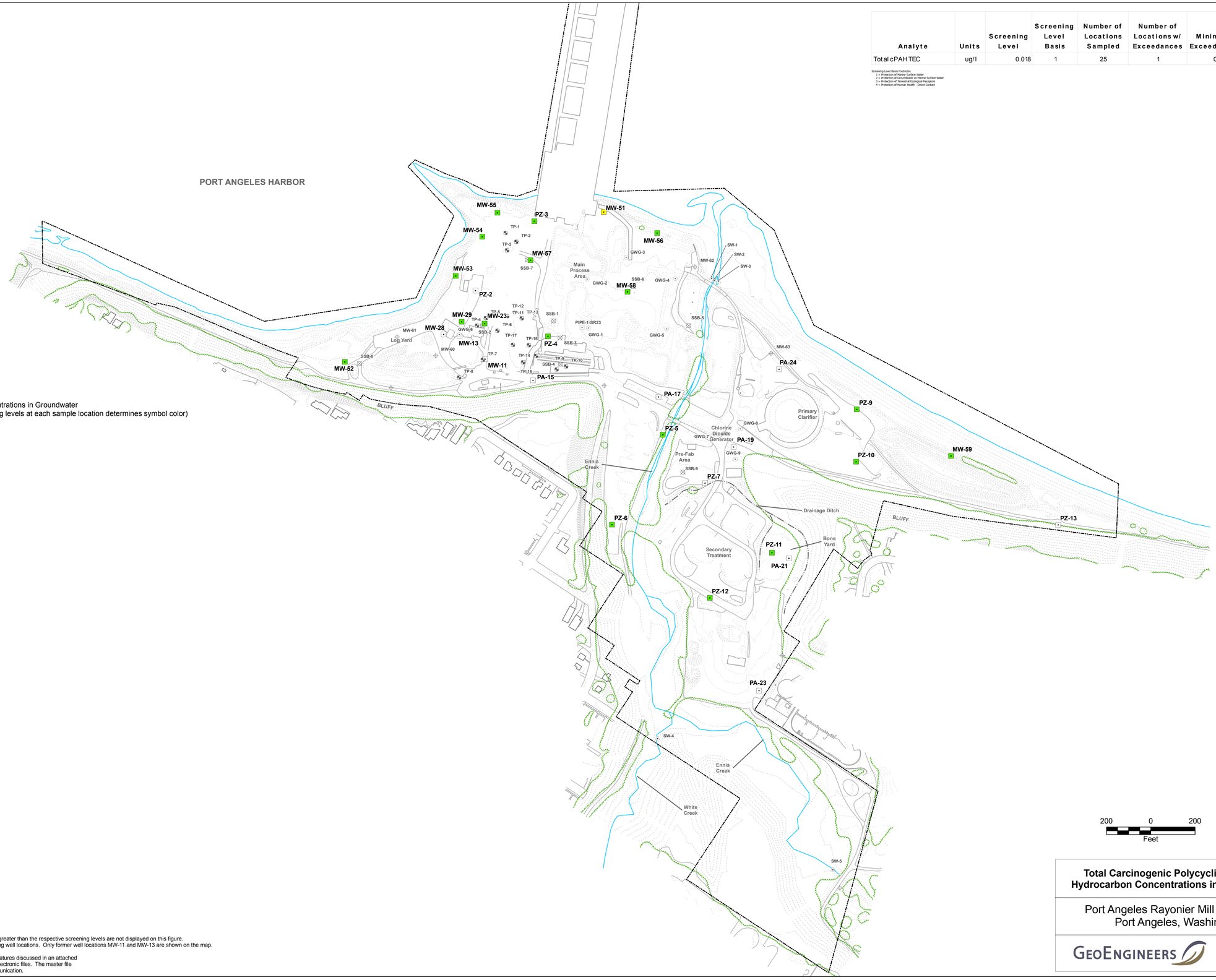
Figure 19

Office: TAC Path: \\Tac\projects\0\0137015\GIS\013701503_F19_SVOC_Concentration_GW_detects.mxd Map Revised: July 20, 2010 TCK:CRC

Analyte	Units	Screening Level	Screening Level Basis	Number of Locations Sampled	Number of Locations w/ Exceedances	Minimum Exceedance	Maximum Exceedance
Total cPAH TEC	ug/l	0.018	1	25	1	0.02043	0.0901

Screening Level Basis Footnotes
1 = Protection of Marine Surface Water
2 = Protection of Groundwater as Marine Surface Water
3 = Protection of Terrestrial Ecological Receptors
4 = Protection of Human Health - Direct Contact



Explanation

Total Carcinogenic Polycyclic Aromatic Hydrocarbon Concentrations in Groundwater
(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.
- 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 existing and former monitoring well locations. Only former well locations MW-11 and MW-13 are 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 Carcinogenic Polycyclic Aromatic Hydrocarbon Concentrations in Groundwater

Port Angeles Rayonier Mill Study Area
Port Angeles, Washington

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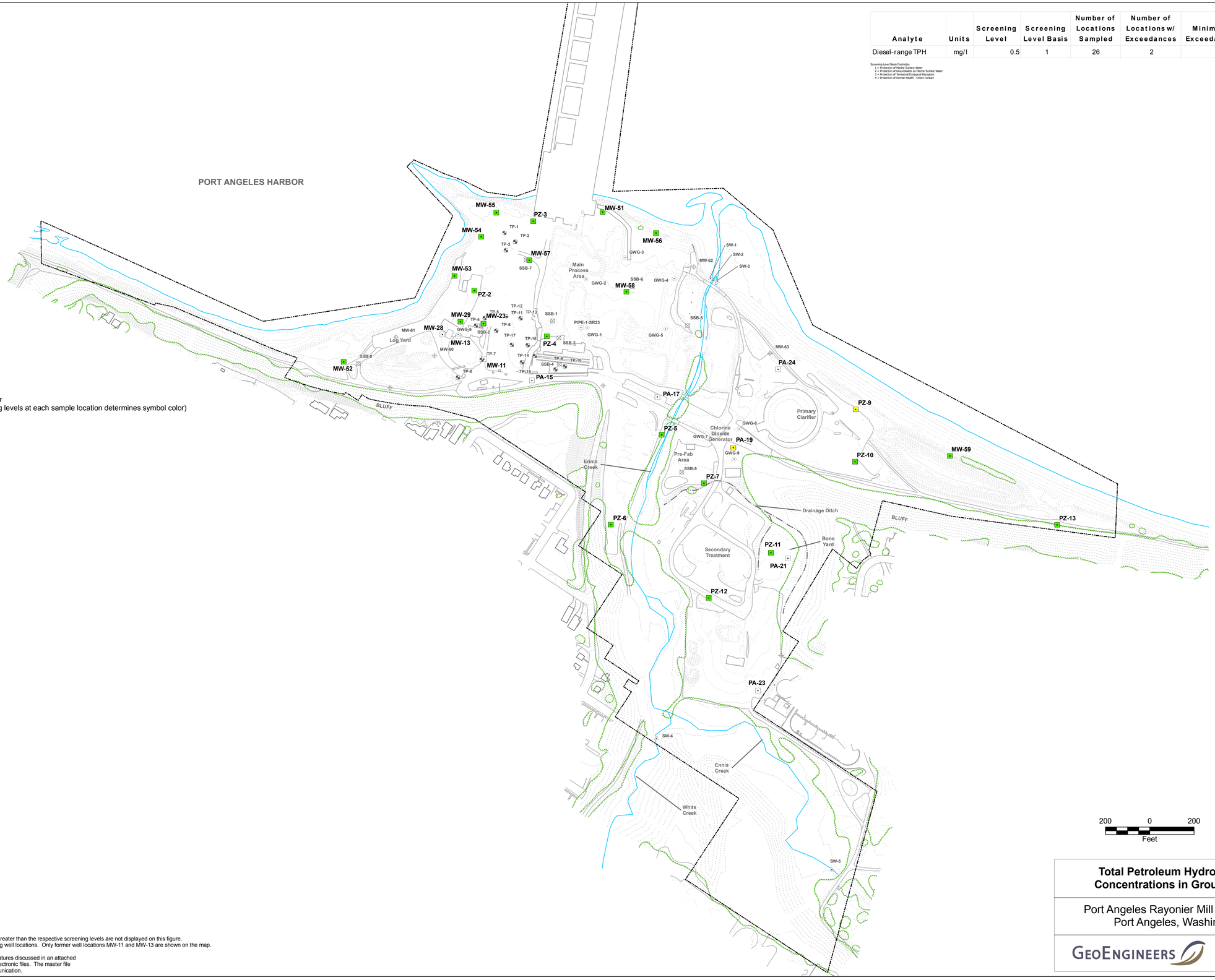
Figure 20

Office: TAC Path: \\Tac\projects\0\0137015\GIS\013701503_F20_cPAH_TEC_Concentration_GW_detects.mxd Map Revised: July 20, 2010 TCK:CRC

Analyte	Units	Screening Level	Screening Level Basis	Number of Locations Sampled	Number of Locations w/ Exceedances	Minimum Exceedance	Maximum Exceedance
Diesel-range TPH	mg/l	0.5	1	26	2	0.84	3

Screening Level Basis Footnotes
1 = Protection of Groundwater as Source Water
2 = Protection of Groundwater as Marine Surface Water
3 = Protection of Terrestrial Ecological Reception
4 = Protection of Human Health - Direct Contact



Explanation

Total Petroleum Hydrocarbon Concentrations in Groundwater
(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.
- 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 existing and former monitoring well locations. Only former well locations MW-11 and MW-13 are shown on the map.
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Total Petroleum Hydrocarbon Concentrations in Groundwater

Port Angeles Rayonier Mill Study Area
Port Angeles, Washington

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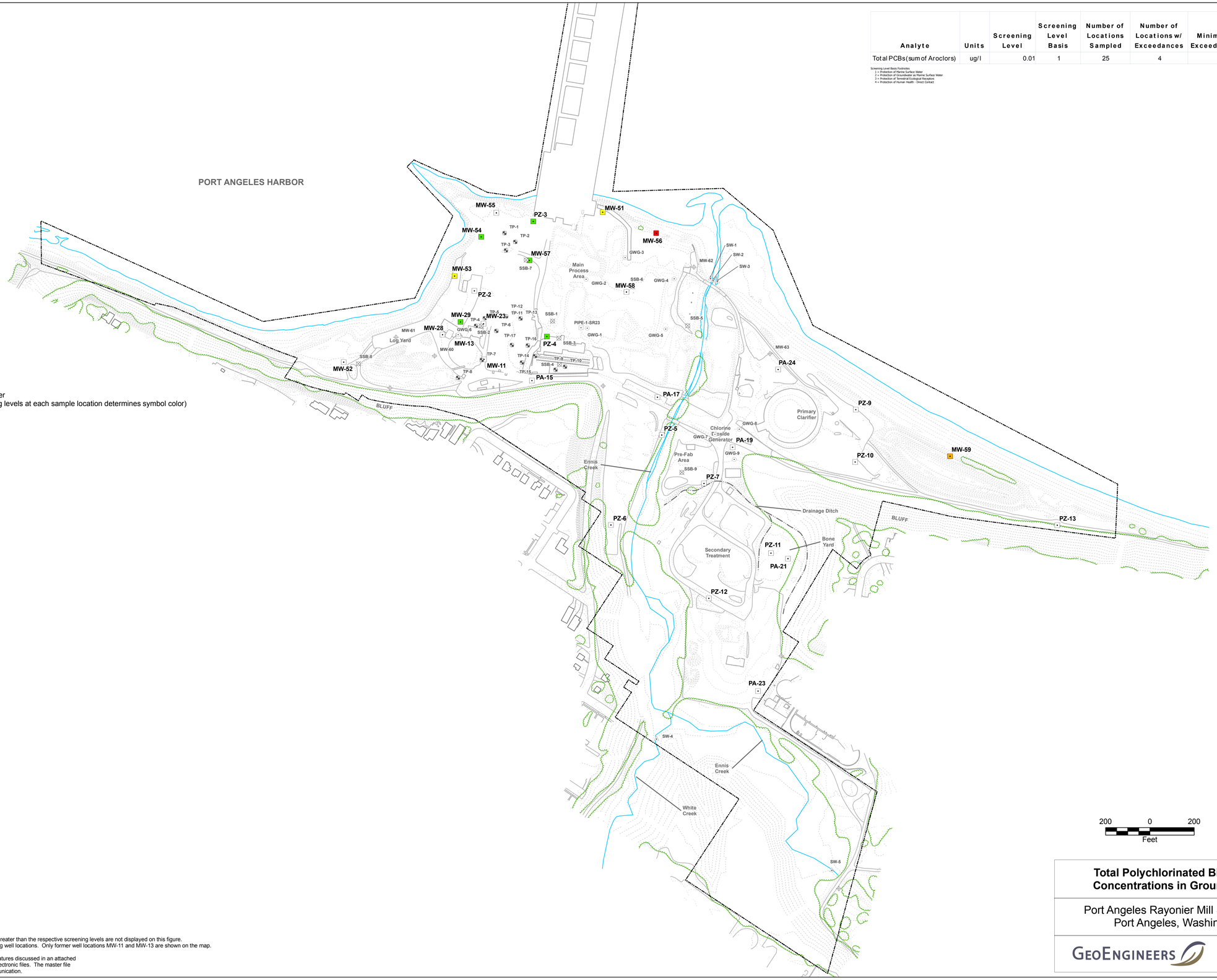
Figure 21

Office: TAC Path: \\Tac\projects\0\0137015\GIS\013701503_F21_TPH_Concentration_GW_detects.mxd Map Revised: July 20, 2010 TCK:CRC

Analyte	Units	Screening Level	Screening Level Basis	Number of Locations Sampled	Number of Locations w/ Exceedances	Minimum Exceedance	Maximum Exceedance
Total PCBs (sum of Aroclors)	ug/l	0.01	1	25	4	0.02	2.15

Screening Level Basis Footnotes
1 = Protection of Marine Surface Water
2 = Protection of Freshwater Surface Water
3 = Protection of Terrestrial Ecological Receptors
4 = Protection of Human Health - Direct Contact



Explanation

Total Polychlorinated Biphenyl Concentrations in Groundwater
(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.
- 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 existing and former monitoring well locations. Only former well locations MW-11 and MW-13 are shown on the map.
3. The locations of all features shown are approximate.
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Total Polychlorinated Biphenyl Concentrations in Groundwater

Port Angeles Rayonier Mill Study Area
Port Angeles, Washington

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Figure 22

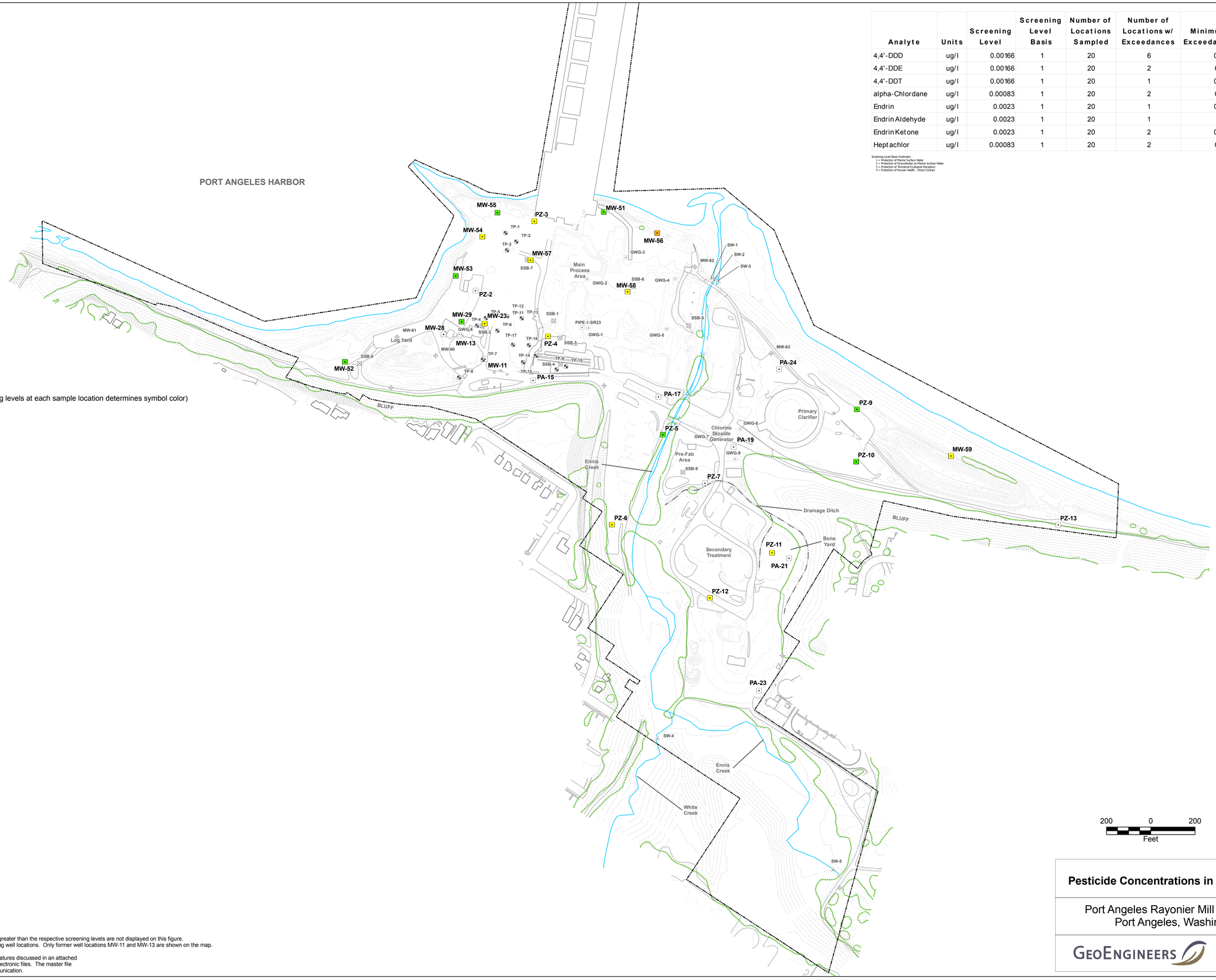
Map Revised: July 20, 2010 TCK:CRC

Path: \\Tac\projects\0\0137015\GIS\013701503_F22_PCB_Concentration_GW_detects.mxd

Office: TAC

Analyte	Units	Screening Level	Screening Level Basis	Number of Locations Sampled	Number of Locations w/ Exceedances	Minimum Exceedance	Maximum Exceedance
4,4'-DDD	ug/l	0.00166	1	20	6	0.0029	0.0098
4,4'-DDE	ug/l	0.00166	1	20	2	0.0017	0.0029
4,4'-DDT	ug/l	0.00166	1	20	1	0.0079	0.0079
alpha-Chlordane	ug/l	0.00083	1	20	2	0.0015	0.0016
Endrin	ug/l	0.0023	1	20	1	0.0046	0.0046
Endrin Aldehyde	ug/l	0.0023	1	20	1	0.14	0.14
Endrin Ketone	ug/l	0.0023	1	20	2	0.0048	0.028
Heptachlor	ug/l	0.00083	1	20	2	0.0018	0.0018

Screening Level Basis Footnotes
1 = Protection of Marine Surface Water
2 = Protection of Groundwater as Marine Surface Water
3 = Protection of Terrestrial Ecological Receptors
4 = Protection of Human Health - Direct Contact



Explanation

Pesticide Concentrations in Groundwater
(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.
- 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.
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Pesticide Concentrations in Groundwater

Port Angeles Rayonier Mill Study Area
Port Angeles, Washington

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Figure 23

Office: TAC Path: \\Tac\projects\0\0137015\GIS\013701503_F23_Pesticides_Concentration_GW_detects.mxd Map Revised: July 20, 2010 TCK:CRC