APPENDIX Q
Conventional, Benthic and Human Health Remedial Investigation Result – 2-foot Lift Maps

DRAFT

Observed Wood Content

<1%

1 to 15%

15 to 30%

30 to 45%

45 to 60%

>60%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

Biofiltration Swale (Historically Mill A Creek)

Unnamed Creek No. 1

Unnamed Creek No. 2

Pigeon Creek

P:\0167602006\GIS\MXD\MarineArea_RI_Report\0167602006_ProductionMapping_Template_Conventional.mxd Date Exported: 12/06/23 by dohrmeyer

300 0 300

Feet

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Observed Wood Content Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-1

Observed Wood Content

- <1%
- 1 to 15%
- 15 to 30%
- 30 to 45%
- 45 to 60%
- >60%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

Biofiltration Swale (Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

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300 0 300

Feet

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Observed Wood Content Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-2

Observed Wood Content

- <1%
- 1 to 15%
- 15 to 30%
- 30 to 45%
- 45 to 60%
- >60%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale (Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18

MAF-43

MAF-42

MAF-40

EW-12-06

EW-12-07

MAF-44

A1-17

MAF-49

MAF-45

SP-151

EW-12-05

A1-15

MAF-48

MAF-41

MAF-37

MAF-38

MAF-19

MAF-39

MAF-21

MAF-22

MAF-35

MAF-46

MAF-36

MAF-55

ST-28

ST-30

MAF-20

ST-41

A1-31

MAF-23

MAF-18

ST-24

MAF-61

ST-26

MAF-13

MAF-56

MAF-58

MAF-12

ST-31

MAF-59

ST-32

MAF-11

ST-33

MAF-10

ST-39

A1-24

ST-36

ST-34

MAF-31

A1-20

MAF-09

ST-42

ST-101

ST-102

ST-105

ST-25

ST-29

MAF-60

ST-108

ST-02

ST-109

ST-44

ST-43

ST-35

ST-37

ST-103

ST-23

ST-104

ST-106

ST-107

ST-27

MAF-57

MAF-03

ST-11

ST-15

ST-20

PT-10

PT-3

MAF-30

MAF-17

MAF-04

PT-5

MAF-47

MAF-50

ST-22

ST-05

ST-08

ST-09

ST-14

ST-17

ST-19

PT-11

PT-6

MAF-07

MAF-29

MAF-34

MAF-14

ST-03

ST-06

ST-12

ST-21

PT-12

MAF-01

MAF-02

MAF-05

PT-8

MAF-08

MAF-24

MAF-25

PT-13

MAF-33

MAF-28

MAF-26

MAF-16

MAF-15

EDP-65

MAF-27

PT-14

PT-OF-02

MAF-32

A1-31B

E005

EDP-63

EDP-64

EDP-62

Outfall 004

Outfall 005

Outfall 006

PT-OF-04

PT-OF-05

E006

E007

Outfall 004

DRAFT

N W E S

300 0 300

Feet

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Observed Wood Content Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-3

P:\0\067602\GIS\MXD\MarineArea_RI_Report\067602006_ProductionMapping_Template_Conventional.mxd Date Exported: 12/06/23 by glohrmeyer

Observed Wood Content

- <1%
- 1 to 15%
- 15 to 30%
- 30 to 45%
- 45 to 60%
- >60%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale (Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

E005

E006

E007

PG-62

A1-23

A1-18

A1-17

A1-15

A1-31

A1-31B

A1-24

A1-20

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-40

MAF-41

MAF-42

MAF-43

MAF-44

MAF-45

MAF-46

MAF-47

MAF-48

MAF-49

MAF-50

MAF-55

MAF-56

MAF-57

MAF-58

MAF-59

MAF-60

MAF-61

MAF-01

MAF-02

MAF-03

MAF-04

MAF-05

MAF-07

MAF-08

MAF-09

MAF-10

MAF-11

MAF-12

MAF-13

MAF-14

MAF-15

MAF-16

MAF-17

MAF-18

MAF-19

MAF-20

MAF-21

MAF-22

MAF-23

MAF-24

MAF-25

MAF-26

MAF-27

MAF-28

MAF-29

MAF-30

MAF-31

MAF-32

MAF-33

MAF-34

MAF-35

MAF-36

MAF-37

MAF-38

MAF-39

ST-01

ST-02

ST-03

ST-05

ST-06

ST-08

ST-09

ST-11

ST-12

ST-14

ST-15

ST-17

ST-19

ST-20

ST-21

ST-22

ST-23

ST-24

ST-25

ST-26

ST-27

ST-28

ST-29

ST-30

ST-31

ST-32

ST-33

ST-34

ST-35

ST-36

ST-37

ST-39

ST-41

ST-42

ST-43

ST-44

ST-101

ST-102

ST-103

ST-104

ST-105

ST-106

ST-107

ST-108

ST-109

PT-3

PT-5

PT-6

PT-8

PT-10

PT-11

PT-12

PT-13

PT-14

PT-OF-02

PT-OF-04

PT-OF-05

EDP-62

EDP-63

EDP-64

EDP-65

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300

Feet

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Observed Wood Content Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-4

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Observed Wood Content

- <1%
- 1 to 15%
- 15 to 30%
- 30 to 45%
- 45 to 60%
- >60%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18

A1-17

A1-15

A1-24

A1-20

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 through MAF-61

ST-01 through ST-44

PT-3 through PT-14

PT-OF-02

PT-OF-04

PT-OF-05

EDP-62 through EDP-65

E005

E006

E007

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300

Feet

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification

1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

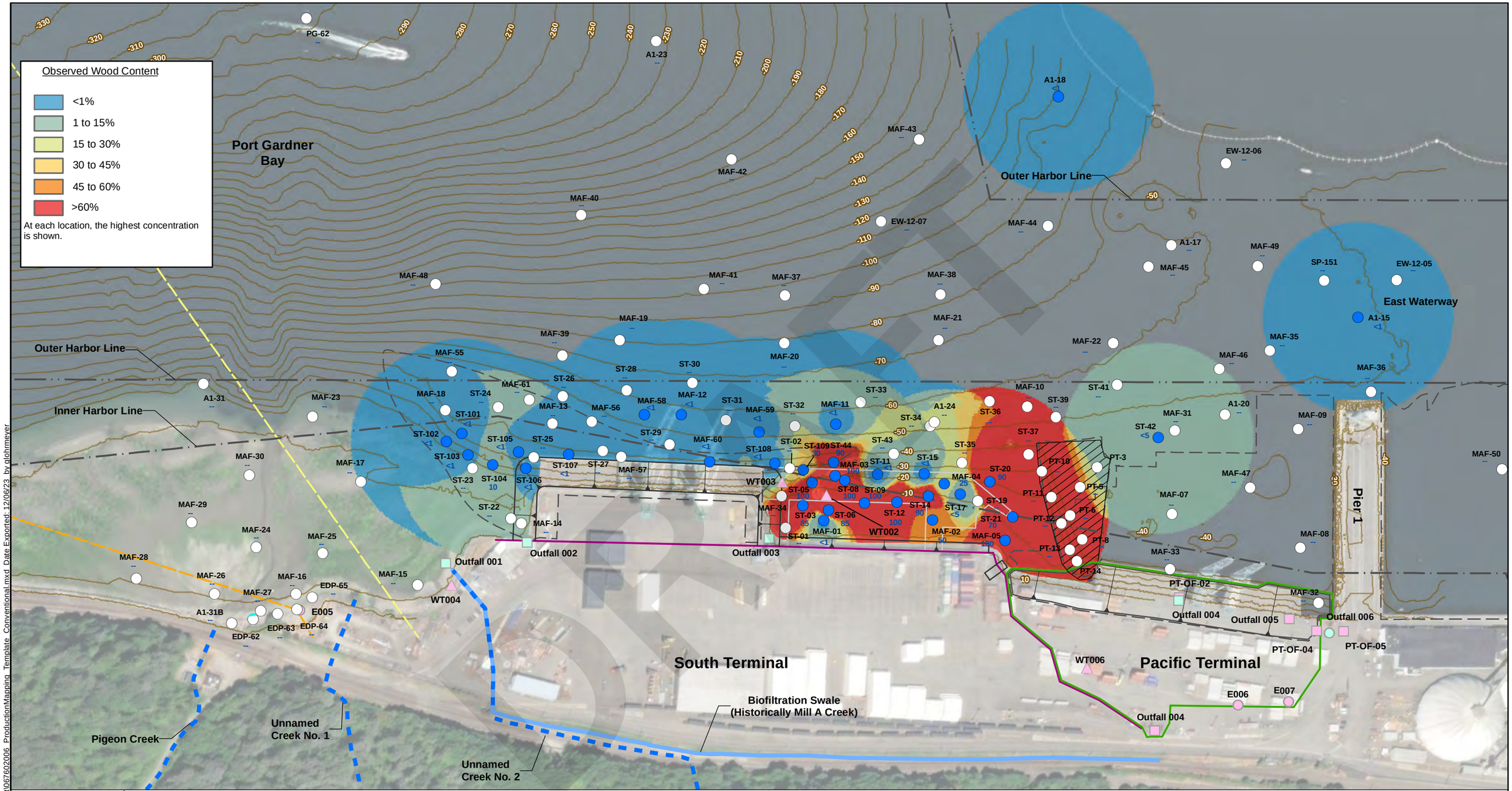
Observed Wood Content Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-5

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300 0 300
Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 / 1.22 Sample Location Identification / Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Observed Wood Content Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-6

Observed Wood Content

- <1%
- 1 to 15%
- 15 to 30%
- 30 to 45%
- 45 to 60%
- >60%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale (Historically Mill A Creek)

Unnamed Creek No. 1

Unnamed Creek No. 2

Pigeon Creek

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18

A1-31

A1-31B

A1-17

A1-15

A1-24

A1-20

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14 PT-OF-02 PT-OF-04 PT-OF-05

E005 E006 E007 EDP-62 EDP-63 EDP-64 EDP-65

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300

Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

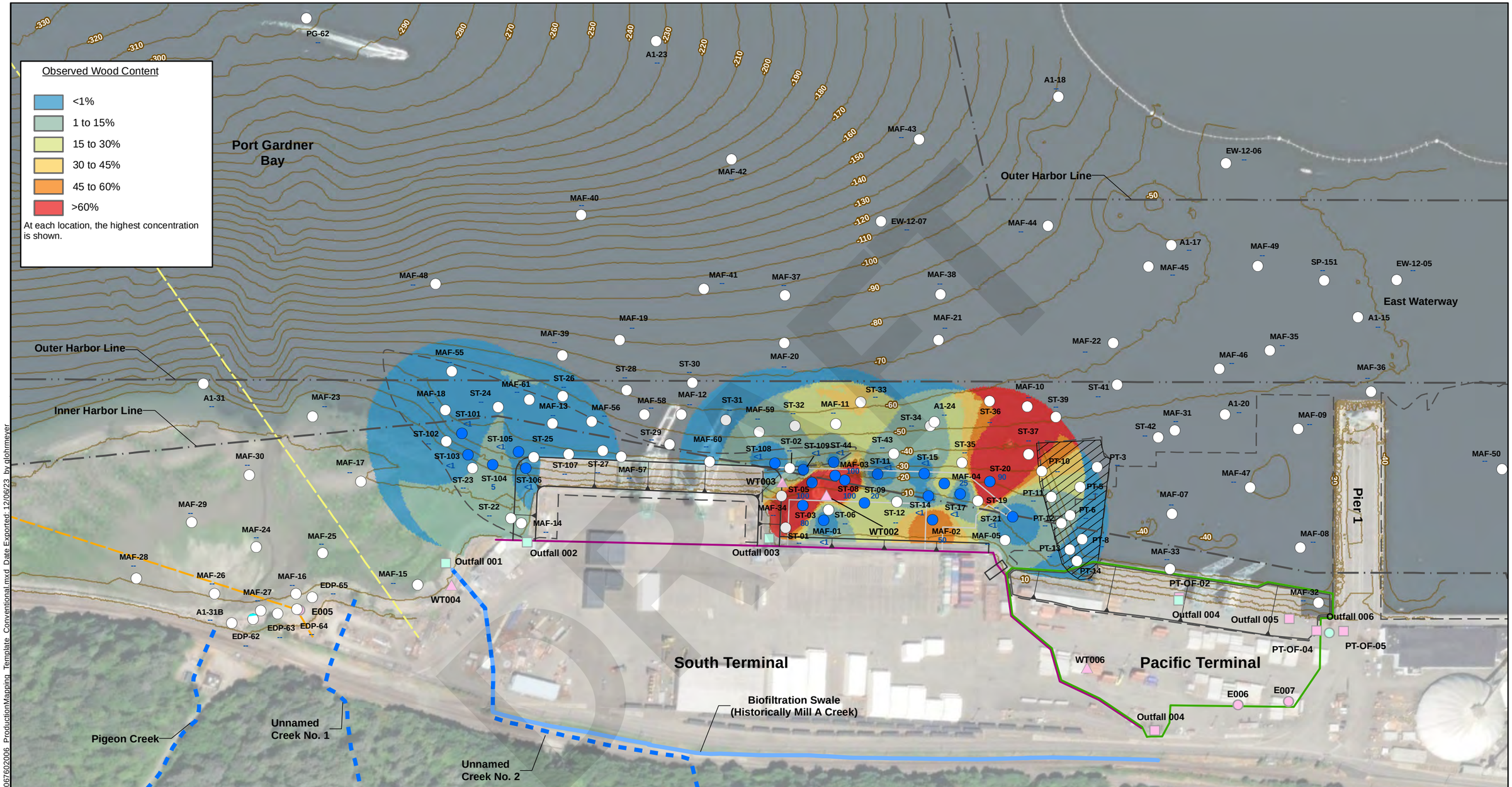
Observed Wood Content Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-7

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Notes:
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2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Observed Wood Content Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-8

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Observed Wood Content

- <1%
- 1 to 15%
- 15 to 30%
- 30 to 45%
- 45 to 60%
- >60%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

PT-OF-02

PT-OF-04

PT-OF-05

WT002

WT003

WT004

WT006

E005

E006

E007

EDP-62

EDP-63

EDP-64

EDP-65

PG-62

A1-23

A1-18

A1-17

A1-15

A1-20

A1-24

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 through MAF-60

ST-01 through ST-44

PT-3 through PT-14

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 10 20 30 40 50 60

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300 0 300

Feet

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification

1.22 Result

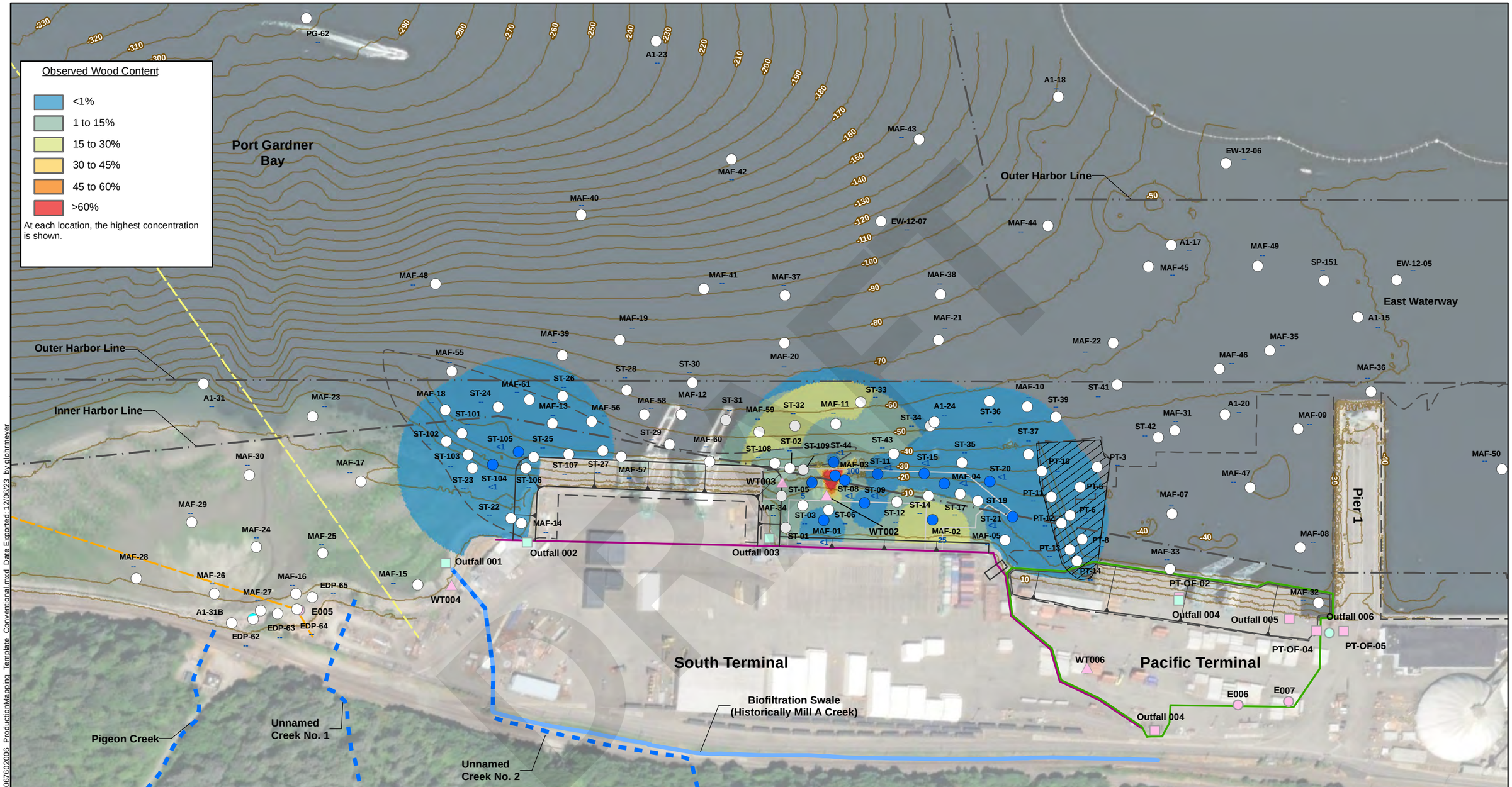
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Observed Wood Content Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-9



Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Observed Wood Content Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-10

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Observed Wood Content

- <1%
- 1 to 15%
- 15 to 30%
- 30 to 45%
- 45 to 60%
- >60%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62, A1-23, A1-18, EW-12-06, MAF-43, MAF-42, MAF-40, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, A1-15, MAF-55, MAF-20, MAF-22, MAF-35, MAF-46, MAF-36, A1-31, MAF-23, MAF-61, ST-26, ST-28, ST-30, MAF-10, ST-41, ST-39, MAF-18, ST-24, MAF-13, MAF-56, MAF-58, MAF-12, ST-31, MAF-59, ST-32, MAF-11, ST-33, A1-24, ST-36, A1-20, MAF-31, MAF-09, ST-101, ST-102, ST-105, ST-25, ST-29, MAF-60, ST-108, ST-02, ST-109, ST-44, ST-43, ST-34, ST-37, ST-42, MAF-30, MAF-17, ST-103, ST-107, ST-27, MAF-57, MAF-03, ST-11, ST-15, ST-35, PT-10, PT-3, MAF-50, ST-23, ST-104, ST-106, ST-05, ST-08, ST-09, MAF-04, ST-20, MAF-47, PT-11, PT-5, MAF-07, ST-22, MAF-14, ST-03, ST-06, ST-12, ST-14, ST-17, ST-19, MAF-34, ST-01, MAF-01, MAF-02, MAF-05, ST-21, PT-12, PT-6, MAF-29, MAF-24, MAF-25, MAF-28, MAF-26, MAF-16, MAF-15, EDP-65, MAF-27, E005, A1-31B, EDP-62, EDP-63, EDP-64, PT-13, PT-8, MAF-33, MAF-08, PT-14, PT-OF-02, MAF-32, PT-OF-04, PT-OF-05, E006, E007

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, -10, -40, -40, -50, -40, -30, -20, -10, -10, -40, -40, -50, -50, -60, -70, -80, -90, -100, -110, -120, -130, -140, -150, -160, -170, -180, -190, -200, -210, -220, -230, -240, -250, -260, -270, -280, -290, -300, -310, -320, -330

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N, NE, E, SE, S, SW, W, NW

300 0 300

Feet

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result

Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Observed Wood Content Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-11

Total Organic Carbon (TOC)

<0.5%

0.5 to 3.5%

3.5 to 5%

5 to 10%

10 to 15%

>15%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

Biofiltration Swale (Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

PG-62 -- | A1-23 -- | A1-18 1.12 | MAF-43 -- | MAF-42 -- | MAF-40 -- | EW-12-06 -- | EW-12-07 -- | MAF-44 -- | A1-17 -- | MAF-49 -- | MAF-45 -- | SP-151 -- | EW-12-05 -- | A1-15 0.32 | MAF-48 -- | MAF-41 -- | MAF-37 -- | MAF-38 -- | MAF-21 5.3 | MAF-19 -- | MAF-39 -- | MAF-20 0.94 | MAF-22 -- | MAF-35 -- | MAF-46 -- | MAF-36 -- | A1-31 -- | MAF-55 -- | ST-28 -- | ST-30 -- | ST-26 -- | MAF-61 -- | MAF-23 -- | MAF-18 -- | ST-24 -- | MAF-13 -- | MAF-56 0.56 | MAF-58 -- | MAF-12 3.95 | ST-31 -- | ST-33 -- | MAF-10 5.26 | ST-41 -- | ST-39 5.47 | A1-24 2.47 | ST-36 -- | MAF-59 -- | ST-32 -- | MAF-11 4.11 | ST-34 3.93 | A1-20 -- | MAF-31 -- | MAF-09 -- | ST-101 1.27 | ST-102 1.27 | ST-105 1.27 | ST-25 -- | ST-29 -- | MAF-60 -- | ST-02 -- | ST-109 | ST-44 -- | ST-43 -- | ST-108 -- | ST-37 -- | ST-42 -- | MAF-50 -- | ST-103 1.27 | ST-107 1.27 | MAF-57 1.75 | ST-27 -- | ST-35 -- | MAF-30 -- | MAF-17 -- | ST-23 -- | ST-104 1.27 | ST-106 1.27 | MAF-03 25.2 | ST-11 19.9 | ST-15 -- | ST-20 -- | PT-10 2.7 | PT-3 0.237 | MAF-47 -- | ST-05 -- | ST-08 -- | ST-09 -- | MAF-04 41.3 | PT-5 0.102 | PT-11 0.228 | MAF-07 -- | MAF-29 -- | ST-22 -- | MAF-34 -- | ST-03 -- | ST-06 -- | ST-12 -- | ST-14 -- | ST-17 -- | ST-19 -- | ST-21 -- | PT-6 0.109 | PT-12 7.76 | MAF-24 -- | MAF-14 -- | MAF-01 14.1 | MAF-02 28.6 | MAF-05 13.93 | PT-8 0.414 | MAF-08 -- | MAF-25 -- | PT-13 0.214 | MAF-33 -- | MAF-28 -- | PT-14 0.692 | PT-OF-02 | MAF-26 -- | MAF-16 -- | MAF-15 0.499 | EDP-65 -- | MAF-27 -- | MAF-32 -- | A1-31B -- | E005 | EDP-63 -- | EDP-64 -- | EDP-62 -- | PT-OF-04 | PT-OF-05 | E006 | E007

Scale: 300 0 300 Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result

Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification Result

Construction Berm
Historical Piling Area
Dredged Area
Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)

Bulkhead
Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
Historical Industrial Outfall (Abandoned)
Former Combined Sewer Outfall (CSO, Abandoned)
Former Stormwater Outfall (Abandoned)
Current CSO
Current Stormwater Outfall

Total Organic Carbon (TOC) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-12

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Total Organic Carbon (TOC)

<0.5%

0.5 to 3.5%

3.5 to 5%

5 to 10%

10 to 15%

>15%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18 1.12

A1-17

A1-15 0.32

A1-31

A1-31B

A1-24 7.1

A1-20

MAF-43

MAF-42

MAF-40

MAF-44

MAF-49

MAF-45

MAF-48

MAF-41

MAF-37

MAF-38

MAF-19

MAF-39

MAF-21 1.14

MAF-22

MAF-55

MAF-20

MAF-35

MAF-46

MAF-36

MAF-61

MAF-10

MAF-23

MAF-18

MAF-13

MAF-56 0.07

MAF-58 0.9

MAF-12 2.1

MAF-59 3.71

MAF-11 6.51

MAF-31

MAF-09

MAF-30

MAF-17

MAF-60

MAF-57 0.3

MAF-03 19.9

MAF-04 47.83

MAF-47

MAF-07

MAF-29

MAF-24

MAF-25

MAF-34

MAF-14

MAF-01

MAF-02

MAF-05

MAF-33

MAF-08

MAF-28

MAF-26

MAF-16

MAF-15

MAF-27

MAF-32

MAF-50

EW-12-06

EW-12-07

EW-12-05

SP-151

PT-OF-02

PT-OF-04

PT-OF-05

E005

E006

E007

EDP-65

EDP-64

EDP-63

EDP-62

ST-101 1.47

ST-102 1.47

ST-103 1.47

ST-104 1.47

ST-105 1.47

ST-107 1.47

ST-24

ST-26

ST-28

ST-30

ST-31

ST-32

ST-33

ST-34 3.93

ST-36

ST-39 5.47

ST-41

ST-42

ST-25

ST-27

ST-29

ST-02

ST-108

ST-109

ST-44

ST-43

ST-35

ST-37

ST-15

ST-20

ST-05

ST-08

ST-09

ST-14 44

ST-17

ST-19

ST-21

ST-03 46.9

ST-06

ST-12

ST-01

ST-22

ST-23

PT-3

PT-10

PT-5

PT-11

PT-6

PT-12

PT-8

PT-13

PT-14

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300

Feet

Notes:

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Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Organic Carbon (TOC) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-13

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Total Organic Carbon (TOC)

- <0.5%
- 0.5 to 3.5%
- 3.5 to 5%
- 5 to 10%
- 10 to 15%
- >15%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

PG-62 -- A1-23 -- A1-18 0.83 -- MAF-43 -- MAF-42 -- MAF-40 -- EW-12-06 -- EW-12-07 -- MAF-44 -- A1-17 -- MAF-49 -- MAF-45 -- SP-151 -- EW-12-05 -- A1-15 0.17 -- MAF-48 -- MAF-41 -- MAF-37 -- MAF-38 -- MAF-19 -- MAF-21 -- MAF-39 -- MAF-22 -- MAF-35 -- MAF-55 -- MAF-20 -- MAF-46 -- MAF-36 -- A1-31 -- MAF-23 -- ST-26 -- ST-28 -- ST-30 -- MAF-61 -- MAF-18 -- ST-24 -- MAF-12 -- MAF-58 -- ST-31 -- MAF-10 -- ST-41 -- ST-39 -- MAF-13 -- MAF-56 -- MAF-59 -- ST-32 -- MAF-11 -- ST-33 -- A1-24 7.1 -- ST-36 -- ST-34 -- MAF-31 -- A1-20 -- MAF-09 -- ST-42 -- ST-37 -- ST-35 -- ST-101 1.47 -- ST-102 1.47 -- ST-105 1.47 -- ST-25 -- ST-29 -- MAF-60 1.33 -- ST-02 6.11 -- ST-109 -- ST-44 15.9 -- ST-43 15.9 -- MAF-50 -- MAF-30 -- ST-103 1.47 -- ST-107 1.47 -- ST-27 -- MAF-57 -- ST-108 -- MAF-03 34.1 -- ST-11 -- ST-15 -- PT-10 -- PT-3 -- MAF-17 -- ST-23 -- ST-104 1.47 -- ST-106 1.38 -- MAF-04 52.5 -- ST-20 -- MAF-47 -- ST-05 -- ST-08 -- ST-09 -- PT-11 -- PT-5 -- MAF-07 -- ST-22 -- MAF-34 -- ST-03 46.9 -- ST-06 -- ST-12 44 -- ST-14 -- ST-17 -- ST-19 -- ST-21 -- PT-12 -- PT-6 -- MAF-14 -- MAF-01 12.4 -- MAF-02 13.8 -- MAF-05 15.2 -- PT-13 -- PT-8 -- MAF-08 -- MAF-29 -- MAF-24 -- MAF-25 -- MAF-33 -- PT-14 -- MAF-28 -- MAF-26 -- MAF-16 -- EDP-65 -- MAF-15 -- MAF-27 -- E005 -- A1-31B -- EDP-63 -- EDP-64 -- EDP-62 -- PT-OF-02 -- MAF-32 -- PT-OF-04 -- PT-OF-05 -- E006 -- E007

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300 Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Organic Carbon (TOC) Subsurface Sediment (4-6 ft)

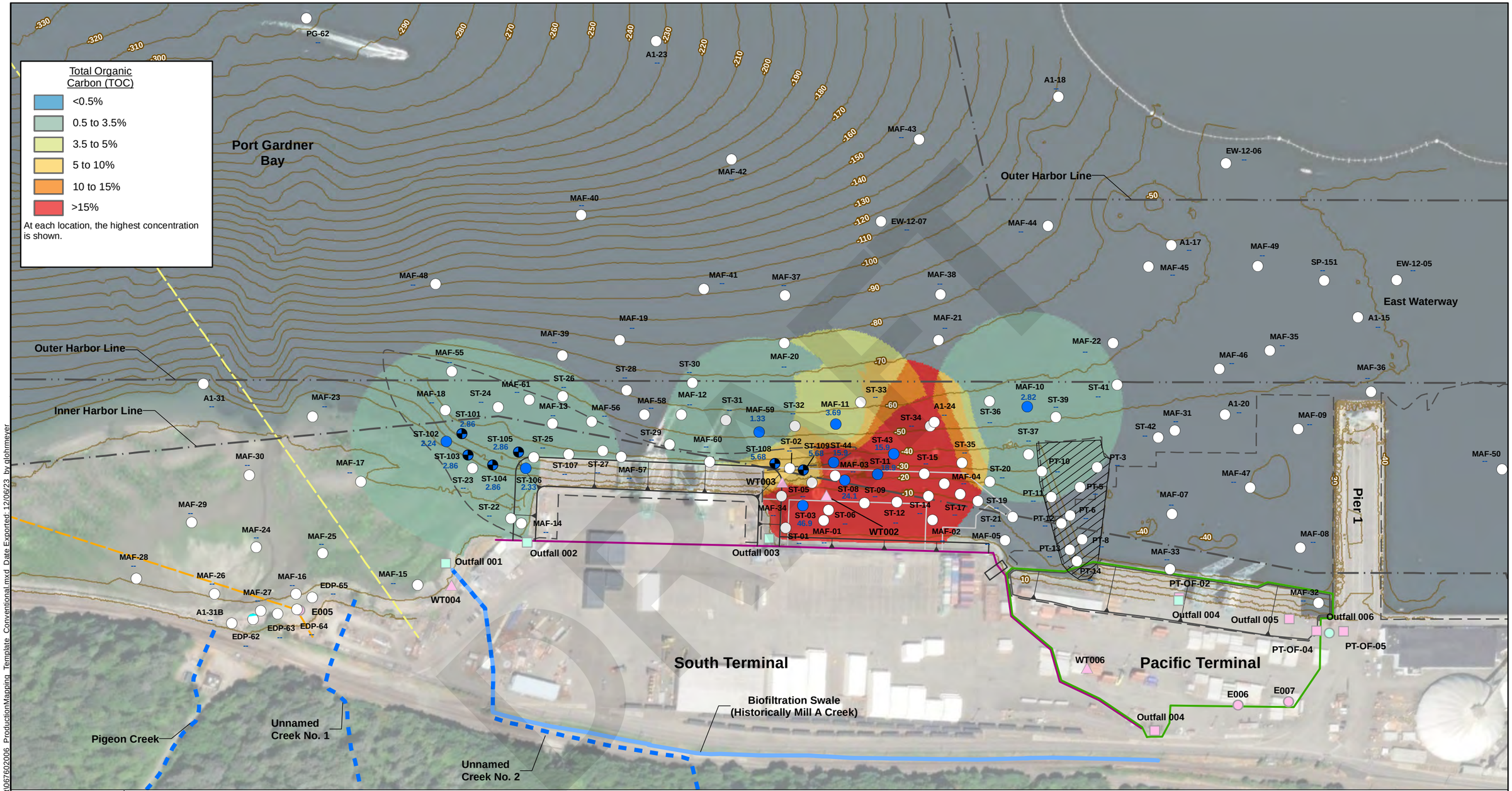
Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-14

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Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 / 1.22 — Sample Location Identification / Result

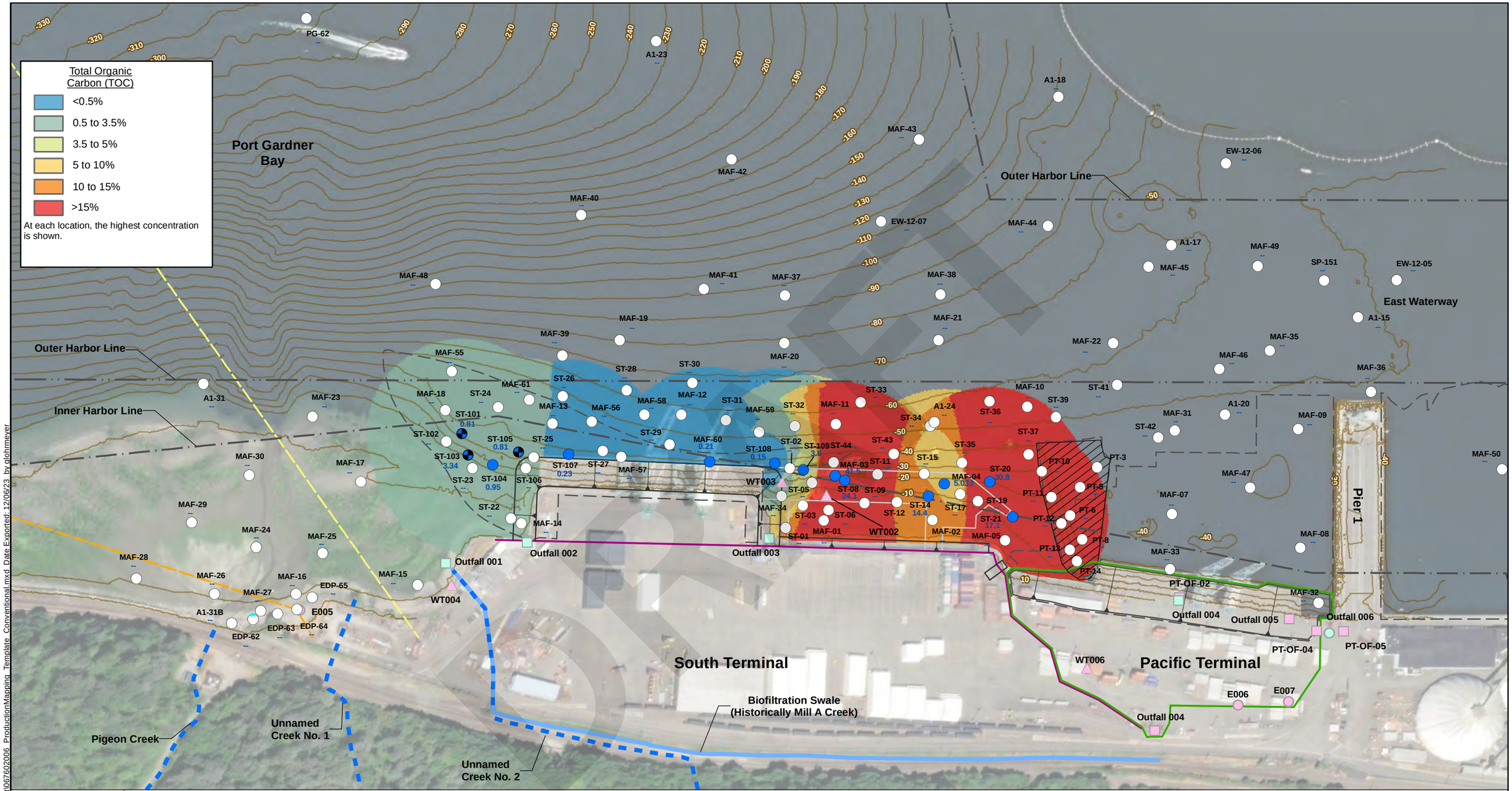
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Organic Carbon (TOC) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-15



Total Organic Carbon (TOC) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-16

Total Organic Carbon (TOC)

<0.5%

0.5 to 3.5%

3.5 to 5%

5 to 10%

10 to 15%

>15%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale (Historically Mill A Creek)

Unnamed Creek No. 1

Unnamed Creek No. 2

Pigeon Creek

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18

A1-17

A1-15

A1-20

A1-24

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01

MAF-02

MAF-03

MAF-04

MAF-05

MAF-06

MAF-07

MAF-08

MAF-09

MAF-10

MAF-11

MAF-12

MAF-13

MAF-14

MAF-15

MAF-16

MAF-17

MAF-18

MAF-19

MAF-20

MAF-21

MAF-22

MAF-23

MAF-24

MAF-25

MAF-26

MAF-27

MAF-28

MAF-29

MAF-30

MAF-31

MAF-32

MAF-33

MAF-34

MAF-35

MAF-36

MAF-37

MAF-38

MAF-39

MAF-40

MAF-41

MAF-42

MAF-43

MAF-44

MAF-45

MAF-46

MAF-47

MAF-48

MAF-49

MAF-50

MAF-55

MAF-56

MAF-57

MAF-58

MAF-59

MAF-60

MAF-61

ST-01

ST-02

ST-03

ST-05

ST-06

ST-08

ST-09

ST-10

ST-11

ST-12

ST-14

ST-15

ST-17

ST-19

ST-20

ST-21

ST-22

ST-23

ST-24

ST-25

ST-26

ST-27

ST-28

ST-29

ST-30

ST-31

ST-32

ST-33

ST-34

ST-35

ST-36

ST-37

ST-39

ST-41

ST-42

ST-43

ST-44

ST-101

ST-102

ST-103

ST-104

ST-105

ST-106

ST-107

ST-108

ST-109

PT-3

PT-5

PT-6

PT-8

PT-10

PT-11

PT-12

PT-13

PT-14

PT-OF-02

PT-OF-04

PT-OF-05

E005

E006

E007

EDP-62

EDP-63

EDP-64

EDP-65

0.81

0.81

2.9

0.23

0.09

24.1

14.4

17.1

30.8

1.22

-330

-320

-310

-300

-290

-280

-270

-260

-250

-240

-230

-220

-210

-200

-190

-180

-170

-160

-150

-140

-130

-120

-110

-100

-90

-80

-70

-60

-50

-40

-30

-20

-10

10

300 0 300

Feet

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification

1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

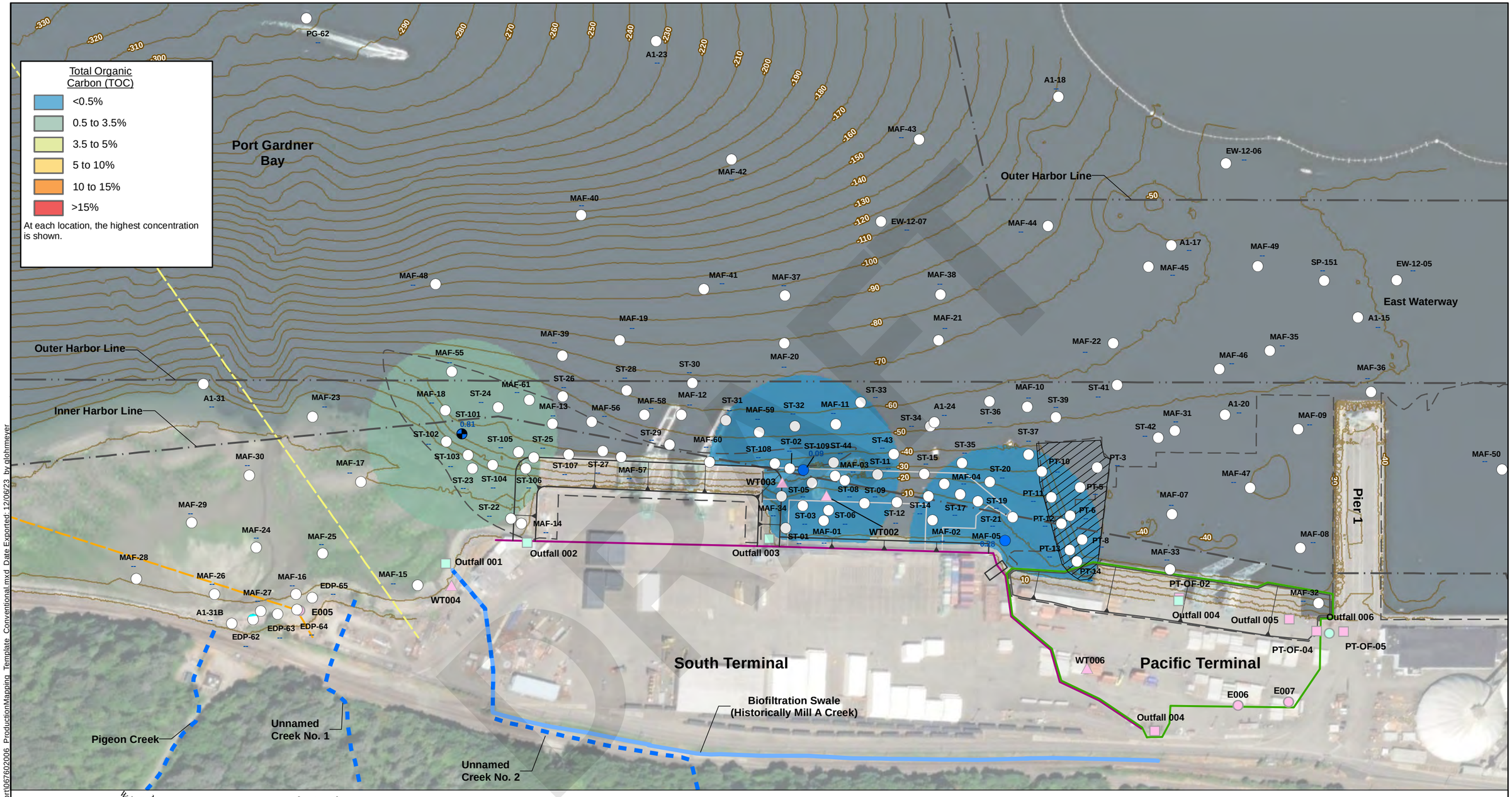
Total Organic Carbon (TOC) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-17

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Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result

Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Organic Carbon (TOC) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-18

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Total Organic Carbon (TOC)

- <0.5%
- 0.5 to 3.5%
- 3.5 to 5%
- 5 to 10%
- 10 to 15%
- >15%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

PG-62 A1-23 A1-18 MAF-43 MAF-42 MAF-40 EW-12-07 MAF-44 EW-12-06 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-39 MAF-21 A1-15 MAF-22 MAF-35 MAF-46 MAF-36 MAF-55 MAF-61 ST-26 ST-28 ST-30 MAF-20 A1-31 MAF-23 MAF-18 ST-24 MAF-13 MAF-56 MAF-58 MAF-12 ST-31 MAF-59 ST-32 MAF-11 ST-33 MAF-10 ST-41 ST-39 A1-24 ST-36 A1-20 MAF-31 MAF-09 ST-42 ST-37 ST-101 0.27 ST-102 ST-105 ST-25 ST-29 MAF-60 ST-108 ST-02 ST-109 ST-44 ST-43 ST-35 MAF-50 MAF-30 MAF-17 ST-103 ST-107 ST-27 MAF-57 MAF-03 ST-11 ST-15 ST-20 25.1 PT-10 PT-3 MAF-47 ST-23 ST-104 ST-106 MAF-04 PT-5 MAF-07 ST-22 ST-05 ST-08 ST-09 ST-19 PT-11 PT-6 MAF-29 MAF-14 ST-03 9.21 ST-06 ST-12 ST-14 ST-17 ST-21 PT-12 MAF-24 MAF-25 MAF-34 MAF-01 MAF-02 MAF-05 PT-8 MAF-08 MAF-28 MAF-26 MAF-16 EDP-65 MAF-15 MAF-27 E005 PT-13 MAF-33 PT-14 PT-OF-02 MAF-32 A1-31B EDP-62 EDP-63 EDP-64 PT-OF-04 PT-OF-05 E006 E007

300 0 300 Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result

Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

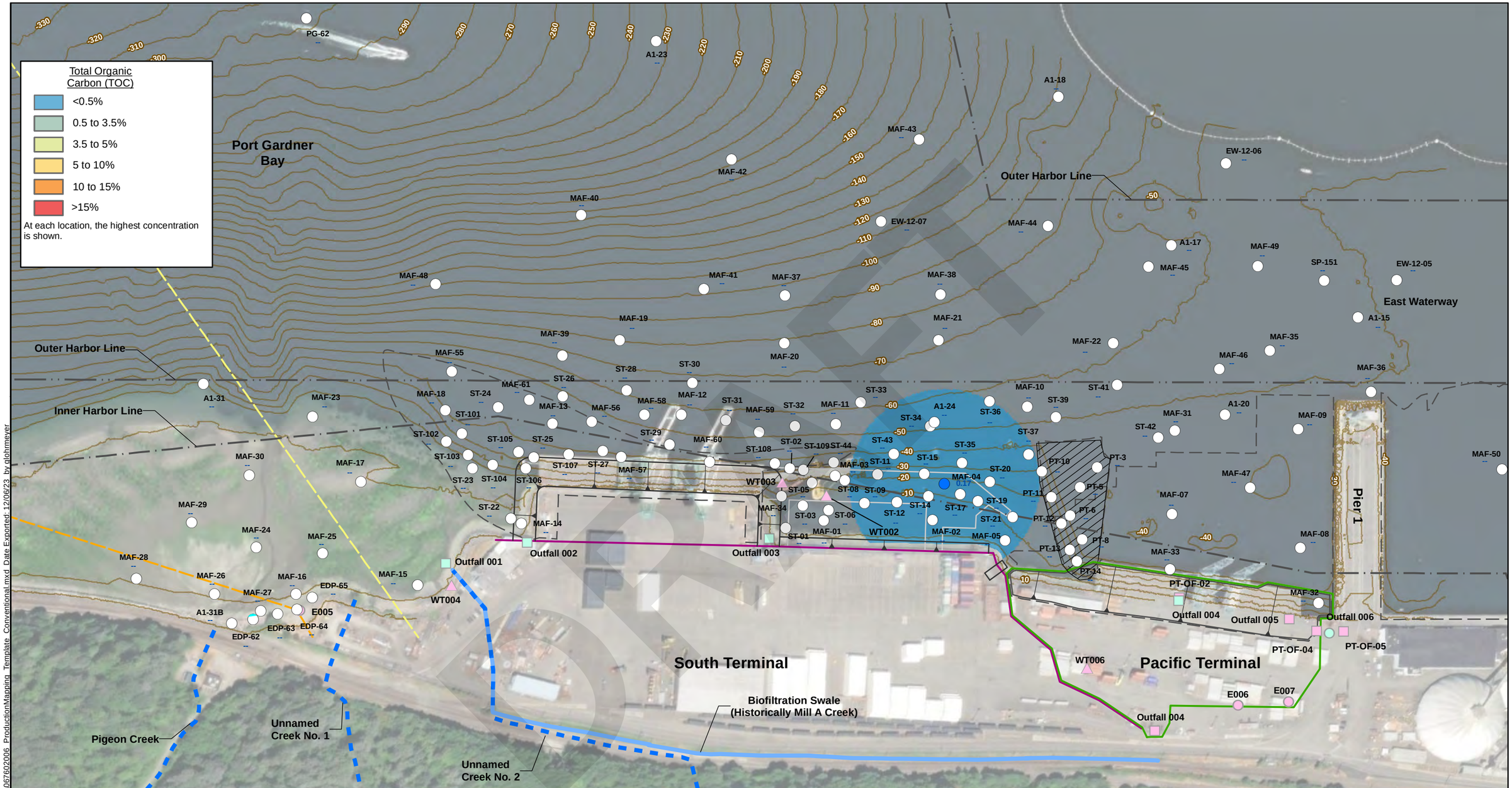
Total Organic Carbon (TOC) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-19

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Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

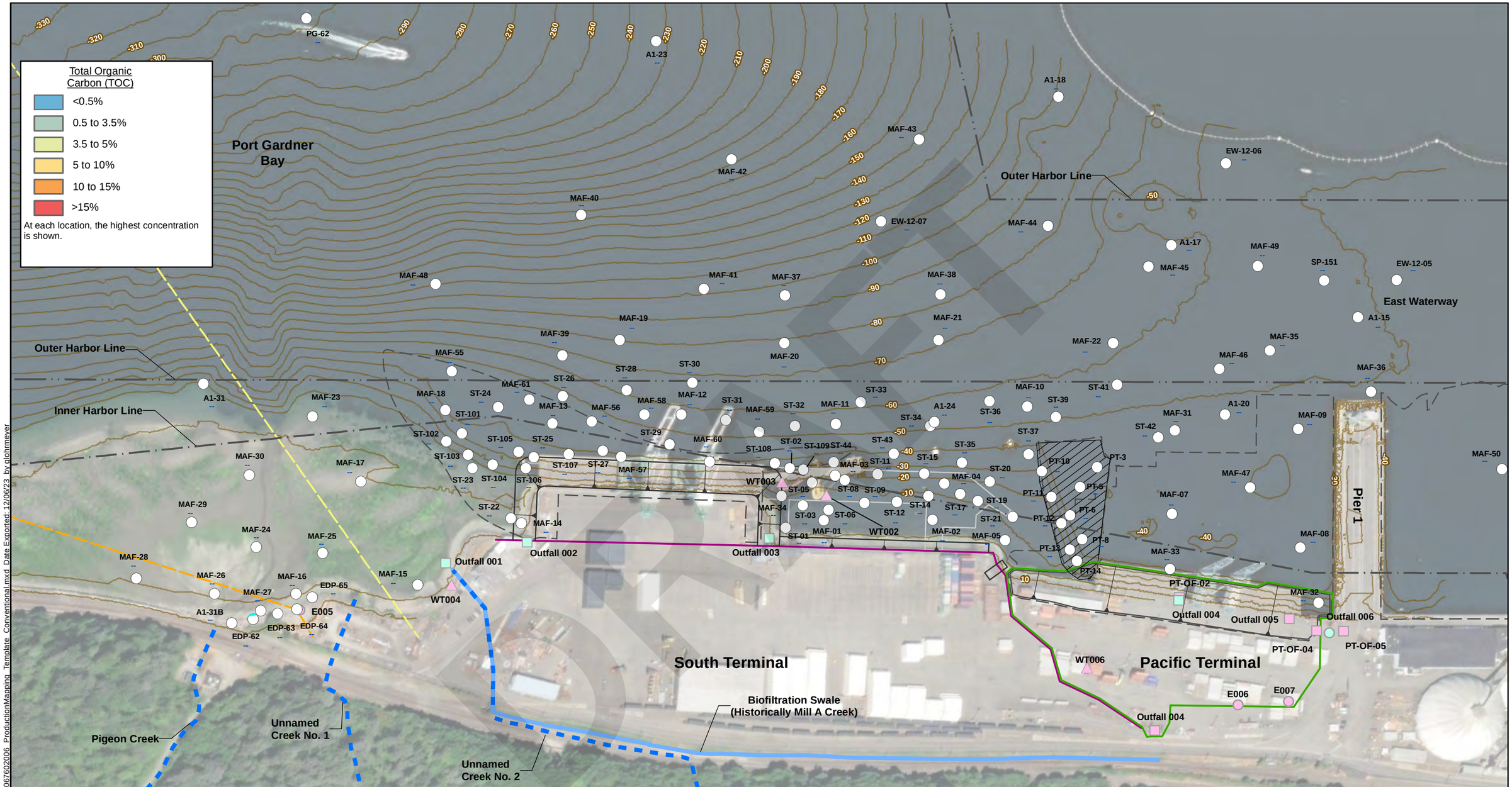
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Organic Carbon (TOC) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-20



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Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

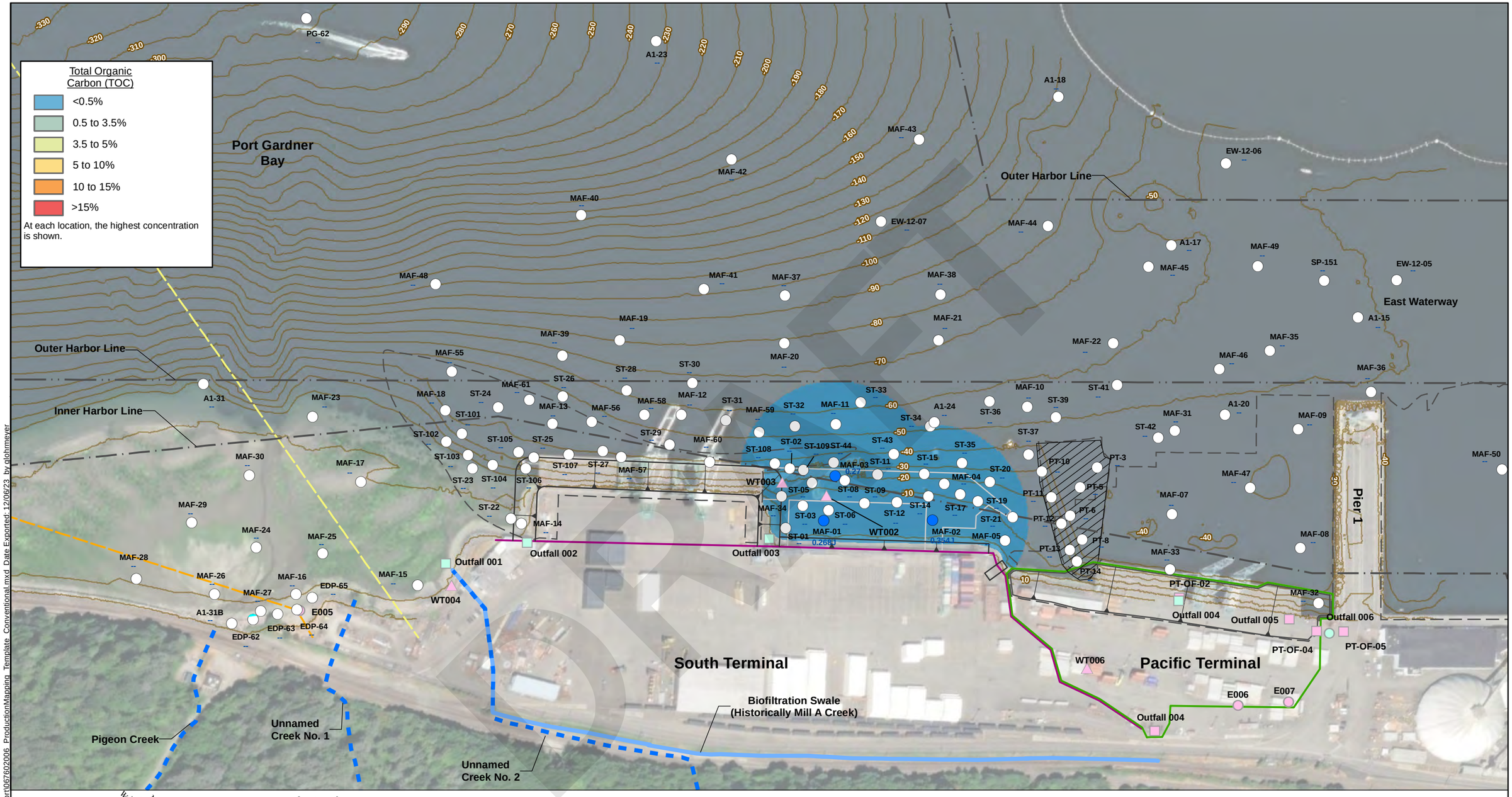
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Organic Carbon (TOC) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-21



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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Organic Carbon (TOC) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-22

Total Volatile Solids (TVS)
- <4%
- 4 to 8%
- 8 to 12%
- 12 to16%
- 16 to 20%
- >20%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

WT001 WT002 WT003 WT004 WT006

Outfall 001 Outfall 002 Outfall 003 Outfall 004 Outfall 005 Outfall 006

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

PG-62 A1-23 A1-18 3.79 MAF-43 MAF-42 MAF-40 EW-12-06 EW-12-07 MAF-44 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 A1-15 1.77 MAF-35 MAF-46 MAF-36 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-39 MAF-21 12.73 MAF-22 MAF-20 3.98 MAF-55 ST-30 ST-28 ST-26 MAF-61 MAF-18 ST-24 MAF-13 MAF-56 1.53 MAF-58 MAF-12 12.03 ST-31 MAF-59 ST-32 MAF-11 18.25 ST-33 A1-24 18.21 ST-34 ST-36 MAF-10 17.04 ST-39 ST-41 A1-31 MAF-23 ST-101 3.83 ST-102 3.83 ST-105 3.83 ST-25 ST-29 MAF-60 ST-108 ST-02 ST-109 ST-44 ST-43 ST-35 ST-37 MAF-31 A1-20 MAF-09 ST-42 MAF-30 MAF-17 ST-103 3.83 ST-104 3.83 ST-106 3.83 ST-107 3.83 ST-27 MAF-57 2.34 MAF-03 57.55 ST-11 ST-15 ST-20 MAF-04 52.04 PT-10 5.08 PT-3 1.24 PT-5 2.09 PT-11 1.01 MAF-07 MAF-47 MAF-50 ST-23 ST-05 ST-08 ST-09 ST-19 MAF-29 ST-22 MAF-34 ST-03 ST-06 ST-12 ST-14 ST-17 ST-21 PT-6 2.90 PT-12 10.37 MAF-14 MAF-24 MAF-25 ST-01 MAF-01 16.28 MAF-02 43.43 MAF-05 26.26 PT-8 2.07 PT-13 0.88 MAF-08 MAF-28 MAF-26 MAF-16 MAF-15 2.81 MAF-27 EDP-65 E005 A1-31B EDP-63 EDP-64 EDP-62 PT-14 2.73 MAF-33 PT-OF-02 MAF-32 Outfall 004 Outfall 005 Outfall 006 PT-OF-04 PT-OF-05 WT006 E006 E007 Outfall 004

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300 Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result

Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Volatile Solids (TVS) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former Everett, Washington

GeoEngineers

Figure Q-23

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Total Volatile Solids (TVS)

- <4%
- 4 to 8%
- 8 to 12%
- 12 to16%
- 16 to 20%
- >20%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

Biofiltration Swale (Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

300 0 300

Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

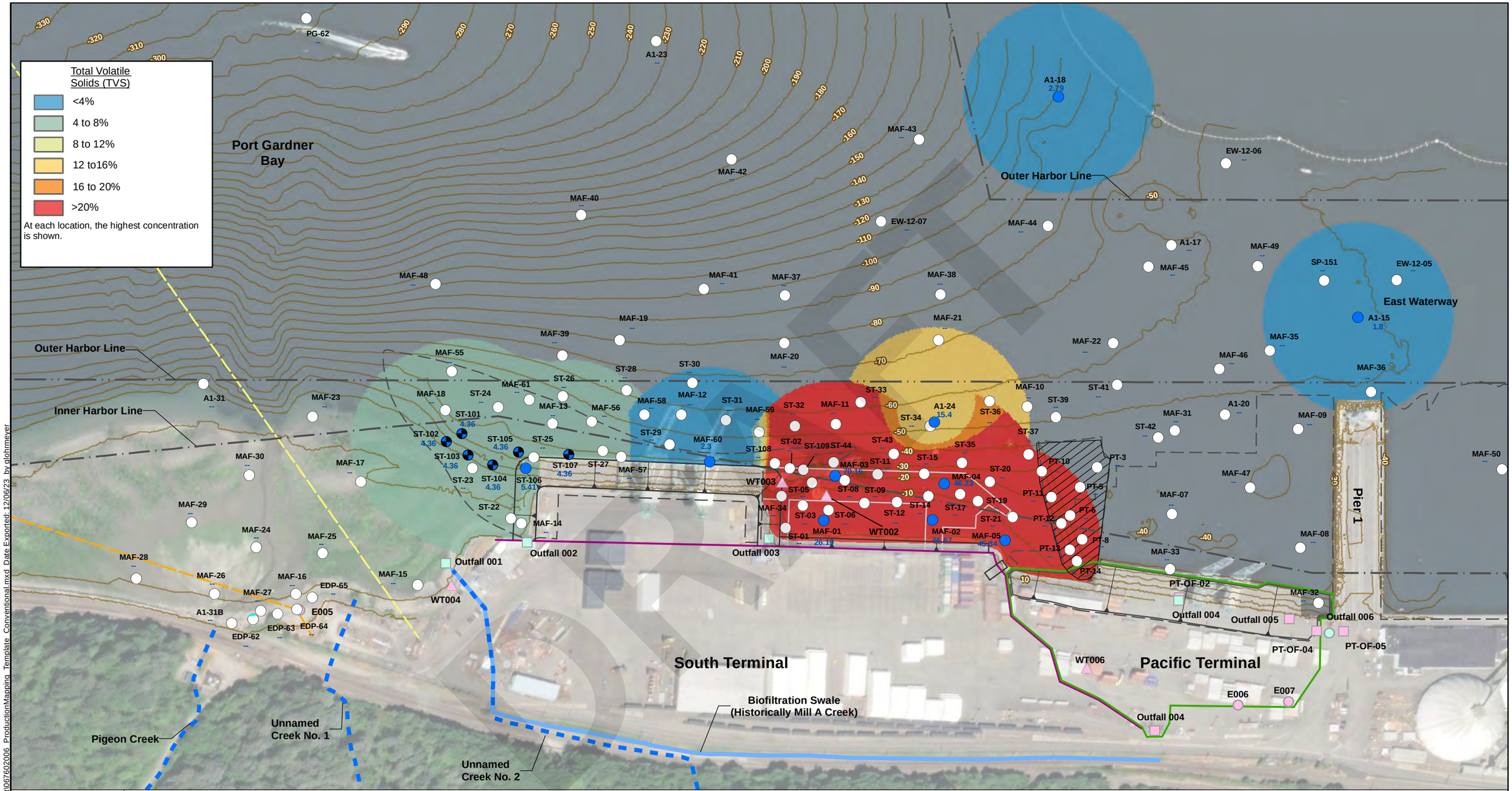
Total Volatile Solids (TVS) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-24

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Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

300 0 300
Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result

Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Volatile Solids (TVS) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-25

Total Volatile Solids (TVS)

- <4%
- 4 to 8%
- 8 to 12%
- 12 to16%
- 16 to 20%
- >20%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale (Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, A1-15, MAF-55, MAF-20, MAF-22, MAF-35, MAF-46, MAF-36, A1-31, MAF-23, MAF-18, ST-24, ST-26, MAF-61, ST-28, ST-30, MAF-12, MAF-58, MAF-56, MAF-13, ST-31, MAF-59 3.39, ST-32, MAF-11 8.24, ST-33, MAF-10 5.95, ST-41, ST-39, A1-24, ST-36, ST-34, A1-20, MAF-31, MAF-09, ST-42, ST-37, ST-101 4.98, ST-102, ST-105 4.98, ST-25, ST-29, MAF-60, ST-108 15.66, ST-02, ST-109 15.66, ST-44, ST-43, ST-35, MAF-50, MAF-30, MAF-17, ST-103 4.98, ST-107, ST-27, MAF-57, MAF-03, ST-11, ST-15, ST-20, PT-10, PT-3, MAF-47, ST-23, ST-104 4.98, ST-106 6.65, WT003, MAF-04, ST-05, ST-08, ST-09, PT-5, PT-11, MAF-07, MAF-29, ST-22, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-19, ST-21, PT-12, PT-6, MAF-14, ST-01, MAF-01, WT002, MAF-02, MAF-05, PT-8, MAF-08, MAF-24, MAF-25, PT-13, MAF-33, PT-14, MAF-28, MAF-26, MAF-16, MAF-15, EDP-65, MAF-27, E005, A1-31B, EDP-63, EDP-64, EDP-62, Outfall 001, Outfall 002, Outfall 003, WT004, PT-OF-02, MAF-32, Outfall 004, Outfall 005, Outfall 006, PT-OF-04, PT-OF-05, WT006, E006, E007, Outfall 004

300 0 300

Feet

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

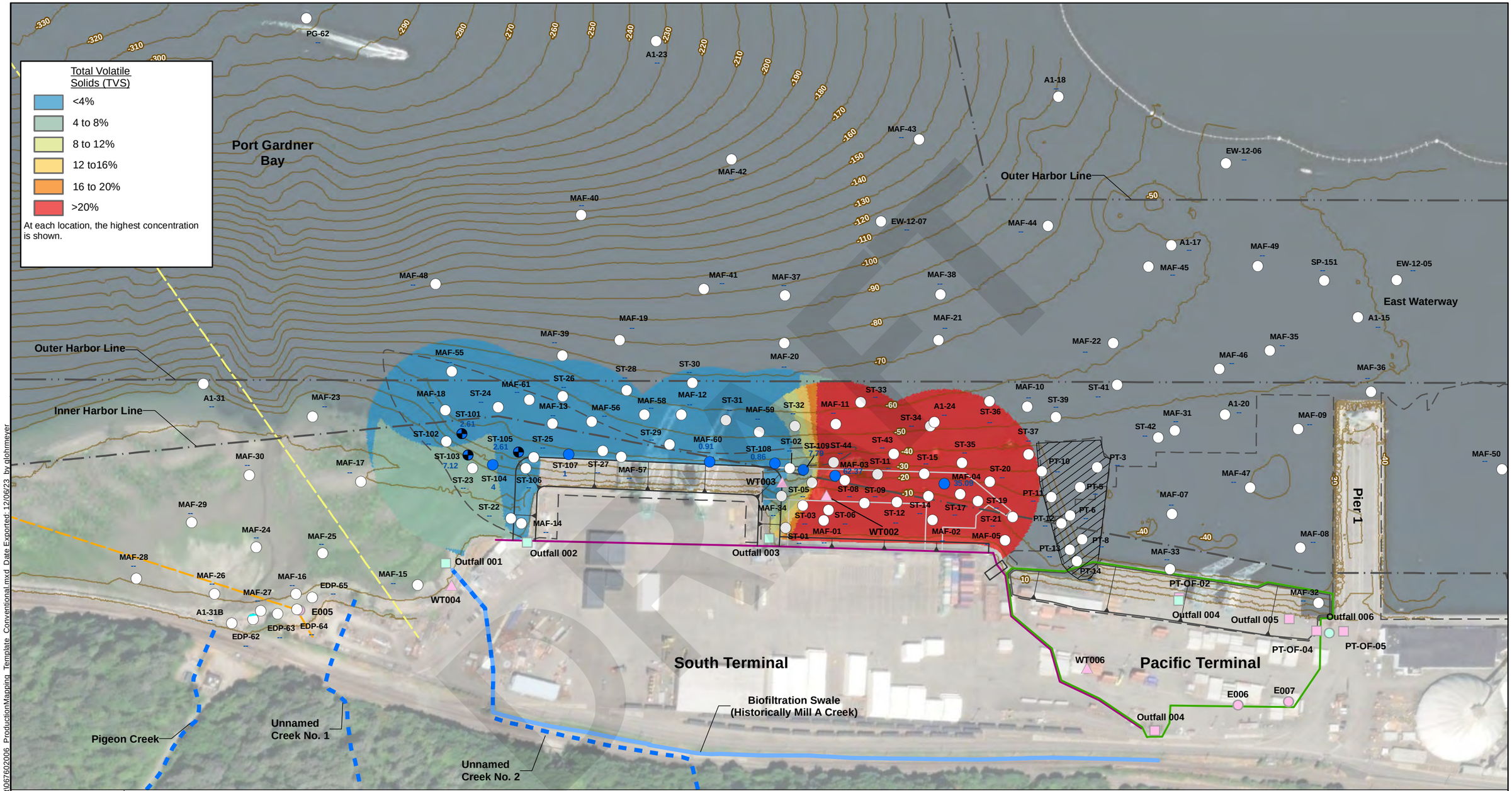
Total Volatile Solids (TVS) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-26

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Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 / 1.22 — Sample Location Identification / Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Volatile Solids (TVS) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-27

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Total Volatile Solids (TVS)

- <4%
- 4 to 8%
- 8 to 12%
- 12 to16%
- 16 to 20%
- >20%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale (Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

E005

E006

E007

PG-62

A1-23

A1-18

A1-17

A1-15

A1-20

A1-24

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 through MAF-60

ST-01 through ST-44

PT-3 through PT-14

PT-OF-02

PT-OF-04

PT-OF-05

EDP-62 through EDP-65

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 10 20 30 40 50

300 0 300

Feet

Notes:

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Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Volatile Solids (TVS) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-28

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Total Volatile Solids (TVS)

- <4%
- 4 to 8%
- 8 to 12%
- 12 to16%
- 16 to 20%
- >20%

At each location, the highest concentration is shown.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

E005

E006

E007

PG-62, A1-23, A1-18, EW-12-06, MAF-43, MAF-42, MAF-40, EW-12-07, MAF-44, A1-17, MAF-49, SP-151, EW-12-05, MAF-45, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, A1-15, MAF-22, MAF-35, MAF-46, MAF-36, MAF-20, MAF-55, ST-30, ST-28, ST-26, MAF-61, MAF-18, ST-24, MAF-13, MAF-56, MAF-58, MAF-12, ST-31, ST-33, MAF-10, ST-41, ST-39, A1-31, MAF-23, MAF-59, ST-32, MAF-11, A1-24, ST-36, A1-20, MAF-31, MAF-09, ST-101, 2.61, ST-102, ST-105, ST-25, ST-29, MAF-60, ST-108, ST-02, ST-109, 0.86, ST-44, ST-43, ST-35, ST-37, ST-42, MAF-50, MAF-30, MAF-17, ST-103, ST-107, ST-27, MAF-57, MAF-03, ST-11, ST-15, ST-20, PT-10, PT-3, MAF-47, ST-23, ST-104, ST-106, WT003, ST-05, ST-08, ST-09, MAF-04, PT-11, PT-5, MAF-07, MAF-29, ST-22, MAF-14, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-19, ST-21, PT-12, PT-6, MAF-24, MAF-25, MAF-01, ST-01, WT002, MAF-02, MAF-05, 2.65, PT-13, PT-8, MAF-08, MAF-28, MAF-33, PT-14, MAF-26, MAF-16, MAF-15, EDP-65, MAF-27, PT-OF-02, MAF-32, A1-31B, EDP-63, EDP-64, EDP-62, PT-OF-04, PT-OF-05, E006, E007

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 10, 20, 30, 40, 50

300 0 300

Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

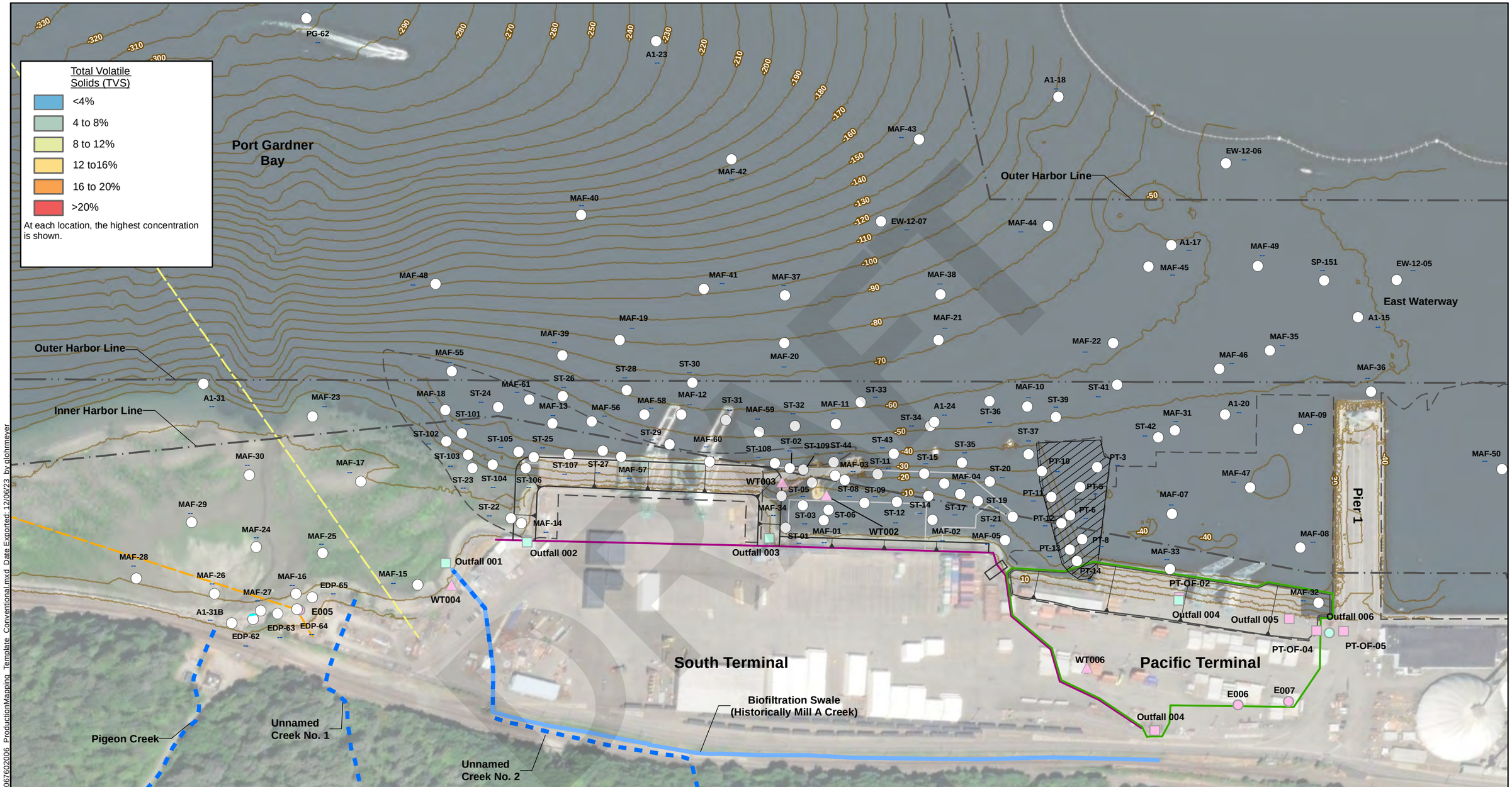
Total Volatile Solids (TVS) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-29

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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

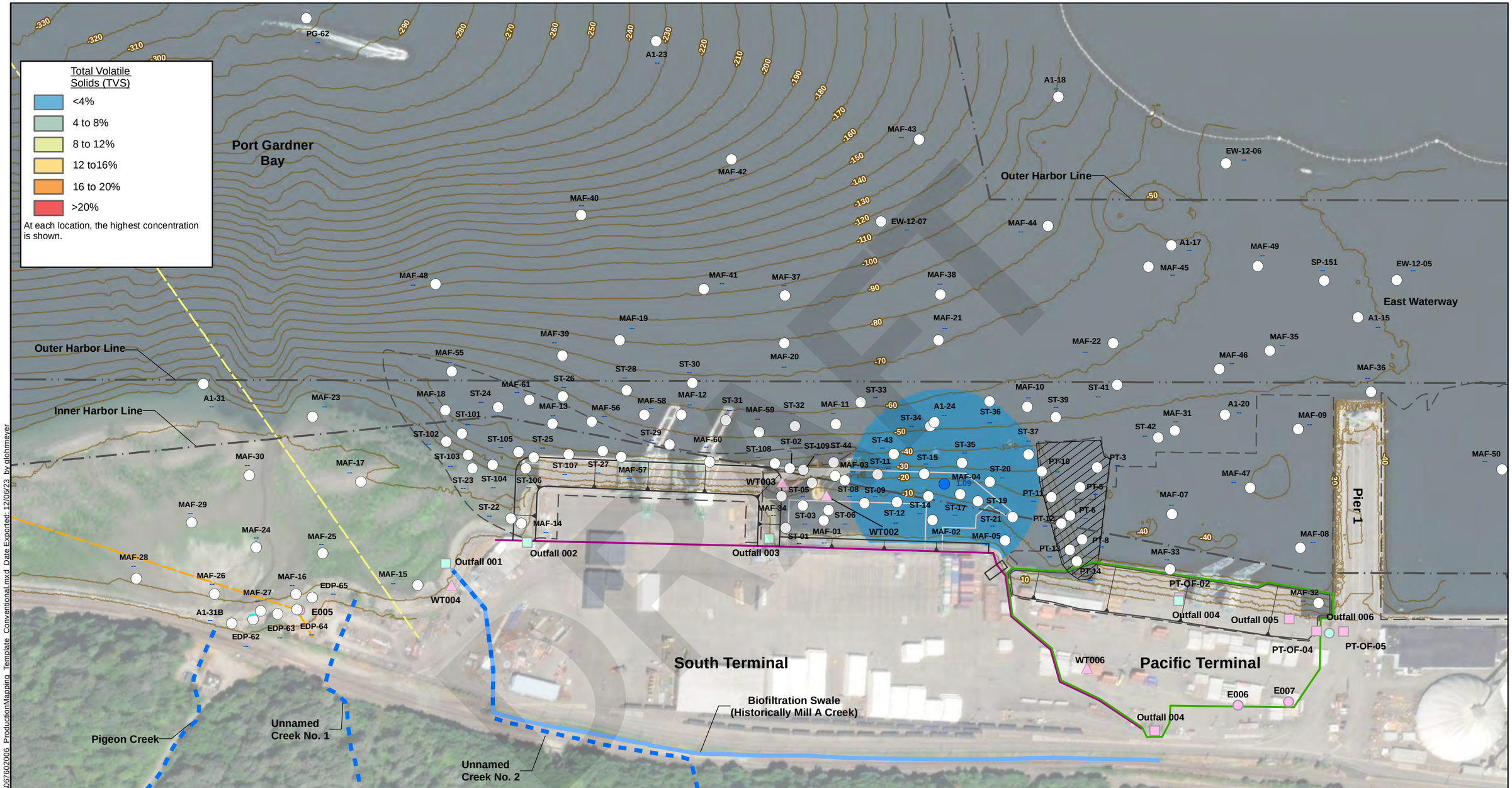
MAF-01 Sample Location Identification
1.22 Result
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Volatile Solids (TVS) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-30



DRAFT

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300 0 300
Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

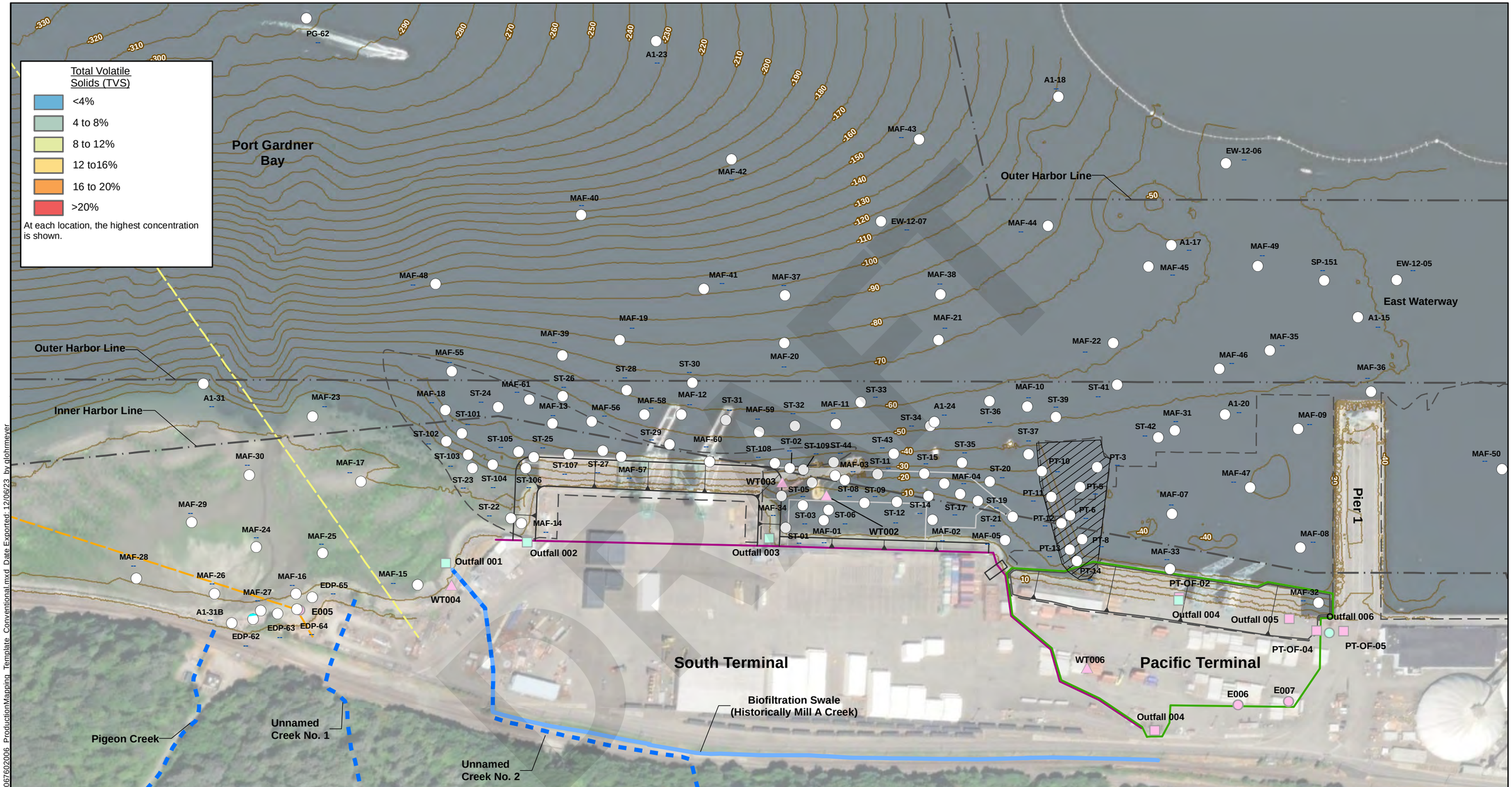
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Volatile Solids (TVS) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-31



Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

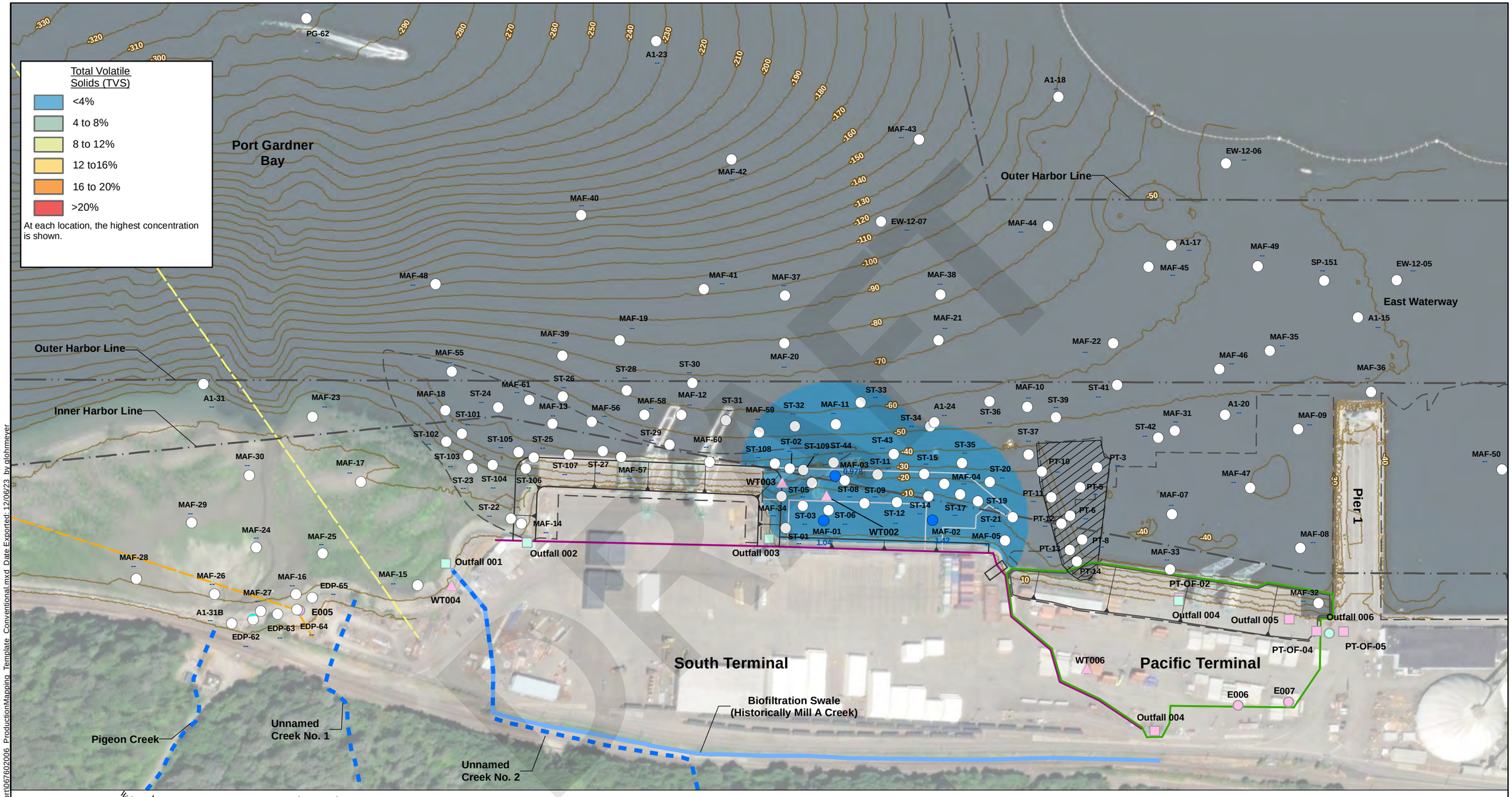
Total Volatile Solids (TVS) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-32

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300 0 300
Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result

Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

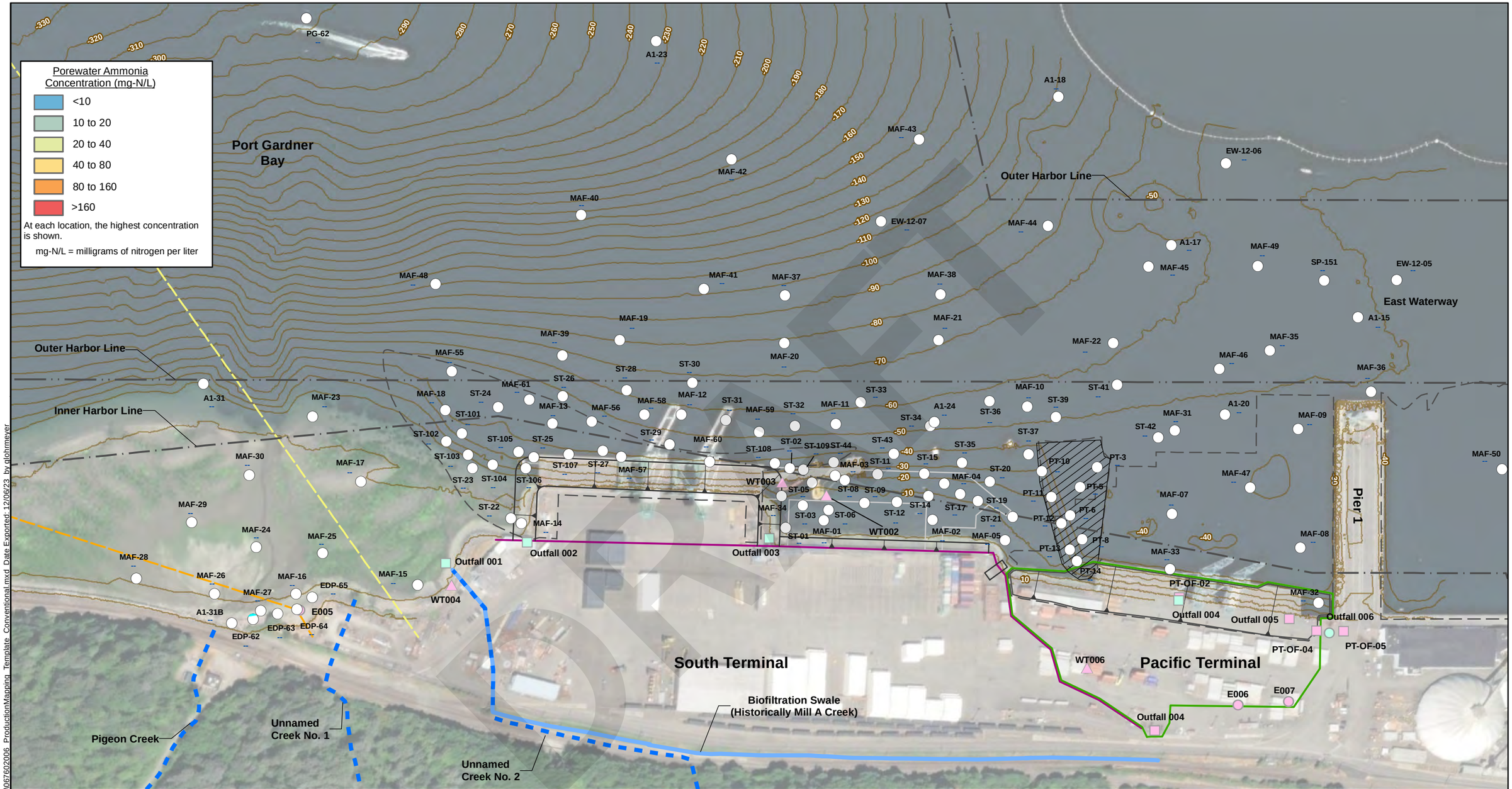
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Volatile Solids (TVS) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-33



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N W E S

300 0 300

Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

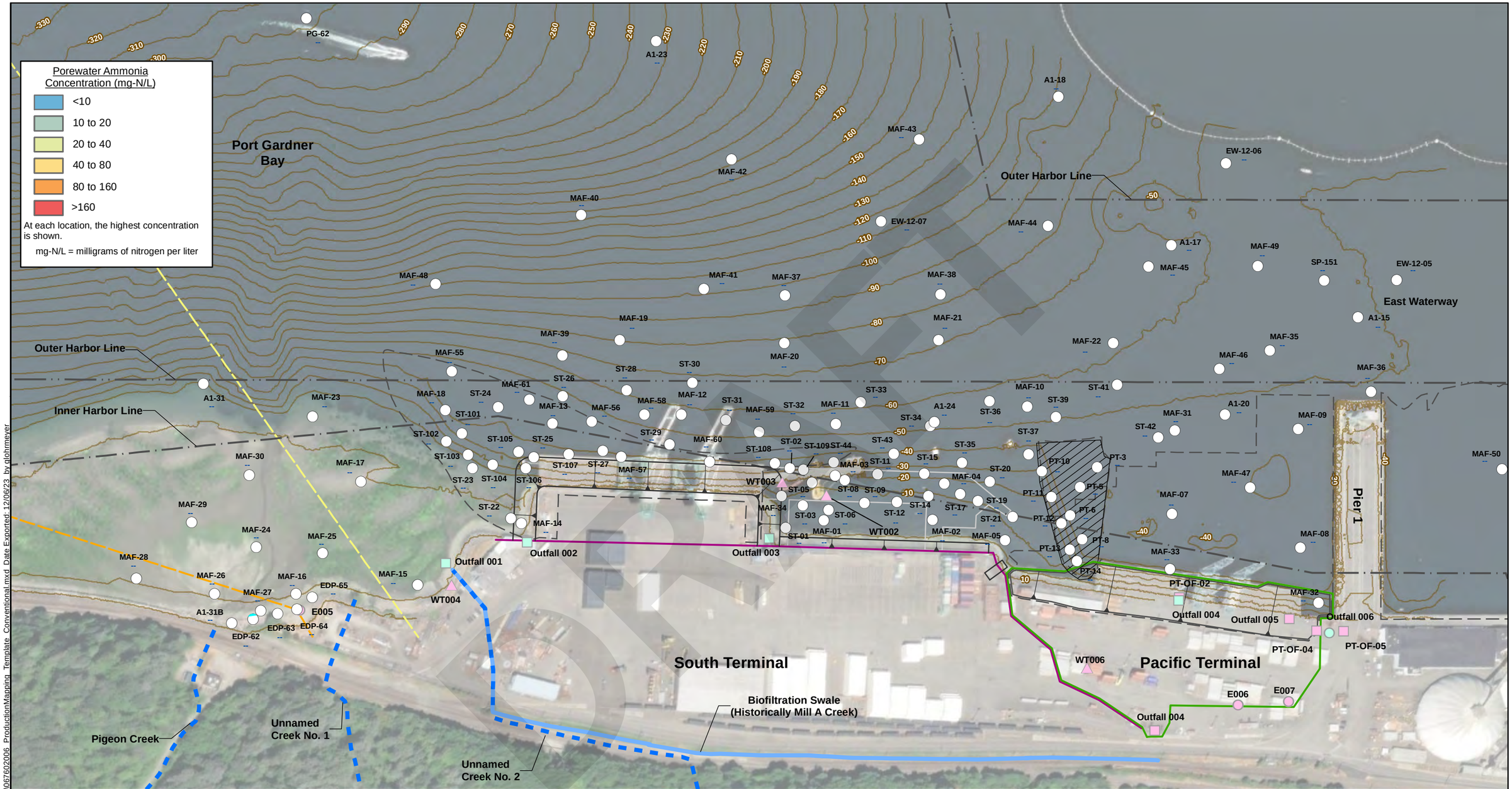
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Ammonia Concentration Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-34



Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Ammonia Concentration Subsurface Sediment (2-4 ft)

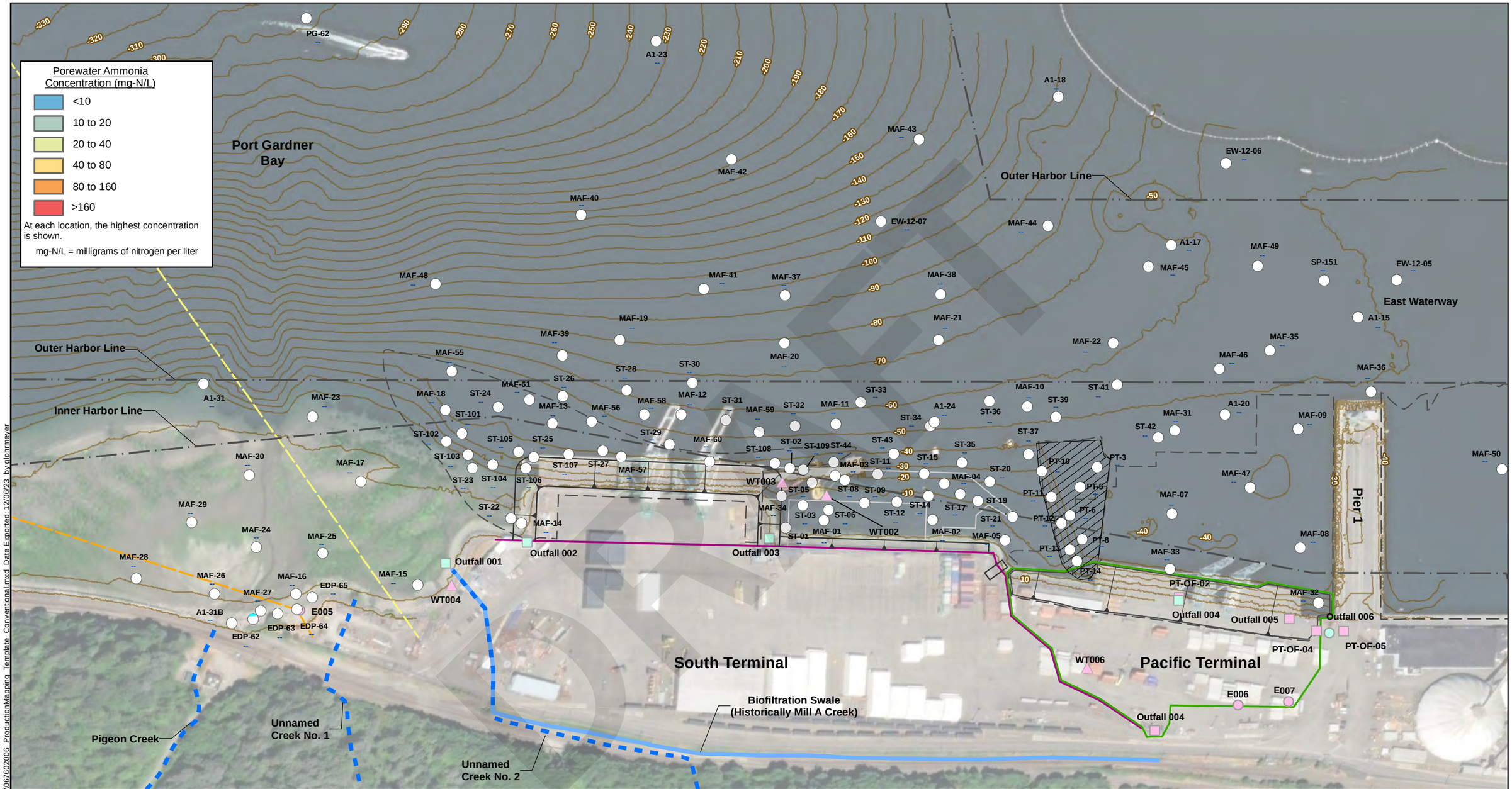
Weyerhaeuser Mill A Former
Everett, Washington

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Figure Q-35

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Ammonia Concentration Subsurface Sediment (4-6 ft)

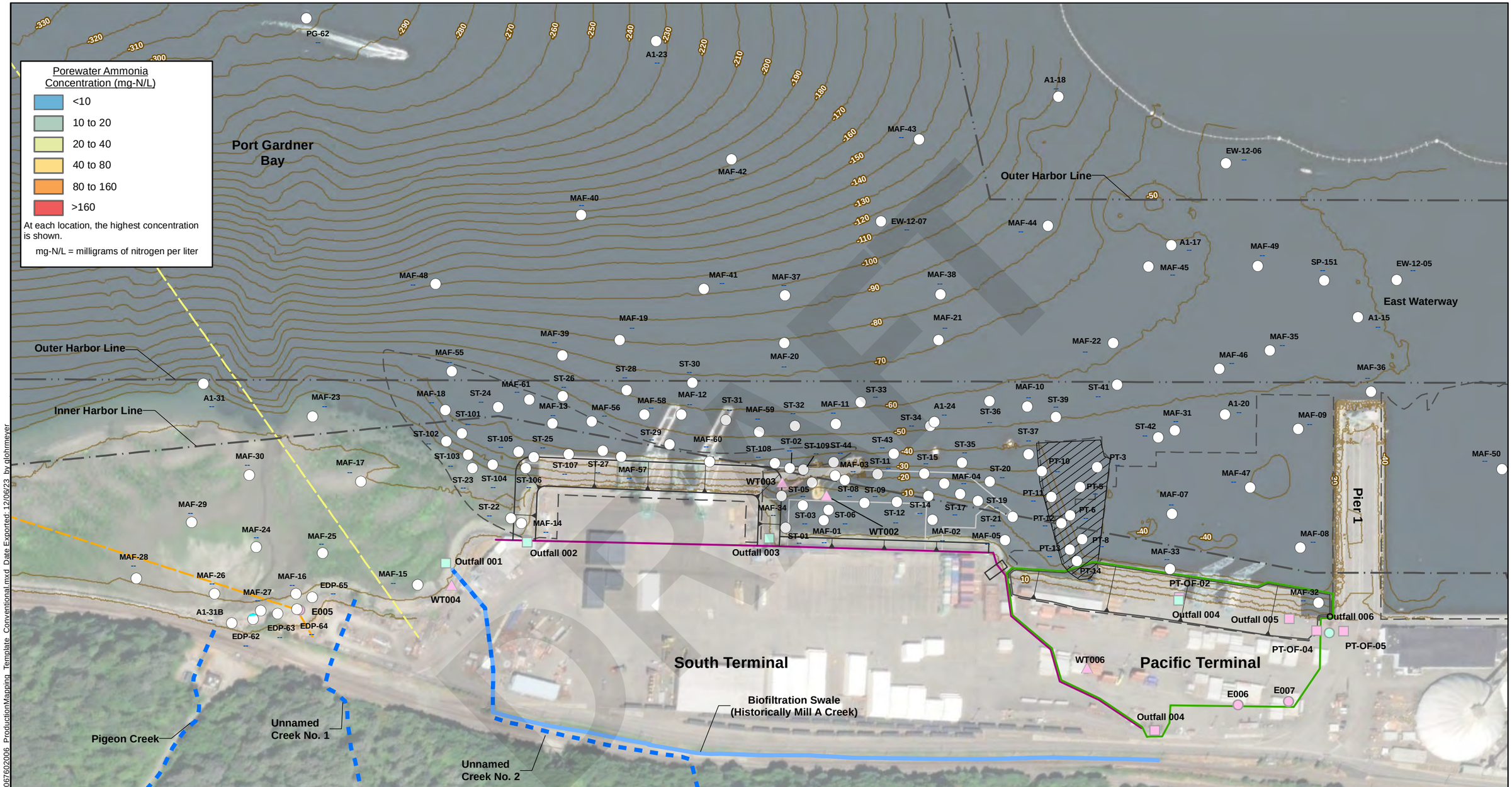
Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-36

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300 0 300
Feet

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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

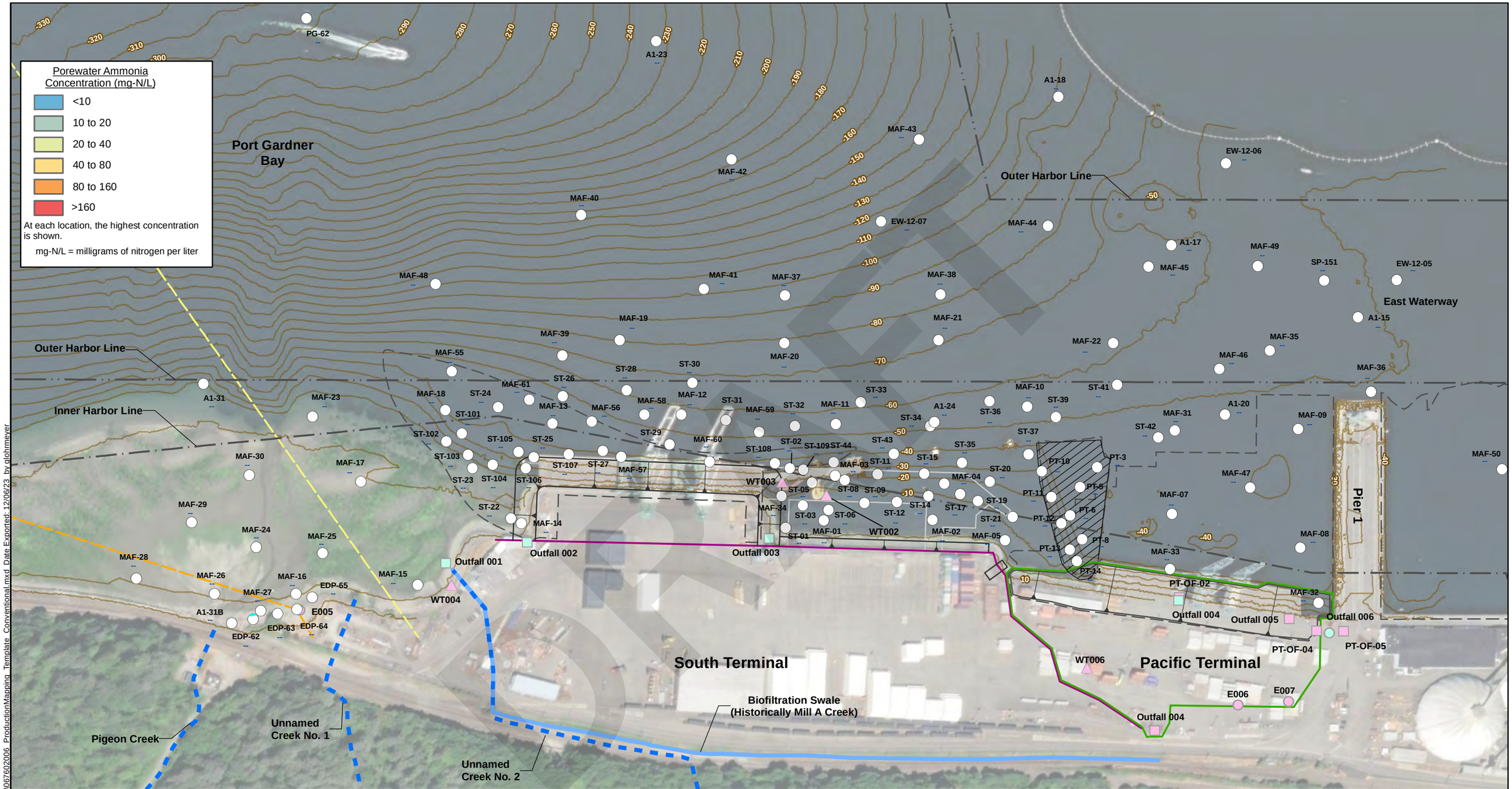
- Construction Berm
- Historical Piling Area
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- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Ammonia Concentration Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-37



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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

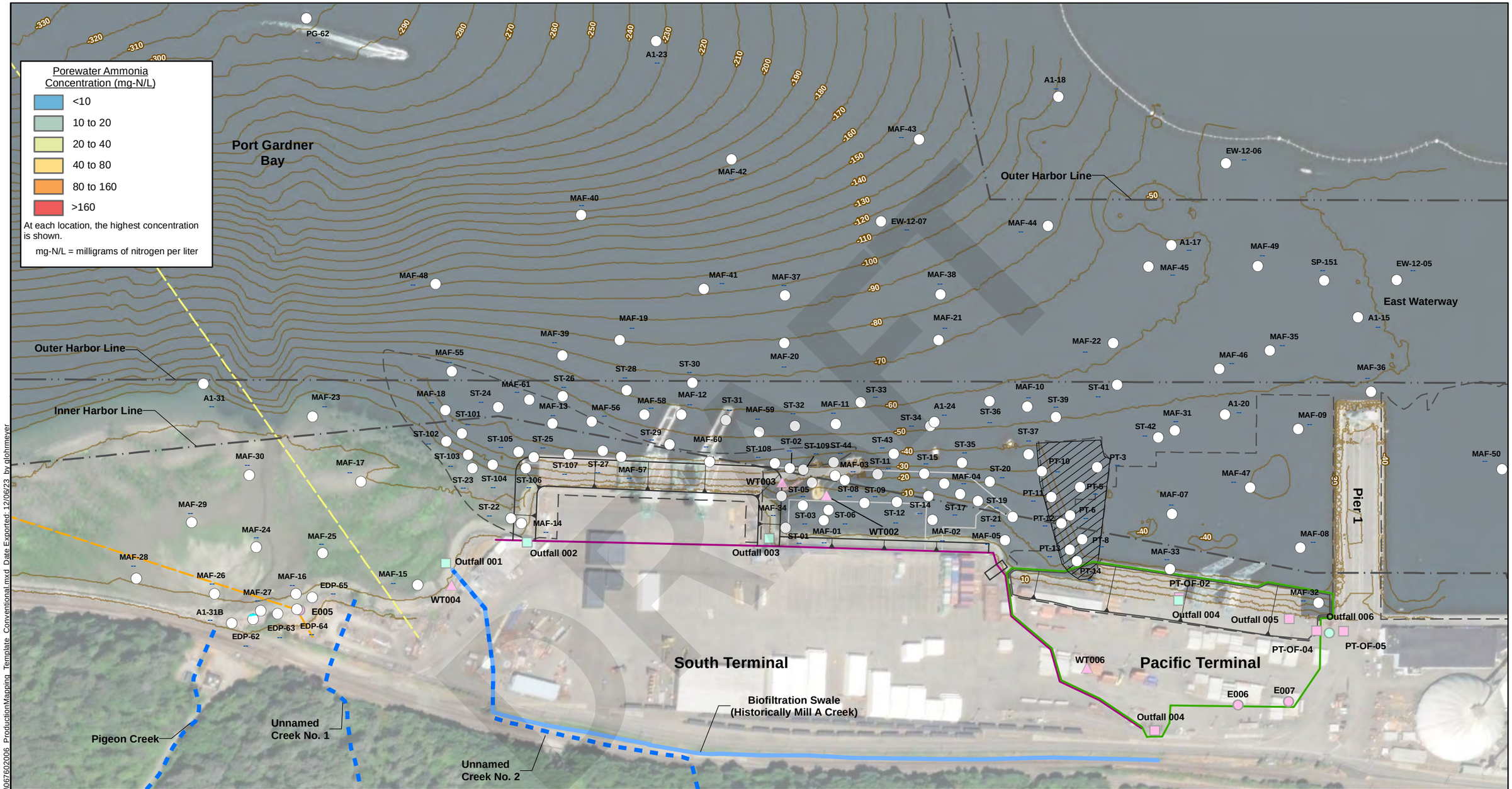
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Ammonia Concentration Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-38



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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
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- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Ammonia Concentration Subsurface Sediment (10-12 ft)

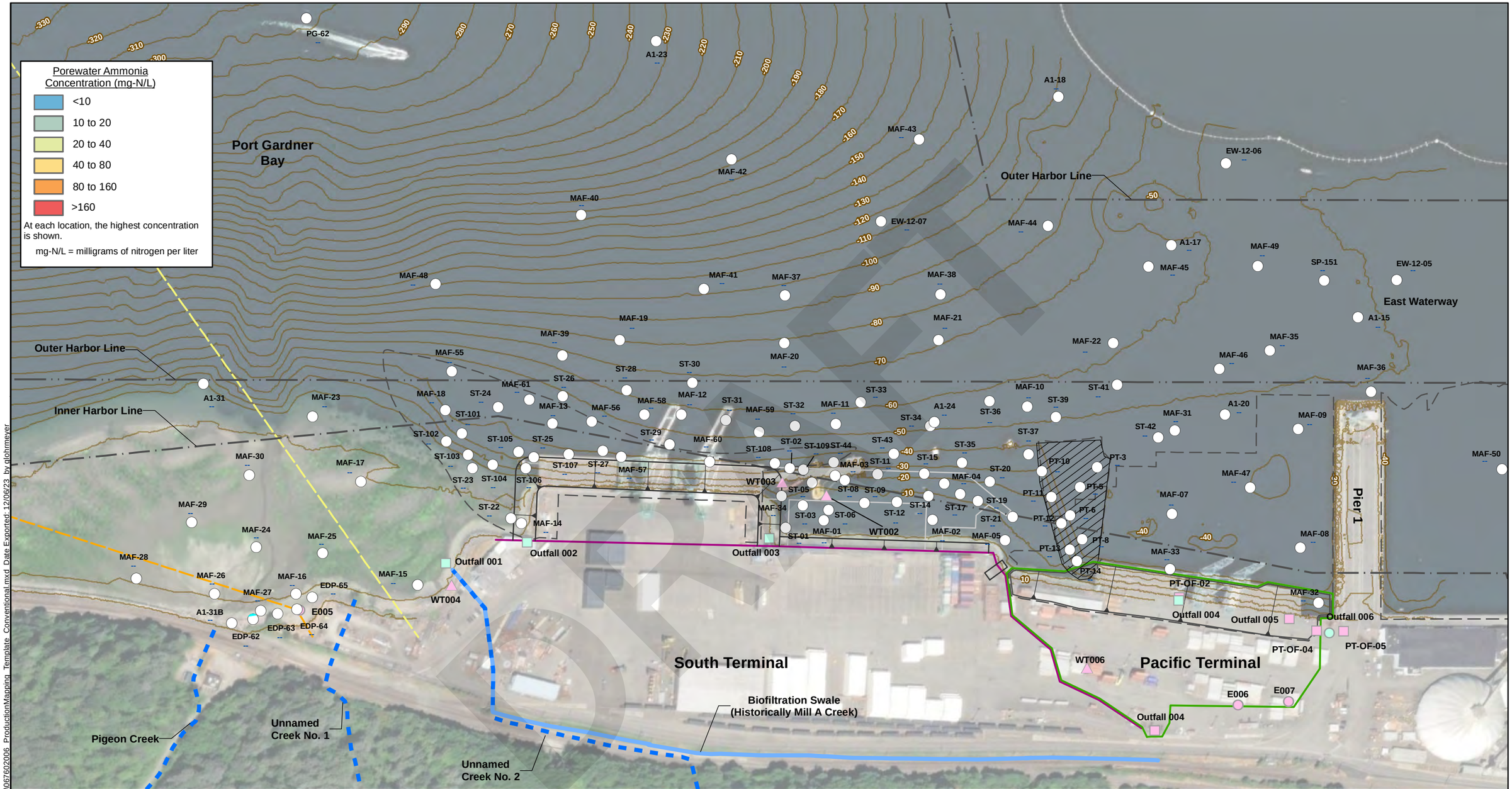
Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-39

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300 0 300
Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

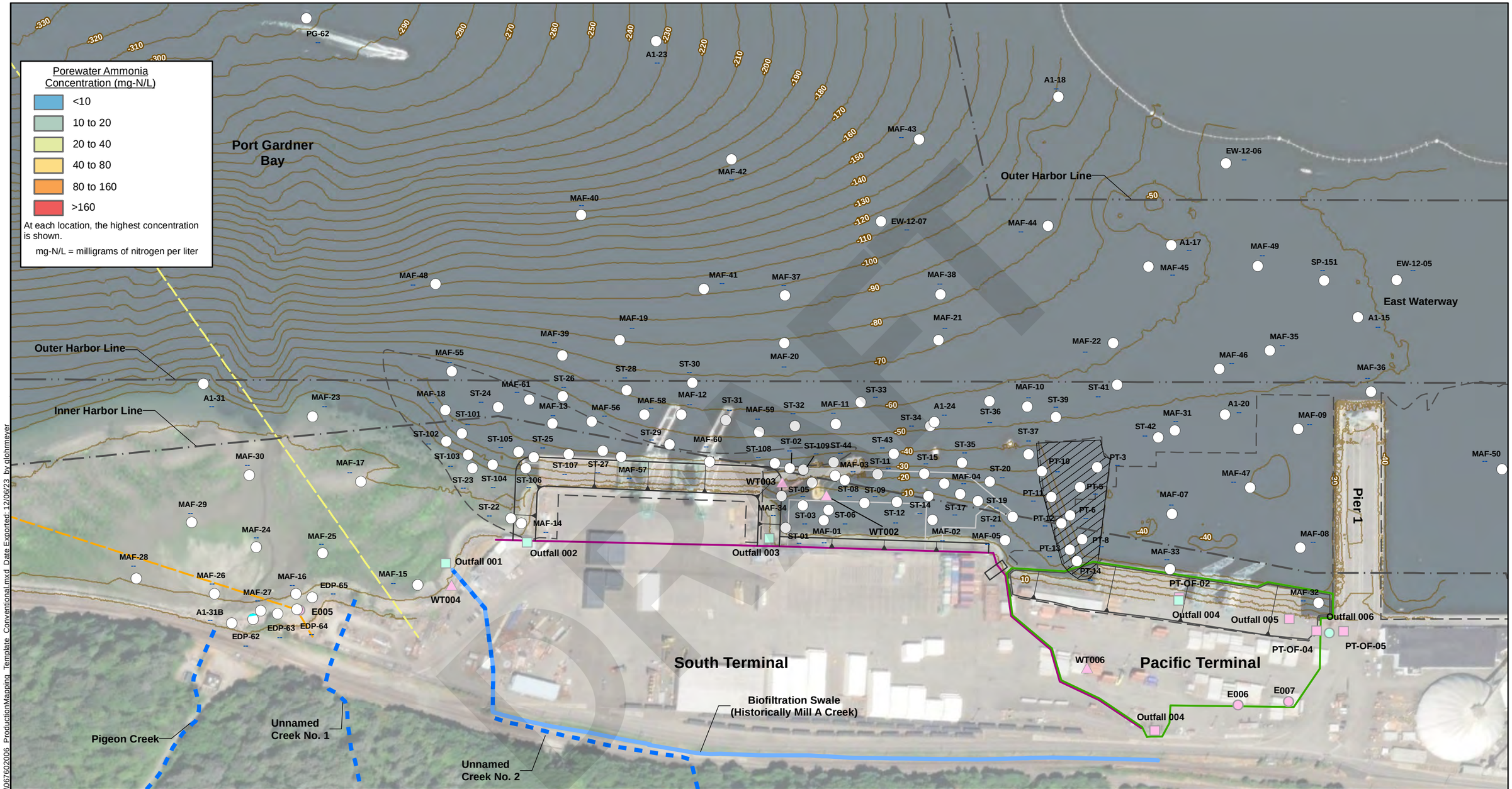
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- Historical Piling Area
- Dredged Area
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- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Ammonia Concentration Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-40



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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Ammonia Concentration Subsurface Sediment (14-16 ft)

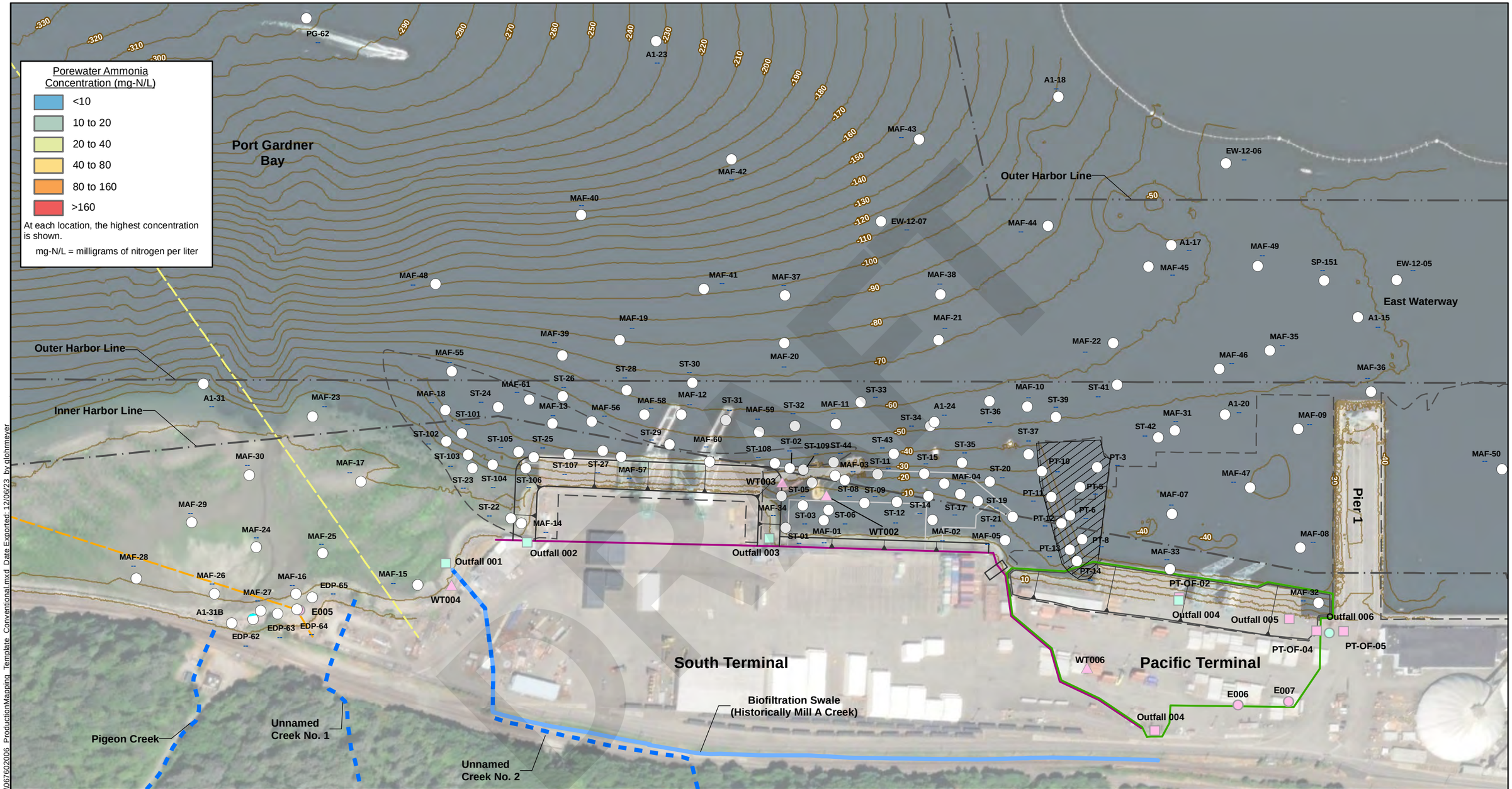
Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-41

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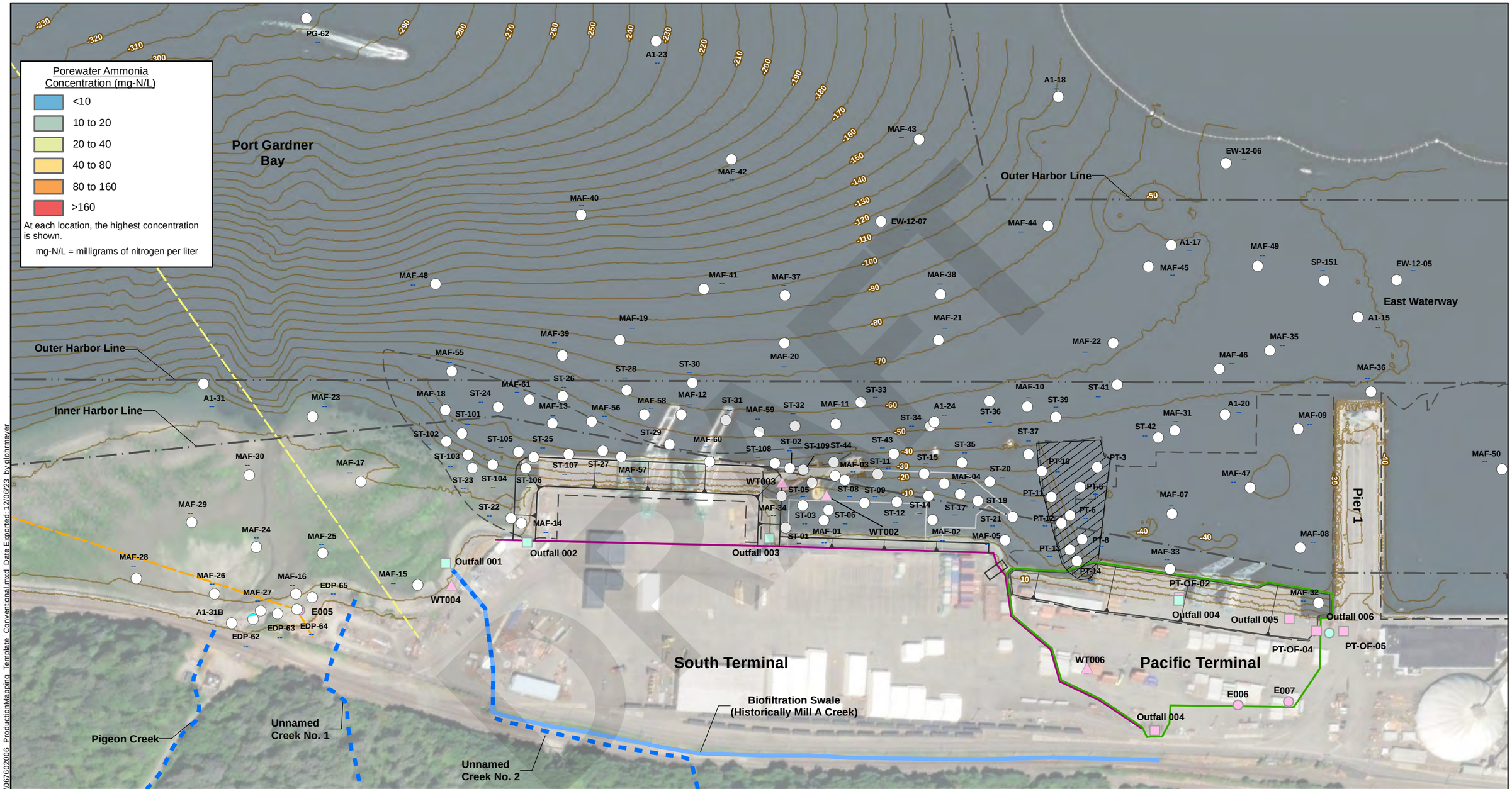
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Porewater Ammonia Concentration Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-42



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300 0 300
Feet

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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

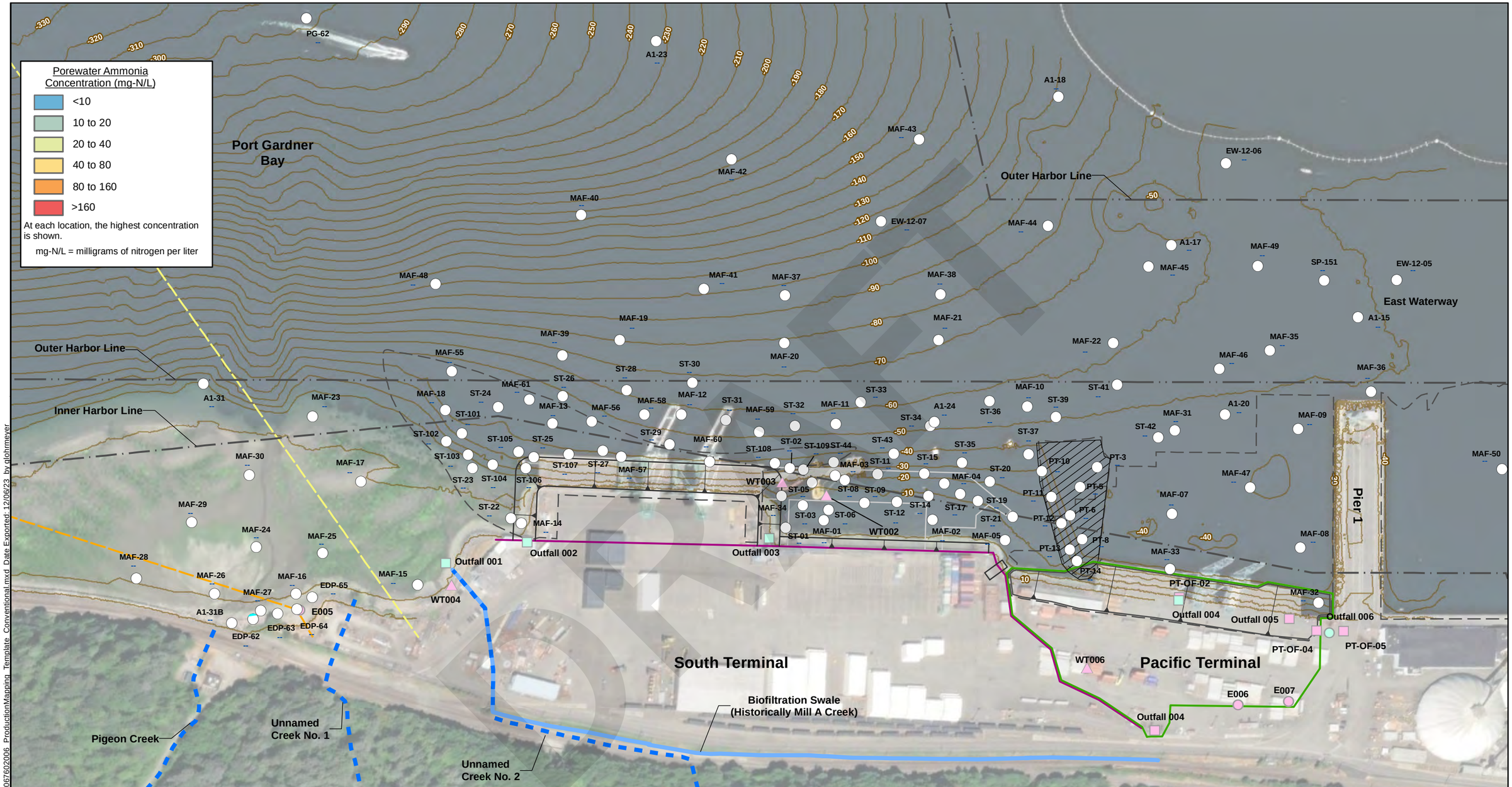
MAF-01 Sample Location Identification
1.22 Result
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Ammonia Concentration Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-43



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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result

Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

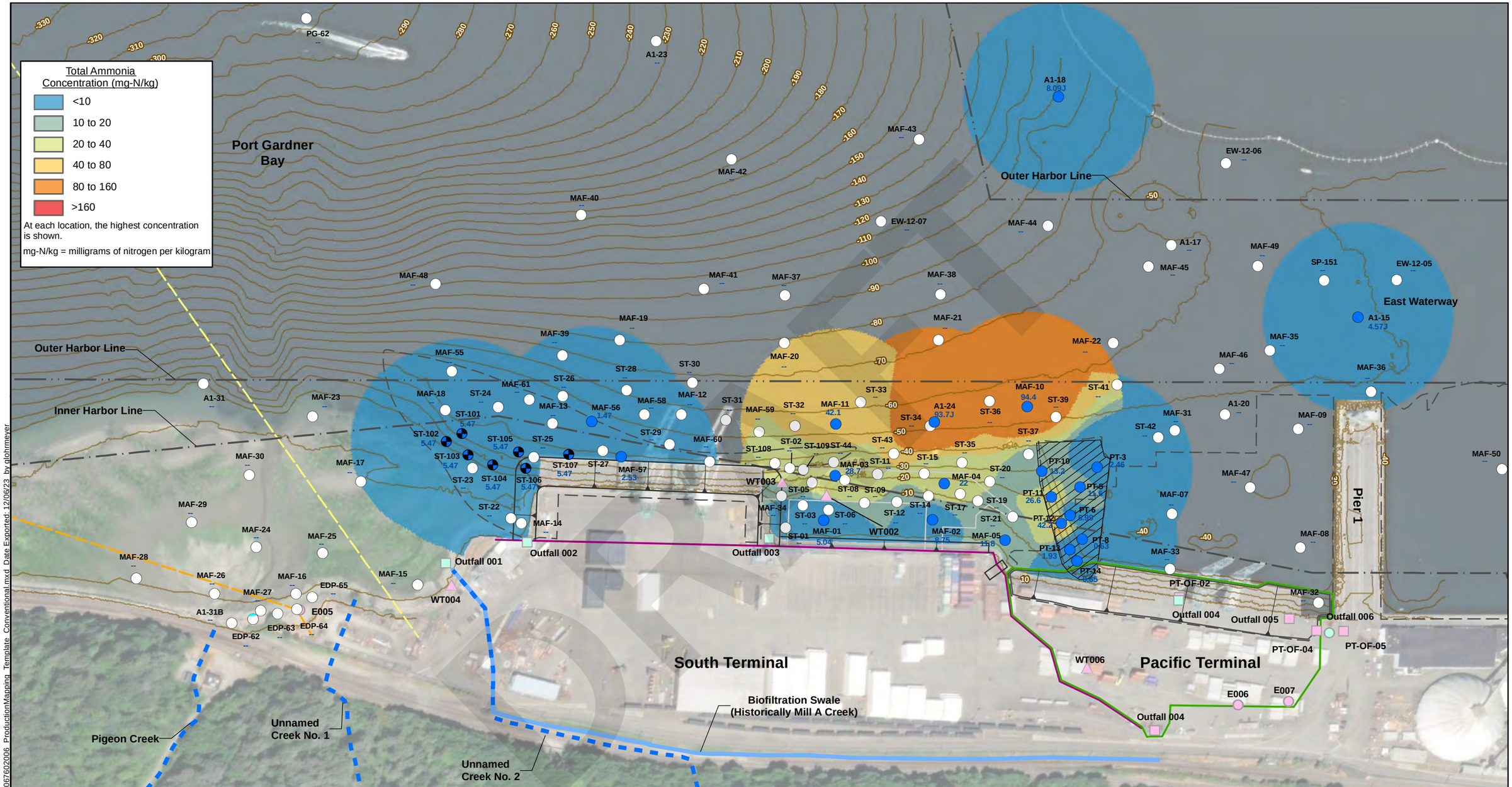
Porewater Ammonia Concentration Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-44

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Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Ammonia Concentration Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-45

P:\0\0676020\GIS\MXD\MarineArea_RI_Report\0676020006_ProductionMapping_Template_Conventional.mxd Date Exported: 12/06/23 by glohrmeyer

Total Ammonia Concentration (mg-N/kg)

- <10
- 10 to 20
- 20 to 40
- 40 to 80
- 80 to 160
- >160

At each location, the highest concentration is shown.

mg-N/kg = milligrams of nitrogen per kilogram

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

A1-18 24.8J

A1-23

A1-31

A1-31B

A1-17

A1-15 14.8J

A1-24 120J

PG-62

MAF-01 1.22

MAF-02

MAF-03

MAF-04

MAF-05

MAF-06

MAF-07

MAF-08

MAF-09

MAF-10

MAF-11

MAF-12

MAF-13

MAF-14

MAF-15

MAF-16

MAF-17

MAF-18

MAF-19

MAF-20

MAF-21

MAF-22

MAF-23

MAF-24

MAF-25

MAF-26

MAF-27

MAF-28

MAF-29

MAF-30

MAF-31

MAF-32

MAF-33

MAF-34

MAF-35

MAF-36

MAF-37

MAF-38

MAF-39

MAF-40

MAF-41

MAF-42

MAF-43

MAF-44

MAF-45

MAF-46

MAF-47

MAF-48

MAF-49

MAF-50

MAF-55

MAF-56 1.31

MAF-57 1.39

MAF-58 19

MAF-59 51.1

MAF-60

MAF-61

ST-01

ST-02

ST-03

ST-05

ST-06

ST-08

ST-09

ST-10

ST-11

ST-12

ST-13

ST-14

ST-15

ST-17

ST-19

ST-20

ST-21

ST-22

ST-23

ST-24

ST-25

ST-26

ST-27

ST-28

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ST-30

ST-31

ST-32

ST-33

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ST-35

ST-36

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ST-39

ST-41

ST-42

ST-43

ST-44

ST-101 5.47

ST-102 5.47

ST-103 5.47

ST-104 5.47

ST-105 5.47

ST-106

ST-107 5.47

ST-108

ST-109

PT-3

PT-5

PT-6

PT-8

PT-10

PT-11

PT-12

PT-13

PT-14

PT-OF-02

PT-OF-04

PT-OF-05

SP-151

EW-12-05

EW-12-06

EW-12-07

E005

E006

E007

EDP-62

EDP-63

EDP-64

EDP-65

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 10 40 50 60

300 0 300

Feet

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Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
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- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
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- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

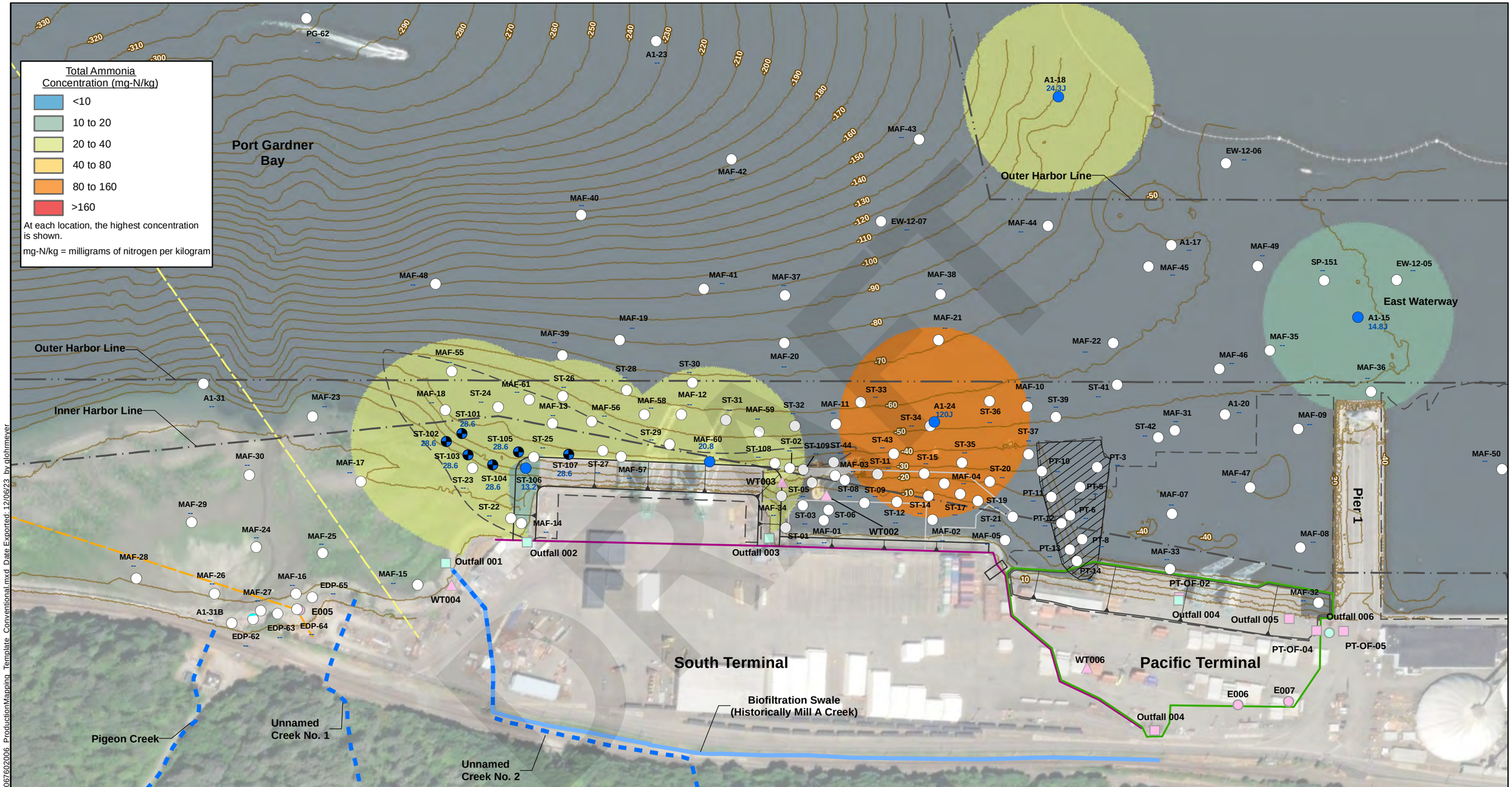
Total Ammonia Concentration Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-46

P:\0\0676020\GIS\MXD\MarineArea_RI_Report\0676020G6_ProductionMapping_Template_Conventional.mxd Date Exported: 12/06/23 by glohrmeyer



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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
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- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
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- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
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- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

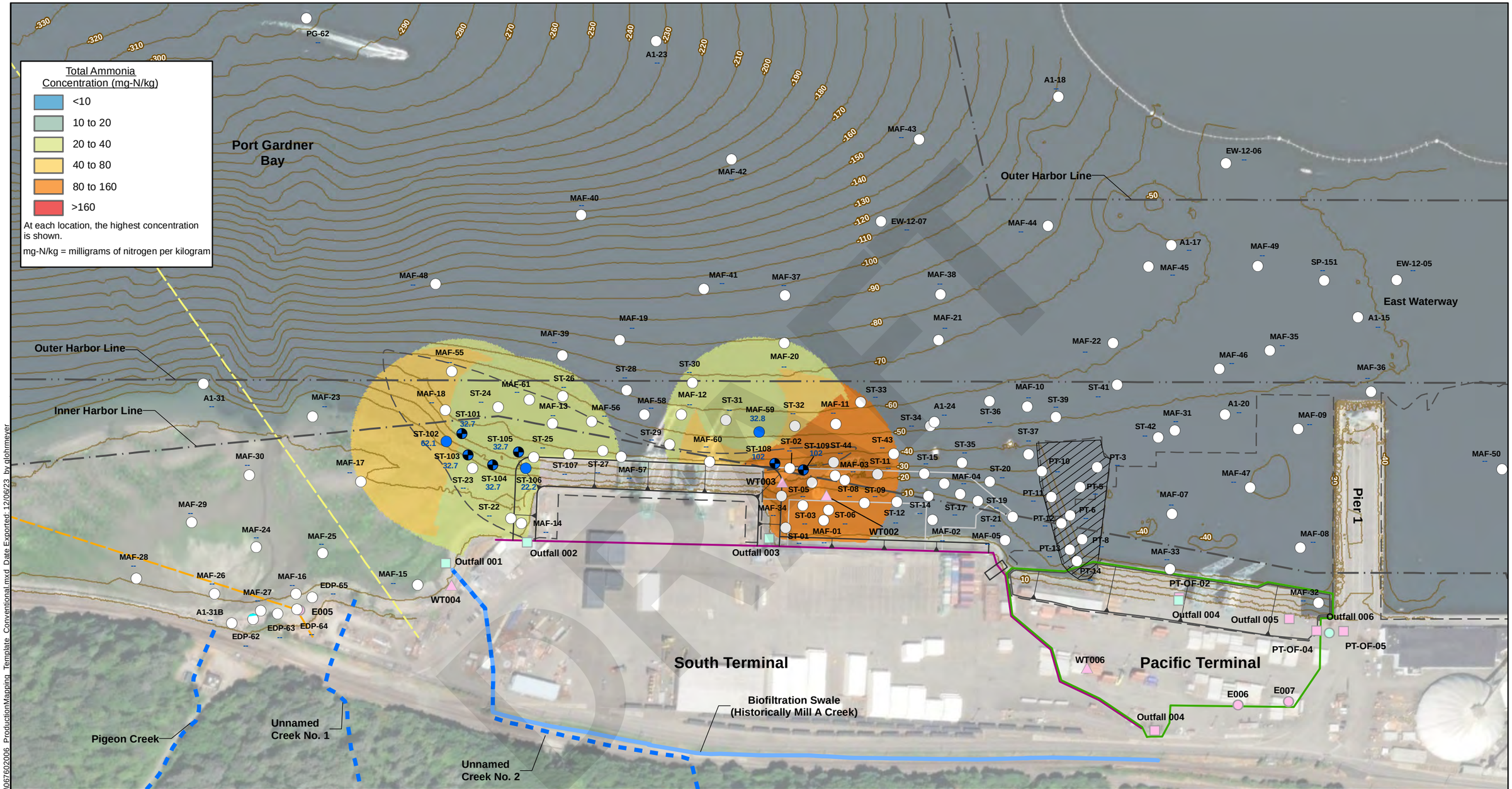
Total Ammonia Concentration Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

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Figure Q-47

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Ammonia Concentration Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-48

Total Ammonia Concentration (mg-N/kg)

- <10
- 10 to 20
- 20 to 40
- 40 to 80
- 80 to 160
- >160

At each location, the highest concentration is shown.

mg-N/kg = milligrams of nitrogen per kilogram

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale (Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

PG-62, A1-23, A1-18, A1-17, A1-15, A1-31, A1-31B, A1-24, A1-20

MAF-01 through MAF-61, MAF-03, MAF-07, MAF-08, MAF-09, MAF-10, MAF-11, MAF-12, MAF-13, MAF-14, MAF-15, MAF-16, MAF-17, MAF-18, MAF-19, MAF-20, MAF-21, MAF-22, MAF-23, MAF-24, MAF-25, MAF-26, MAF-27, MAF-28, MAF-29, MAF-30, MAF-31, MAF-32, MAF-33, MAF-34, MAF-35, MAF-36, MAF-37, MAF-38, MAF-39, MAF-40, MAF-41, MAF-42, MAF-43, MAF-44, MAF-45, MAF-46, MAF-47, MAF-48, MAF-49, MAF-50, MAF-55, MAF-56, MAF-57, MAF-58, MAF-59, MAF-60, MAF-61

ST-01 through ST-44, ST-101 (11.3), ST-102, ST-103 (78.6), ST-104 (18.7J), ST-105 (11.3), ST-106, ST-107 (3.5), ST-108 (13.3), ST-109 (50.6)

WT002, WT003, WT004, WT006

PT-3, PT-5, PT-6, PT-8, PT-10, PT-11, PT-12, PT-13, PT-14

EW-12-05, EW-12-06, EW-12-07, SP-151

EDP-62, EDP-63, EDP-64, EDP-65, E005, E006, E007

Outfall 001, Outfall 002, Outfall 003, Outfall 004, Outfall 005, Outfall 006, PT-OF-02, PT-OF-04, PT-OF-05

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 10, 50, 60

300 0 300

Feet

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Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Ammonia Concentration Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-49

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Total Ammonia Concentration (mg-N/kg)

- <10
- 10 to 20
- 20 to 40
- 40 to 80
- 80 to 160
- >160

At each location, the highest concentration is shown.

mg-N/kg = milligrams of nitrogen per kilogram

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

PG-62, A1-23, A1-18, A1-17, A1-15, A1-20, A1-24, A1-31, A1-31B

MAF-01 through MAF-61

ST-01 through ST-44

EW-12-05, EW-12-06, EW-12-07

SP-151

PT-3, PT-5, PT-6, PT-8, PT-10, PT-11, PT-12, PT-13, PT-14

PT-OF-02, PT-OF-04, PT-OF-05

WT002, WT003, WT004, WT006

E005, E006, E007

EDP-62, EDP-63, EDP-64, EDP-65

ST-101 11.3; ST-104 25.3; ST-105 11.3; ST-107 3.5; ST-109 8.22

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 10, 30, 50

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300 0 300

Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result

Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification

1.22 Result

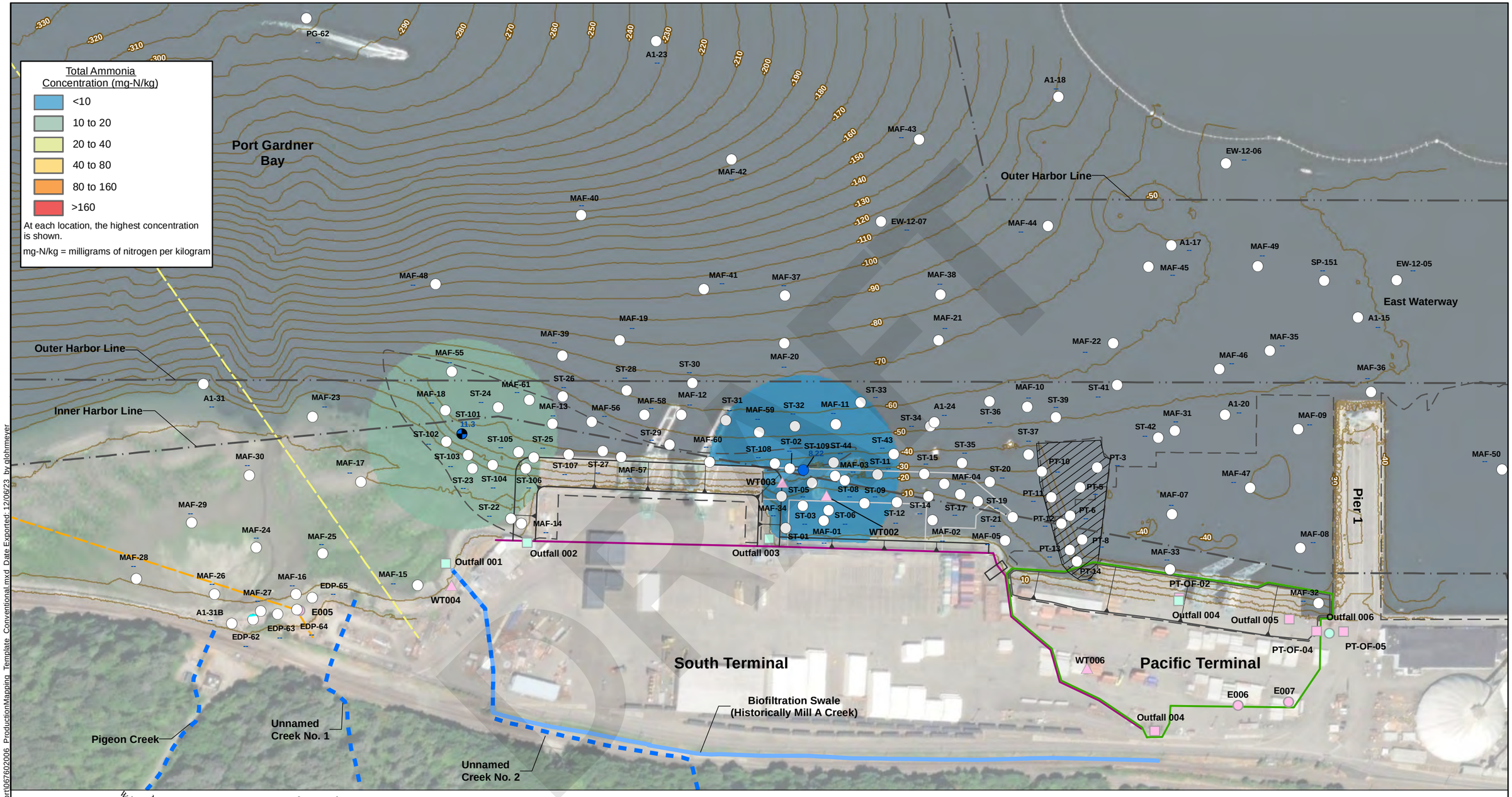
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Ammonia Concentration Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-50



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N W E S

300 0 300

Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result

Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification

1.22 Result

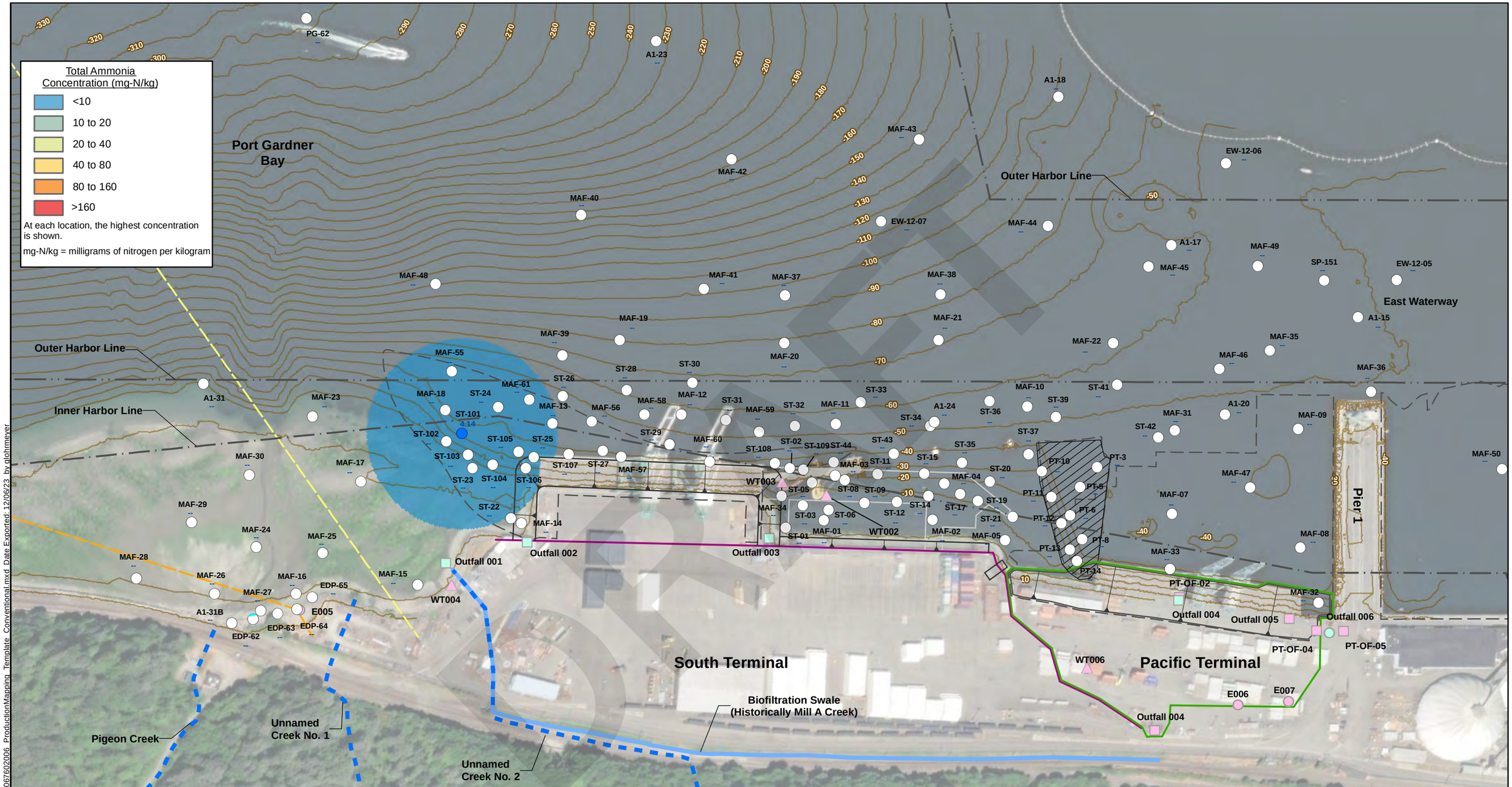
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Ammonia Concentration Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-51



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300 0 300
Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

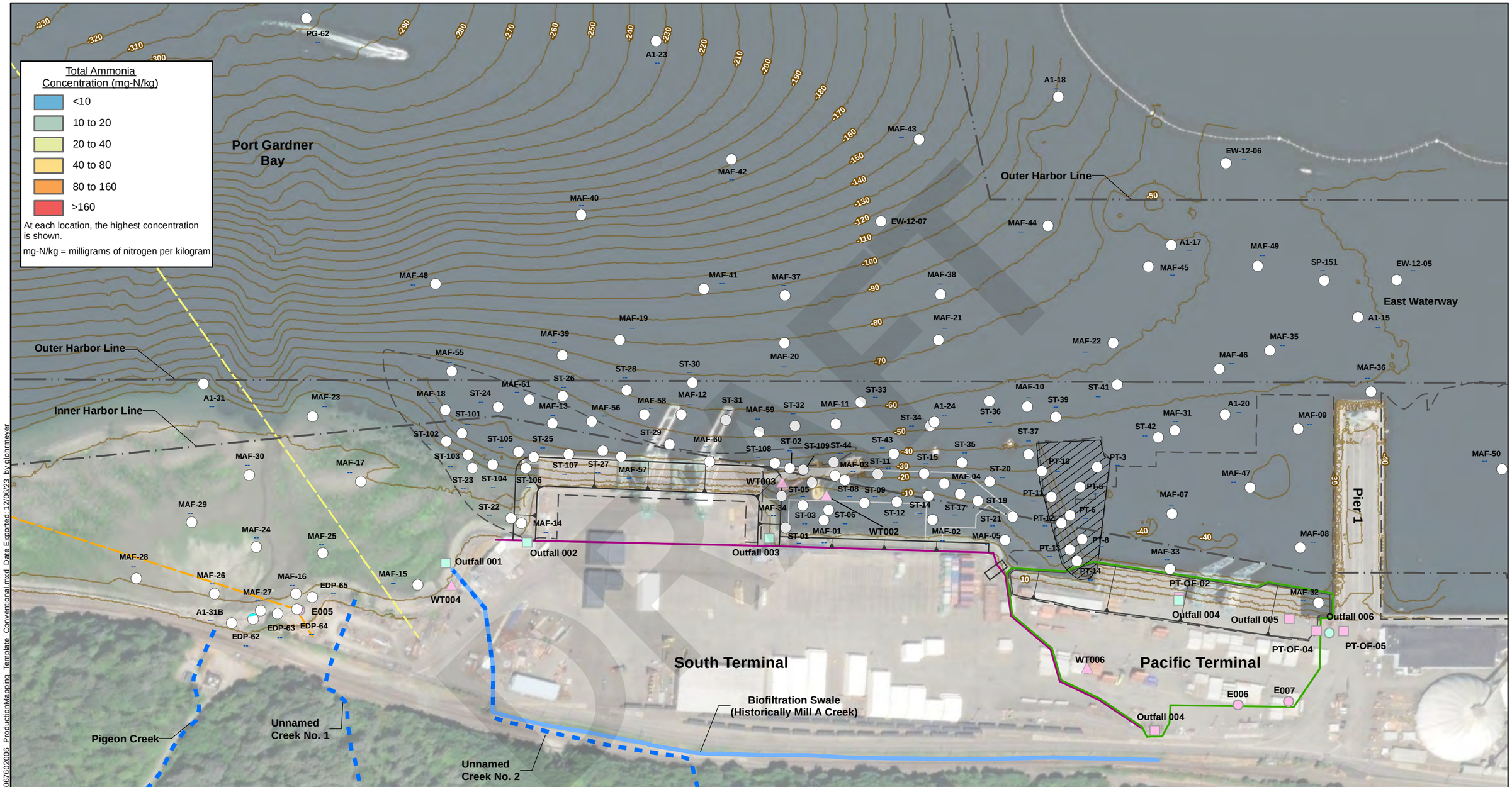
Total Ammonia Concentration Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

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Figure Q-52

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Ammonia Concentration Subsurface Sediment (16-18 ft)

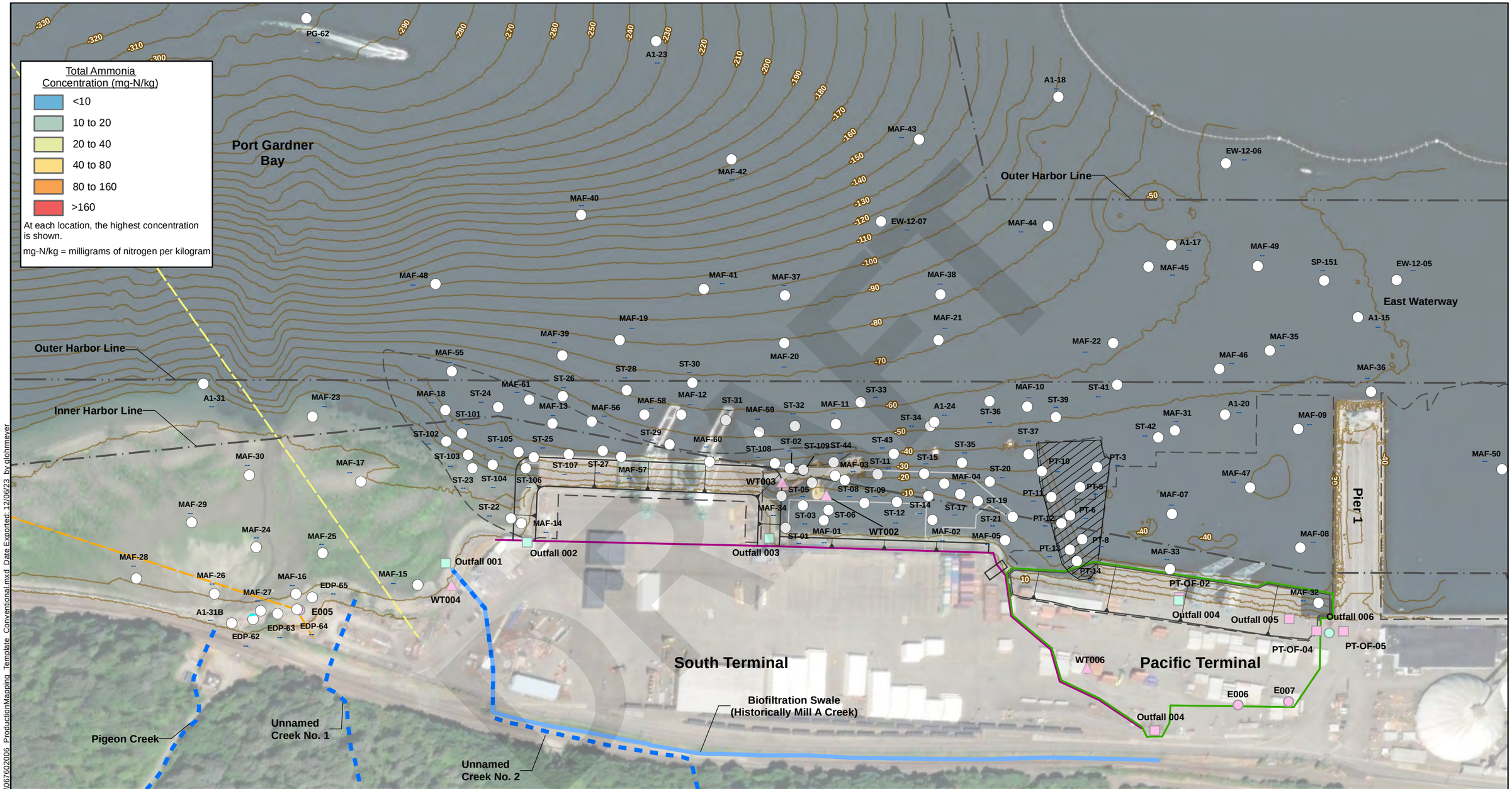
Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-53

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Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

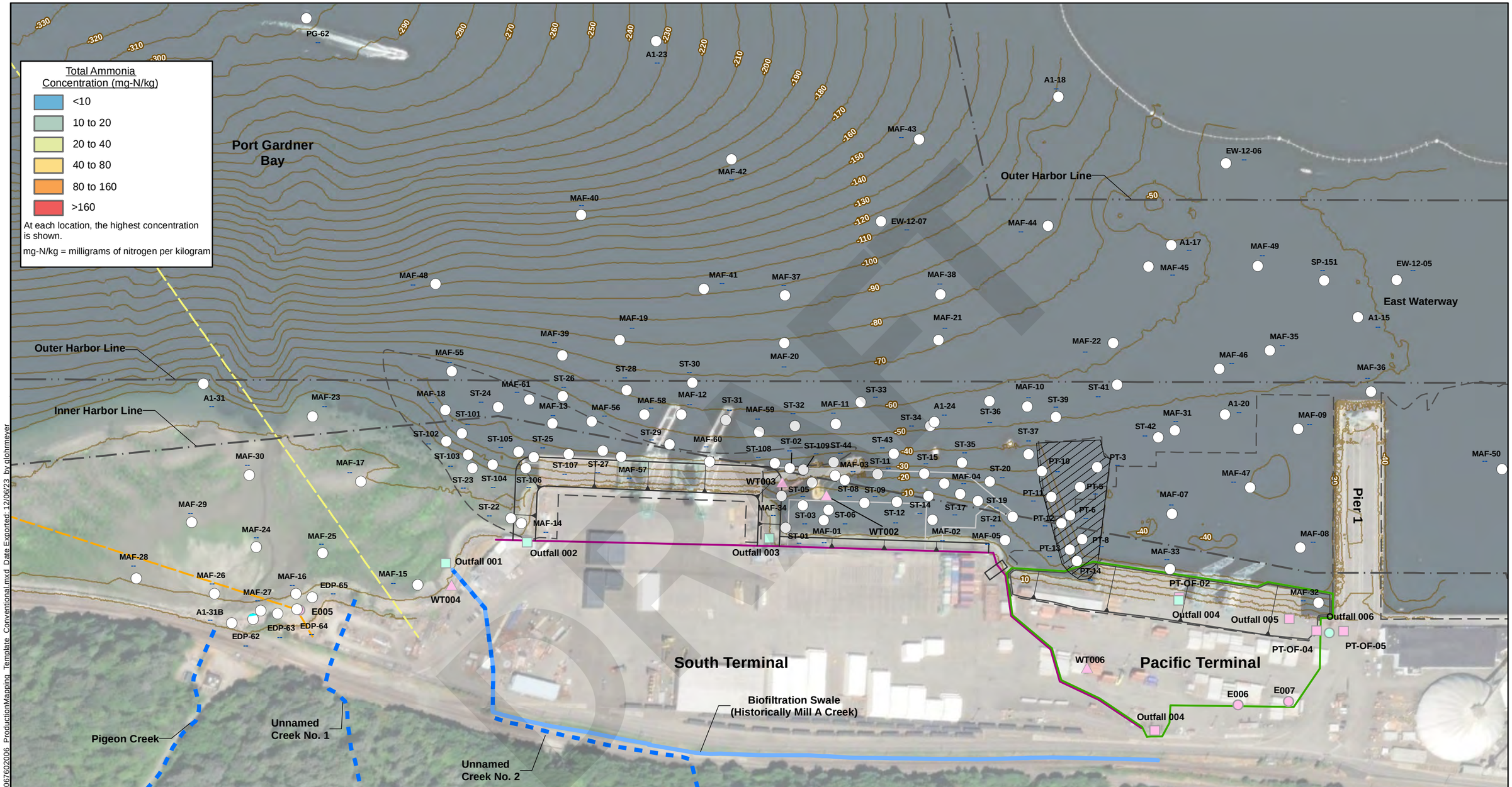
Total Ammonia Concentration Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-54

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Ammonia Concentration Subsurface Sediment (20-22 ft)

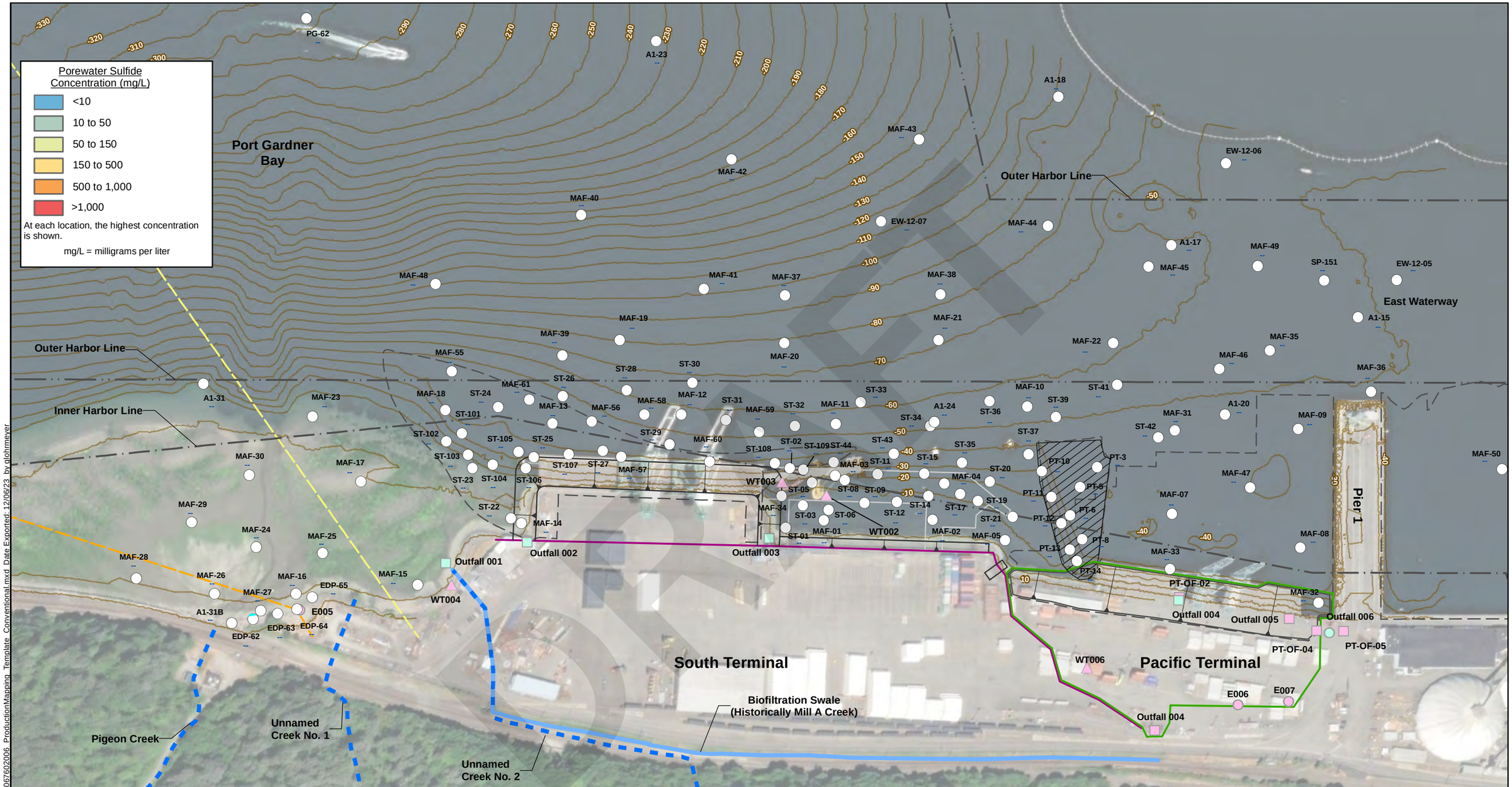
Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-55

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300 0 300
Feet

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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

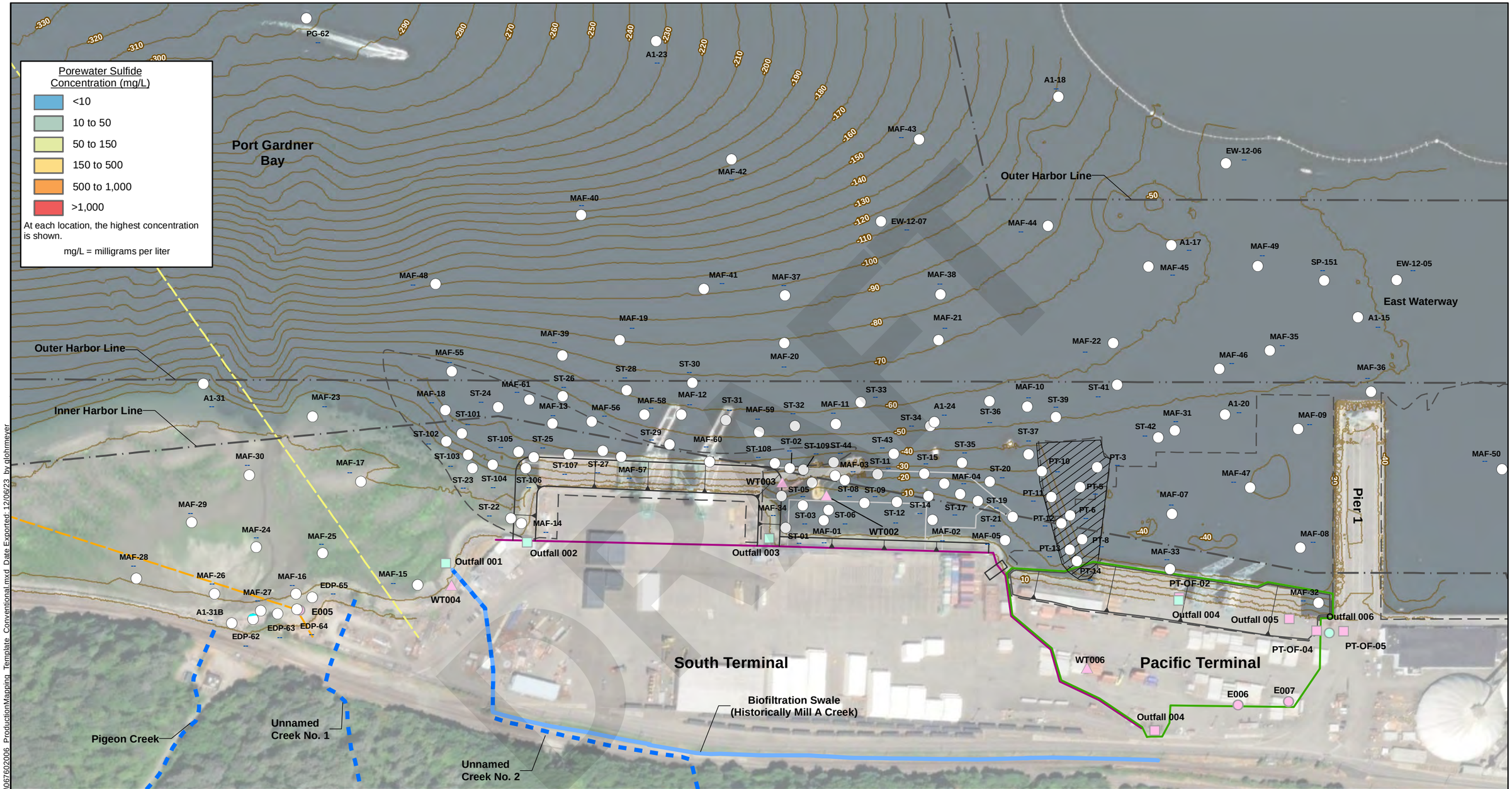
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Sulfide Concentration Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-56



Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

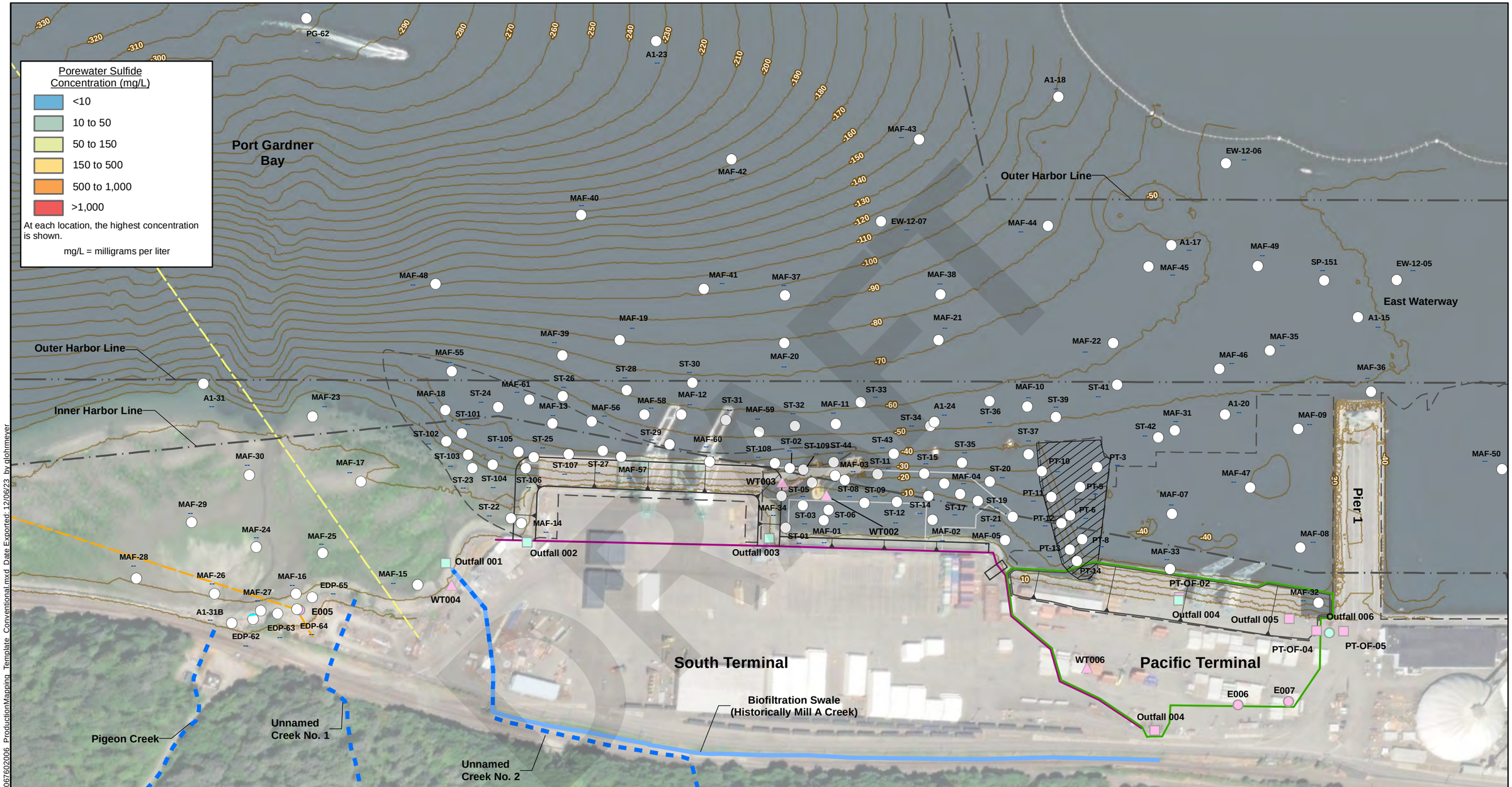
Porewater Sulfide Concentration Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-57

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300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

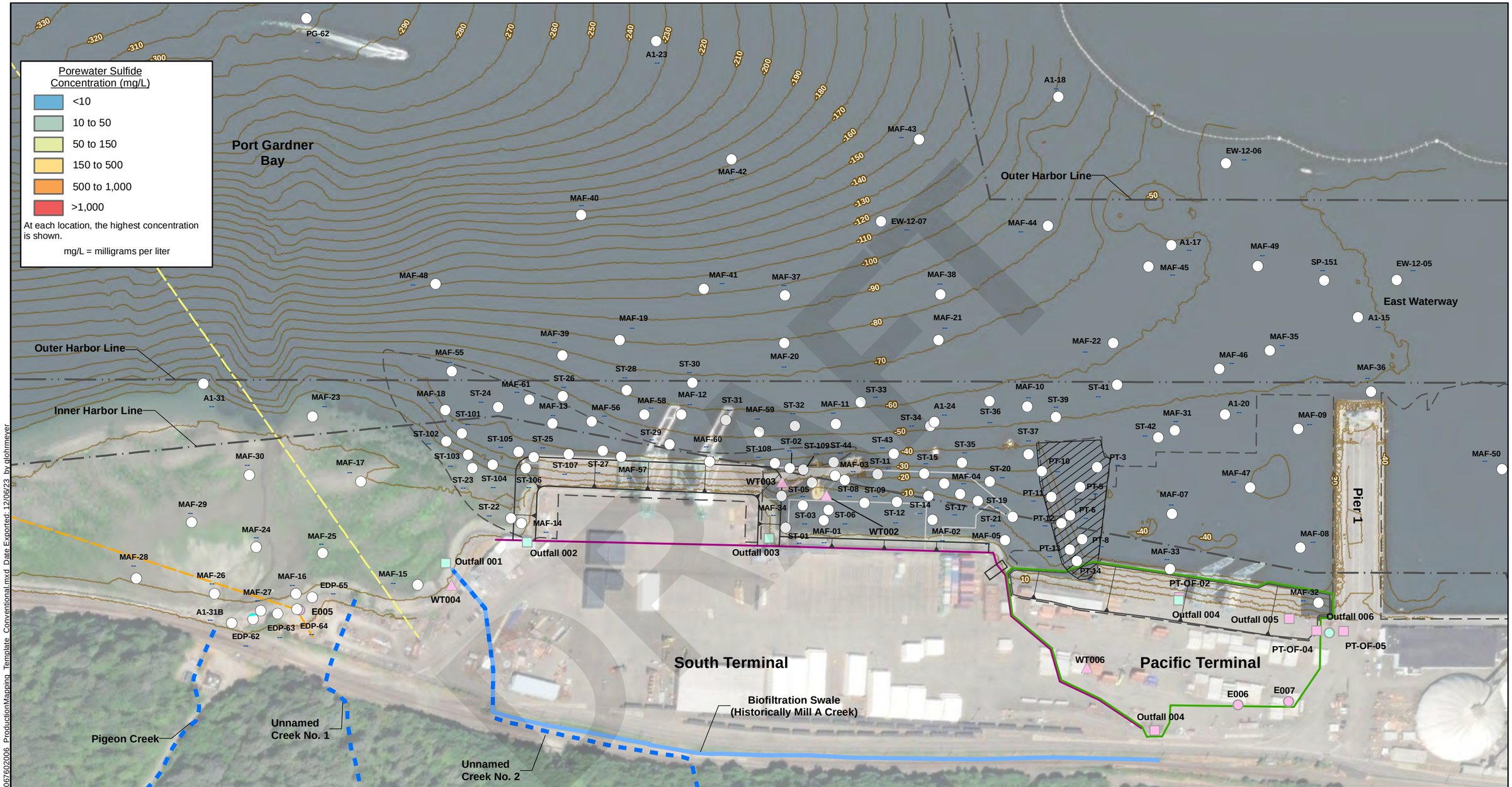
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Sulfide Concentration Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-58



Notes:

1. The locations of all features shown are approximate.
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

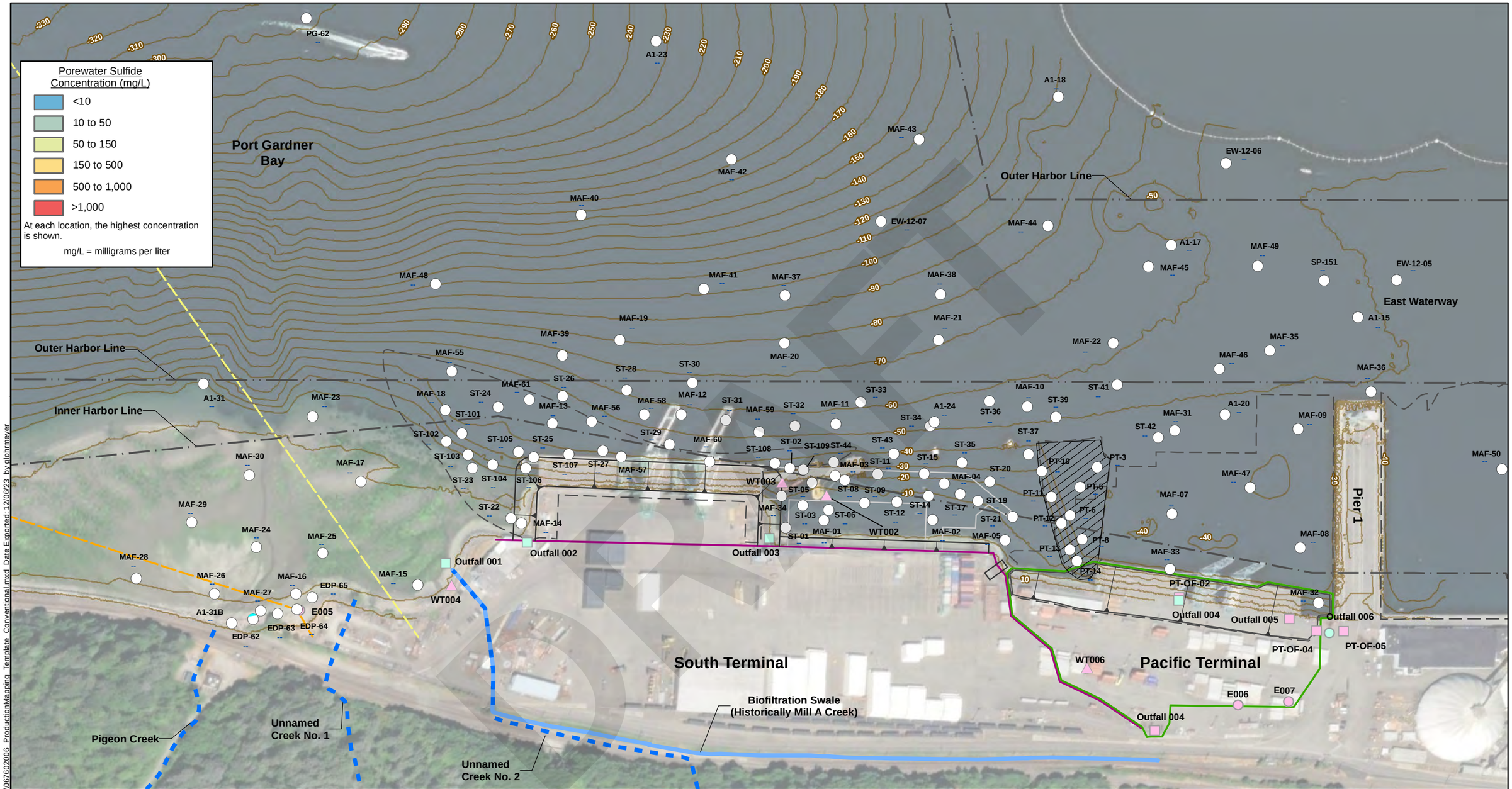
Porewater Sulfide Concentration Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-59

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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

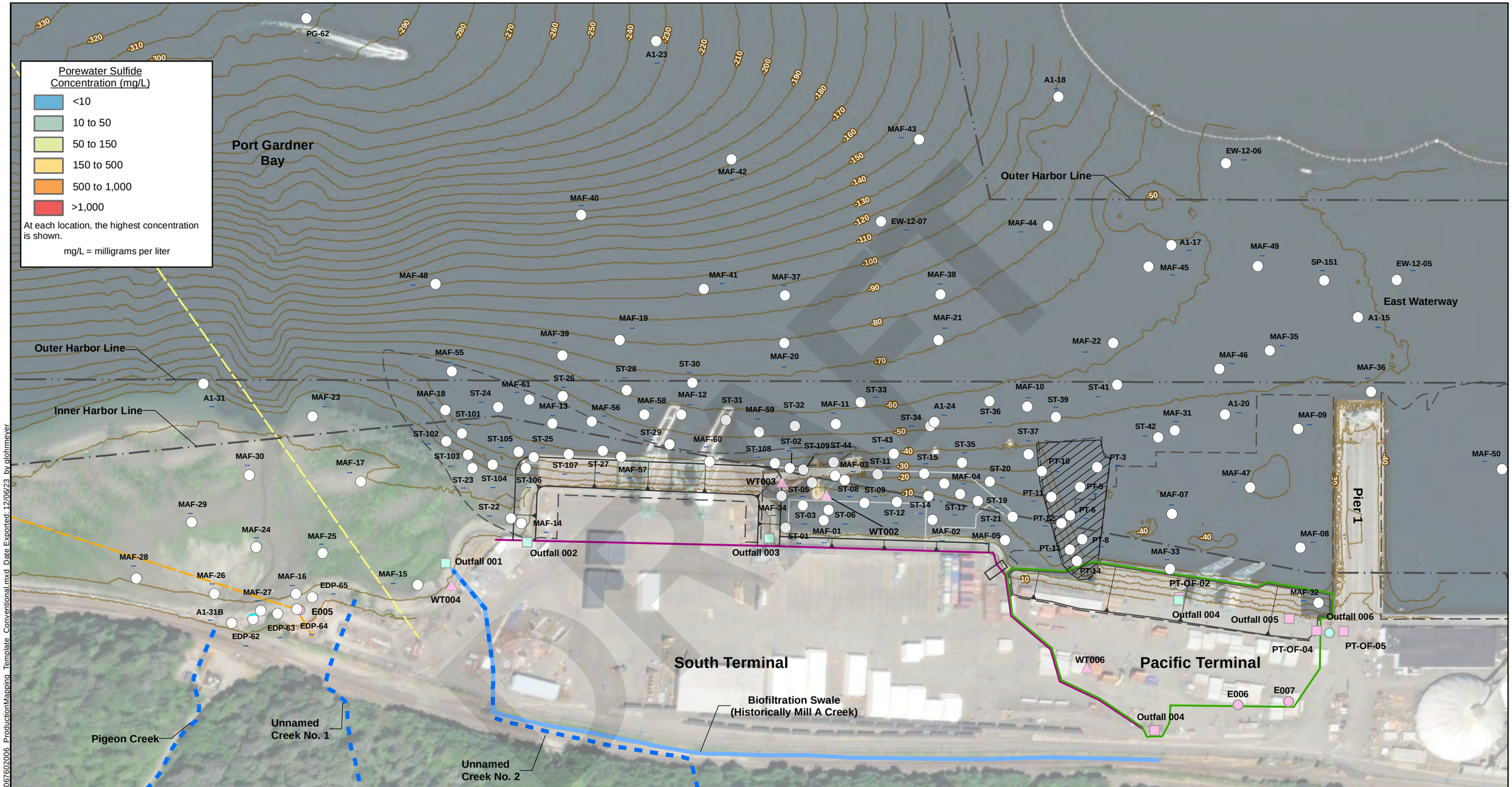
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- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Sulfide Concentration Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-60



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300 0 300
Feet

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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

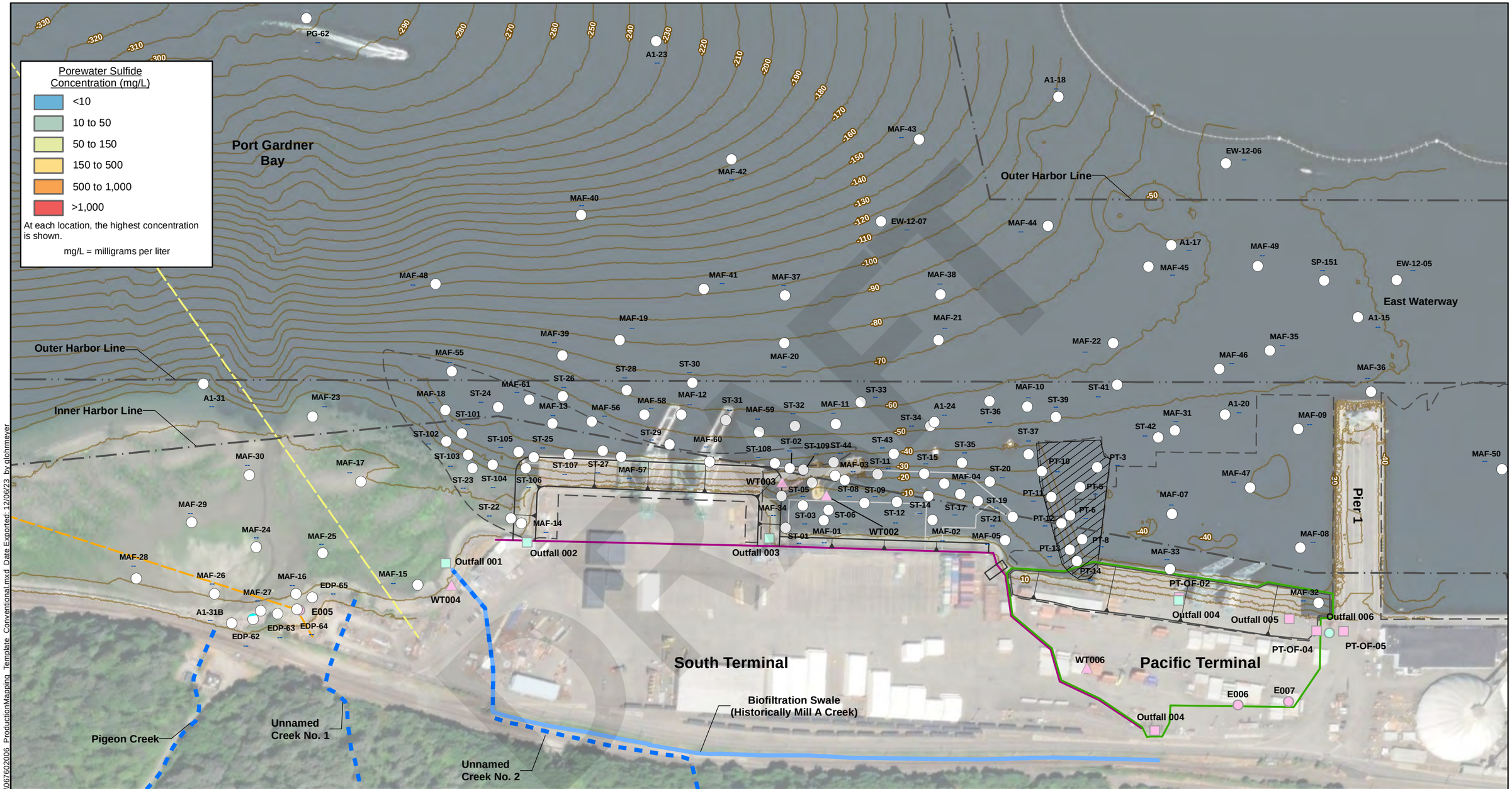
- Construction Berm
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- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Sulfide Concentration Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-61



DRAFT

300 0 300
Feet

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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
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- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
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- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

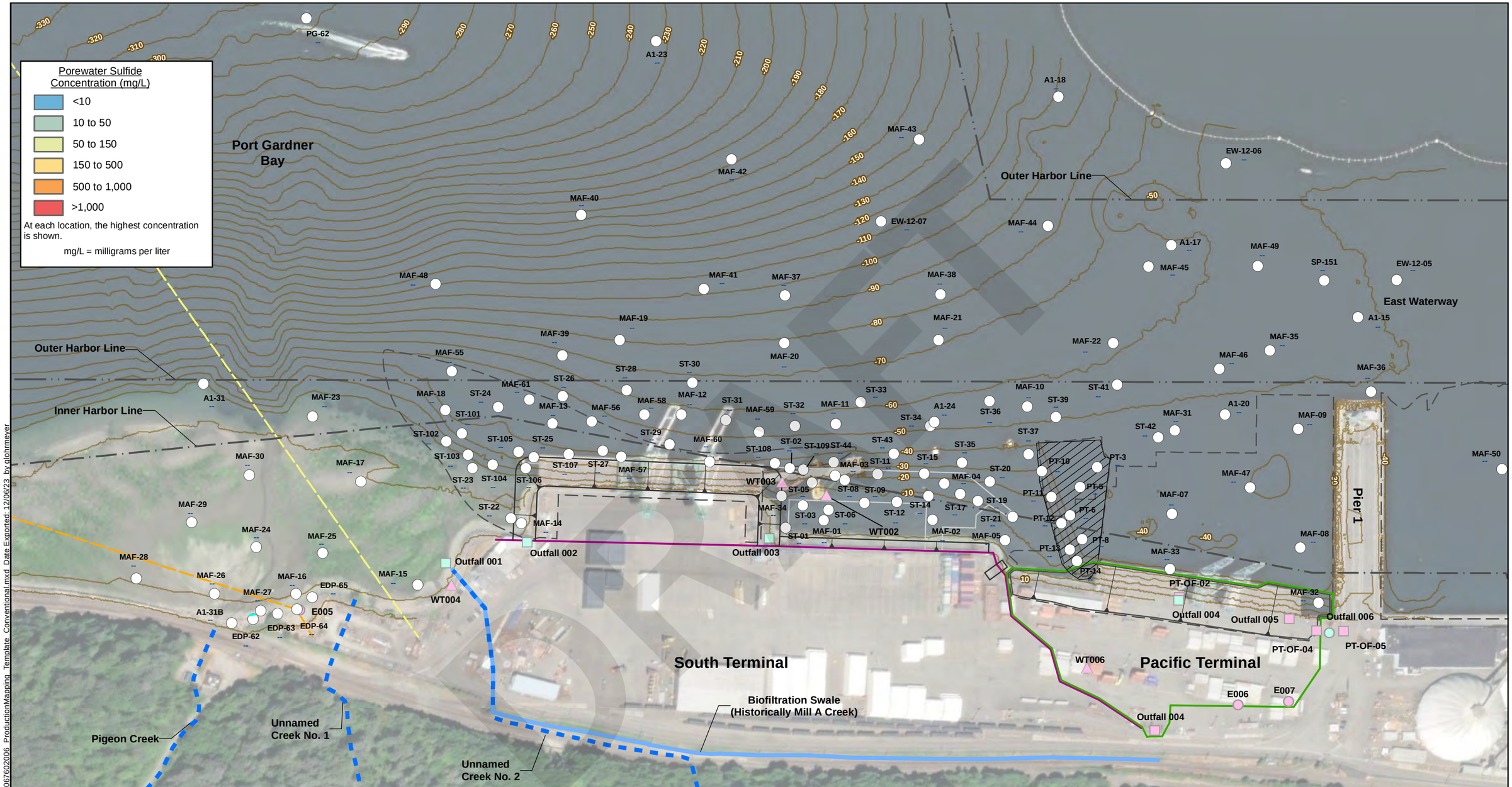
Porewater Sulfide Concentration Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-62

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300 0 300
Feet

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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

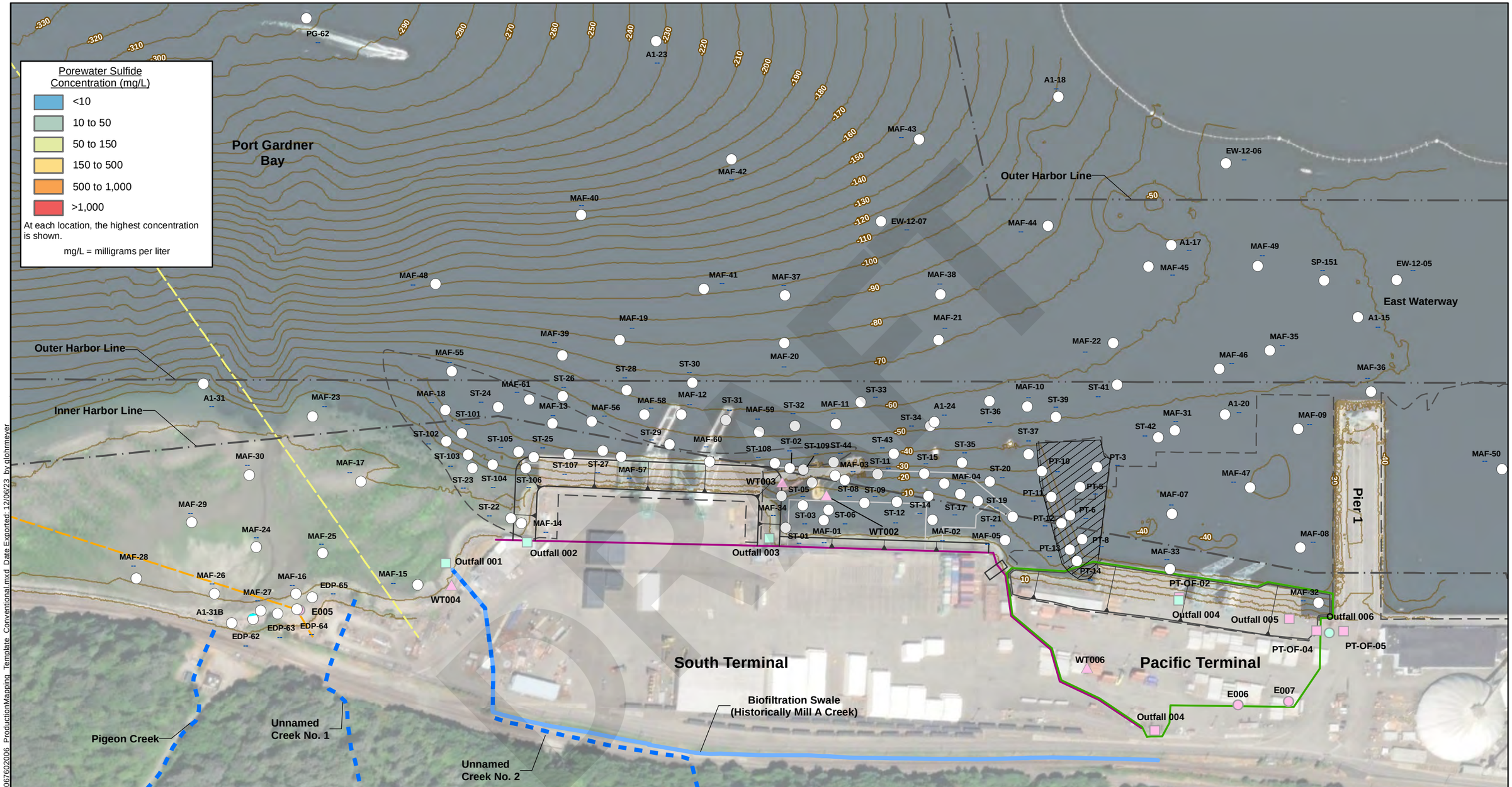
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- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
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- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Sulfide Concentration Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-64



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300 0 300
Feet

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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

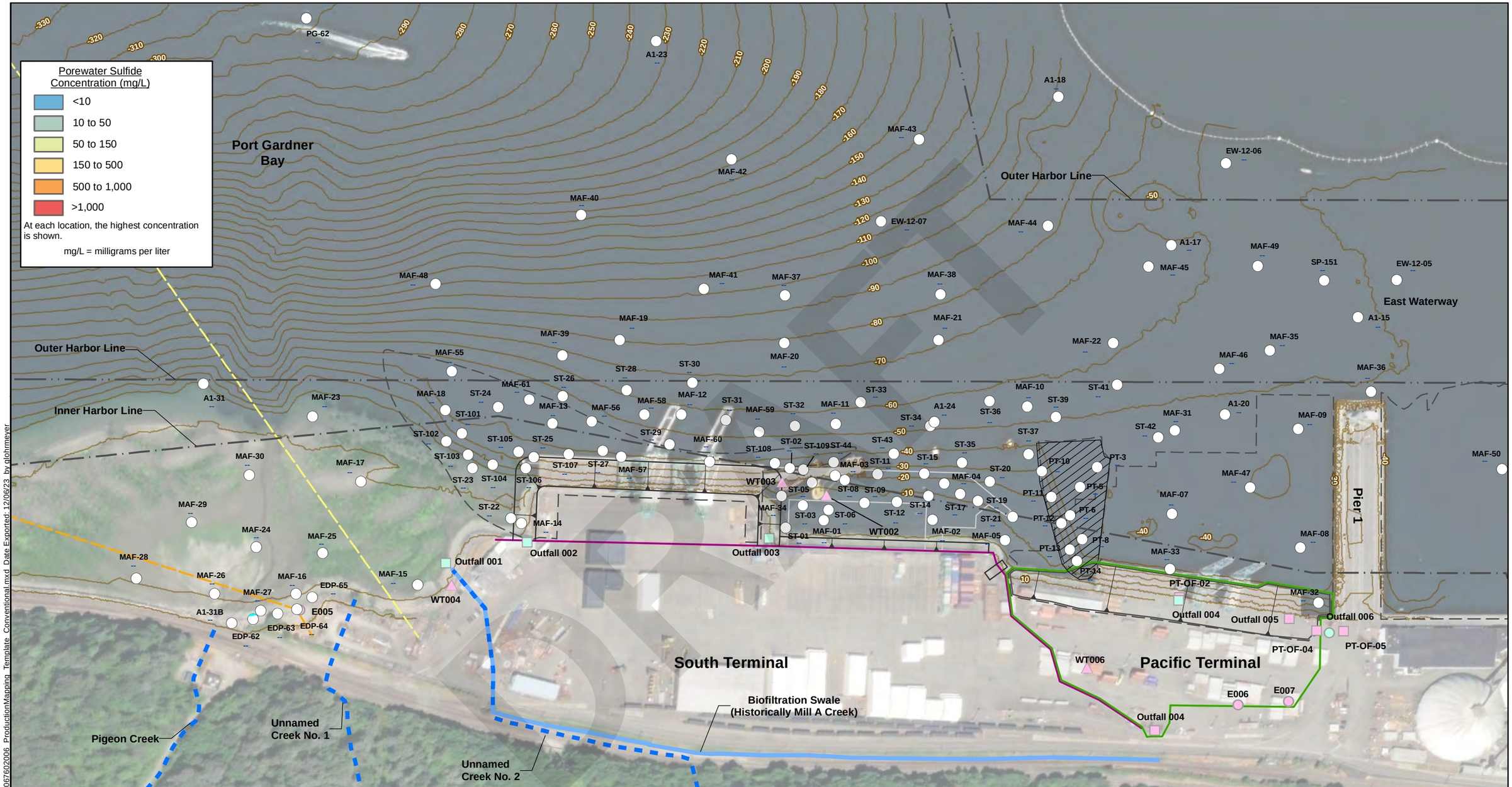
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- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
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- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Sulfide Concentration Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-63



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300 0 300
Feet

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Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

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- Composite Sample Result
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MAF-01 Sample Location Identification
1.22 Result

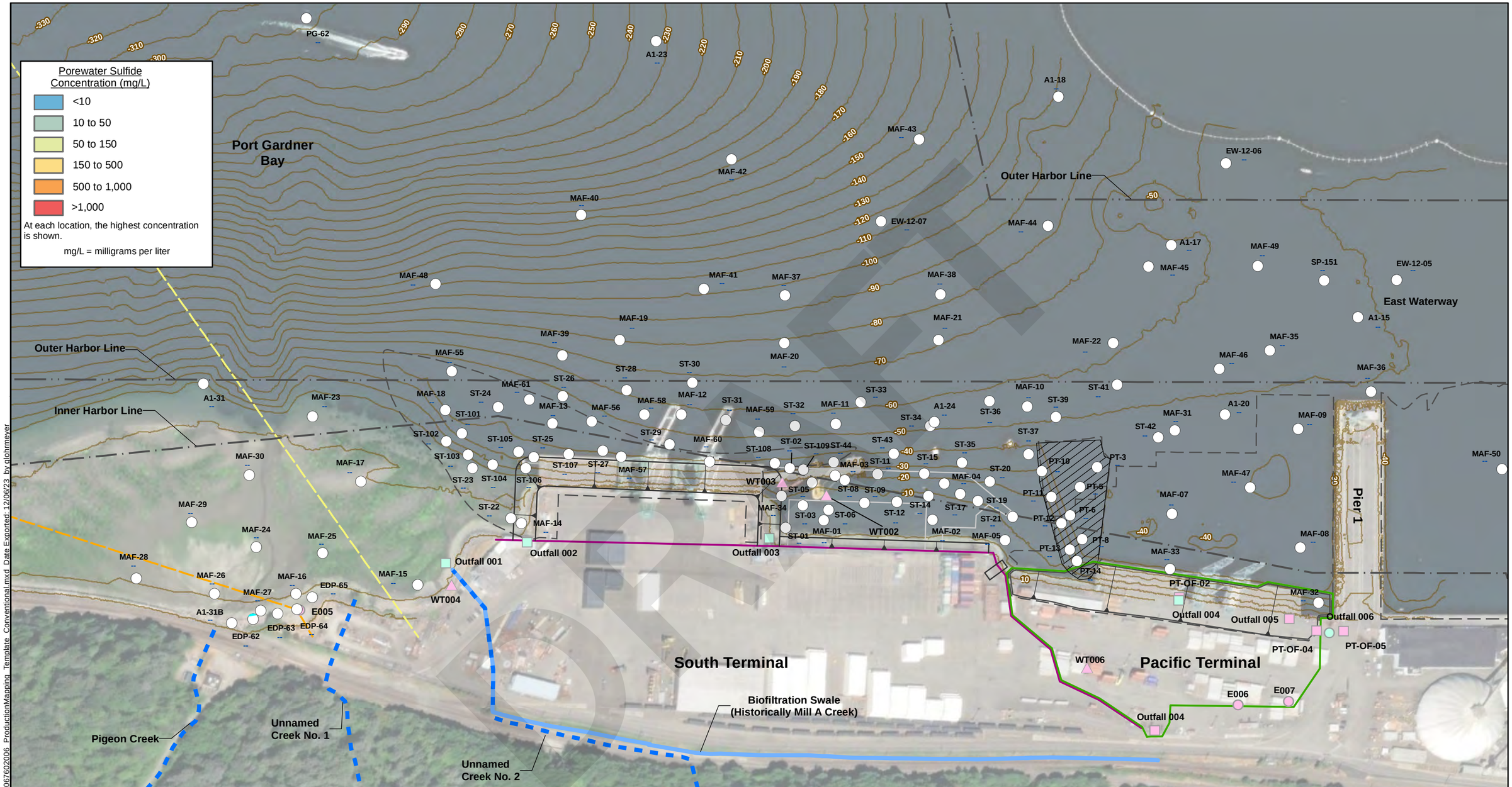
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- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Sulfide Concentration Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-65



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Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
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- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

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- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
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- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
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- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Porewater Sulfide Concentration Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

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Figure Q-66

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Total Sulfide Concentration (mg/kg)

- <10
- 10 to 50
- 50 to 150
- 150 to 500
- 500 to 1,000
- >1,000

At each location, the highest concentration is shown.

mg/kg = milligrams per kilogram

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

PG-62, A1-23, A1-18 98.8J, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-22, MAF-55, MAF-20, ST-28, ST-30, ST-26, MAF-61, MAF-18, ST-24, MAF-13, MAF-56 35.4, MAF-58, MAF-12, ST-31, MAF-59, ST-32, MAF-11 1240J, ST-33, A1-24 799J, ST-34, ST-36, MAF-10 459, ST-39, ST-41, MAF-35, MAF-46, MAF-36, A1-15 23.5J, A1-31, MAF-23, ST-101, ST-102, ST-105, ST-25, ST-29, MAF-60, ST-108, ST-02, ST-109, ST-44, ST-43, ST-35, ST-37, MAF-31, A1-20, MAF-09, ST-42, MAF-30, MAF-17, ST-103, ST-23, ST-104, ST-106, ST-107, ST-27, MAF-57 193, WT003, ST-05, ST-08, ST-09, MAF-03 6250, ST-11, ST-15, MAF-04 1050, ST-20, PT-10 46, PT-3 5.42, PT-5 1.71, PT-11 1.32, PT-6 4.18, PT-12 4.8, PT-8 1.71, PT-13 4.05, PT-14 2.25, MAF-47, MAF-07, MAF-08, MAF-33, MAF-50, MAF-29, MAF-24, MAF-25, MAF-28, MAF-26, MAF-16, EDP-65, MAF-27, A1-31B, E005, EDP-63, EDP-64, EDP-62, MAF-15, WT004, Outfall 001, ST-22, MAF-14, Outfall 002, Outfall 003, ST-03, ST-06, ST-12, ST-14, ST-17, ST-19, ST-21, ST-01, MAF-01 1110, WT002, MAF-02 182, MAF-05 829J, MAF-34, PT-OF-02, Outfall 004, Outfall 005, MAF-32, Outfall 006, PT-OF-04, PT-OF-05, WT006, E006, E007, Outfall 004

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, -50, -50, -40, -40, -10

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N, W, E, S

300 0 300

Feet

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Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 / 1.22 Sample Location Identification / Result

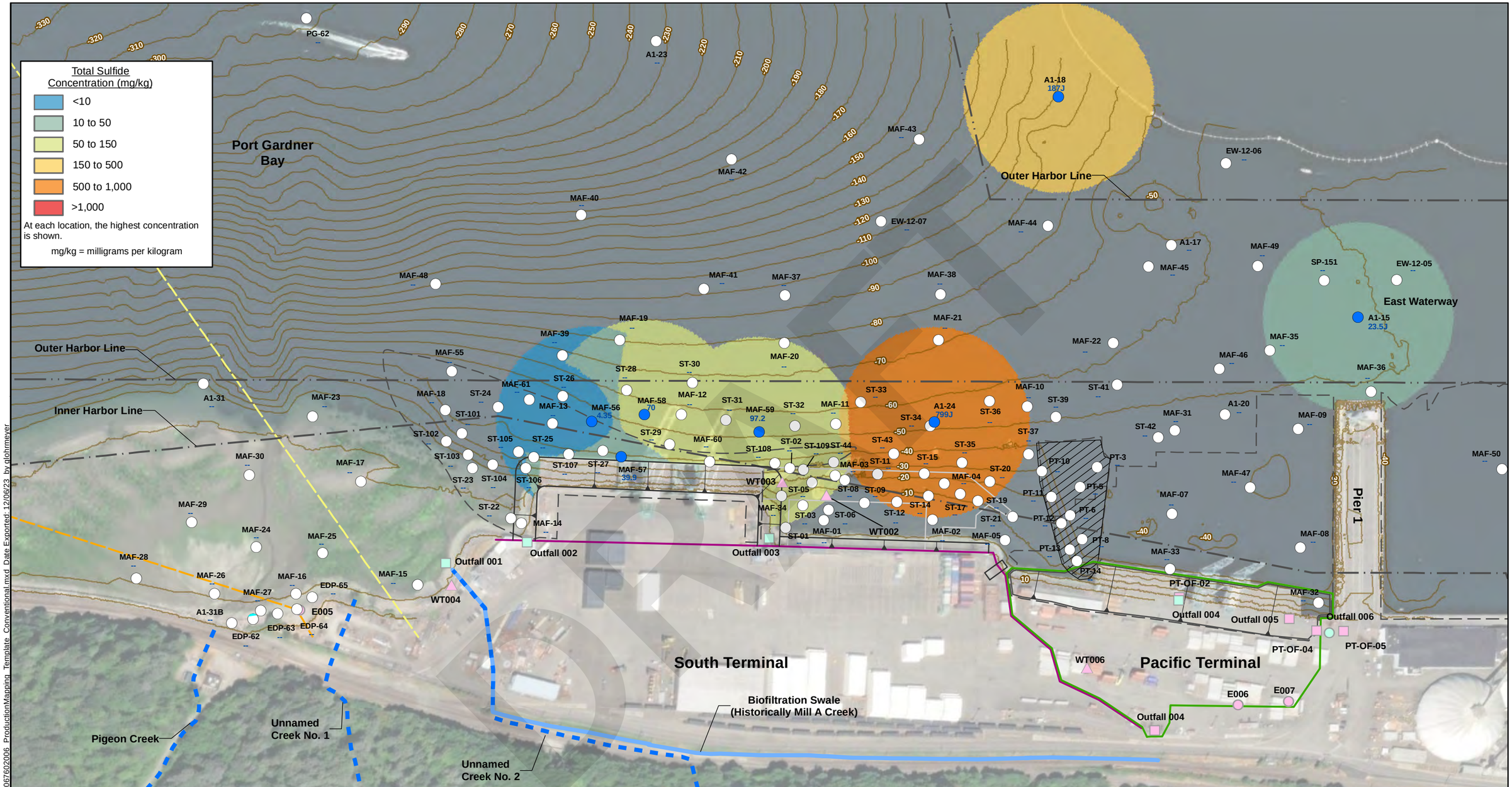
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- Dredged Area
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- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
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- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Sulfide Concentration Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-67



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300 0 300
Feet

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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

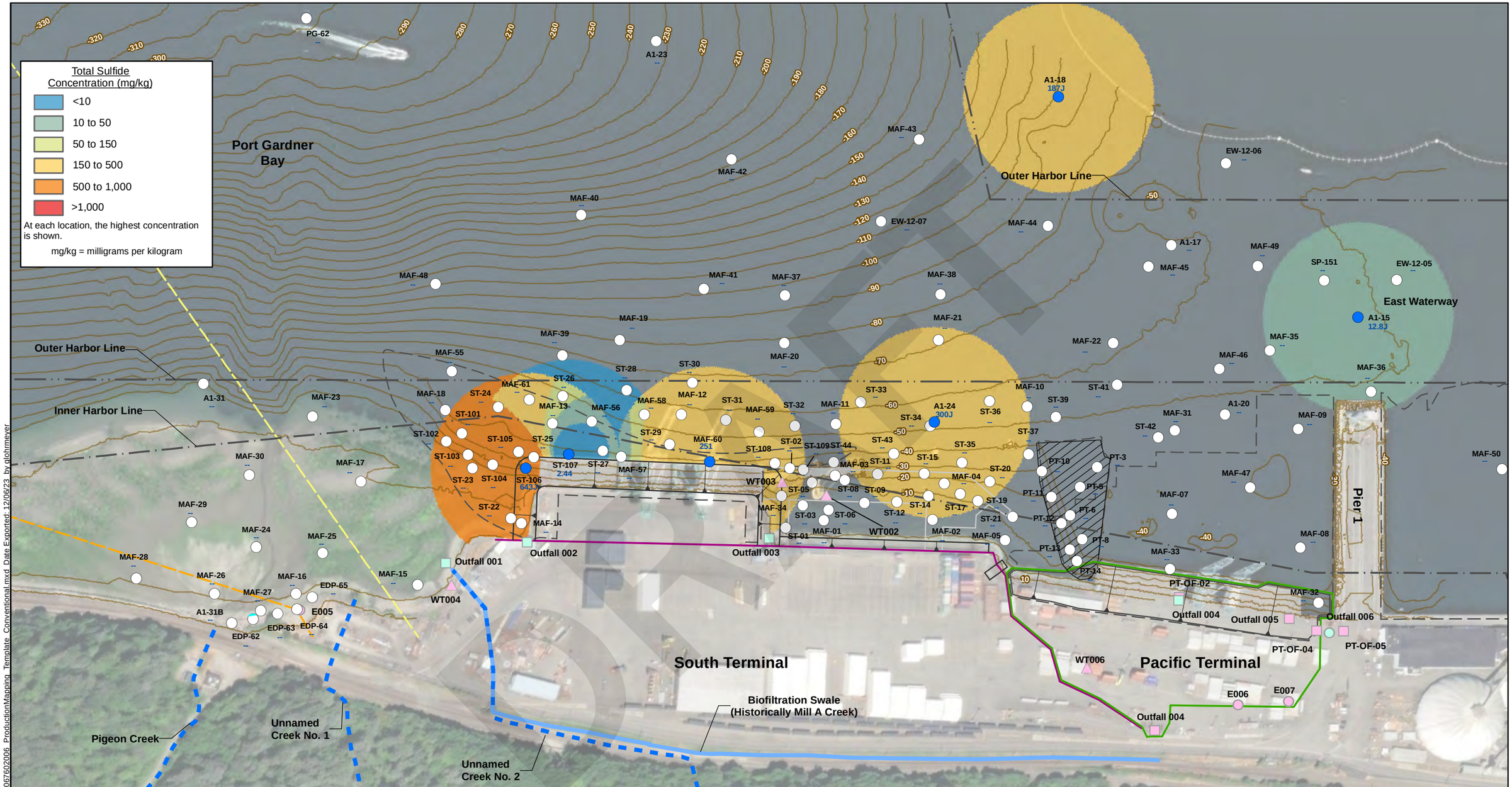
MAF-01 Sample Location Identification
1.22 Result
- Construction Berm
- Historical Piling Area
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- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
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- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
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- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Sulfide Concentration Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-68



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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
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- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
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- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
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- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

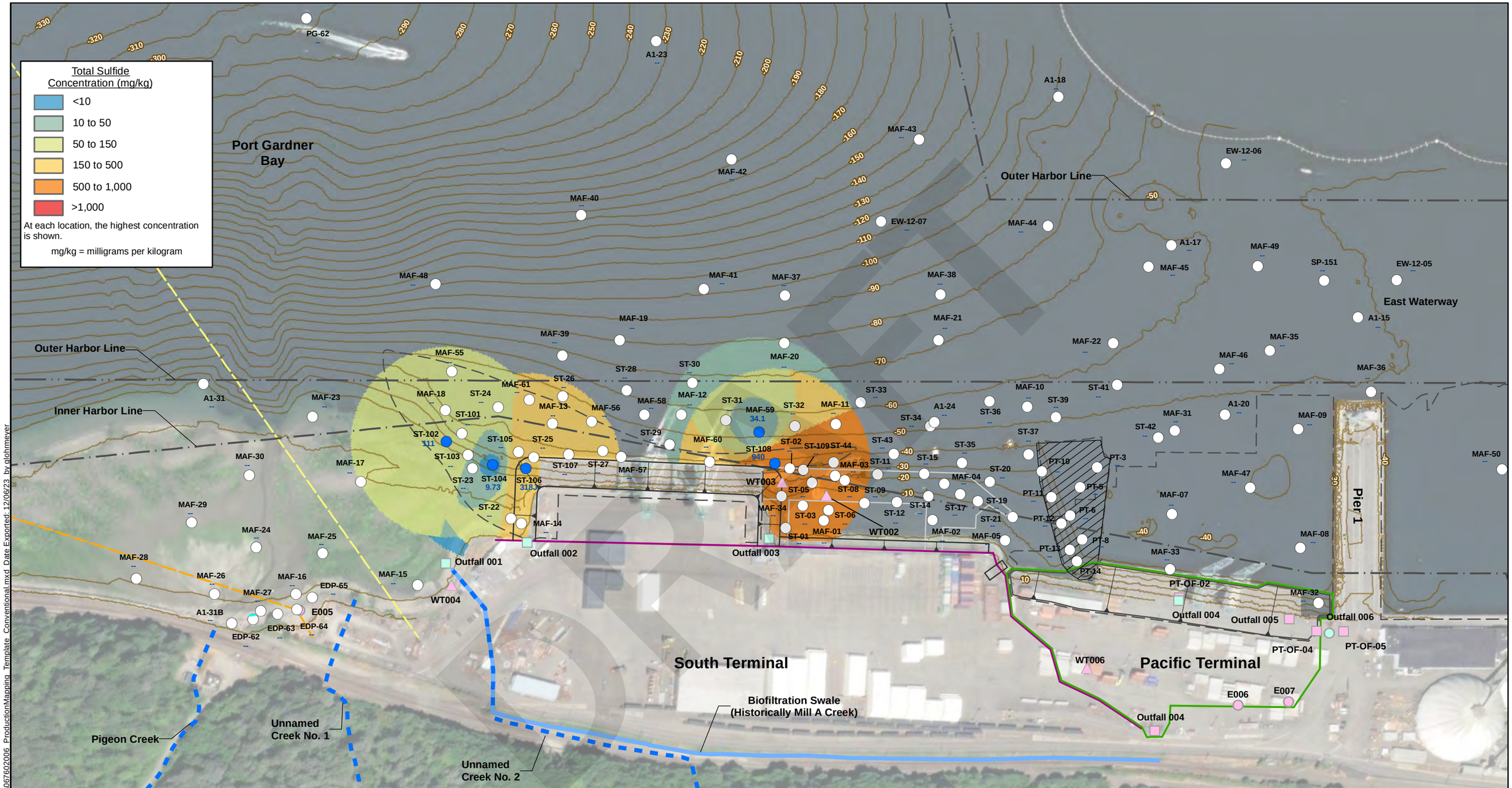
Total Sulfide Concentration Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-69

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N W E S

300 0 300

Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result

Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

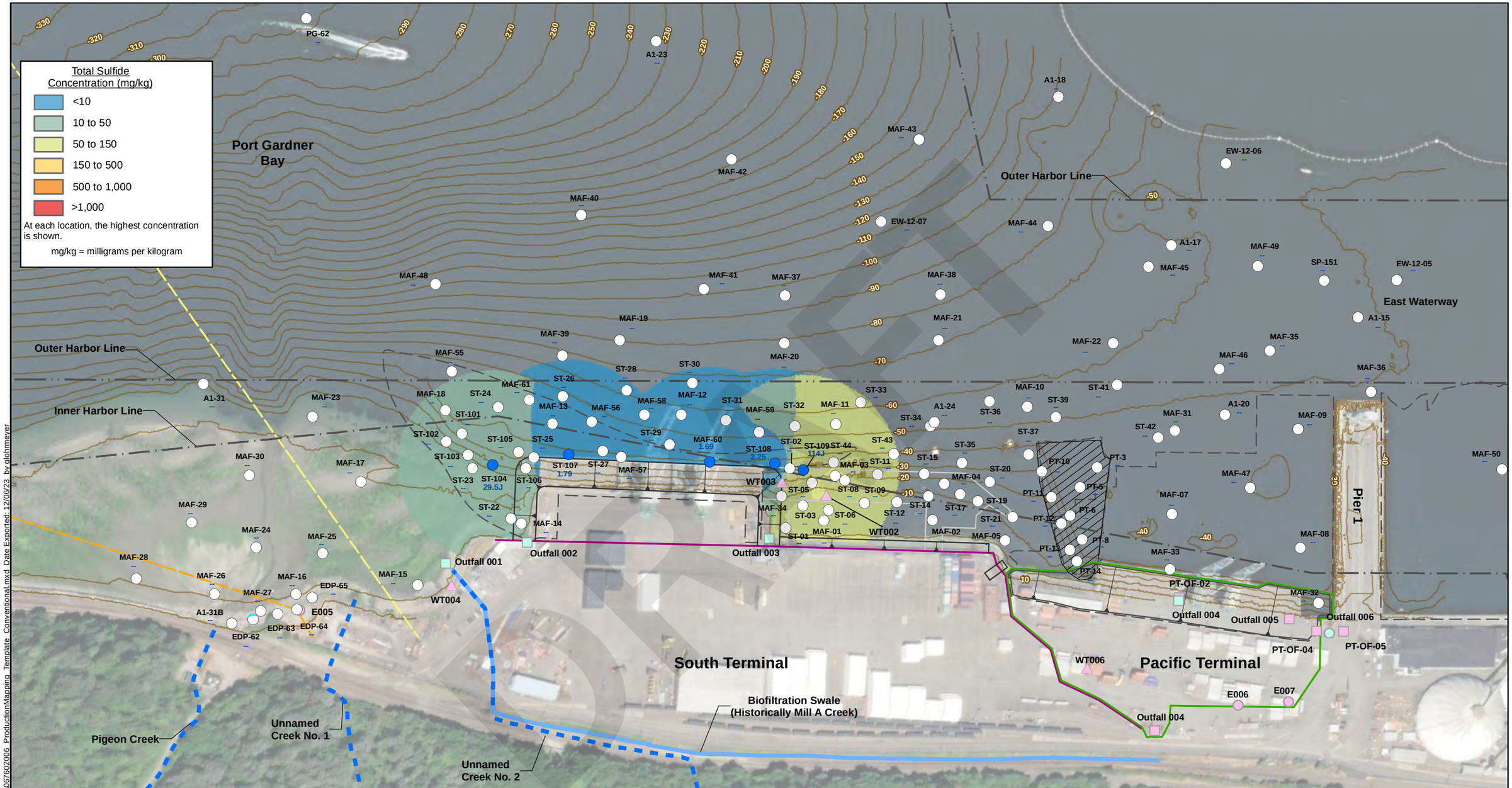
Total Sulfide Concentration Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-70

P:\0067602G\GIS\MXD\MarineArea_RI_Report\0067602006_ProductionMapping_Template_Conventional.mxd Date Exported: 12/06/23 by glohrmeyer



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Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

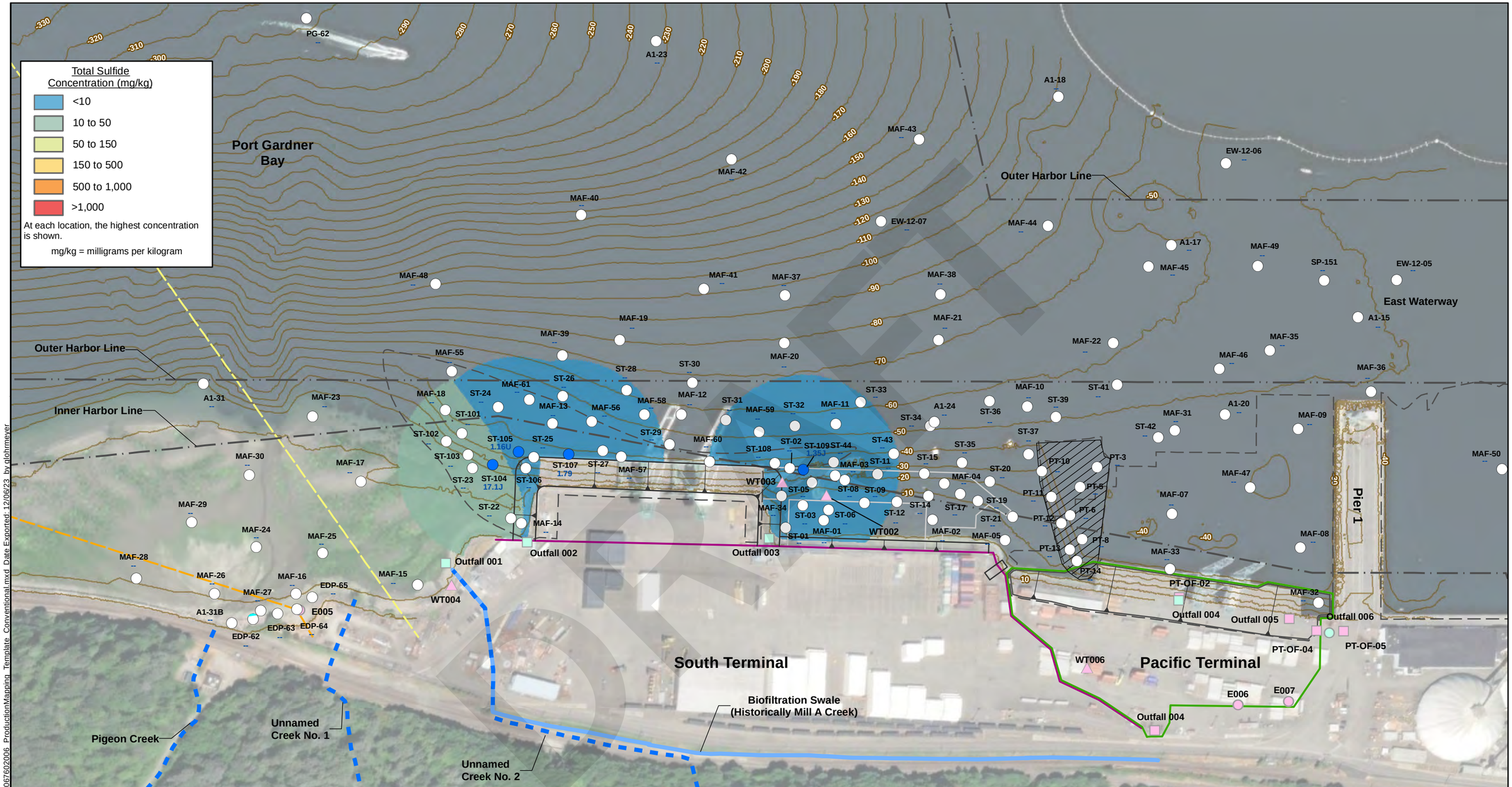
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Sulfide Concentration Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-71



Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

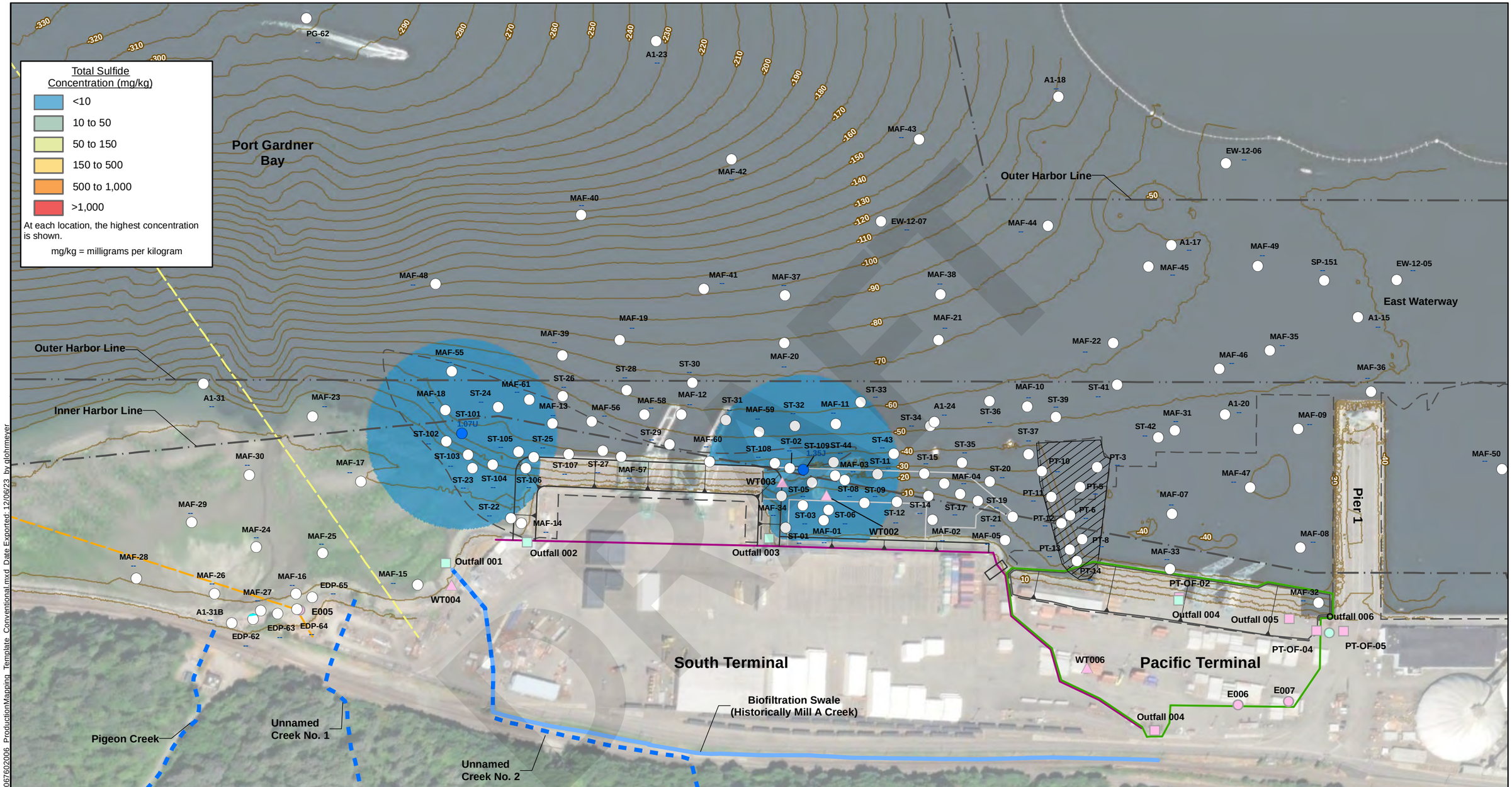
Total Sulfide Concentration Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-72

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

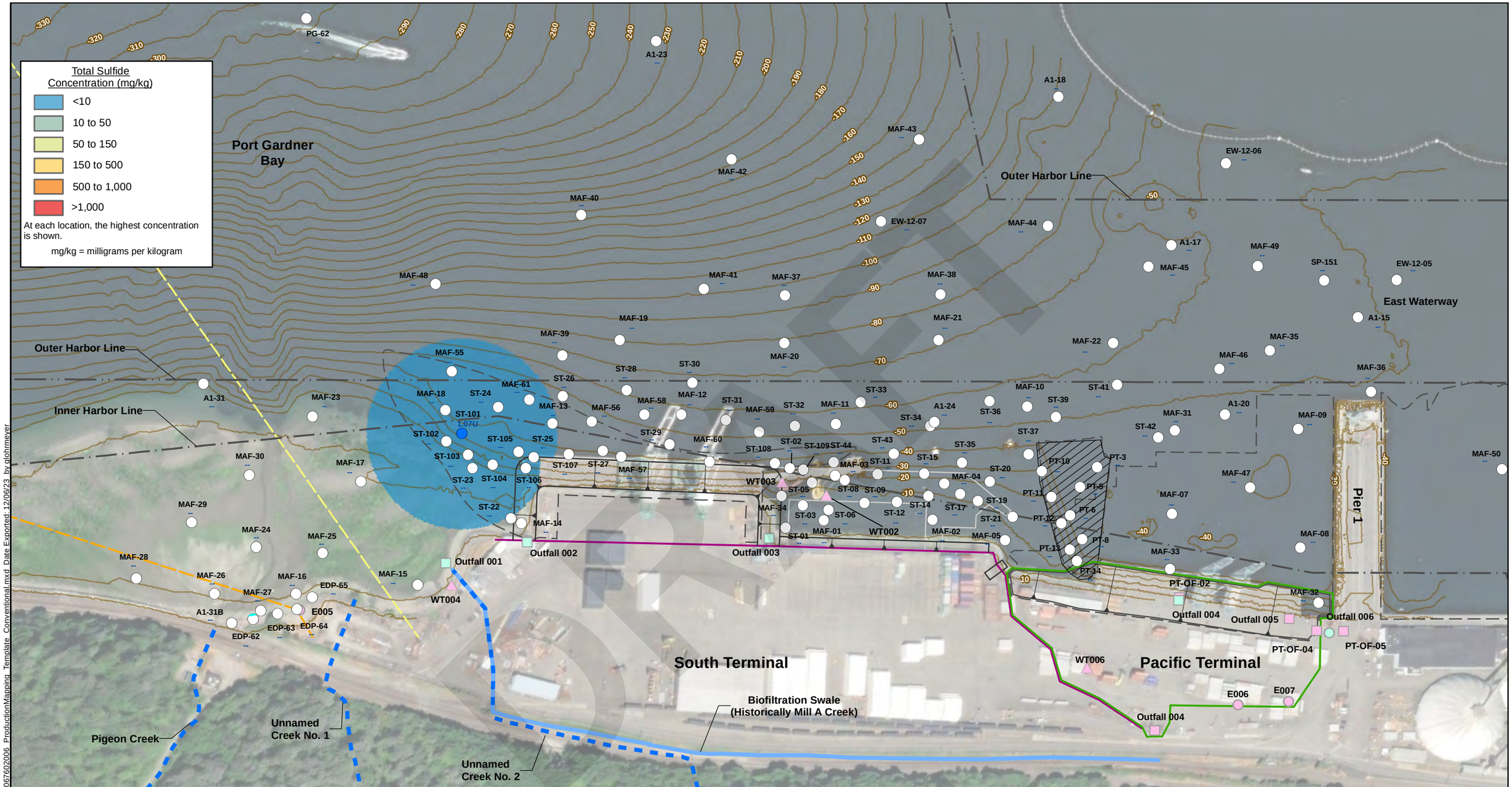
Total Sulfide Concentration Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-73

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300 0 300
Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

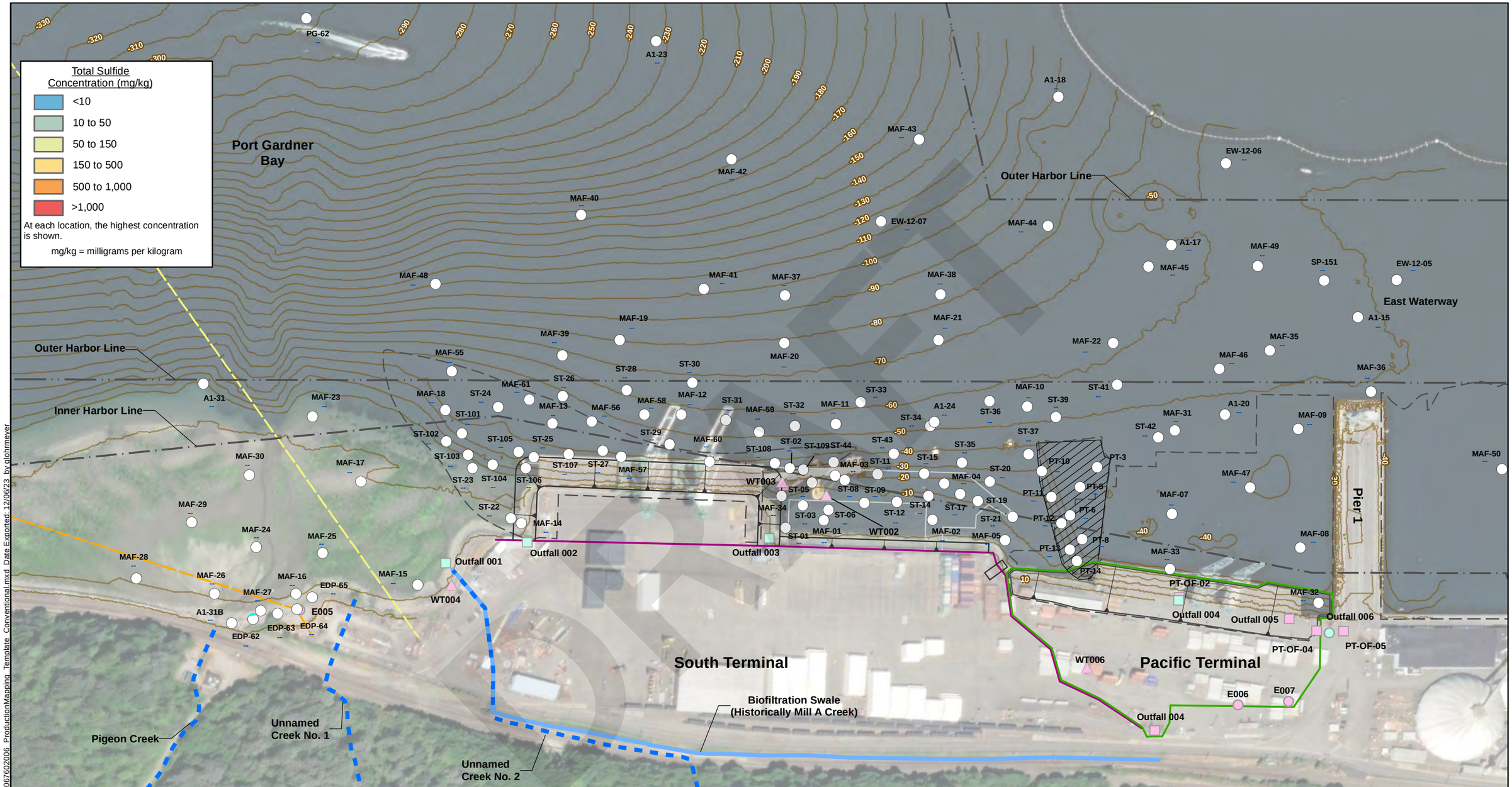
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Sulfide Concentration Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-74



Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

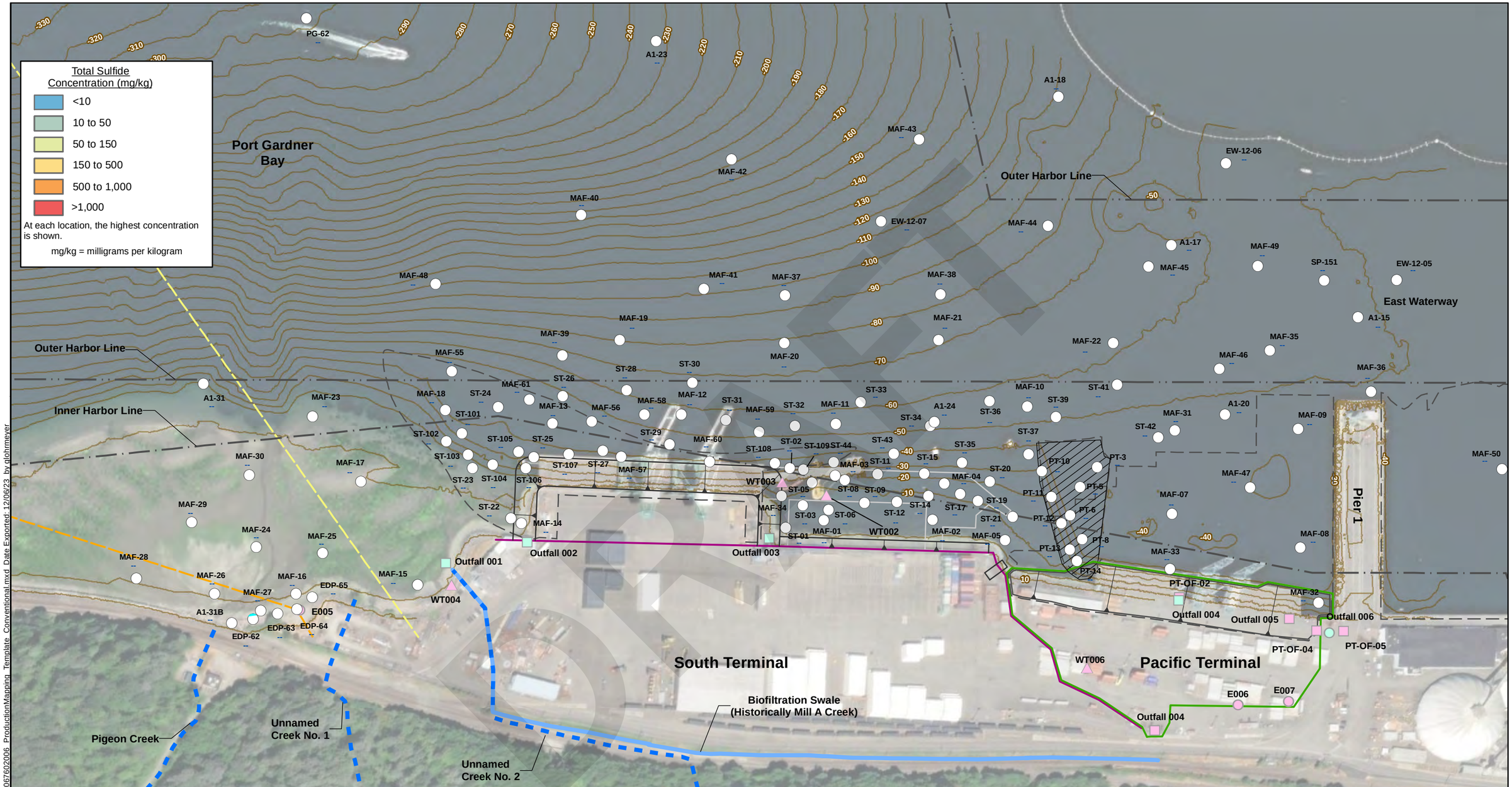
Total Sulfide Concentration Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-75

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
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- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

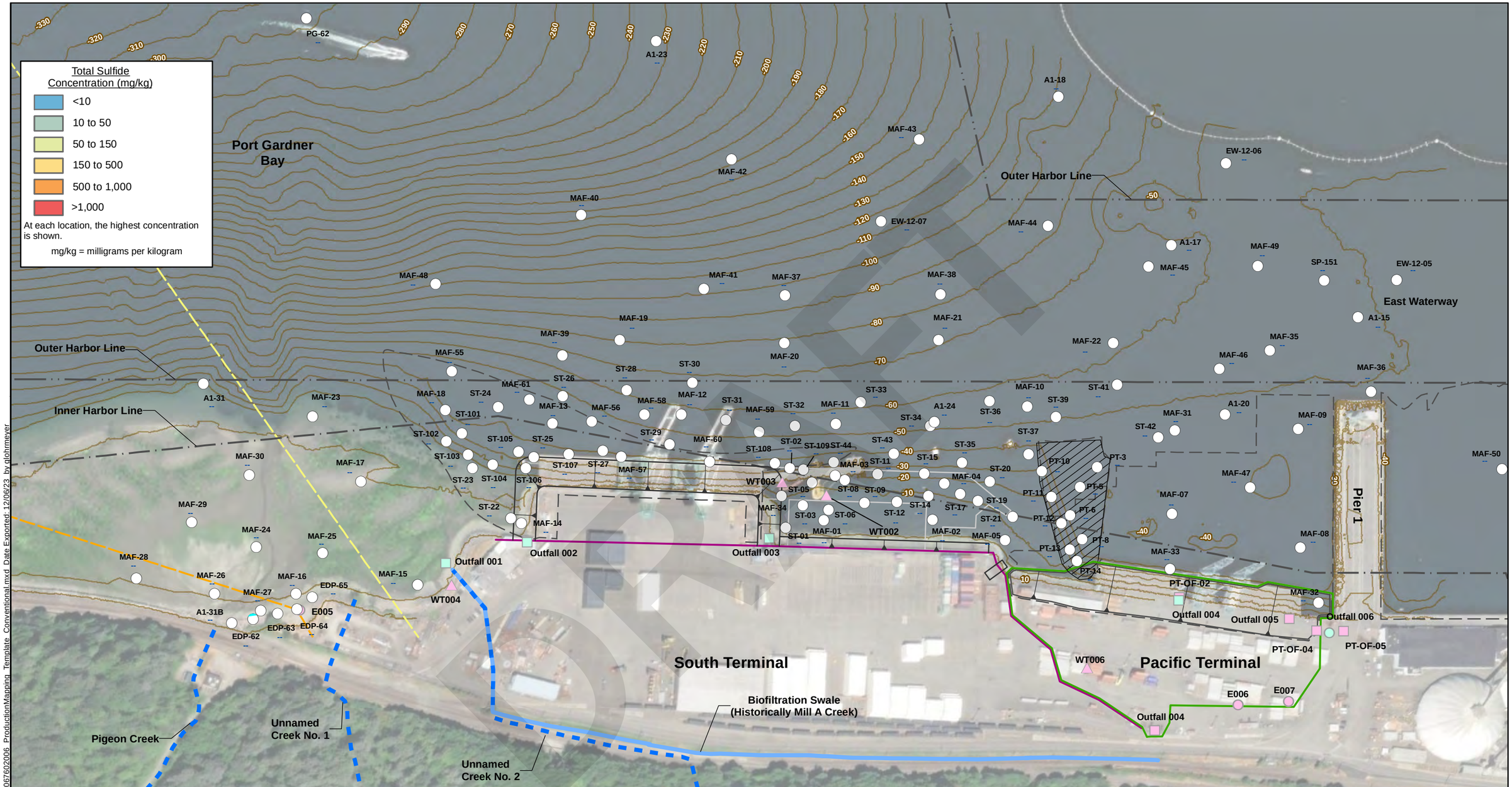
Total Sulfide Concentration Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-76

DRAFT



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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

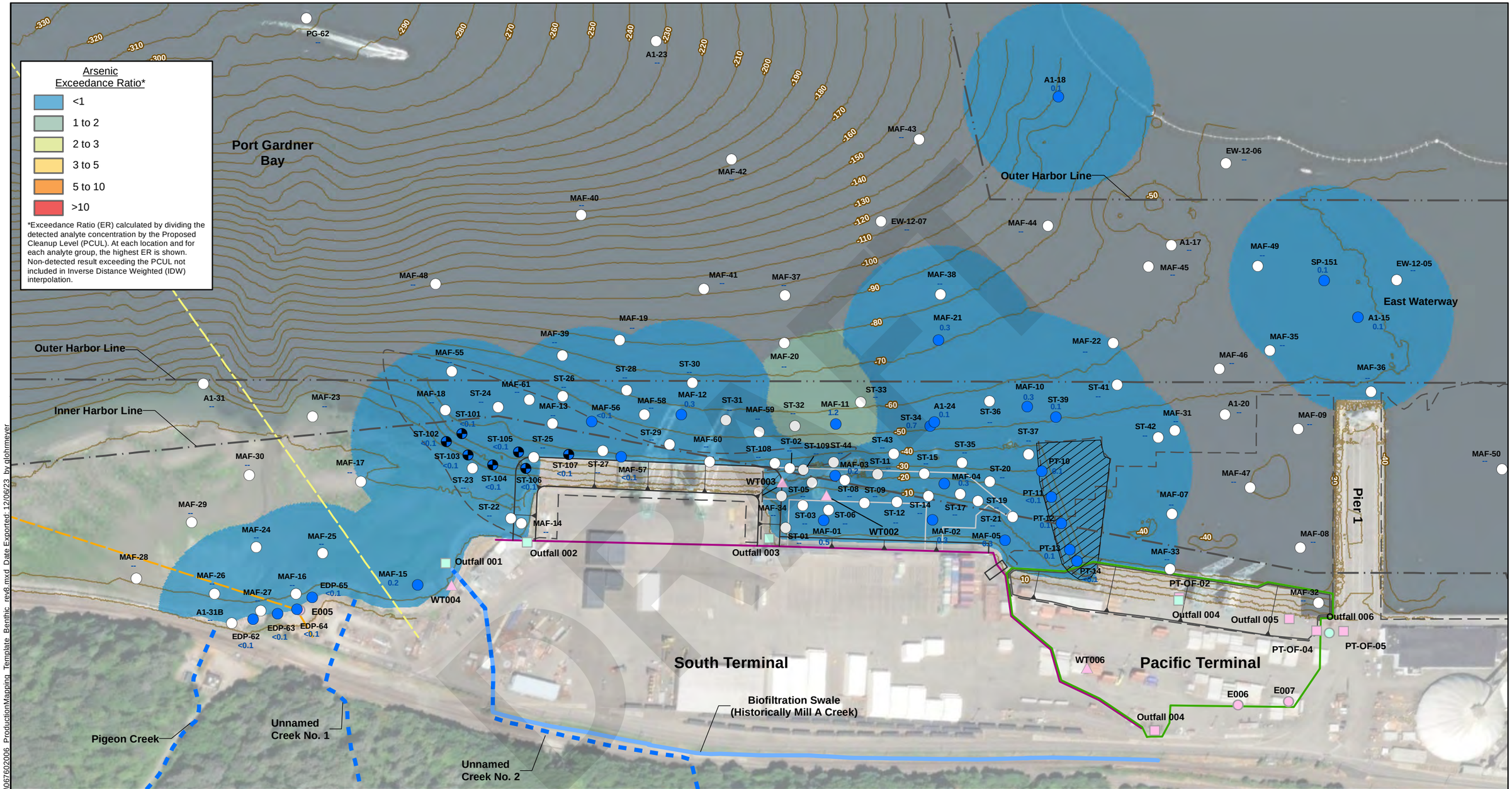
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Sulfide Concentration Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-77



Arsenic Results (Benthic) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-78

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Arsenic
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed
Creek No. 1

Unnamed
Creek No. 2

PG-62 A1-23 A1-18 0.1 MAF-43 MAF-42 EW-12-06 MAF-40 EW-12-07 MAF-44 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 MAF-48 MAF-41 MAF-37 MAF-38 A1-15 0.1 MAF-19 MAF-21 MAF-39 MAF-22 MAF-35 MAF-46 MAF-55 MAF-20 ST-28 ST-30 MAF-36 ST-26 MAF-61 MAF-10 ST-41 MAF-18 ST-24 MAF-12 0.2 ST-31 ST-33 ST-39 0.1 A1-31 MAF-23 MAF-13 MAF-56 <0.1 MAF-58 <0.1 MAF-59 0.1 ST-32 MAF-11 0.7 A1-24 0.3 ST-36 A1-20 ST-101 <0.1 MAF-31 MAF-09 ST-102 <0.1 ST-105 <0.1 ST-25 ST-29 MAF-60 ST-02 ST-109 ST-44 ST-43 ST-34 0.7 ST-37 ST-42 MAF-30 ST-103 <0.1 ST-104 <0.1 ST-107 <0.1 ST-27 MAF-57 <0.1 ST-108 ST-35 MAF-50 MAF-17 ST-23 ST-106 MAF-03 ST-11 ST-15 ST-20 PT-10 MAF-04 0.3 WT003 ST-05 ST-08 ST-09 ST-19 PT-11 MAF-47 MAF-07 MAF-29 ST-22 MAF-34 ST-03 ST-06 ST-12 ST-14 ST-17 ST-21 PT-12 MAF-14 MAF-01 WT002 MAF-02 MAF-05 MAF-24 MAF-25 ST-01 PT-13 MAF-08 MAF-33 MAF-28 PT-14 MAF-26 MAF-16 MAF-15 EDP-65 <0.1 PT-OF-02 MAF-27 MAF-32 A1-31B E005 EDP-63 <0.1 EDP-64 <0.1 Outfall 004 Outfall 005 Outfall 006 EDP-62 <0.1 PT-OF-04 PT-OF-05 WT006 E006 E007 Outfall 004

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Arsenic Results (Benthic) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-79

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Arsenic
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

PT-OF-02

PT-OF-04

PT-OF-05

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18 0.1

A1-17

A1-15 0.1

A1-31

A1-31B

A1-24 0.3

MAF-01 0.4

MAF-02 0.2

MAF-03 0.1

MAF-04 0.3

MAF-05 0.2

MAF-34 0.1

ST-101 <0.1

ST-102 <0.1

ST-103 <0.1

ST-104 <0.1

ST-105 <0.1

ST-106 <0.1

ST-107 <0.1

MAF-60 <0.1

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-42

MAF-43

MAF-40

MAF-44

MAF-45

MAF-49

MAF-48

MAF-41

MAF-37

MAF-38

MAF-19

MAF-39

MAF-20

MAF-21

MAF-22

MAF-35

MAF-46

MAF-36

MAF-55

MAF-61

ST-26

ST-28

ST-30

MAF-18

ST-24

MAF-13

MAF-56

MAF-58

MAF-12

ST-31

MAF-59

ST-32

MAF-11

ST-33

MAF-10

ST-41

ST-39

MAF-23

MAF-30

MAF-17

ST-25

ST-29

ST-27

MAF-57

ST-108

ST-02

ST-109

ST-44

ST-43

ST-15

ST-35

ST-37

ST-42

MAF-31

A1-20

MAF-09

MAF-50

MAF-47

MAF-07

MAF-08

MAF-33

MAF-32

PT-10

PT-11

PT-12

PT-13

PT-14

ST-20

ST-19

ST-17

ST-21

ST-14

ST-12

ST-08

ST-09

ST-05

ST-06

ST-03

ST-01

ST-11

ST-23

ST-22

MAF-14

MAF-29

MAF-24

MAF-25

MAF-28

MAF-26

MAF-27

MAF-16

MAF-15

EDP-65

EDP-64

EDP-63

EDP-62

E005

E006

E007

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 / 1.22 Sample Location Identification / Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Arsenic Results (Benthic) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-80

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Arsenic
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18

A1-17

A1-15

A1-20

A1-24

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01

MAF-02

MAF-03

MAF-04

MAF-05

MAF-06

MAF-07

MAF-08

MAF-09

MAF-10

MAF-11

MAF-12

MAF-13

MAF-14

MAF-15

MAF-16

MAF-17

MAF-18

MAF-19

MAF-20

MAF-21

MAF-22

MAF-23

MAF-24

MAF-25

MAF-26

MAF-27

MAF-28

MAF-29

MAF-30

MAF-31

MAF-32

MAF-33

MAF-34

MAF-35

MAF-36

MAF-37

MAF-38

MAF-39

MAF-40

MAF-41

MAF-42

MAF-43

MAF-44

MAF-45

MAF-46

MAF-47

MAF-48

MAF-49

MAF-50

MAF-55

MAF-56

MAF-57

MAF-58

MAF-59

MAF-60

MAF-61

ST-01

ST-02

ST-03

ST-05

ST-06

ST-08

ST-09

ST-11

ST-12

ST-14

ST-15

ST-17

ST-19

ST-20

ST-21

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ST-35

ST-36

ST-37

ST-39

ST-41

ST-42

ST-43

ST-44

ST-101

ST-102

ST-103

ST-104

ST-105

ST-106

ST-107

ST-108

ST-109

PT-10

PT-11

PT-12

PT-13

PT-14

PT-OF-02

PT-OF-04

PT-OF-05

E005

E006

E007

EDP-62

EDP-63

EDP-64

EDP-65

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

DRAFT

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N
W E
S

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Arsenic Results (Benthic) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-81

Arsenic
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

E005

E006

E007

PG-62

A1-23

A1-18

A1-17

A1-15

A1-20

A1-24

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-40

MAF-41

MAF-42

MAF-43

MAF-44

MAF-45

MAF-46

MAF-47

MAF-48

MAF-49

MAF-50

MAF-55

MAF-56

MAF-57

MAF-58

MAF-59

MAF-60

MAF-61

MAF-01

MAF-02

MAF-03

MAF-04

MAF-05

MAF-07

MAF-08

MAF-09

MAF-10

MAF-11

MAF-12

MAF-13

MAF-14

MAF-15

MAF-16

MAF-17

MAF-18

MAF-19

MAF-20

MAF-21

MAF-22

MAF-23

MAF-24

MAF-25

MAF-26

MAF-27

MAF-28

MAF-29

MAF-30

MAF-31

MAF-32

MAF-33

MAF-34

MAF-35

MAF-36

MAF-37

MAF-38

MAF-39

ST-01

ST-02

ST-03

ST-05

ST-06

ST-08

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ST-10

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ST-42

ST-43

ST-44

ST-101

ST-102

ST-103

ST-104

ST-105

ST-106

ST-107

ST-108

ST-109

PT-10

PT-11

PT-12

PT-13

PT-14

PT-OF-02

PT-OF-04

PT-OF-05

EDP-62

EDP-63

EDP-64

EDP-65

<0.1

0.1

0.3

-10

-20

-30

-40

-50

-60

-70

-80

-90

-100

-110

-120

-130

-140

-150

-160

-170

-180

-190

-200

-210

-220

-230

-240

-250

-260

-270

-280

-290

-300

-310

-320

-330

-40

-50

-60

-70

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

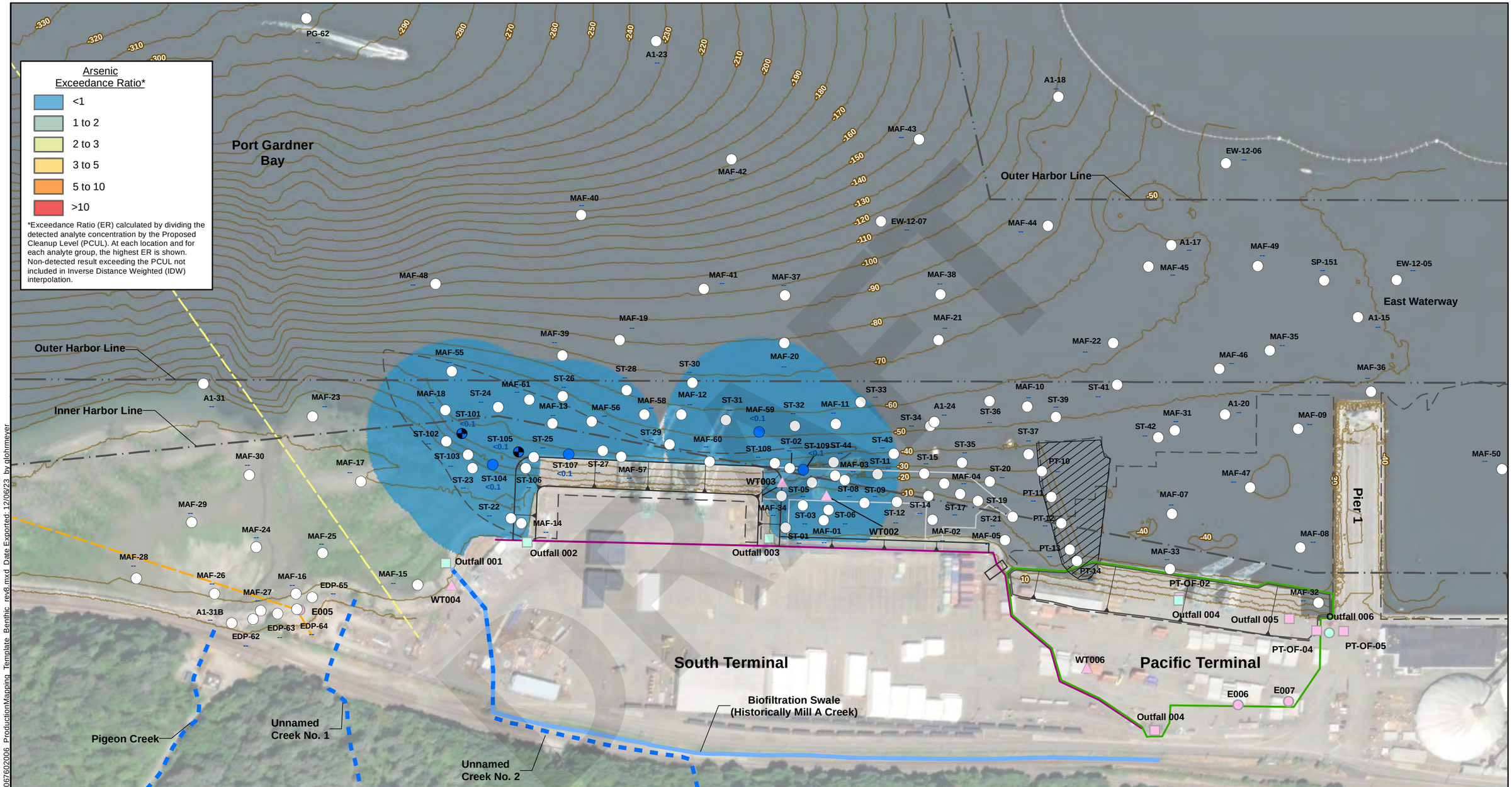
Arsenic Results (Benthic) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-82

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Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

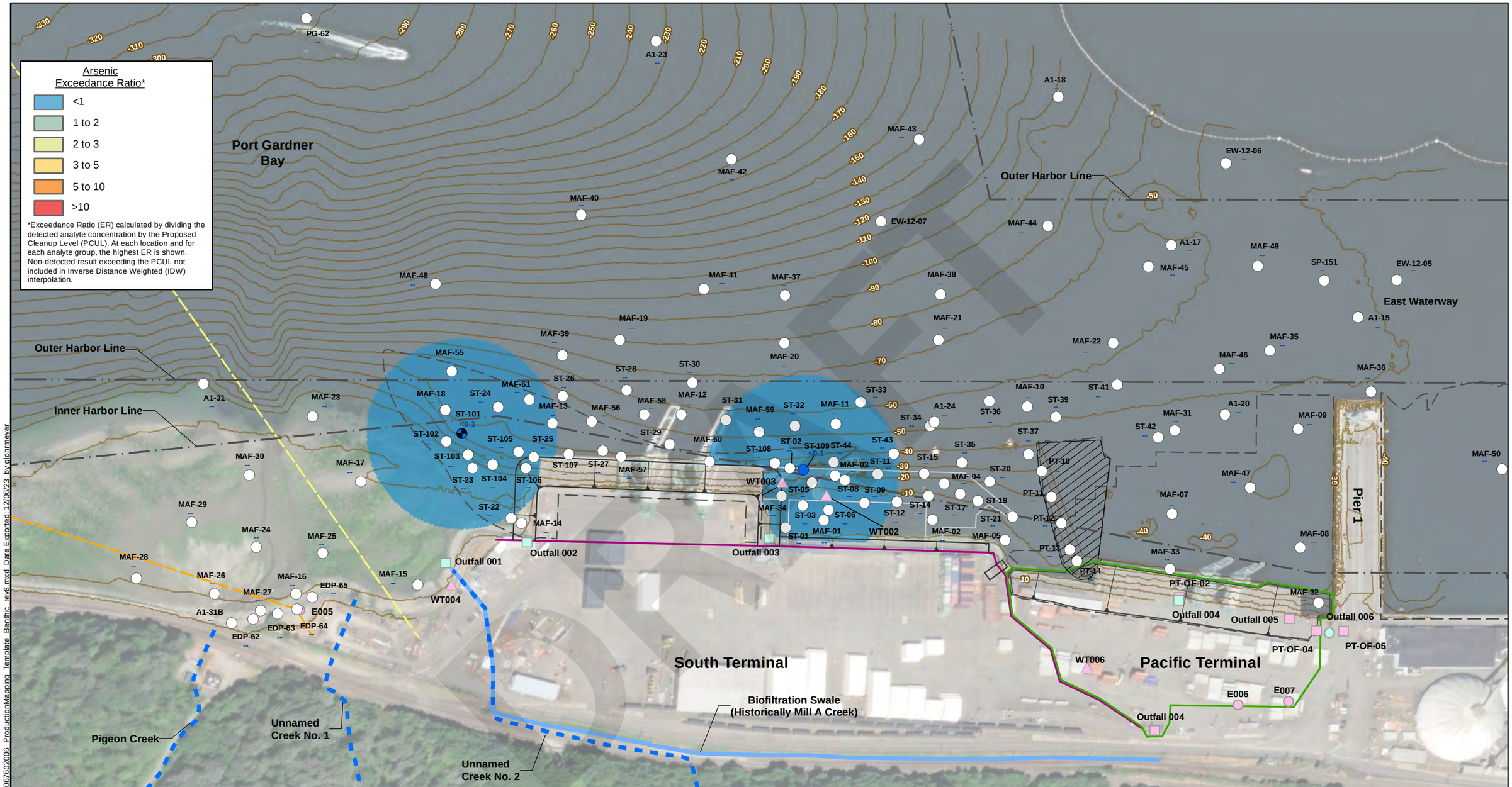
Arsenic Results (Benthic) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-83

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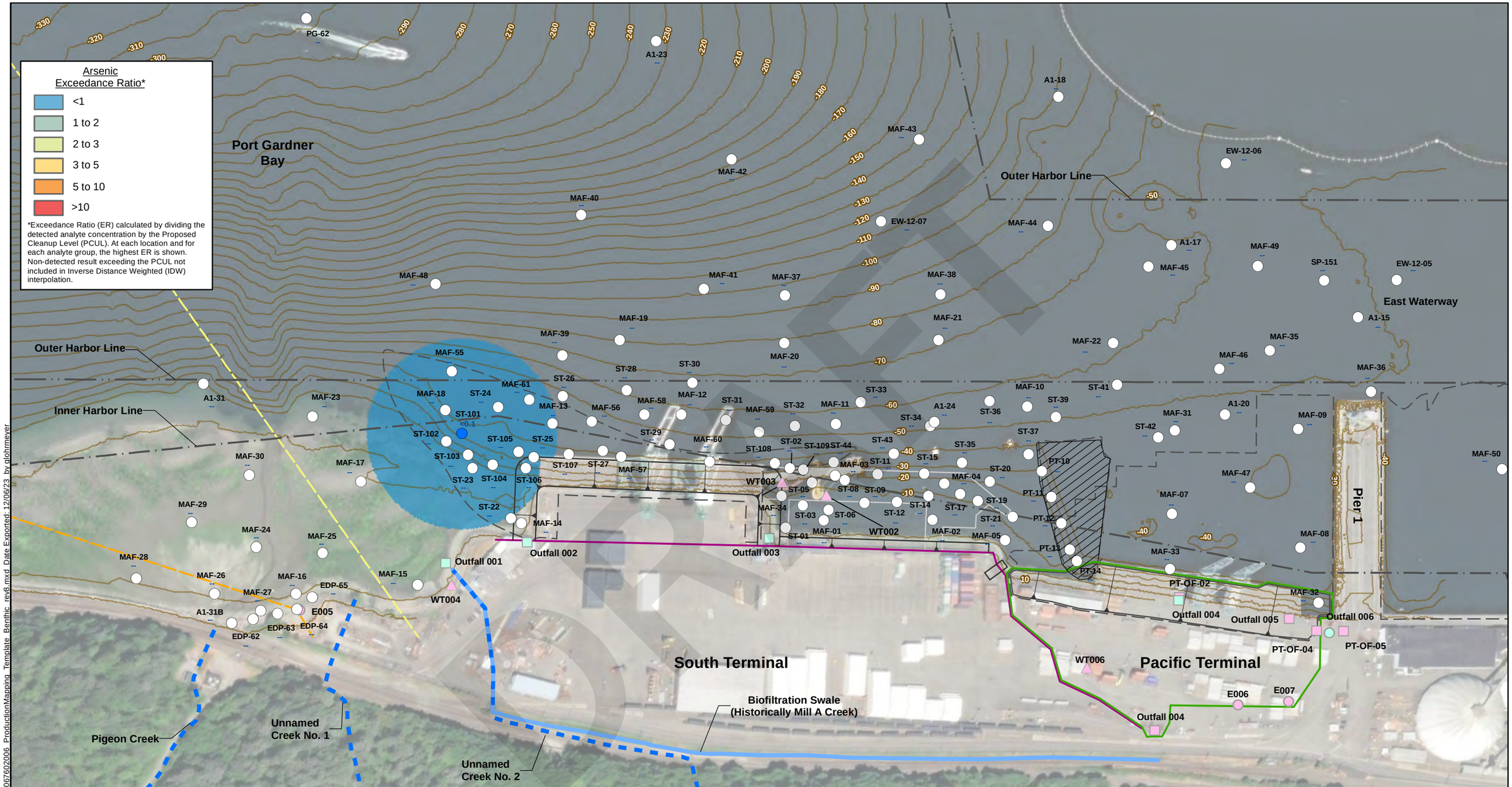
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Arsenic Results (Benthic) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-84



Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

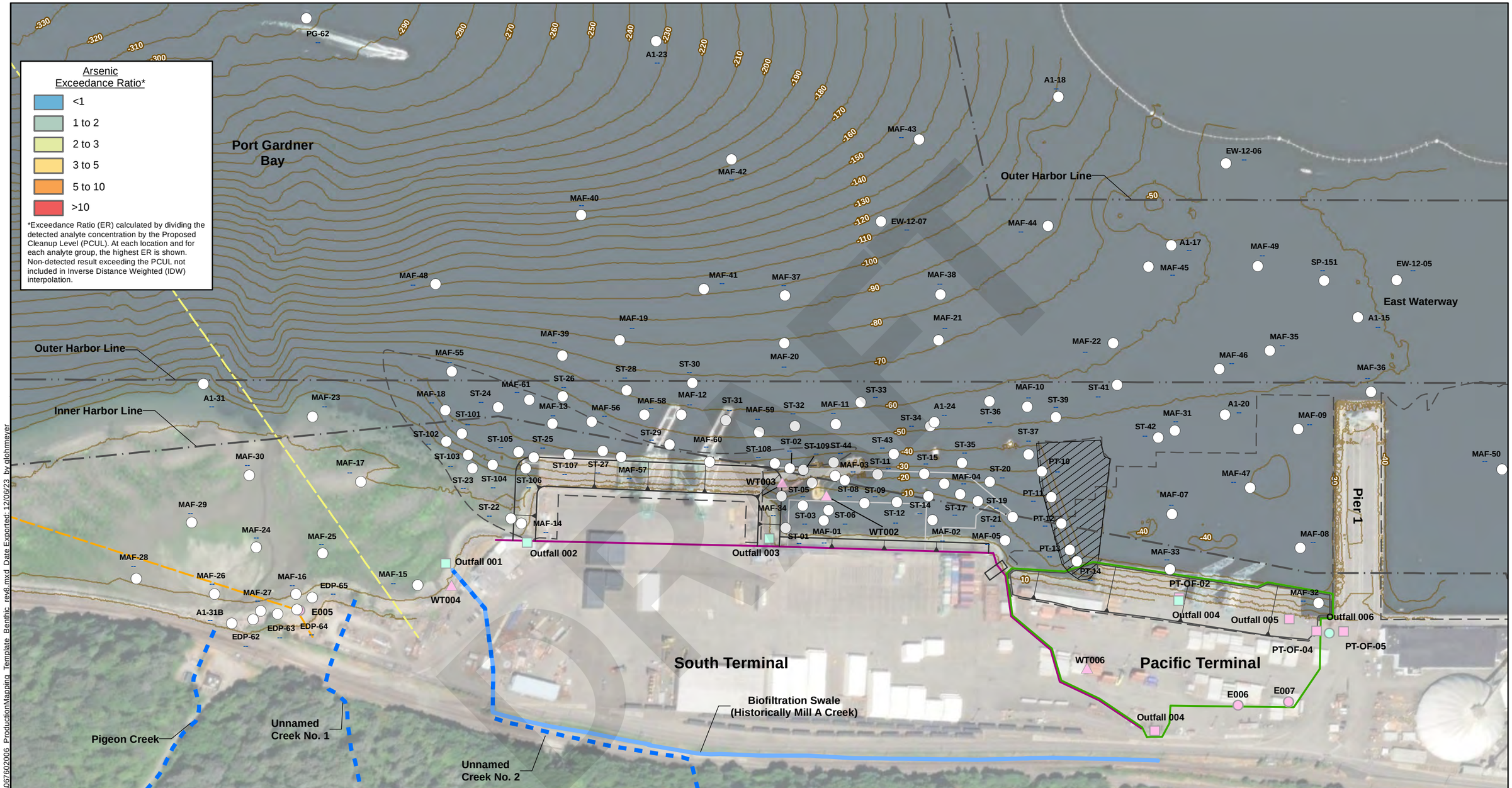
Arsenic Results (Benthic) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-85

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Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

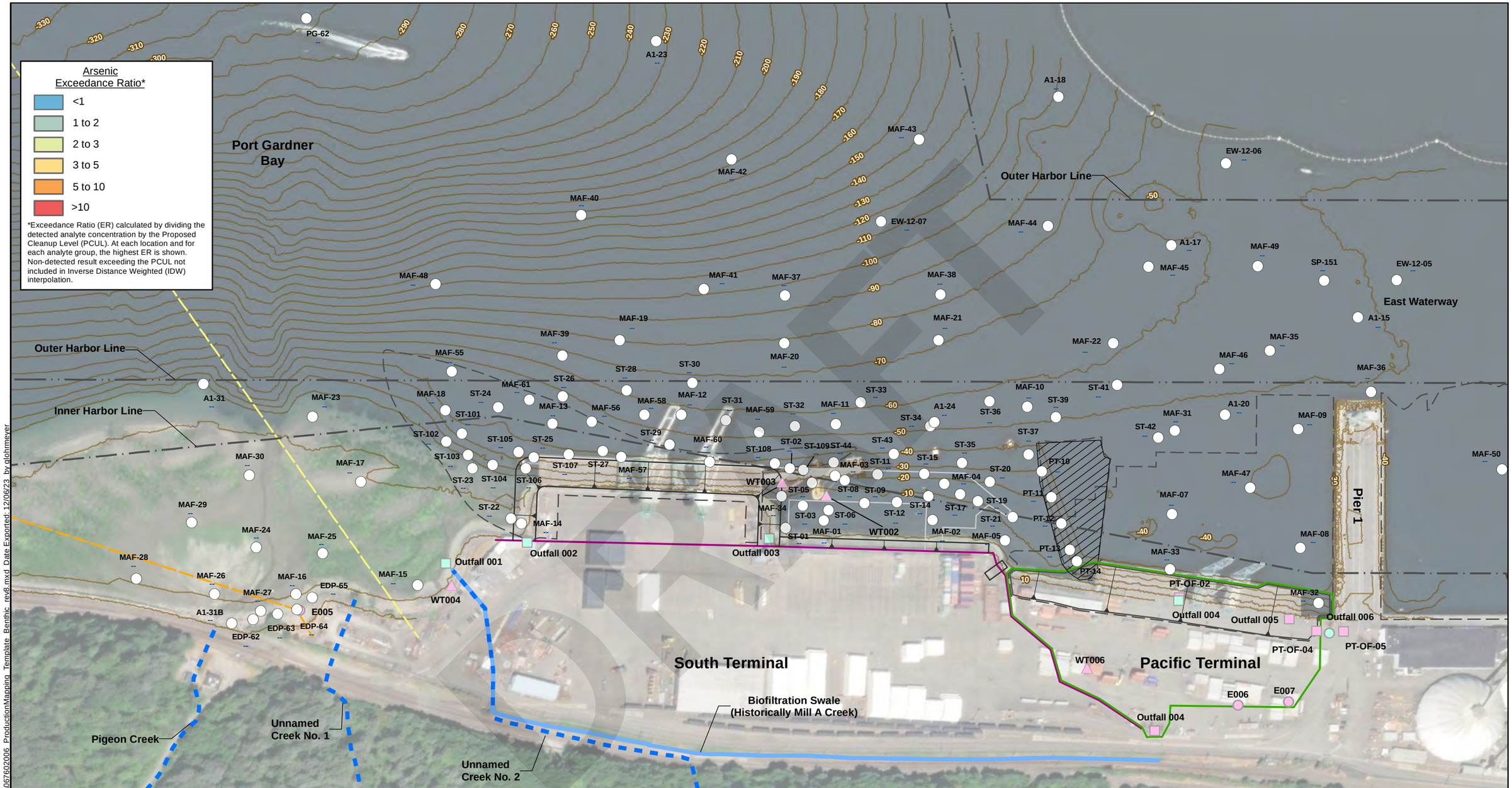
Arsenic Results (Benthic) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-86

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300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Arsenic Results (Benthic) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-87

Arsenic
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed
Creek No. 1

Unnamed
Creek No. 2

PG-62 A1-23 A1-18 MAF-43 MAF-42 MAF-40 EW-12-07 MAF-44 EW-12-06 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 A1-15 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-39 MAF-21 MAF-22 MAF-35 MAF-46 MAF-36 MAF-55 ST-26 ST-28 ST-30 MAF-61 MAF-18 ST-24 MAF-13 MAF-56 MAF-58 MAF-12 ST-31 MAF-59 ST-32 MAF-11 ST-33 MAF-10 ST-41 ST-39 A1-24 ST-36 A1-20 MAF-31 MAF-09 ST-42 ST-37 A1-31 MAF-23 ST-101 ST-102 ST-105 ST-25 MAF-60 ST-29 ST-108 ST-02 ST-109 ST-44 ST-43 ST-35 MAF-50 MAF-30 MAF-17 ST-103 ST-107 ST-27 MAF-57 MAF-03 ST-11 ST-15 ST-20 PT-10 MAF-47 ST-23 ST-104 ST-106 WT003 ST-05 ST-08 ST-09 MAF-04 PT-11 MAF-07 ST-22 MAF-14 ST-03 ST-06 ST-12 ST-14 ST-17 ST-19 MAF-34 PT-12 ST-21 MAF-29 MAF-24 MAF-25 ST-01 MAF-01 WT002 MAF-02 MAF-05 PT-13 MAF-08 MAF-33 PT-14 MAF-28 MAF-26 MAF-16 MAF-15 EDP-65 MAF-27 E005 A1-31B EDP-62 EDP-63 EDP-64 WT004 PT-OF-02 MAF-32 PT-OF-04 PT-OF-05 WT006 E006 E007

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

<0.1 0.1 0.3

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Arsenic Results (Benthic) Subsurface Sediment (20-22 ft)

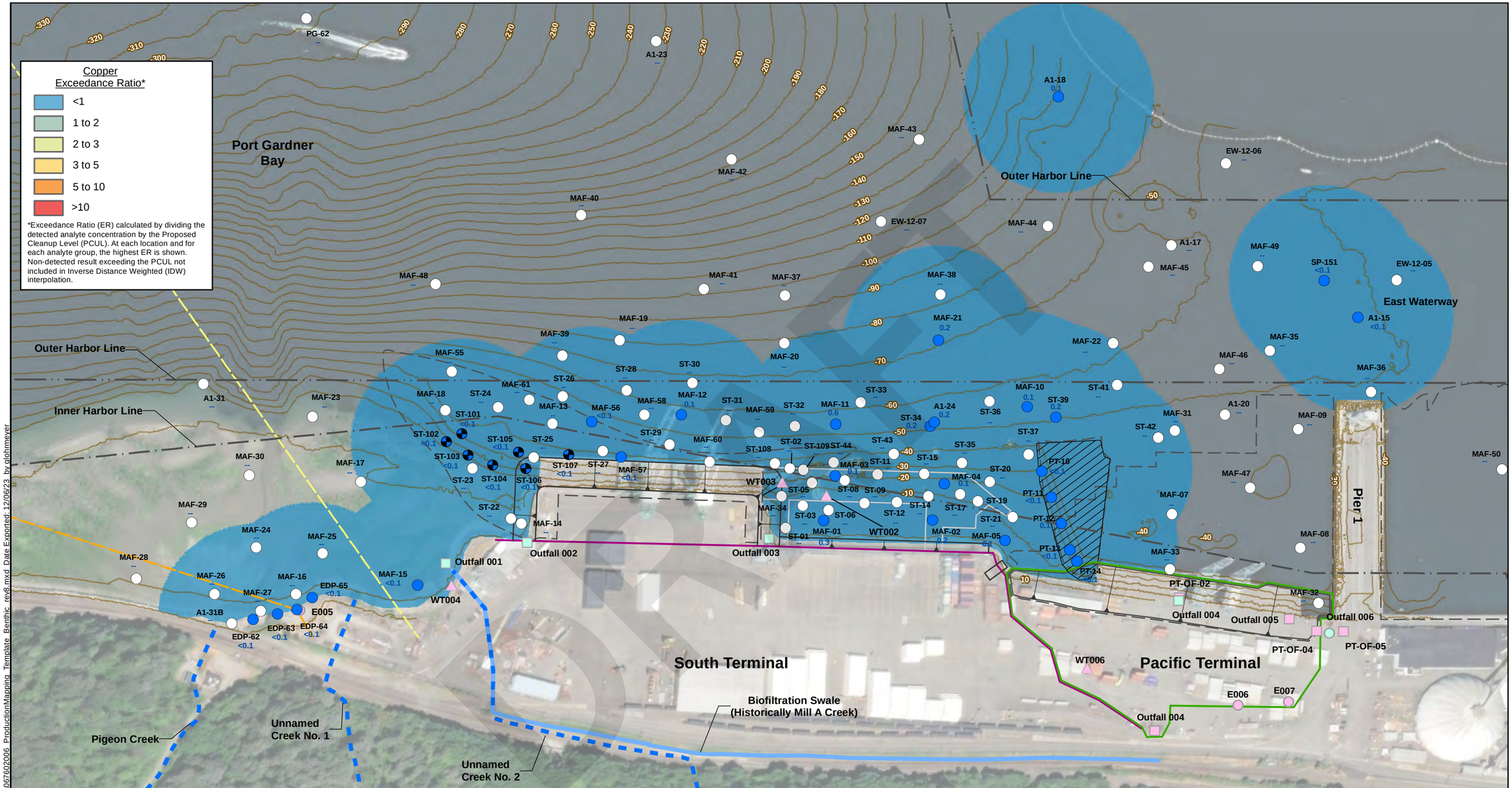
Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-88

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Copper Results (Benthic) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-89

Copper
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed
Creek No. 1

Unnamed
Creek No. 2

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Copper Results (Benthic) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-90

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Copper
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed
Creek No. 1

Unnamed
Creek No. 2

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 / 1.22 Sample Location Identification / Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Copper Results (Benthic) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-91

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Copper
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay
Outer Harbor Line
Inner Harbor Line
East Waterway
Pier 1
South Terminal
Pacific Terminal
Pigeon Creek
Unnamed Creek No. 1
Unnamed Creek No. 2
Biofiltration Swale (Historically Mill A Creek)
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
WT001
WT002
WT003
WT004
WT006
E005
E006
E007
PT-OF-02
PT-OF-04
PT-OF-05

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P:\0067692006\GIS\MXD\MarineArea_RI_Report\

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

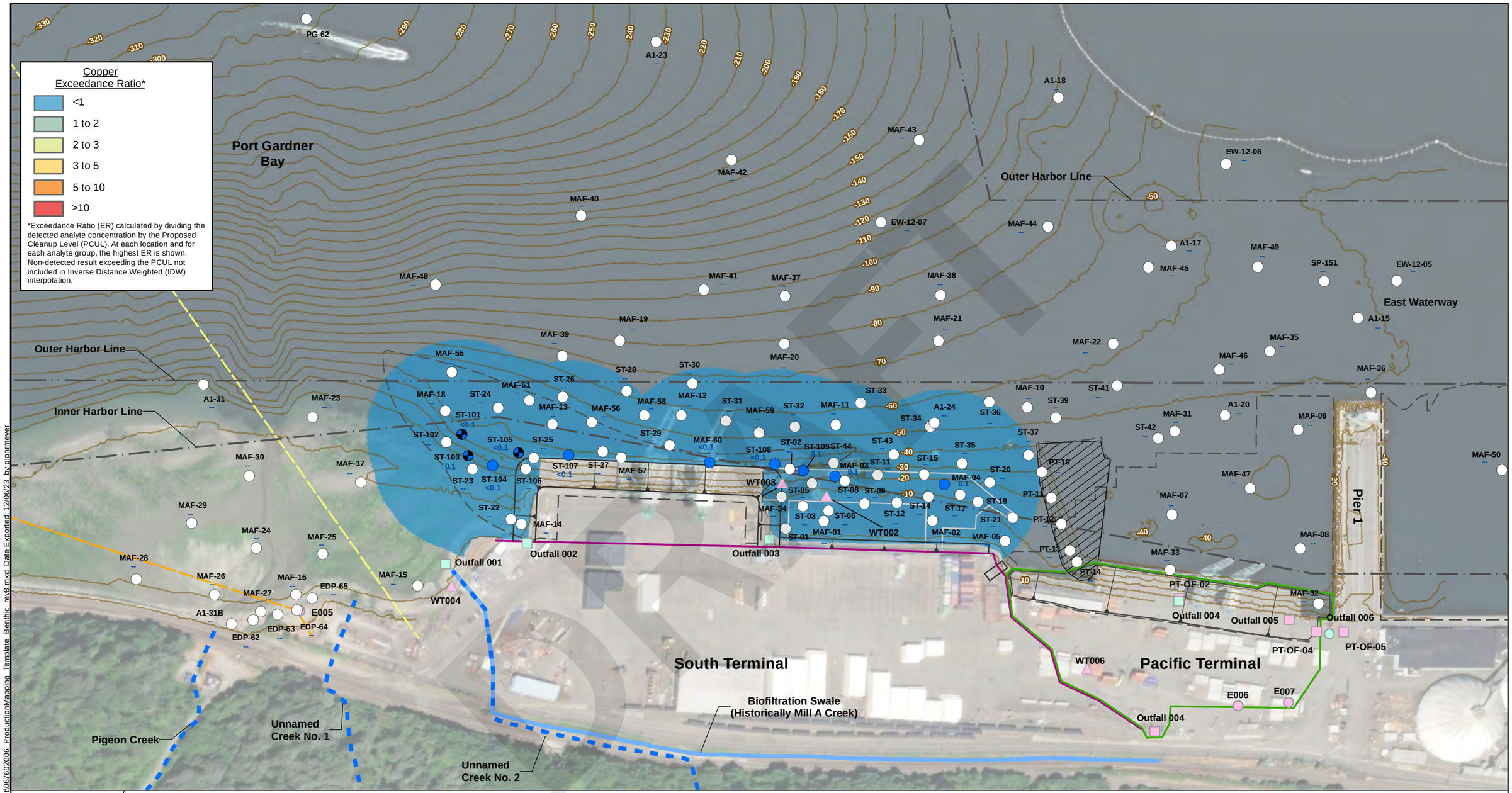
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Copper Results (Benthic) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-92



Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

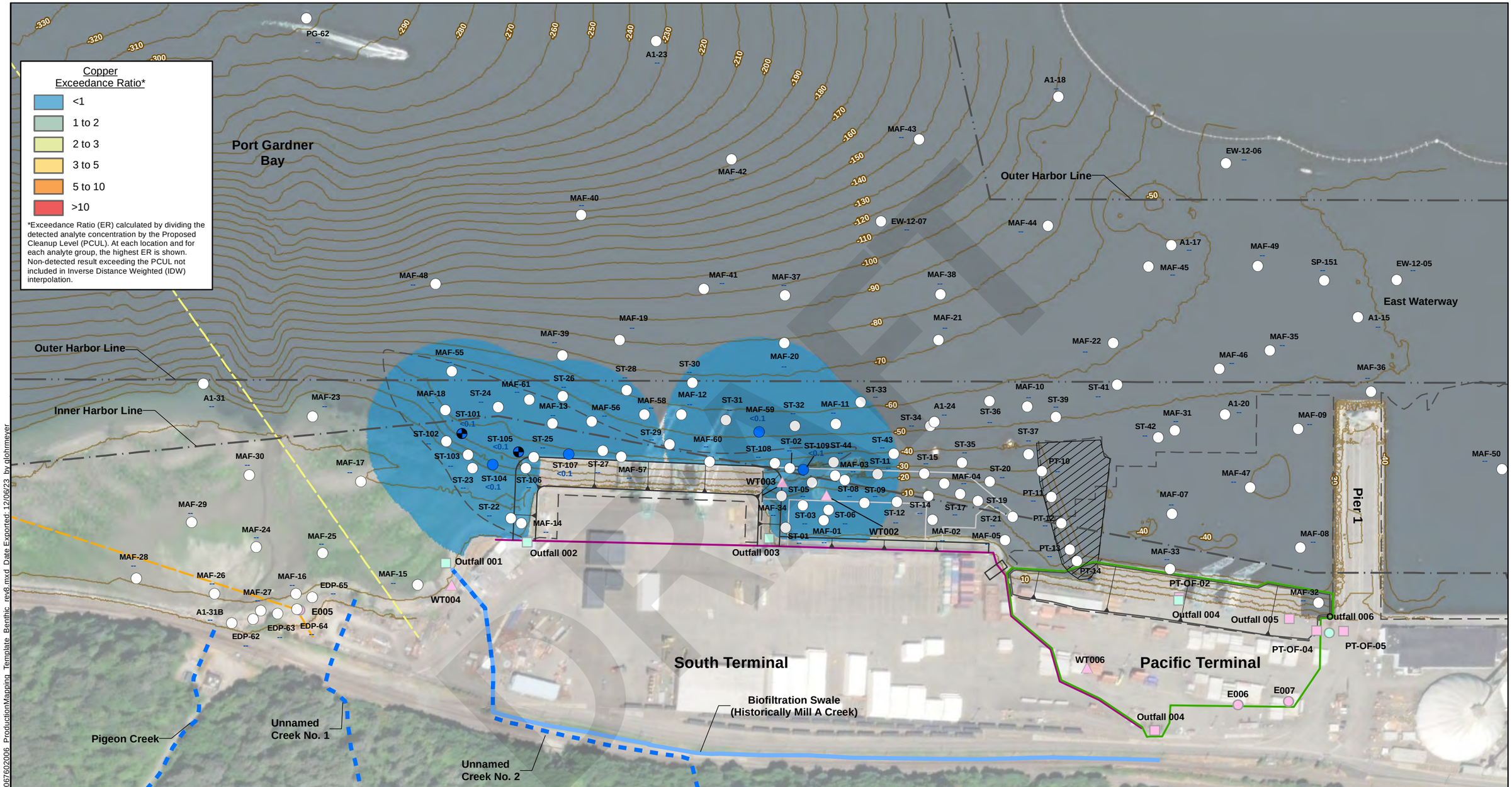
Copper Results (Benthic) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-93

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Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

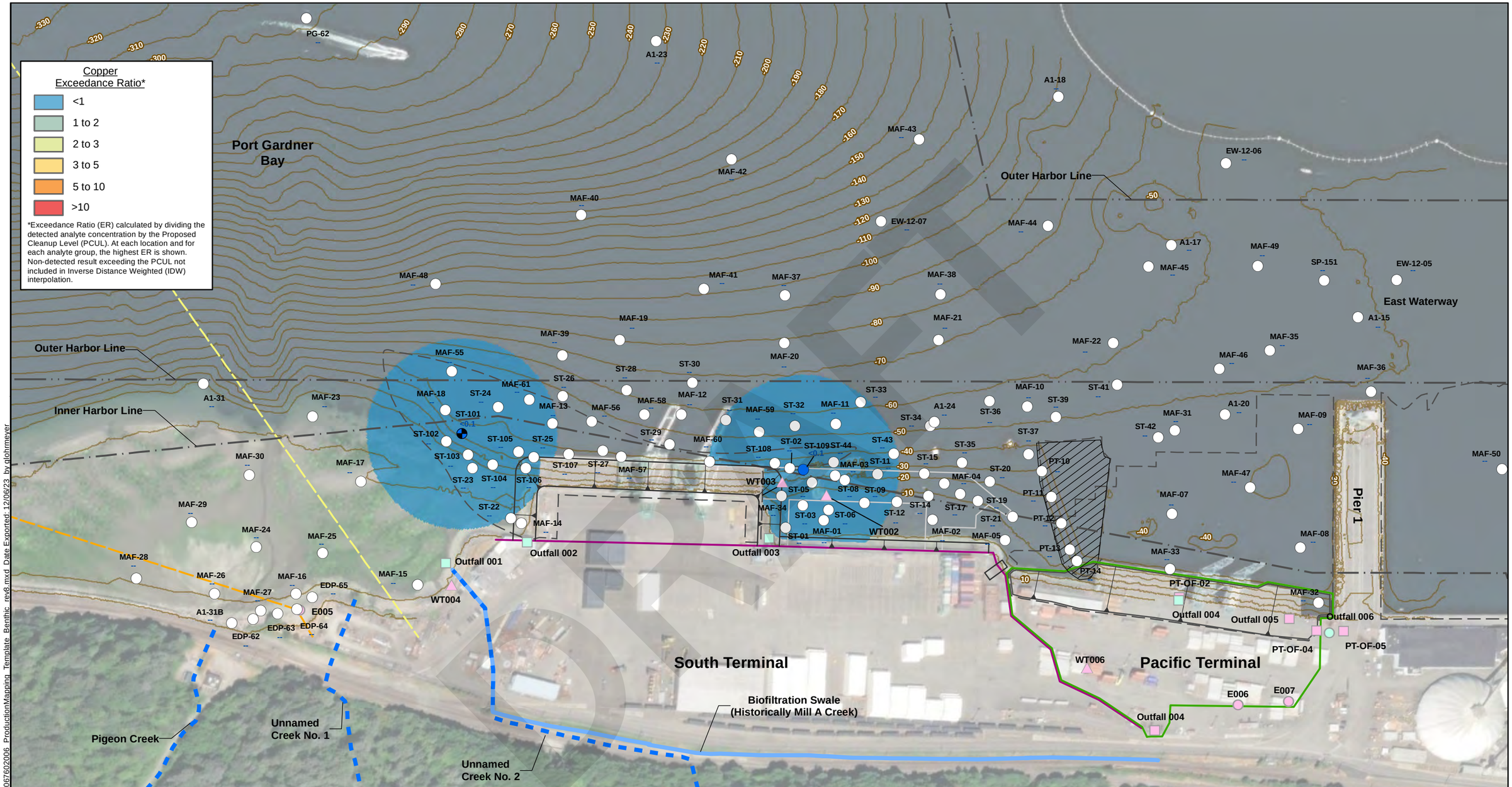
Copper Results (Benthic) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-94

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Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

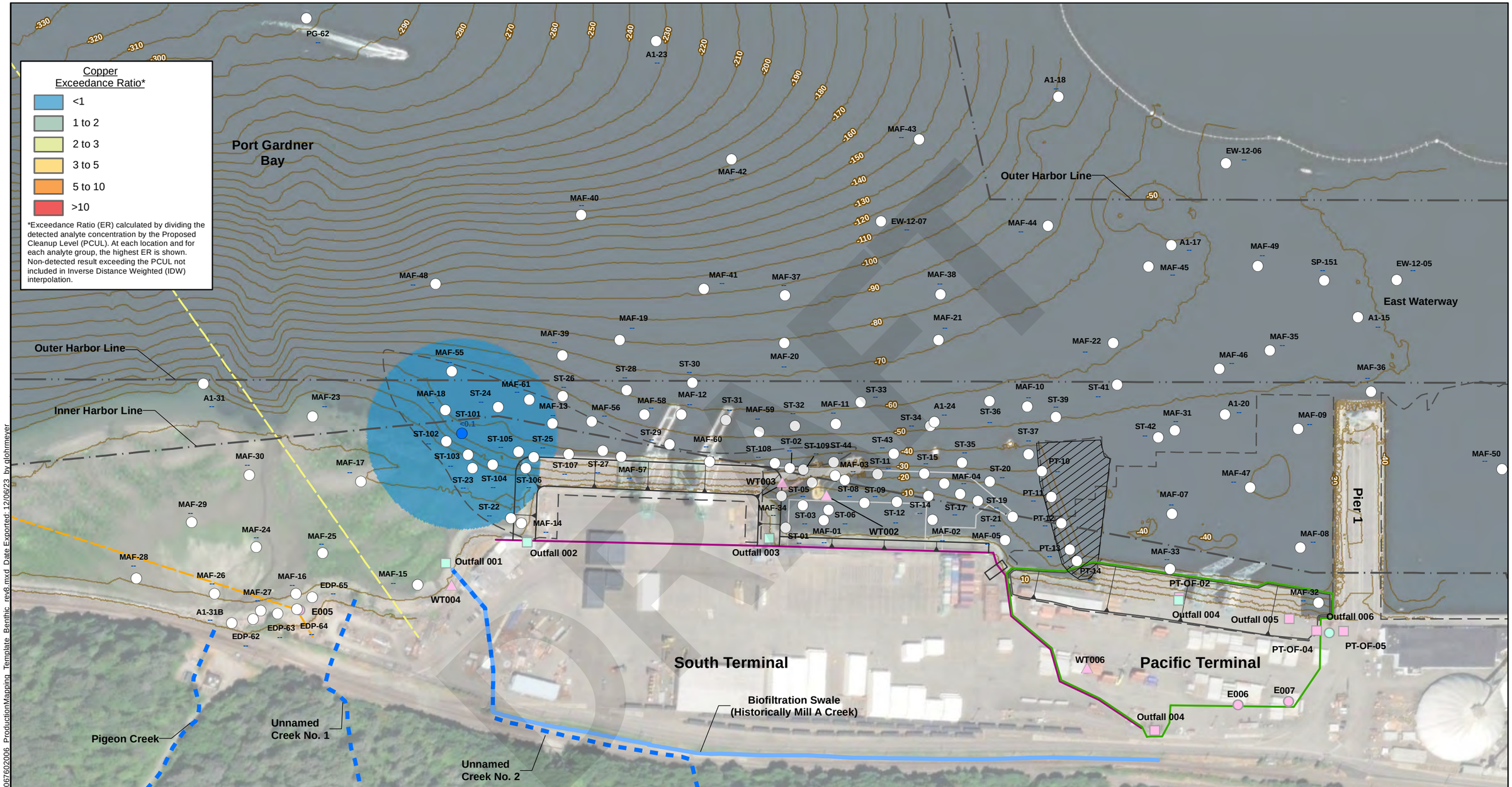
Copper Results (Benthic) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-95

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

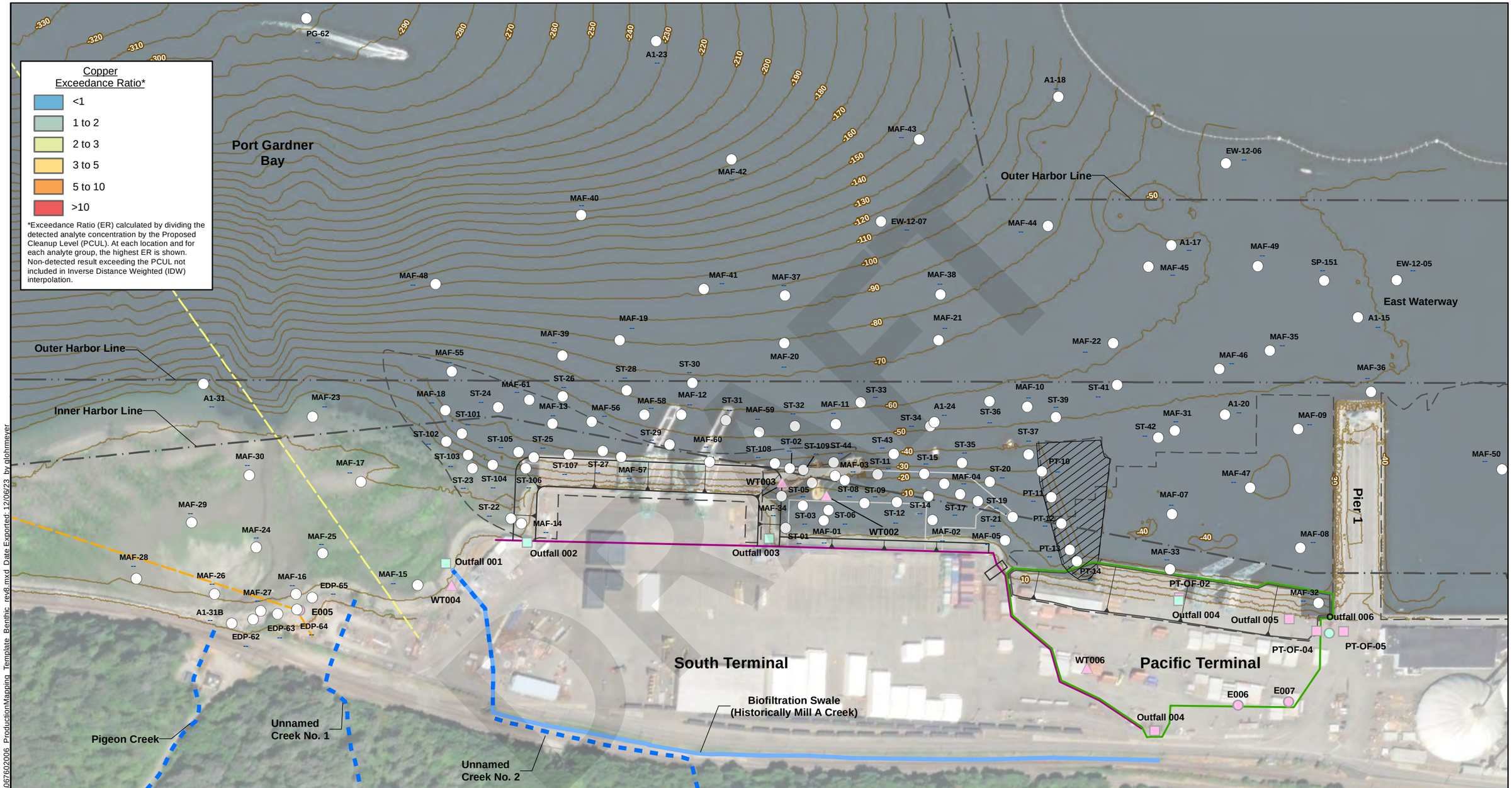
Copper Results (Benthic) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-96

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Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

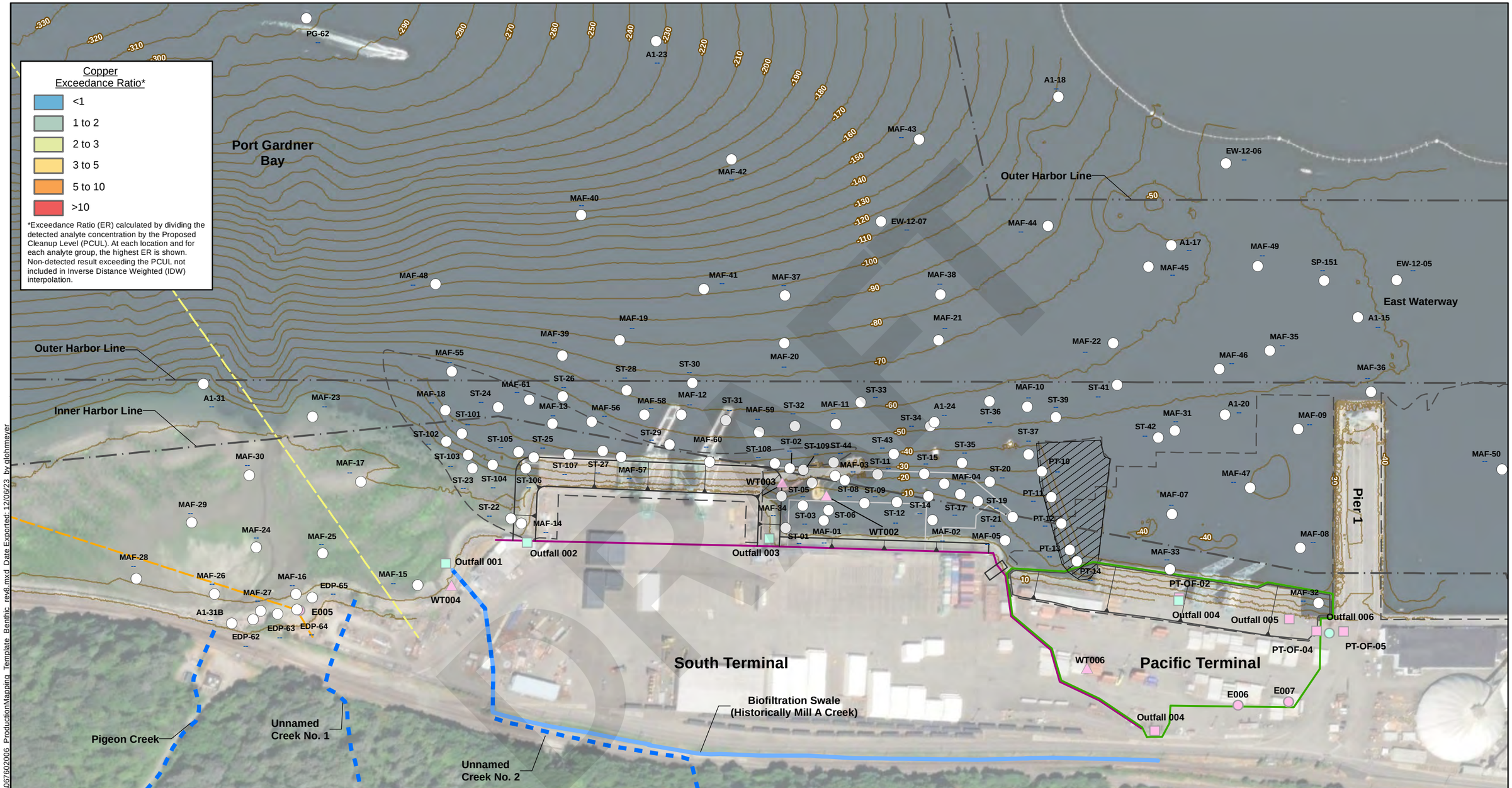
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Copper Results (Benthic) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-97



Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Copper Results (Benthic) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-98

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Copper
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay
Outer Harbor Line
Inner Harbor Line
East Waterway
Pier 1
South Terminal
Pacific Terminal
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
WT002
WT003
WT004
WT006
Biofiltration Swale
(Historically Mill A Creek)
Unnamed
Creek No. 1
Unnamed
Creek No. 2
Pigeon Creek

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Copper Results (Benthic) Subsurface Sediment (20-22 ft)

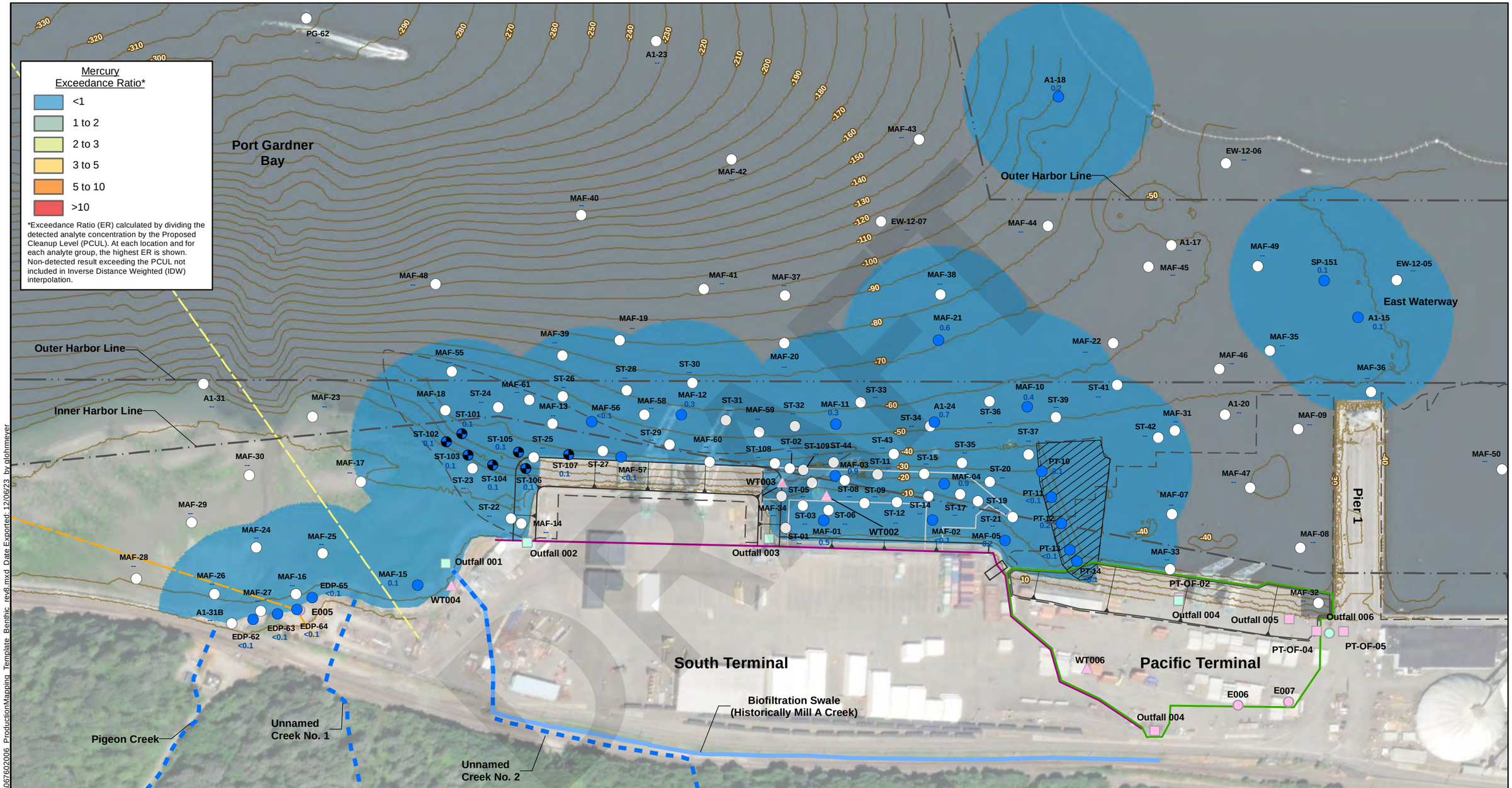
Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-99

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DRAFT



Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Mercury Results (Benthic) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-100

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Mercury
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18 0.2

A1-17

A1-15 0.1

A1-20

A1-24 0.7

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 through MAF-50

ST-01 through ST-44

PT-10 through PT-14

PT-OF-02

PT-OF-04

PT-OF-05

E005

E006

E007

EDP-62 <0.1

EDP-63 <0.1

EDP-64 <0.1

EDP-65 <0.1

ST-101 0.1

ST-102 0.1

ST-103 0.1

ST-104 0.1

ST-105 0.1

ST-107 0.1

MAF-04 0.3

MAF-11 0.5

MAF-12 0.2

MAF-56 <0.1

MAF-57 <0.1

MAF-58 0.1

MAF-59 0.5

-10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190 -200 -210 -220 -230 -240 -250 -260 -270 -280 -290 -300 -310 -320 -330

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Mercury Results (Benthic) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-101

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Mercury
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

Biofiltration Swale
(Historically Mill A Creek)

Unnamed
Creek No. 1

Unnamed
Creek No. 2

Pigeon Creek

PG-62 A1-23 A1-18 0.2 MAF-43 MAF-42 MAF-40 EW-12-06 EW-12-07 MAF-44 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 A1-15 0.1 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-39 MAF-21 MAF-22 MAF-35 MAF-46 MAF-36 MAF-20 MAF-55 ST-28 ST-30 ST-26 MAF-61 MAF-18 ST-24 MAF-12 ST-31 ST-33 MAF-10 ST-41 A1-31 MAF-23 MAF-13 MAF-56 MAF-58 MAF-59 ST-32 MAF-11 A1-24 0.6 ST-36 ST-39 A1-20 MAF-31 MAF-09 ST-101 0.1 ST-102 0.1 ST-105 0.1 ST-25 ST-29 MAF-60 0.1 ST-108 ST-02 ST-109 ST-44 ST-43 ST-37 ST-42 MAF-30 MAF-17 ST-103 0.1 ST-104 0.1 ST-107 0.1 ST-27 MAF-57 ST-106 0.1 ST-23 ST-22 MAF-03 0.6 ST-11 ST-15 ST-35 PT-10 MAF-50 MAF-04 0.5 ST-20 MAF-47 MAF-07 MAF-29 MAF-24 MAF-25 MAF-14 ST-05 ST-08 ST-09 ST-14 ST-17 ST-19 PT-11 MAF-34 ST-03 ST-06 ST-12 ST-21 PT-12 ST-01 MAF-01 0.5 MAF-02 0.5 MAF-05 0.1 MAF-08 MAF-33 PT-13 PT-14 MAF-28 MAF-26 MAF-16 MAF-15 EDP-65 MAF-27 E005 A1-31B EDP-63 EDP-64 EDP-62 PT-OF-02 MAF-32 PT-OF-04 PT-OF-05 E006 E007

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

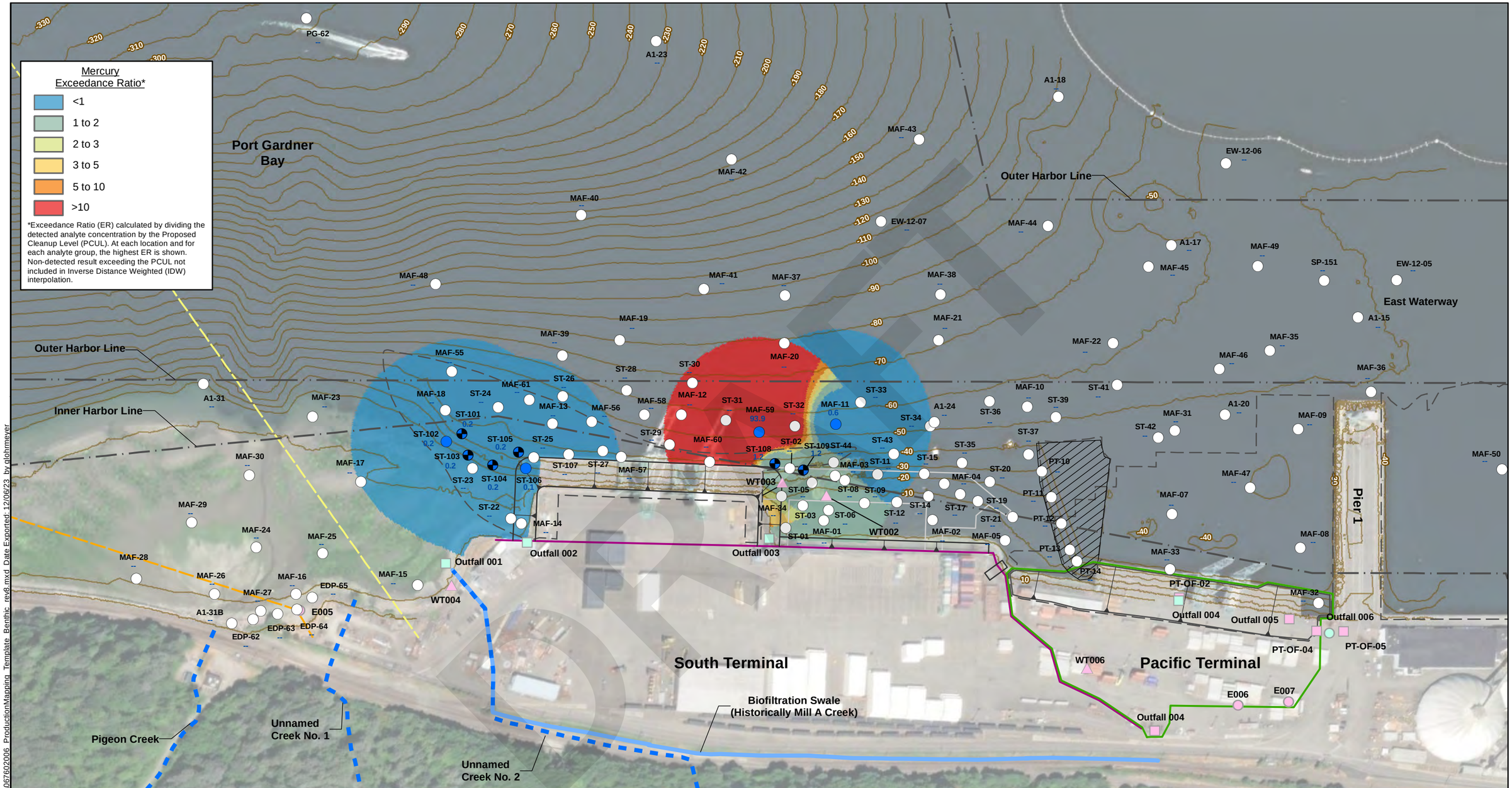
Mercury Results (Benthic) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-102

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Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Mercury Results (Benthic) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-103

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Mercury
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

E005

E006

E007

PG-62

A1-23

A1-18

A1-17

A1-15

A1-20

A1-24

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-10 PT-11 PT-12 PT-13 PT-14 PT-OF-02 PT-OF-04 PT-OF-05

EDP-62 EDP-63 EDP-64 EDP-65

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

<0.1 0.2 0.3 0.4 0.5 0.7

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

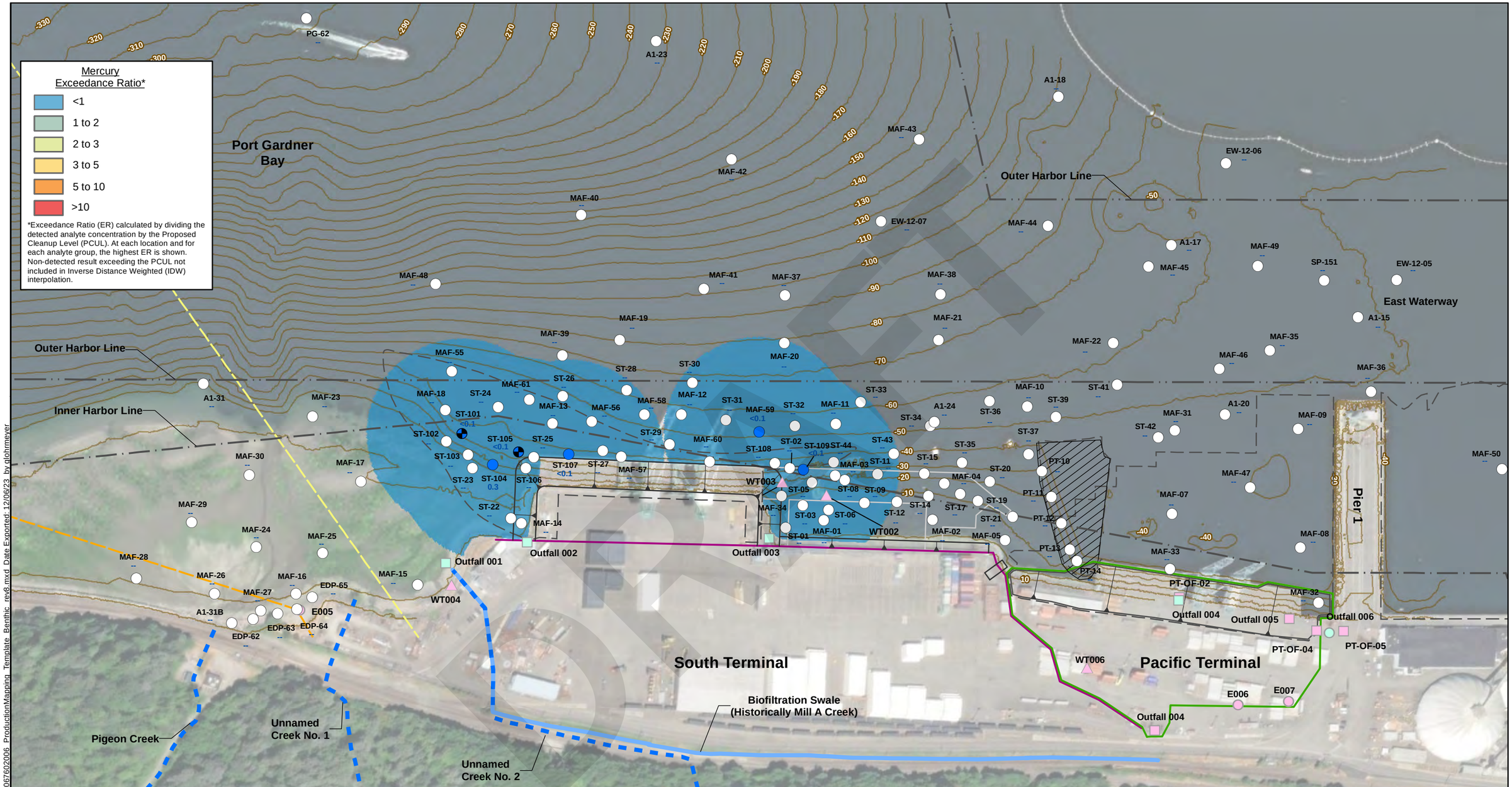
Mercury Results (Benthic) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-104

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Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

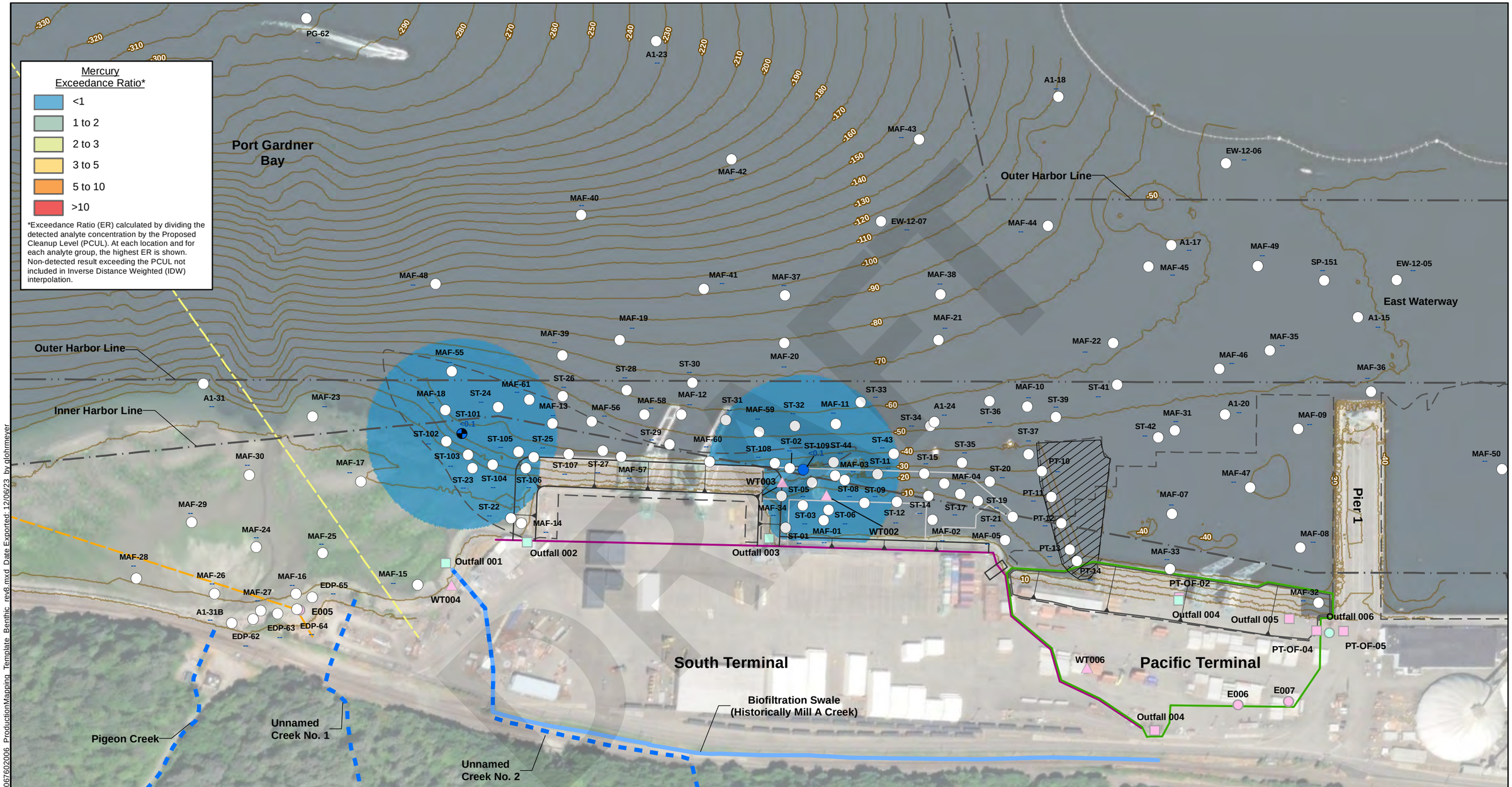
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Mercury Results (Benthic) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-105



Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

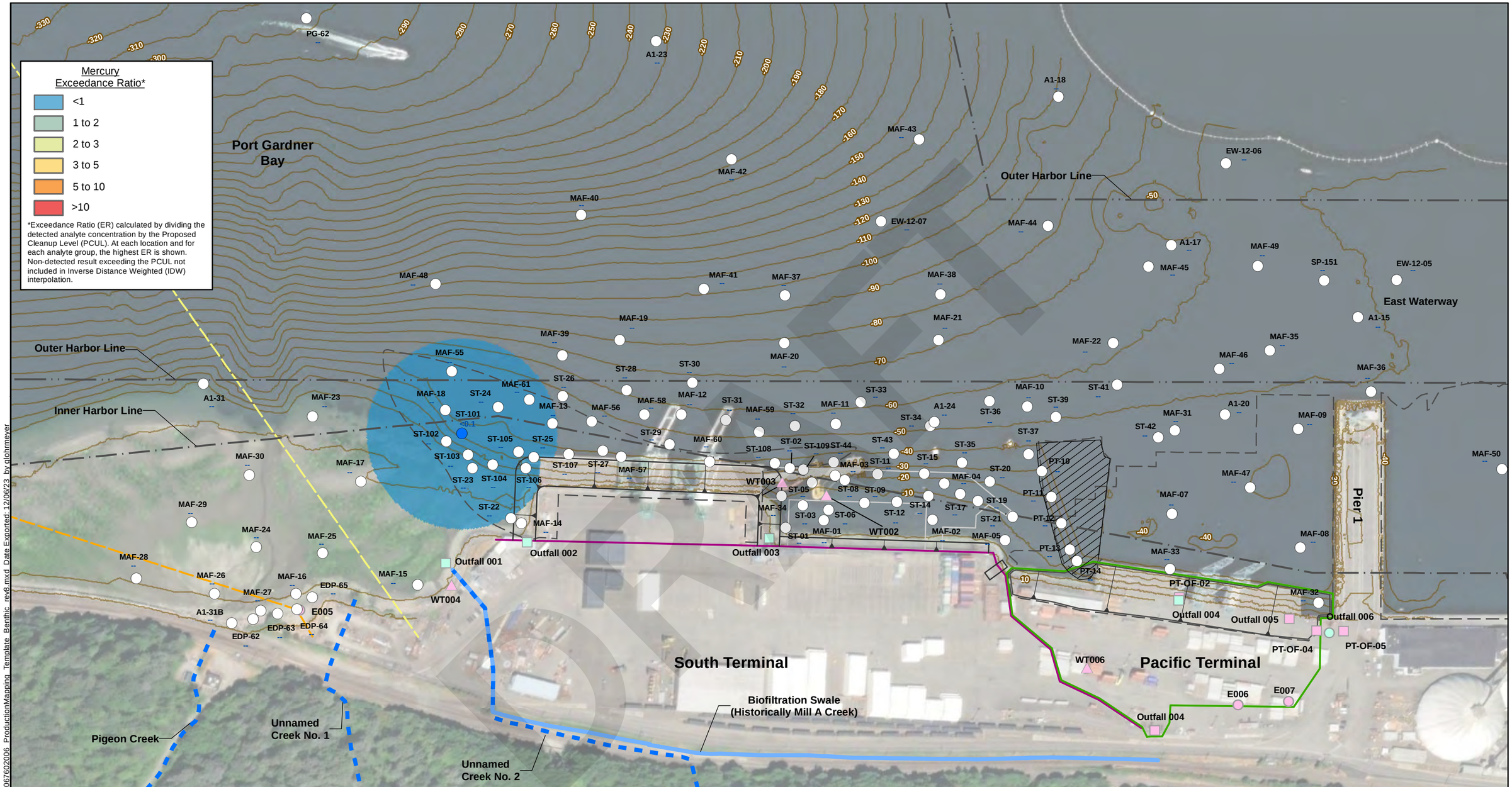
Mercury Results (Benthic) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-106

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N
W E
S

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

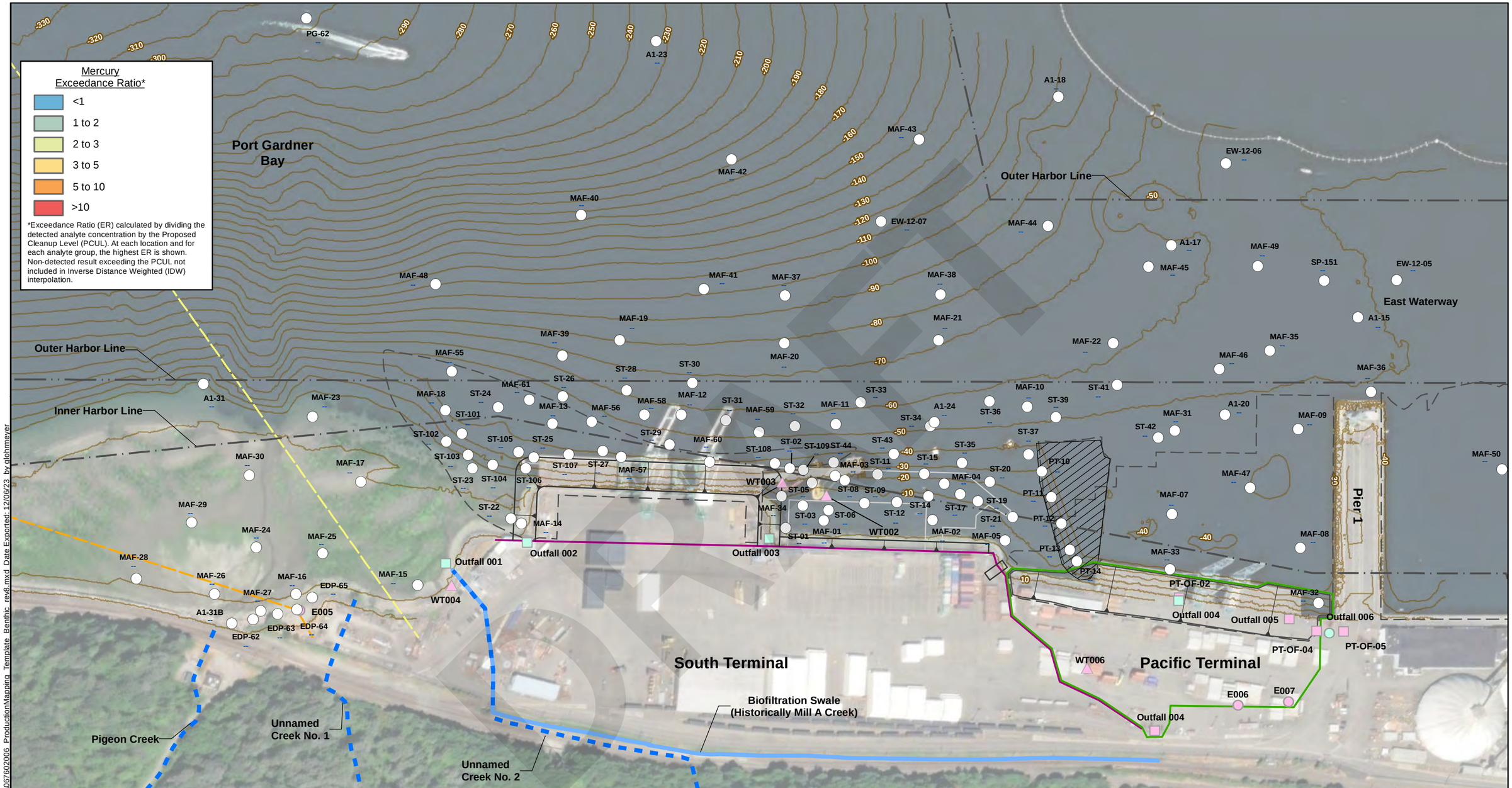
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Mercury Results (Benthic) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-107



Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

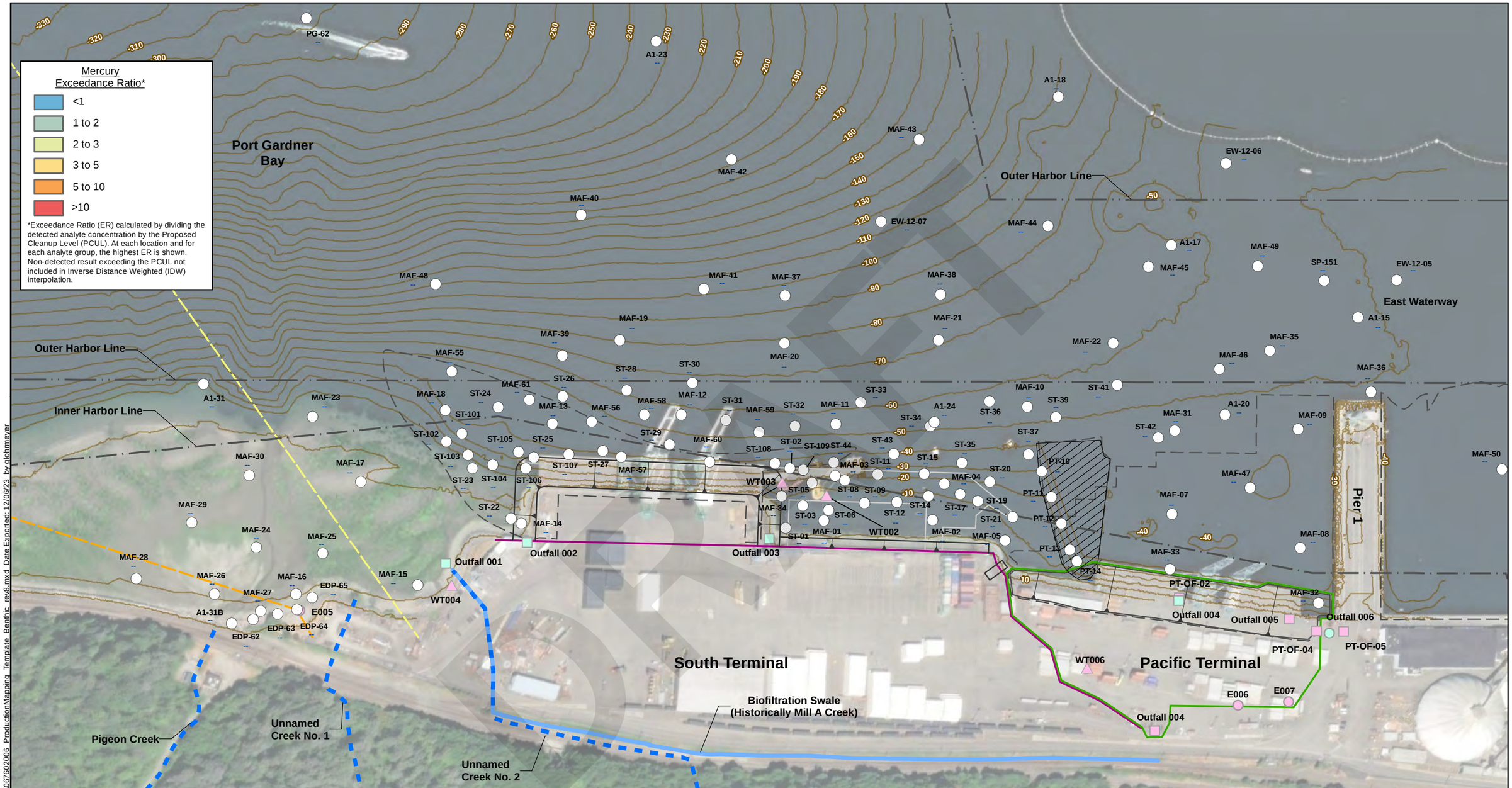
Mercury Results (Benthic) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-108

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

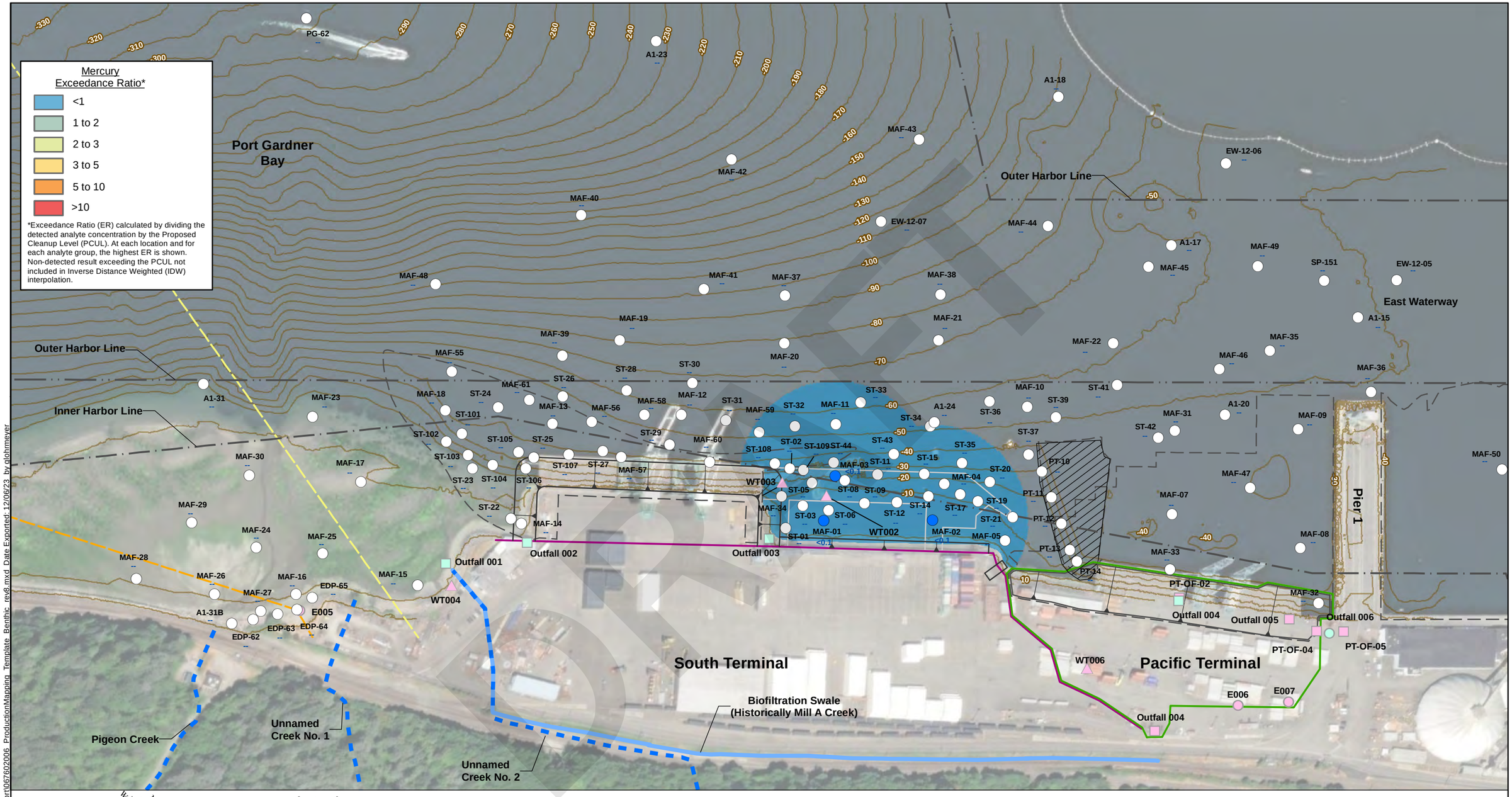
Mercury Results (Benthic) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-109

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

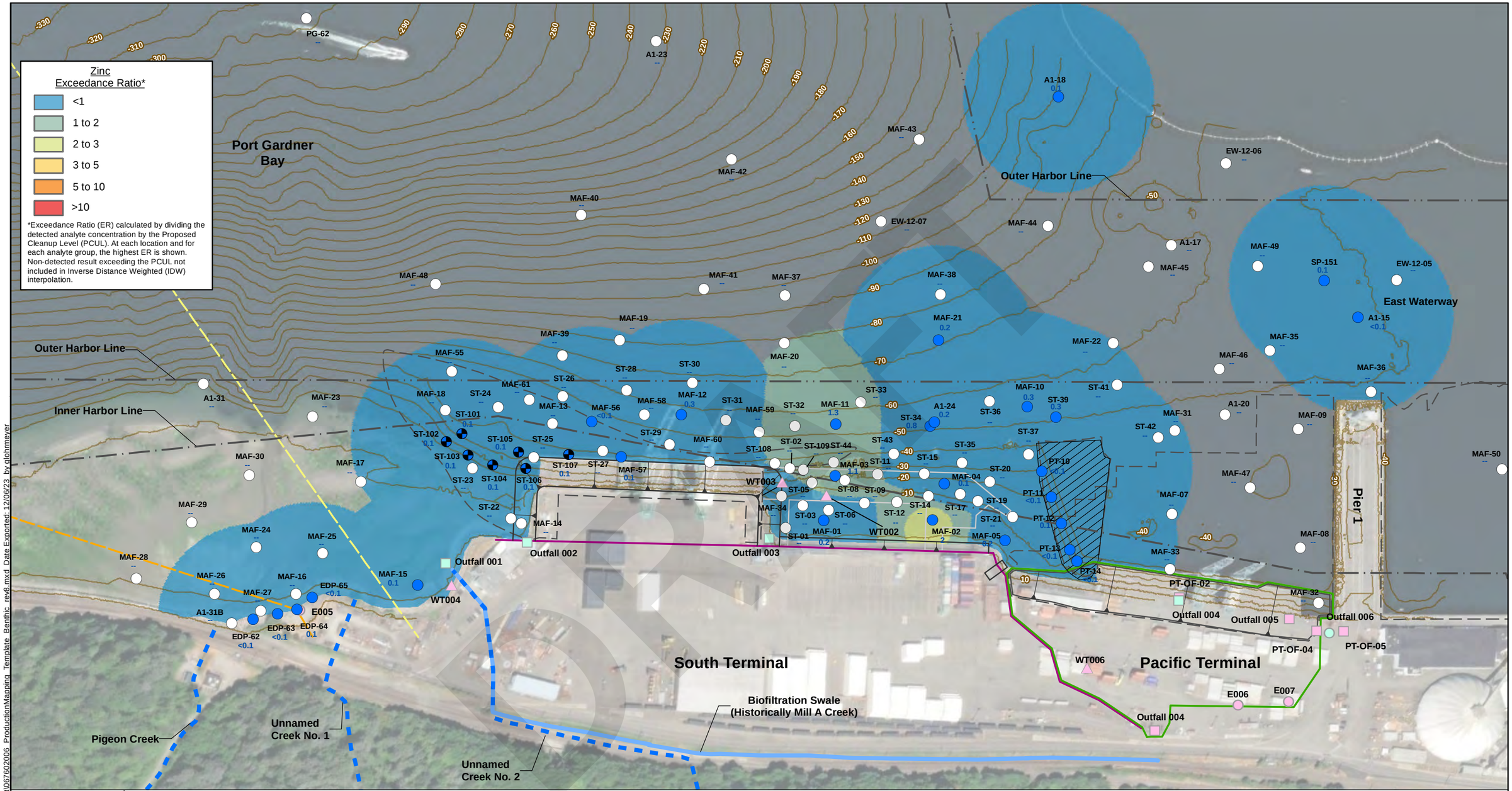
Mercury Results (Benthic) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-110

P:\0106760\20\GIS\MXD\MarineArea_RI_Report\0676020G6_ProductionMapping_Template_Benthic_rev9.mxd Date Exported: 12/06/23 by glohrmeyer



Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Zinc Results (Benthic) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure 111

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Zinc
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

Biofiltration Swale
(Historically Mill A Creek)

Unnamed
Creek No. 1

Unnamed
Creek No. 2

Pigeon Creek

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18 0.1

A1-17

A1-15 <0.1

A1-20

A1-24 0.3

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 MAF-02 MAF-03 MAF-04 <0.1 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 0.6 MAF-12 0.1 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 <0.1 MAF-57 <0.1 MAF-58 <0.1 MAF-59 0.1 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-04 ST-05 ST-06 ST-07 ST-08 ST-09 ST-10 ST-11 ST-12 ST-13 ST-14 ST-15 ST-16 ST-17 ST-18 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 0.8 ST-35 ST-36 ST-37 ST-38 ST-39 0.3 ST-40 ST-41 ST-42 ST-43 ST-44 ST-101 0.1 ST-102 0.1 ST-103 0.1 ST-104 0.1 ST-105 0.1 ST-106 ST-107 0.1 ST-108 ST-109

PT-01 PT-02 PT-03 PT-04 PT-05 PT-06 PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14 PT-OF-02 PT-OF-04 PT-OF-05

EDP-62 0.1 EDP-63 0.1 EDP-64 0.1 EDP-65 <0.1 E005 E006 E007

-10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190 -200 -210 -220 -230 -240 -250 -260 -270 -280 -290 -300 -310 -320 -330

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

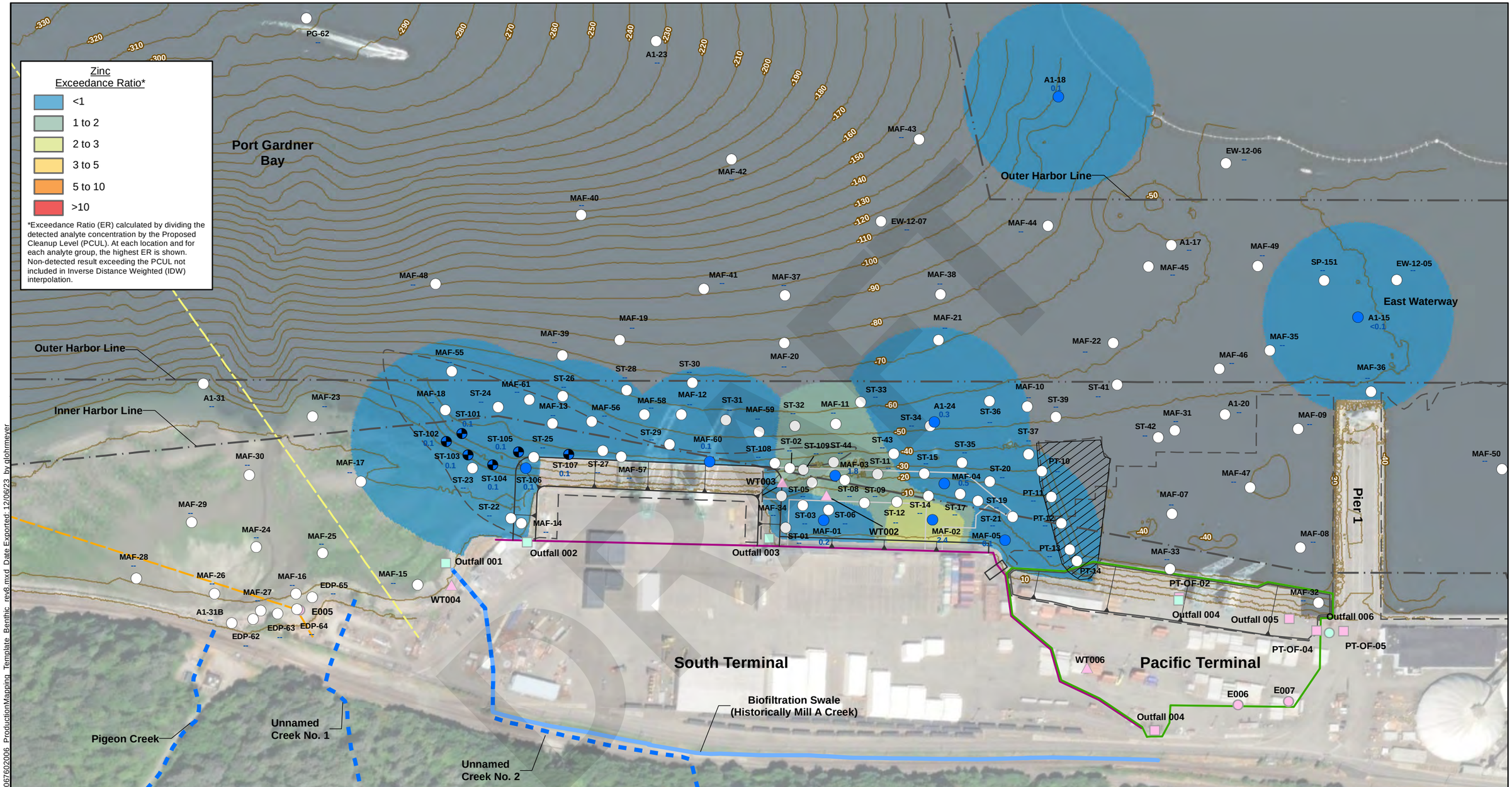
Zinc Results (Benthic) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure 112

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Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Zinc Results (Benthic) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure 113

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Zinc
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay
Outer Harbor Line
Inner Harbor Line
East Waterway
Pier 1
South Terminal
Pacific Terminal
Pigeon Creek
Unnamed Creek No. 1
Unnamed Creek No. 2
Biofiltration Swale (Historically Mill A Creek)
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
WT001
WT002
WT003
WT004
WT006
E005
E006
E007
PT-OF-02
PT-OF-04
PT-OF-05
PG-62
A1-23
A1-18
A1-17
A1-15
A1-20
A1-24
A1-31
A1-31B
EW-12-06
EW-12-07
EW-12-05
SP-151
MAF-01
MAF-02
MAF-03
MAF-04
MAF-05
MAF-07
MAF-08
MAF-09
MAF-10
MAF-11
MAF-12
MAF-13
MAF-14
MAF-15
MAF-16
MAF-17
MAF-18
MAF-19
MAF-20
MAF-21
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MAF-42
MAF-43
MAF-44
MAF-45
MAF-46
MAF-47
MAF-48
MAF-49
MAF-50
MAF-55
MAF-56
MAF-57
MAF-58
MAF-59
MAF-60
MAF-61
EDP-62
EDP-63
EDP-64
EDP-65
ST-01
ST-02
ST-03
ST-05
ST-06
ST-08
ST-09
ST-11
ST-12
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ST-107
ST-108
ST-109
PT-10
PT-11
PT-12
PT-13
PT-14
-330
-320
-310
-300
-290
-280
-270
-260
-250
-240
-230
-220
-210
-200
-190
-180
-170
-160
-150
-140
-130
-120
-110
-100
-90
-80
-70
-60
-50
-40
-30
-20
-10
50
90

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

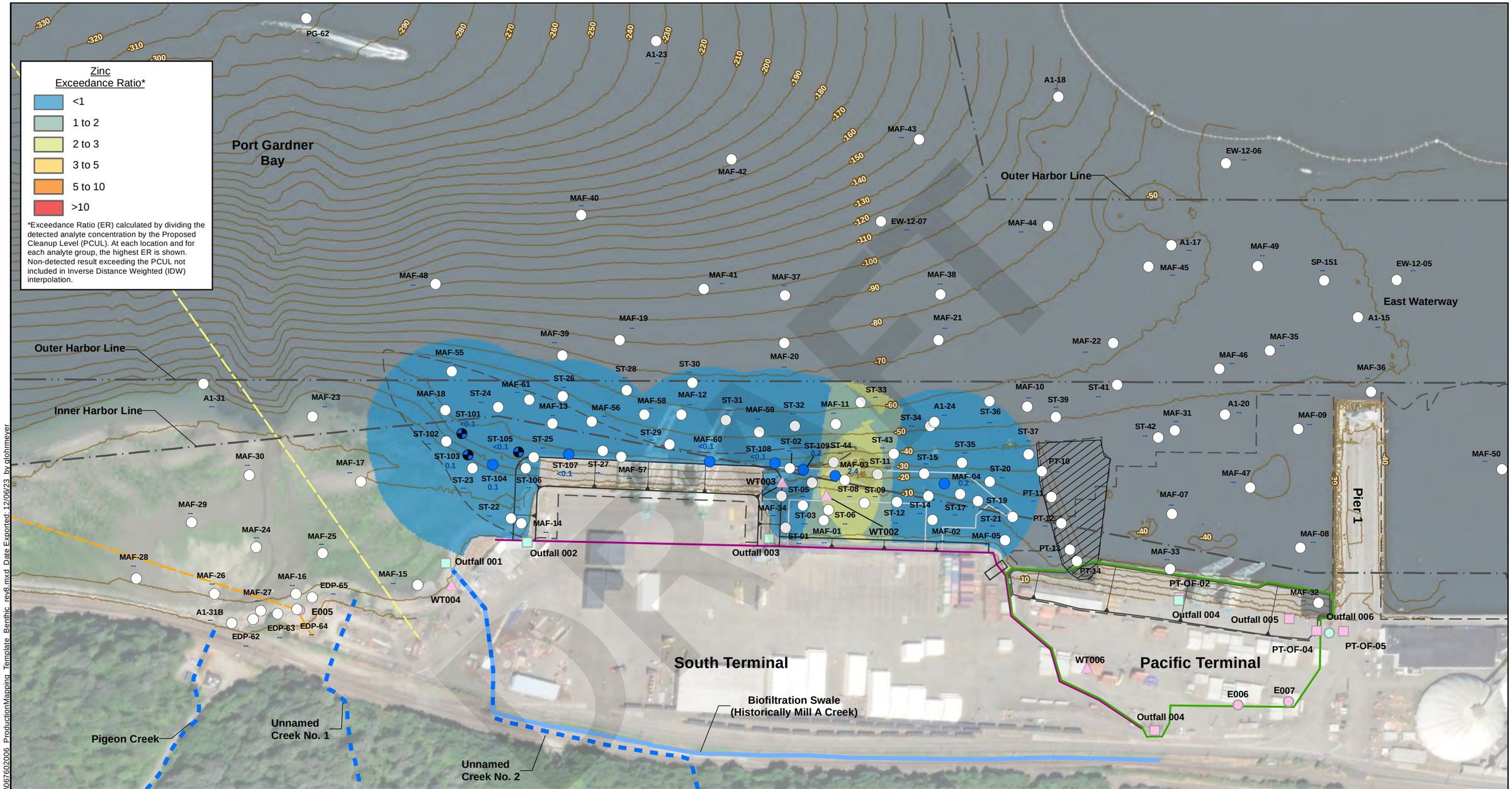
Zinc Results (Benthic) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure 114

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Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Zinc Results (Benthic) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure 115

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Zinc
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

PG-62, A1-23, A1-18, A1-17, A1-15, A1-20, A1-24, A1-31, A1-31B, EW-12-06, EW-12-07, EW-12-05, SP-151, MAF-01 through MAF-59, ST-01 through ST-44, PT-10 through PT-14, PT-OF-02, PT-OF-04, PT-OF-05, E005, E006, E007, EDP-62, EDP-63, EDP-64, EDP-65

ST-101 <0.1; ST-102 <0.1; ST-105 <0.1; ST-107 <0.1; ST-109 <0.1; MAF-59 <0.1; ST-104 0.1

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 10, 20, 30, 40, 50

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

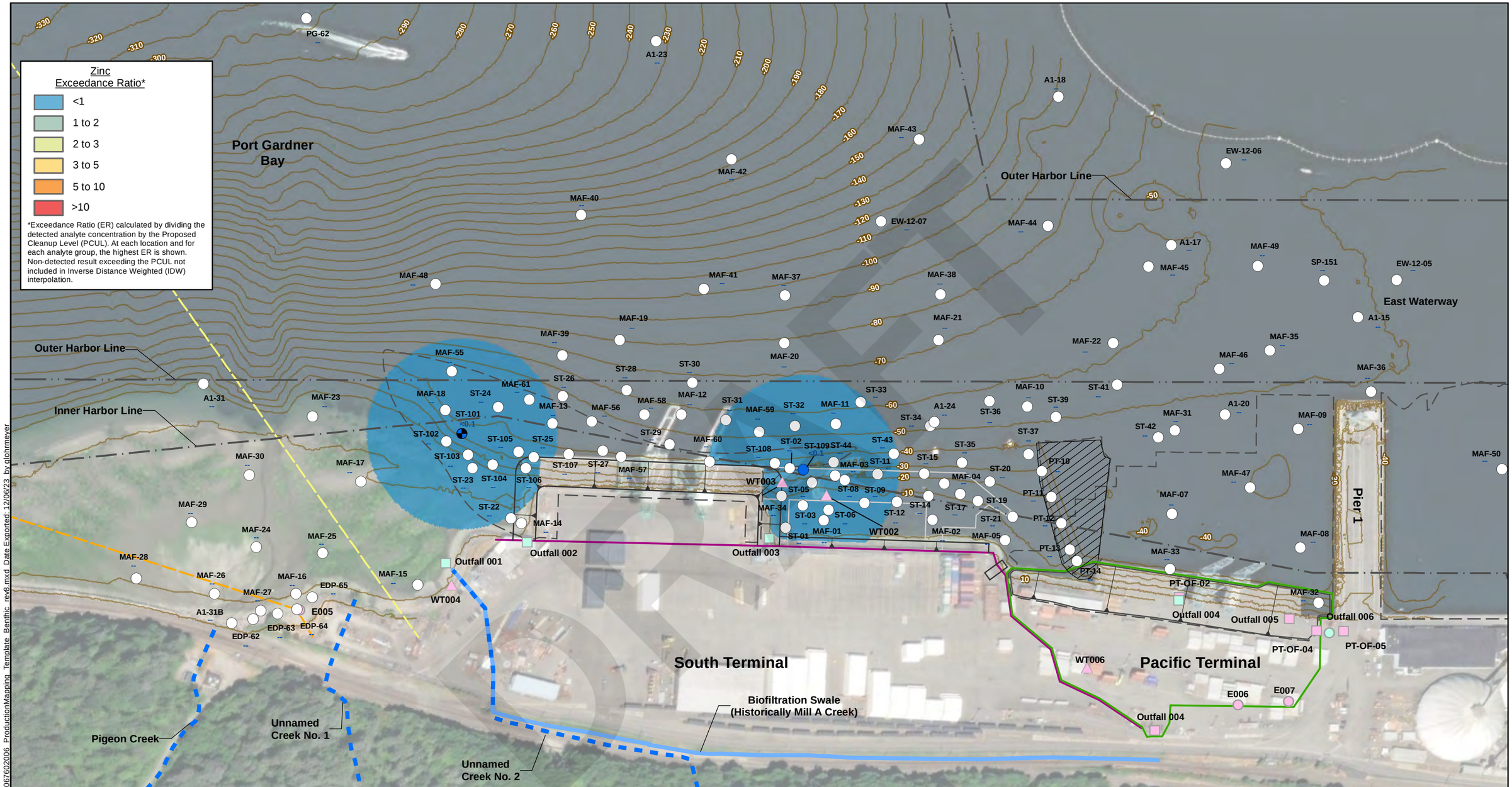
Zinc Results (Benthic) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure 116

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Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

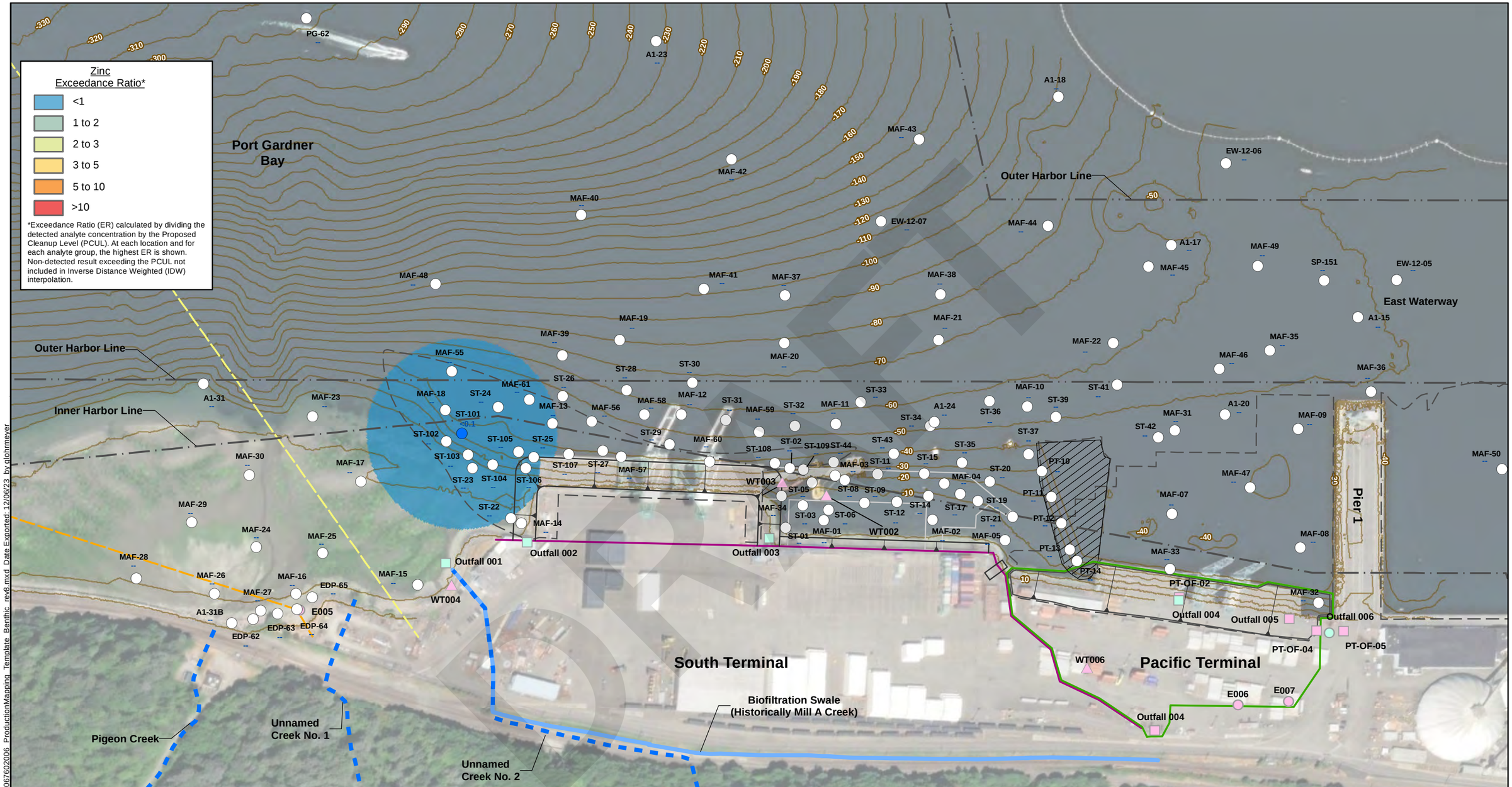
Zinc Results (Benthic) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure 117

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300 0 300
Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

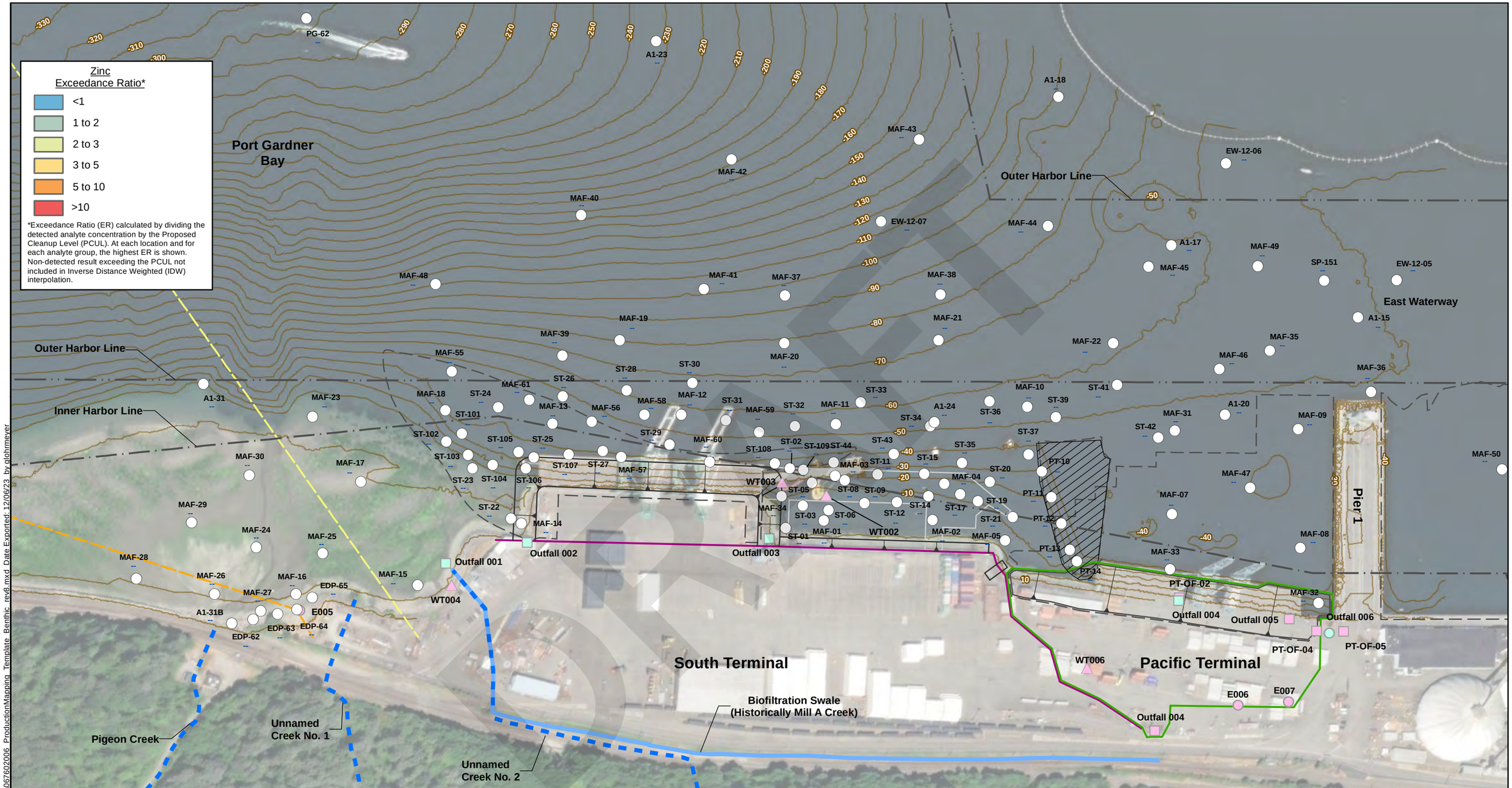
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Zinc Results (Benthic) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure 118



Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

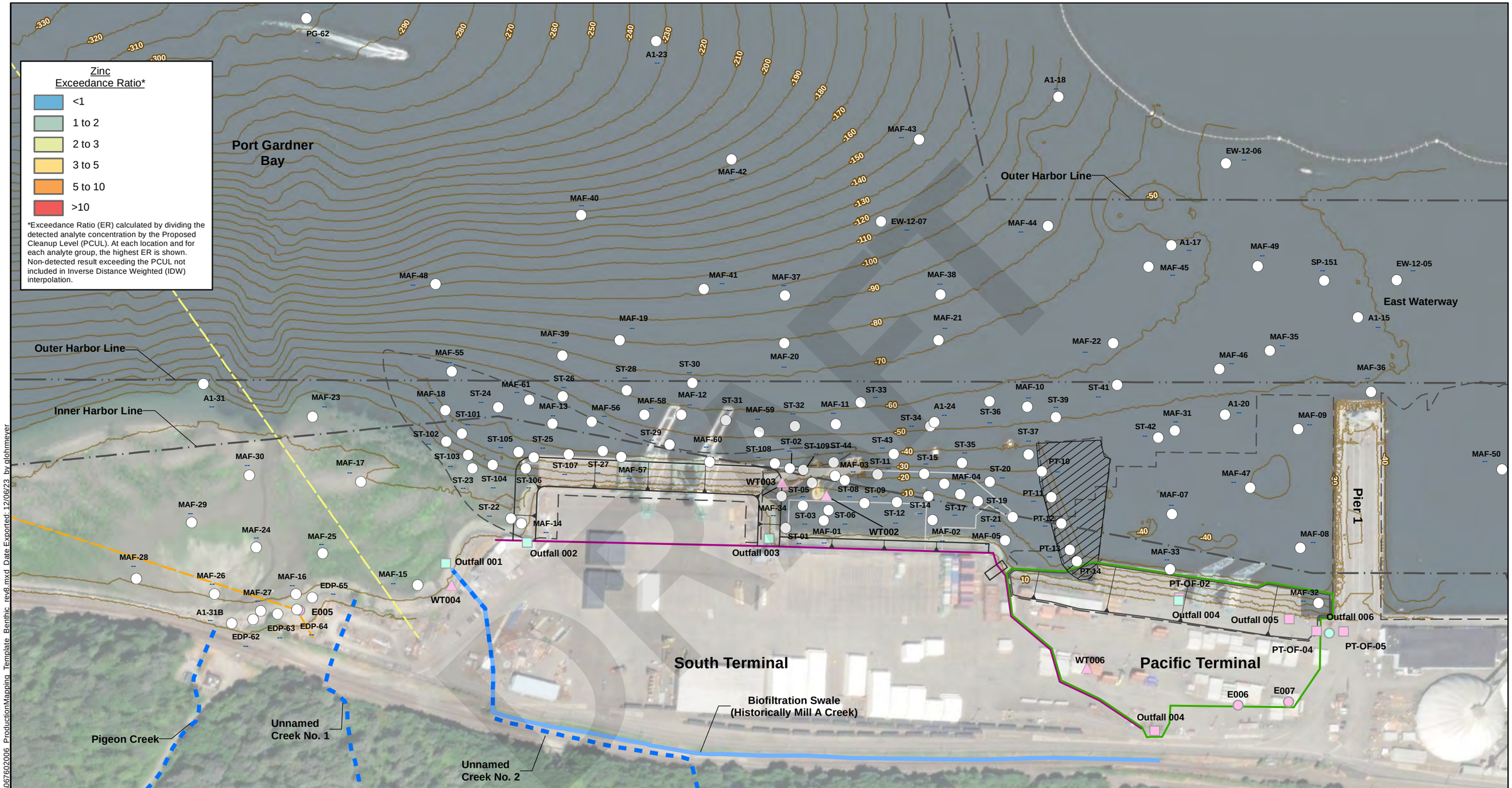
Zinc Results (Benthic) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure 119

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Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Zinc Results (Benthic) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure 120

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Zinc
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-07, MAF-44, EW-12-06, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, A1-15, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-20, MAF-22, MAF-35, MAF-46, MAF-36, MAF-55, ST-26, ST-28, ST-30, MAF-61, MAF-18, ST-24, MAF-13, MAF-56, MAF-58, MAF-12, ST-31, ST-33, MAF-10, ST-41, A1-31, MAF-23, ST-101, MAF-59, ST-32, MAF-11, A1-24, ST-36, ST-39, A1-20, MAF-31, MAF-09, ST-42, ST-102, ST-105, ST-25, MAF-60, ST-29, ST-34, ST-37, MAF-30, ST-103, ST-107, ST-27, MAF-57, ST-108, ST-02, ST-109, ST-44, ST-43, ST-35, MAF-50, MAF-17, ST-23, ST-104, ST-106, ST-11, ST-15, ST-20, PT-10, MAF-47, MAF-03, MAF-04, ST-05, ST-08, ST-09, PT-11, MAF-07, ST-22, MAF-14, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-19, MAF-29, ST-01, MAF-01, MAF-02, MAF-05, ST-21, PT-12, MAF-24, MAF-25, MAF-08, PT-13, MAF-33, MAF-28, MAF-26, MAF-16, MAF-15, EDP-65, MAF-27, PT-14, PT-OF-02, MAF-32, A1-31B, E005, EDP-64, EDP-63, EDP-62, Outfall 004, Outfall 005, Outfall 006, PT-OF-04, PT-OF-05, E006, E007, Outfall 004

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, -50, -40, -40, -10

<0.1, <0.1, <0.3

300 0 300 Feet

Notes:
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2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Zinc Results (Benthic) Subsurface Sediment (20-22 ft)

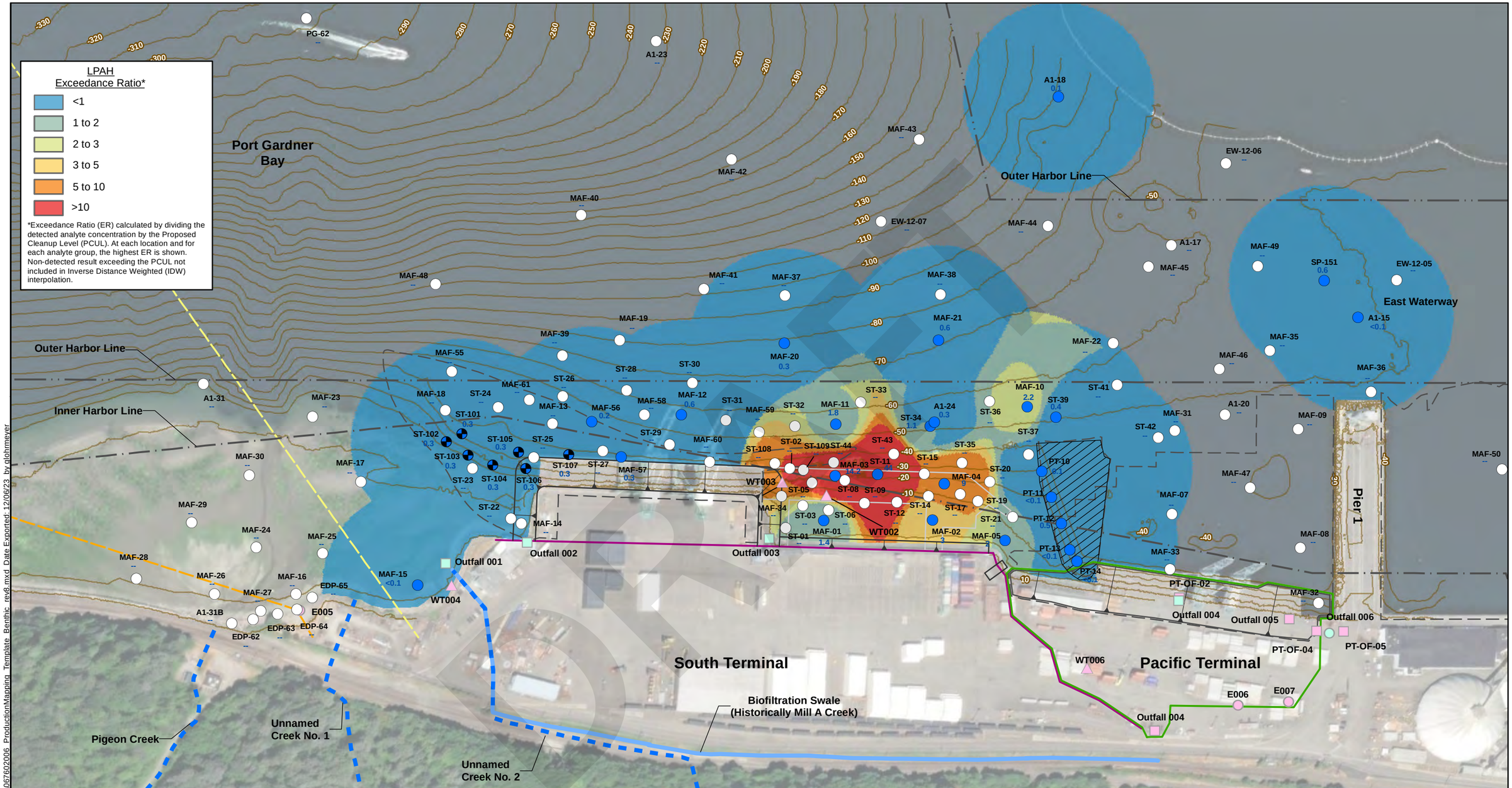
Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure 121

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DRAFT



Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

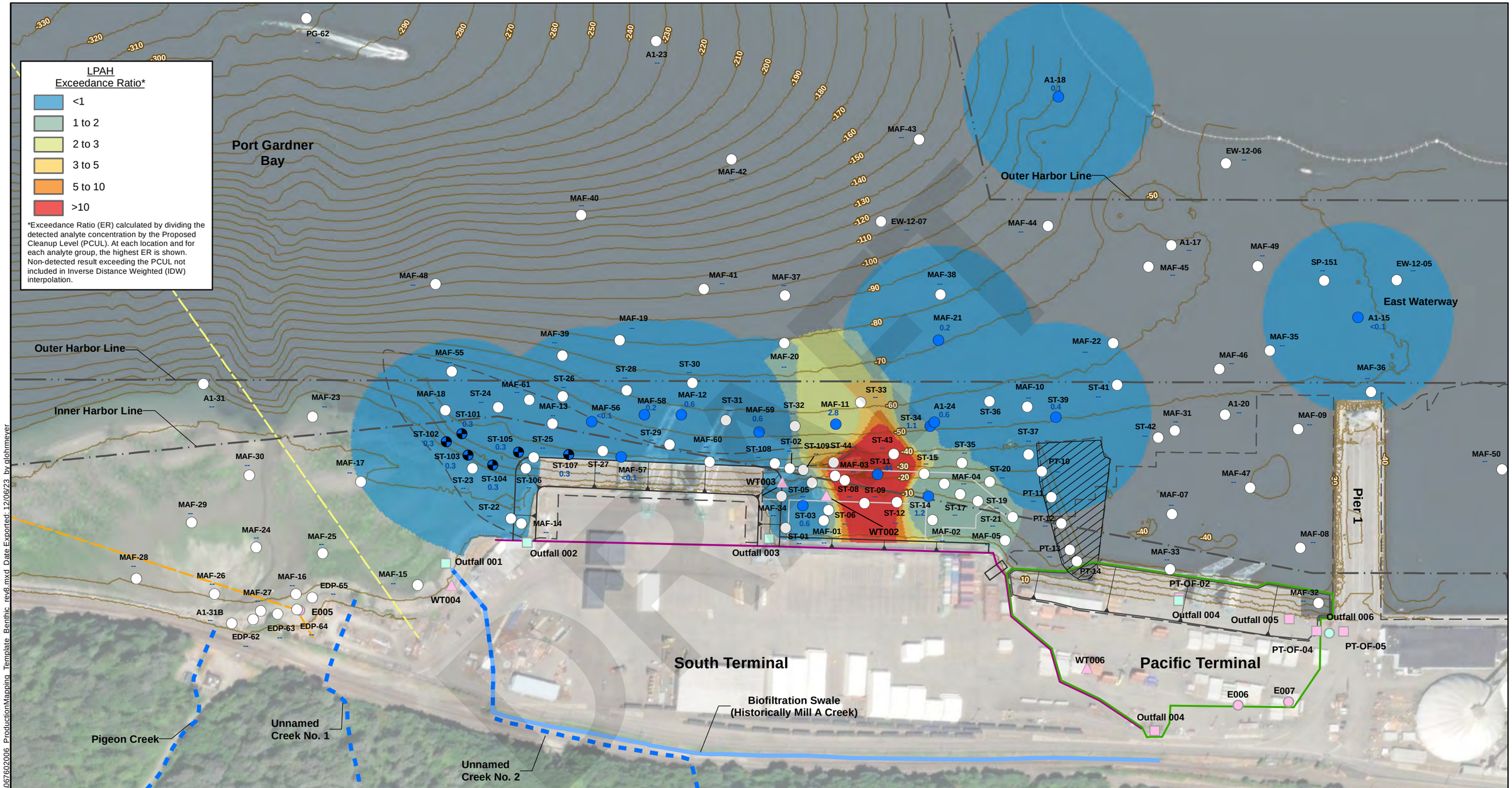
LPAH Results (Benthic) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-122

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Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

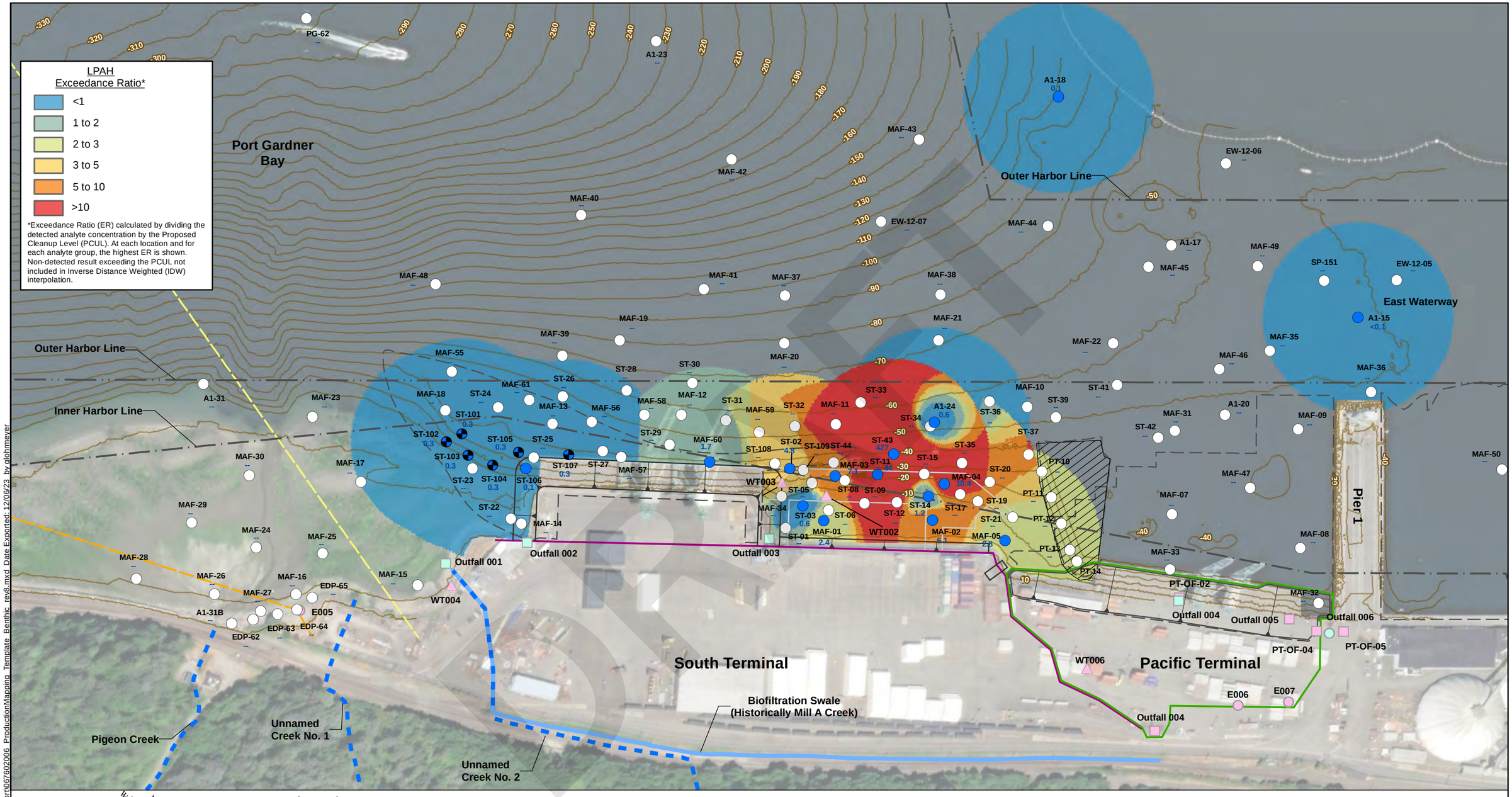
LPAH Results (Benthic) Subsurface Sediment (2-4 ft)

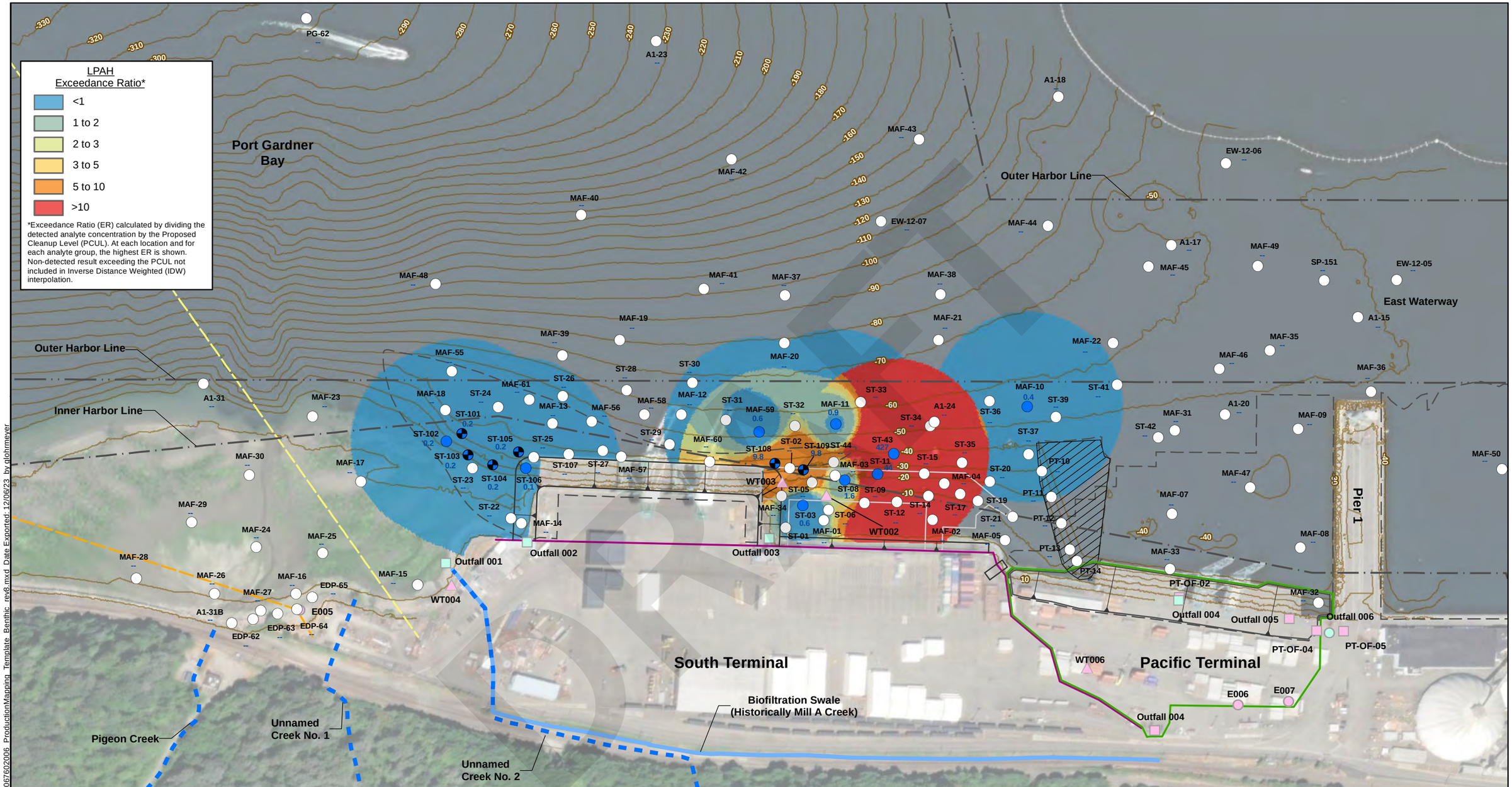
Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-123

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LPAH
Exceedance Ratio*
<1
1 to 2
2 to 3
3 to 5
5 to 10
>10
*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.
Port Gardner Bay
Outer Harbor Line
Inner Harbor Line
East Waterway
Pier 1
South Terminal
Pacific Terminal
WT002
WT003
WT004
WT006
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Pigeon Creek
Unnamed Creek No. 1
Unnamed Creek No. 2
Biofiltration Swale (Historically Mill A Creek)
PG-62
A1-23
A1-18
0.1
MAF-43
MAF-42
MAF-40
EW-12-06
EW-12-07
MAF-44
A1-17
MAF-49
MAF-45
SP-151
EW-12-05
A1-15
<0.1
MAF-48
MAF-41
MAF-37
MAF-38
MAF-19
MAF-39
MAF-21
MAF-22
MAF-35
MAF-46
MAF-36
MAF-55
MAF-20
ST-30
ST-28
ST-26
MAF-61
MAF-18
ST-24
MAF-13
MAF-56
MAF-58
MAF-12
ST-31
MAF-59
ST-32
MAF-11
ST-33
A1-24
0.6
ST-34
ST-36
MAF-10
ST-39
ST-41
A1-31
MAF-23
ST-101
0.3
ST-102
0.3
ST-105
0.3
ST-25
ST-29
MAF-60
1.7
ST-108
ST-02
4.8
ST-109
ST-44
ST-43
42
ST-35
ST-37
MAF-31
A1-20
MAF-09
ST-42
MAF-30
ST-103
0.3
ST-104
0.3
ST-23
ST-106
0.1
ST-107
0.3
ST-27
MAF-57
MAF-03
7.1
ST-11
ST-15
ST-20
PT-10
MAF-50
MAF-17
MAF-04
10.4
MAF-47
MAF-29
ST-22
MAF-14
ST-05
ST-08
ST-09
ST-19
PT-11
MAF-07
MAF-34
ST-03
0.6
ST-06
ST-12
1.2
ST-14
ST-17
ST-21
PT-12
MAF-24
MAF-25
MAF-01
2.4
MAF-02
6.1
MAF-05
2.5
PT-13
MAF-08
MAF-28
MAF-33
PT-14
MAF-26
MAF-16
MAF-15
EDP-65
MAF-27
E005
PT-OF-02
MAF-32
A1-31B
EDP-64
EDP-63
EDP-62
PT-OF-04
PT-OF-05
E006
E007
Legend
Marine Area Remedial Investigation Sampling Locations
Discrete Sample Result
No Sample/Result
Non-Detect Result Exceeds PCUL
Composite Sample Result
Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)
MAF-01 Sample Location Identification
1.22 Result
Construction Berm
Historical Piling Area
Dredged Area
Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
Bulkhead
Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
Historical Industrial Outfall (Abandoned)
Former Combined Sewer Outfall (CSO, Abandoned)
Former Stormwater Outfall (Abandoned)
Current CSO
Current Stormwater Outfall
300
0
300
Feet
Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet
LPAH Results (Benthic)
Subsurface Sediment (4-6 ft)
Weyerhaeuser Mill A Former
Everett, Washington
GeoEngineers
Figure Q-124
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

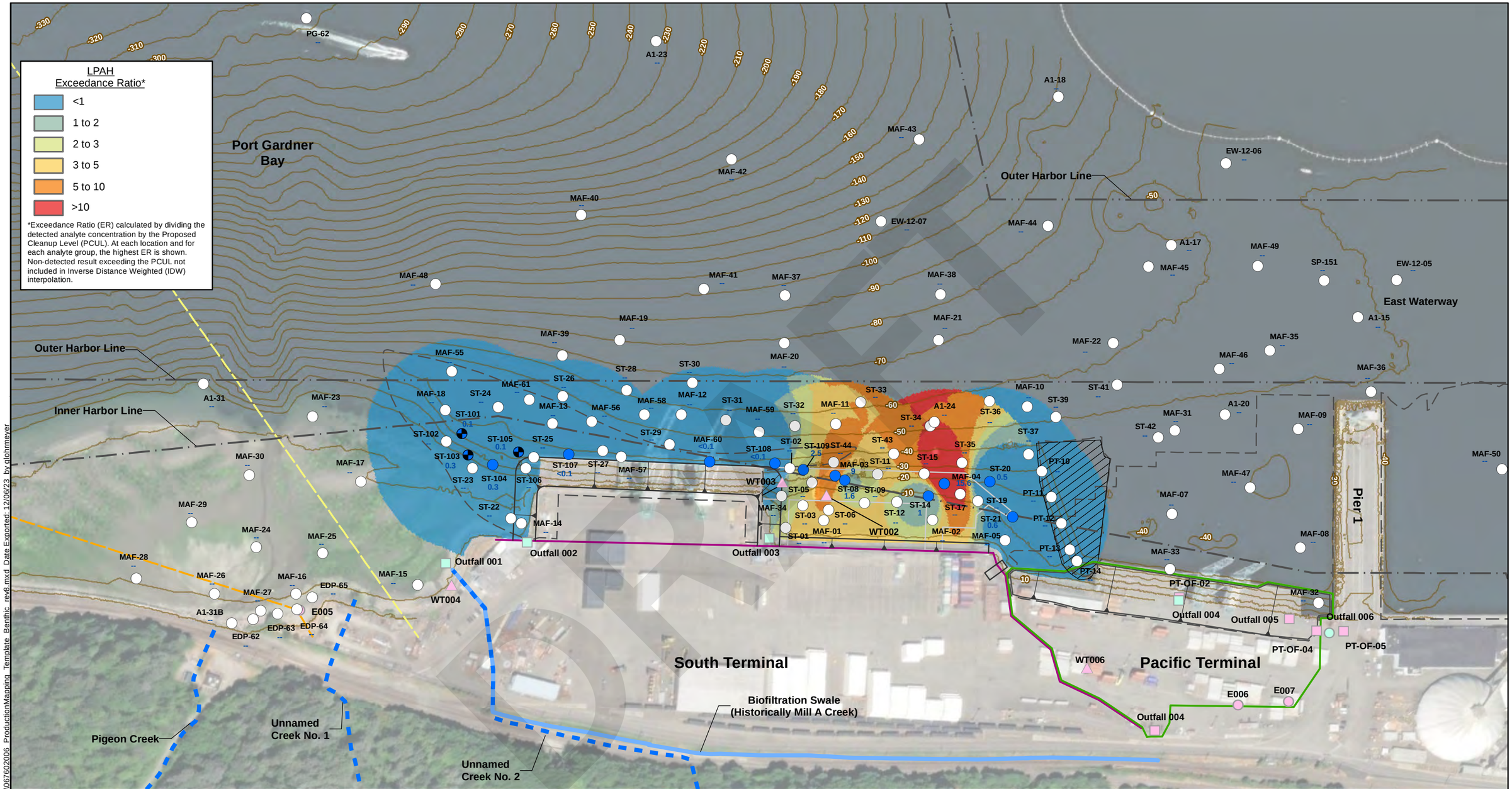
LPAH Results (Benthic) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-125

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LPAH Results (Benthic) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-126

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LPAH
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18

A1-17

A1-15

A1-20

A1-24

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-43

MAF-42

MAF-40

MAF-44

MAF-49

MAF-45

MAF-48

MAF-41

MAF-37

MAF-38

MAF-19

MAF-39

MAF-21

MAF-20

MAF-22

MAF-35

MAF-46

MAF-36

MAF-55

MAF-61

MAF-18

MAF-13

MAF-56

MAF-58

MAF-12

MAF-59

MAF-11

MAF-10

MAF-39

MAF-31

MAF-09

MAF-42

MAF-60

MAF-03

MAF-04

MAF-47

MAF-23

MAF-30

MAF-17

MAF-57

MAF-34

MAF-07

MAF-29

MAF-24

MAF-25

MAF-28

MAF-26

MAF-27

MAF-16

MAF-15

MAF-14

MAF-01

MAF-02

MAF-05

MAF-33

MAF-08

MAF-32

MAF-50

EDP-65

EDP-64

EDP-63

EDP-62

E005

E006

E007

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-10 PT-11 PT-12 PT-13 PT-14 PT-OF-02 PT-OF-04 PT-OF-05

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

LPAH Results (Benthic) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-127

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LPAH
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

PT-OF-02

PT-OF-04

PT-OF-05

WT002

WT003

WT004

WT006

PG-62, A1-23, A1-18, EW-12-06, MAF-43, MAF-42, MAF-40, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, A1-15, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-22, MAF-35, MAF-46, MAF-36, MAF-20, MAF-55, MAF-61, ST-26, ST-28, ST-30, MAF-10, ST-41, ST-39, A1-24, ST-36, MAF-31, A1-20, MAF-09, ST-42, MAF-18, ST-24, MAF-13, MAF-56, MAF-58, MAF-12, ST-31, MAF-59, ST-32, MAF-11, ST-33, ST-34, ST-37, A1-31, MAF-23, ST-101, ST-102, ST-105, ST-25, ST-29, MAF-60, ST-108, ST-02, ST-109, ST-44, ST-43, ST-35, MAF-50, MAF-30, ST-103, ST-107, ST-27, MAF-57, MAF-03, ST-11, ST-15, ST-20, PT-10, MAF-47, MAF-17, ST-23, ST-104, ST-106, MAF-04, ST-05, ST-08, ST-09, PT-11, MAF-07, MAF-29, ST-22, MAF-14, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-19, ST-21, PT-12, MAF-24, MAF-25, ST-01, MAF-01, MAF-02, MAF-05, PT-13, MAF-08, MAF-28, MAF-26, MAF-16, MAF-15, MAF-27, EDP-65, E005, MAF-33, PT-14, MAF-32, A1-31B, EDP-63, EDP-64, EDP-62, E006, E007

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 10, 20, 30, 40, 50

0.1, 1.22

300 0 300
Feet

Notes:
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Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

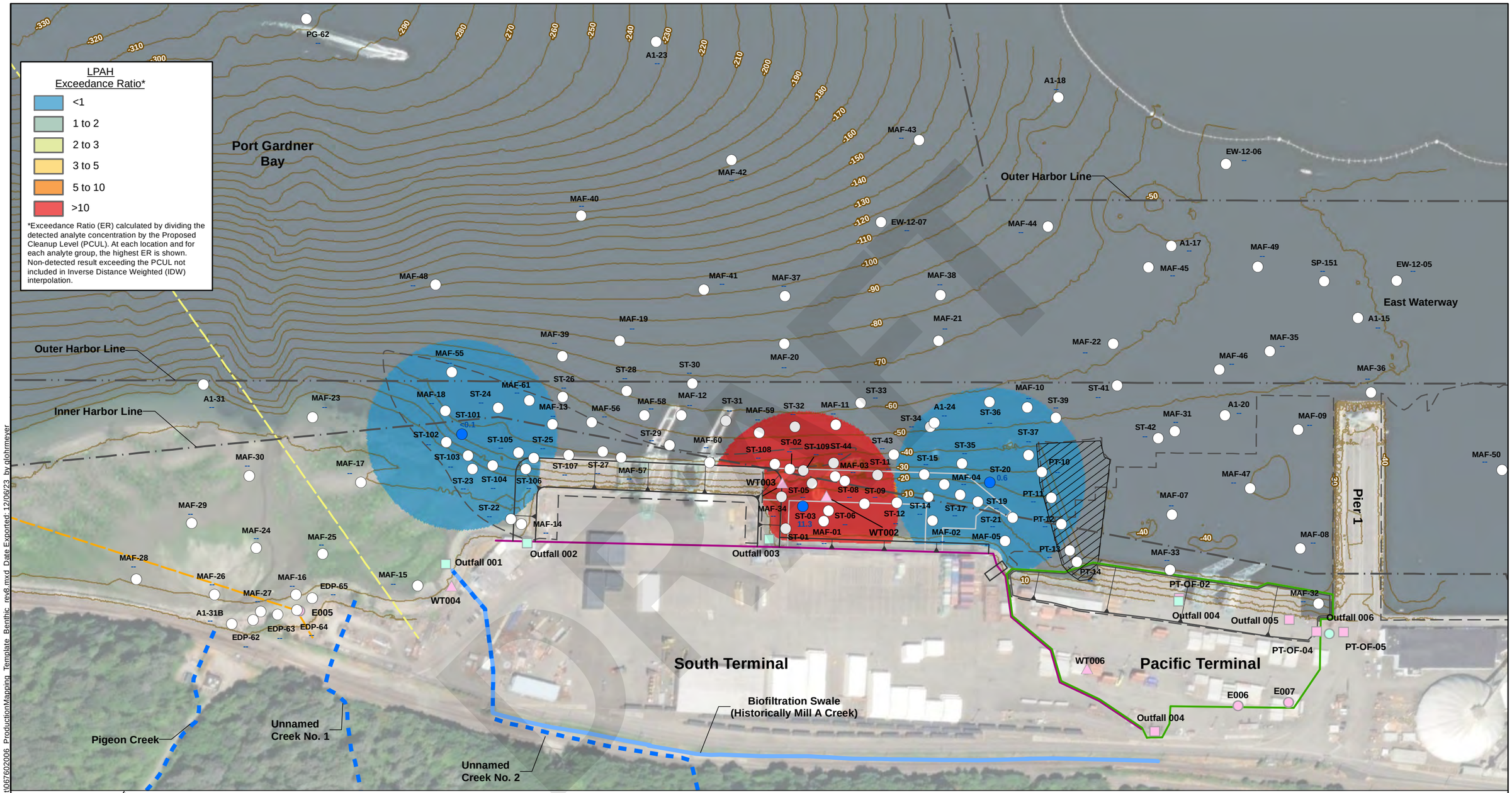
LPAH Results (Benthic) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-128

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

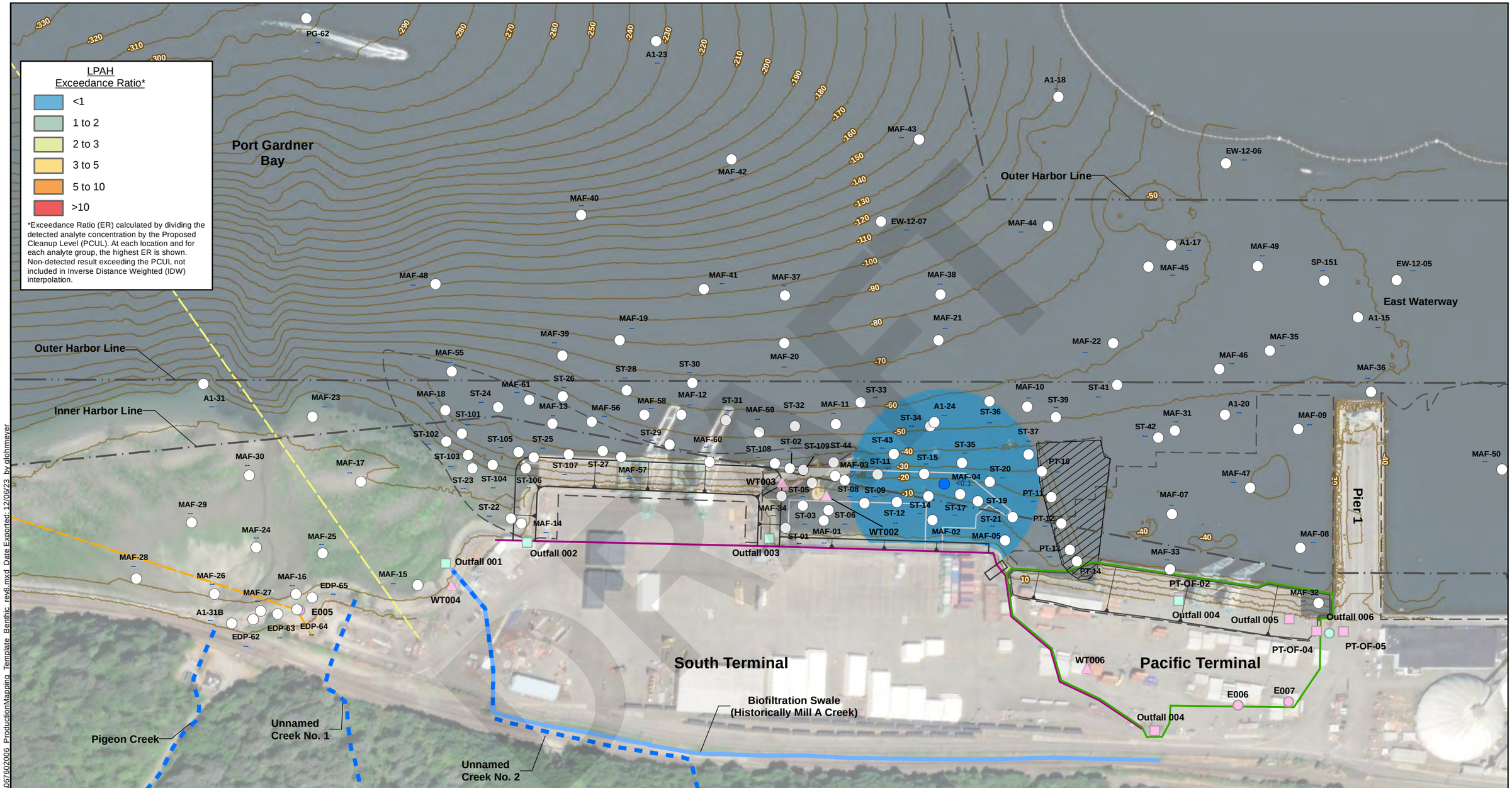
LPAH Results (Benthic) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-129

P:\0\67602006\GIS\MXD\MarineArea_RI_Report\067602006_ProductionMapping_Template_Benthic_rev8.mxd Date Exported: 12/06/23 by glohrmeyer



Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

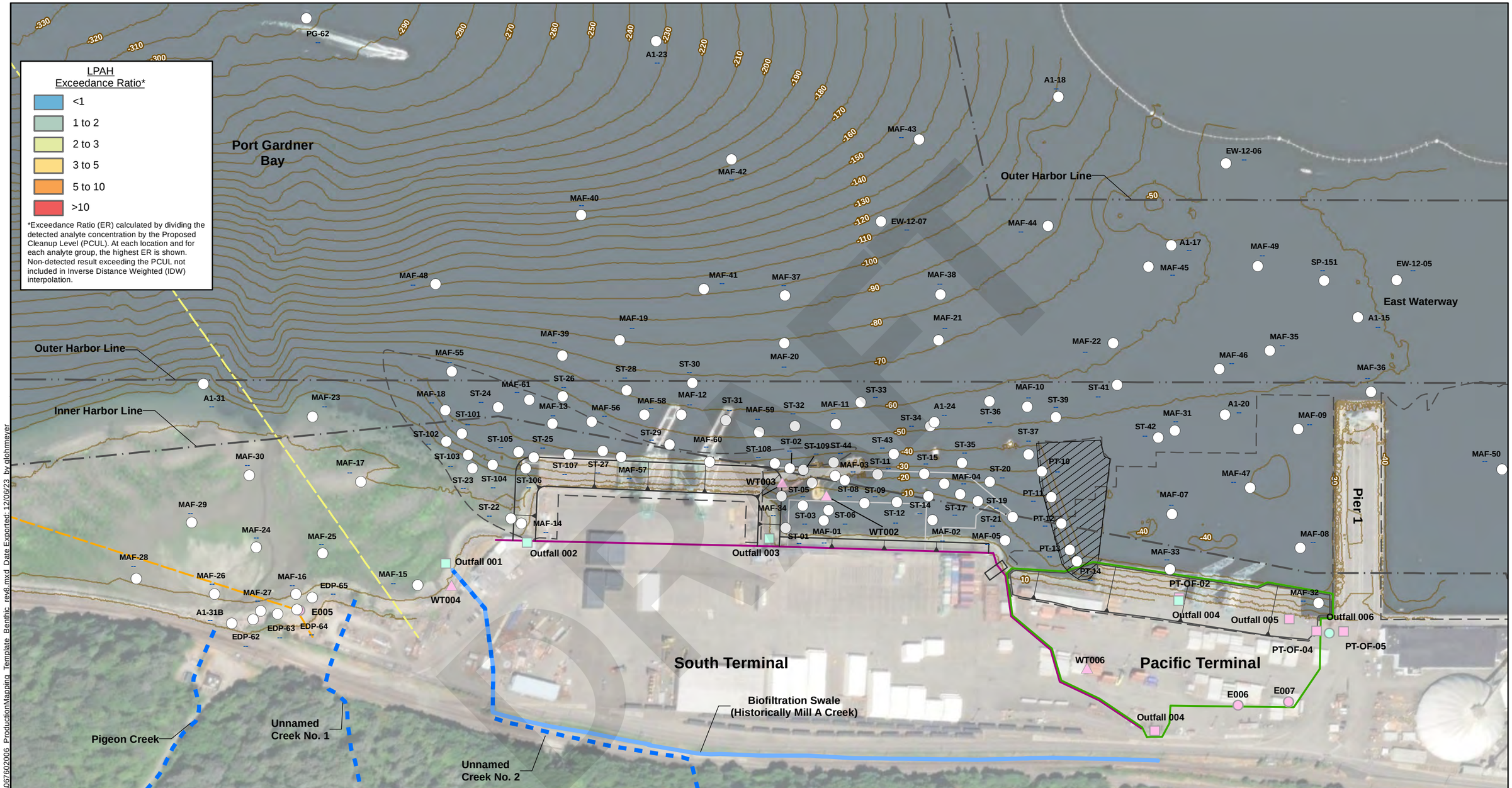
LPAH Results (Benthic) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-130

P:\0067602G\GIS\MXD\MarineArea_RI_Report\0067602006_ProductionMapping_Template_Benthic_rev9.mxd Date Exported: 12/06/23 by glohrmeyer



Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

LPAH Results (Benthic) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-131

P:\0067602G\GIS\MXD\MarineArea_RI_Report\0067602G06_ProductionMapping_Template_Benthic_rev9.mxd Date Exported: 12/06/23 by glohrmeyer

LPAH
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, A1-15, MAF-55, MAF-20, MAF-22, MAF-35, MAF-46, MAF-36, A1-31, MAF-23, MAF-61, ST-26, ST-28, ST-30, MAF-18, ST-24, MAF-13, MAF-56, MAF-58, MAF-12, ST-31, ST-33, MAF-10, ST-41, ST-39, A1-24, ST-36, MAF-59, ST-32, MAF-11, ST-34, A1-20, MAF-31, MAF-09, ST-101, ST-102, ST-105, ST-25, ST-29, MAF-60, ST-108, ST-02, ST-109, ST-44, ST-43, ST-35, ST-37, ST-42, MAF-50, MAF-30, MAF-17, ST-103, ST-107, ST-27, MAF-57, MAF-03, ST-11, ST-15, ST-20, PT-10, MAF-47, ST-23, ST-104, ST-106, ST-05, ST-08, ST-09, MAF-04, PT-11, MAF-07, MAF-29, ST-22, MAF-14, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-19, ST-21, PT-12, MAF-24, MAF-25, ST-01, MAF-01, MAF-02, MAF-05, PT-13, MAF-08, MAF-28, MAF-33, PT-14, MAF-26, MAF-16, EDP-65, MAF-15, MAF-27, PT-OF-02, MAF-32, A1-31B, E005, EDP-64, EDP-63, EDP-62, PT-OF-04, PT-OF-05, E006, E007

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 10, 30, 50

0.1, <0.1

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

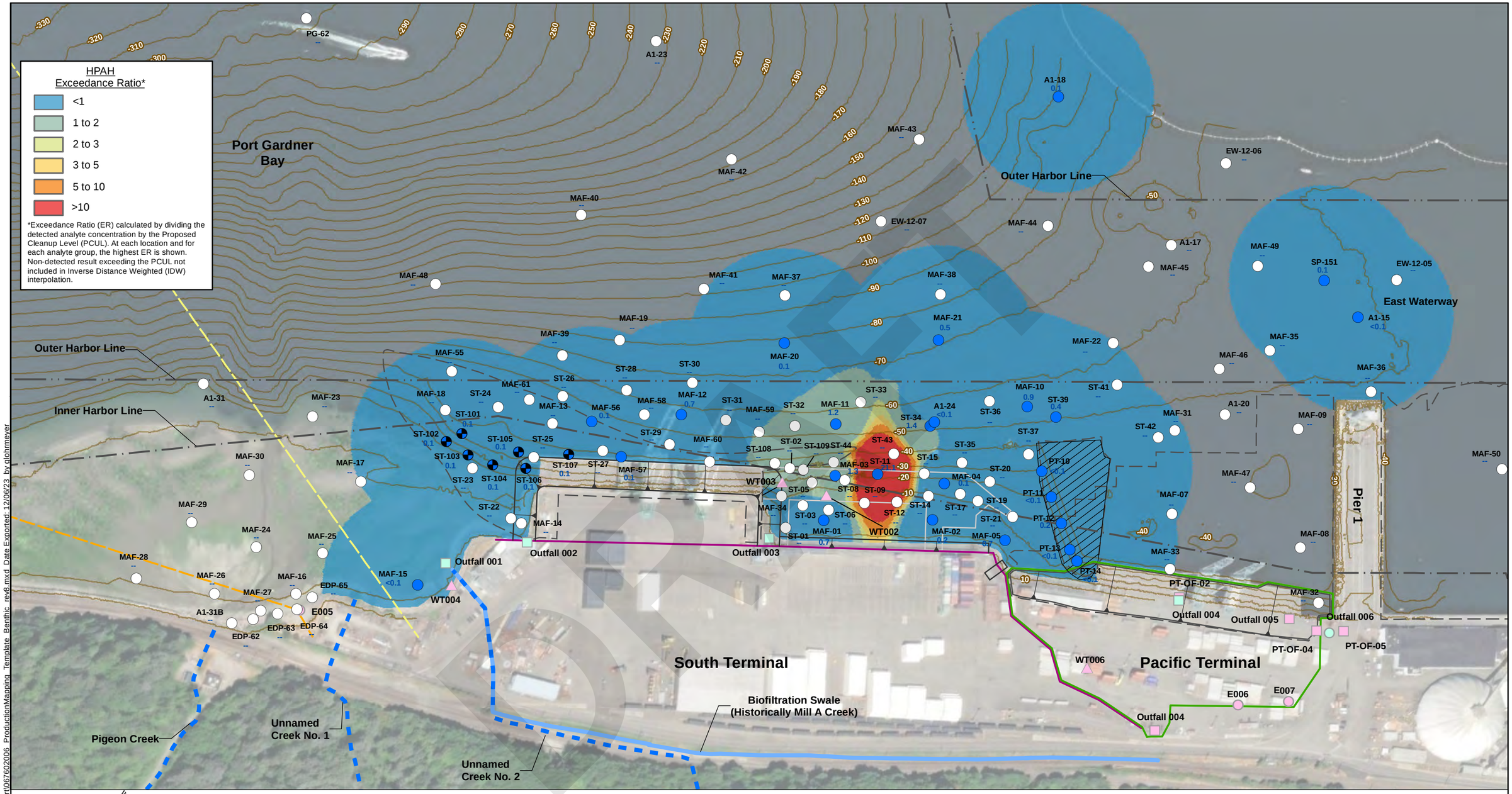
LPAH Results (Benthic) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-132

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 / 1.22 — Sample Location Identification / Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

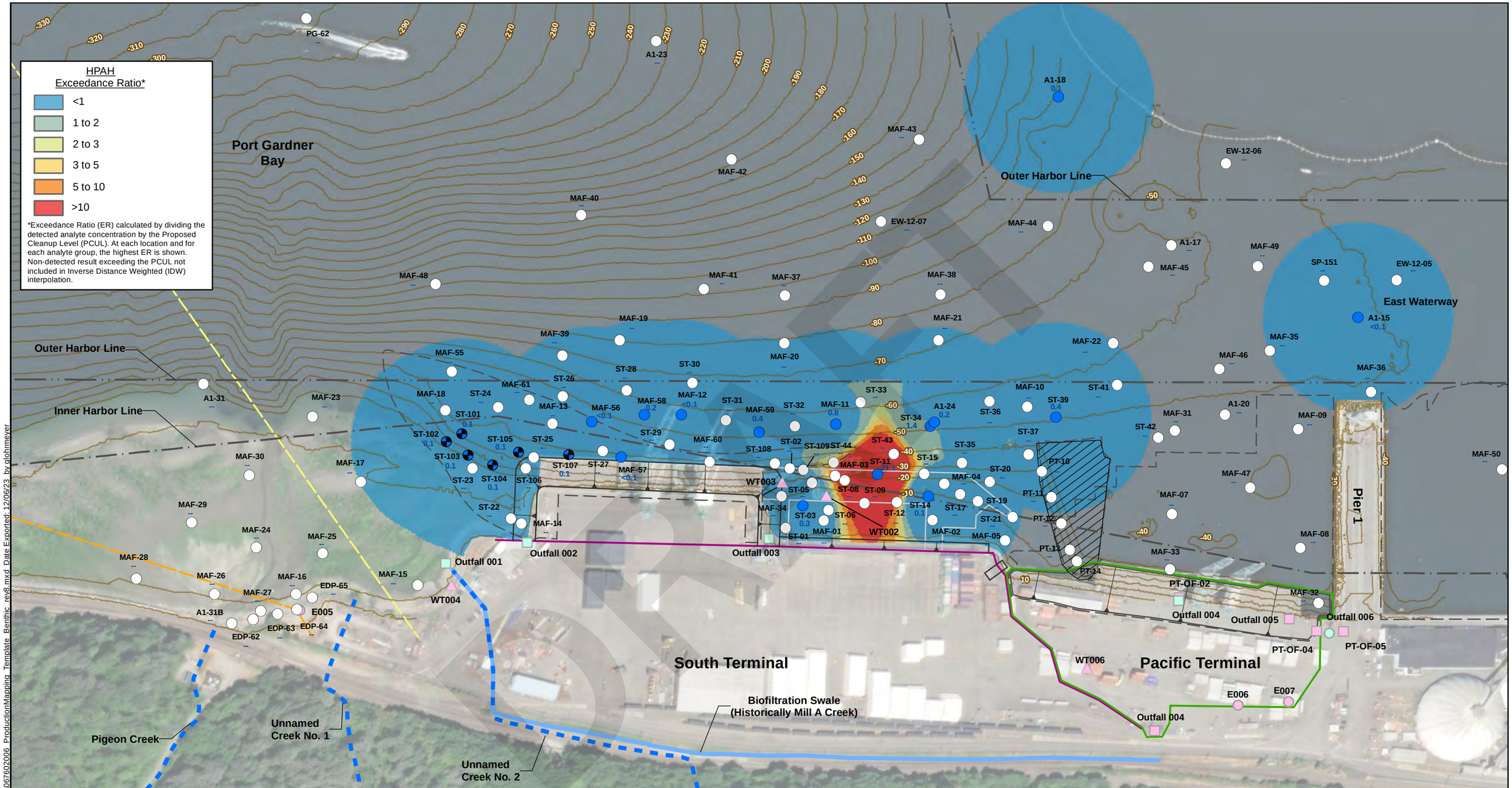
HPAH Results (Benthic) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-122

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Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

HPAH Results (Benthic) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-123

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HPAH
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

E005

E006

E007

PT-OF-02

PT-OF-04

PT-OF-05

PG-62

A1-23

A1-18
0.1

EW-12-06

EW-12-07

EW-12-05

SP-151

A1-17

A1-15
<0.1

A1-20

A1-24
0.2

A1-31

A1-31B

MAF-01 1.22
MAF-02 <0.1
MAF-03 1.1
MAF-04 0.5
MAF-05
MAF-07
MAF-08
MAF-09
MAF-10
MAF-11
MAF-12
MAF-13
MAF-14
MAF-15
MAF-16
MAF-17
MAF-18
MAF-19
MAF-20
MAF-21
MAF-22
MAF-23
MAF-24
MAF-25
MAF-26
MAF-27
MAF-28
MAF-29
MAF-30
MAF-31
MAF-32
MAF-33
MAF-34
MAF-35
MAF-36
MAF-37
MAF-38
MAF-39
MAF-40
MAF-41
MAF-42
MAF-43
MAF-44
MAF-45
MAF-46
MAF-47
MAF-48
MAF-49
MAF-50
MAF-55
MAF-56
MAF-57
MAF-58
MAF-59
MAF-60 0.5
MAF-61

ST-01 0.4
ST-02 1.1
ST-03 0.3
ST-05
ST-06
ST-08
ST-09
ST-10
ST-11 1.1
ST-12 0.1
ST-14 0.1
ST-15
ST-17
ST-19
ST-20
ST-21
ST-22
ST-23
ST-24
ST-25
ST-26
ST-27
ST-28
ST-29
ST-30
ST-31
ST-32
ST-33
ST-34
ST-35
ST-36
ST-37
ST-39
ST-41
ST-42
ST-43 44.7
ST-44
ST-101 0.1
ST-102 0.1
ST-103 0.1
ST-104 0.1
ST-105 0.1
ST-106 <0.1
ST-107 0.1
ST-108
ST-109

PT-10
PT-11
PT-12
PT-13
PT-14

EDP-62
EDP-63
EDP-64
EDP-65

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 -50 -50

N W E S

300 0 300
Feet

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Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

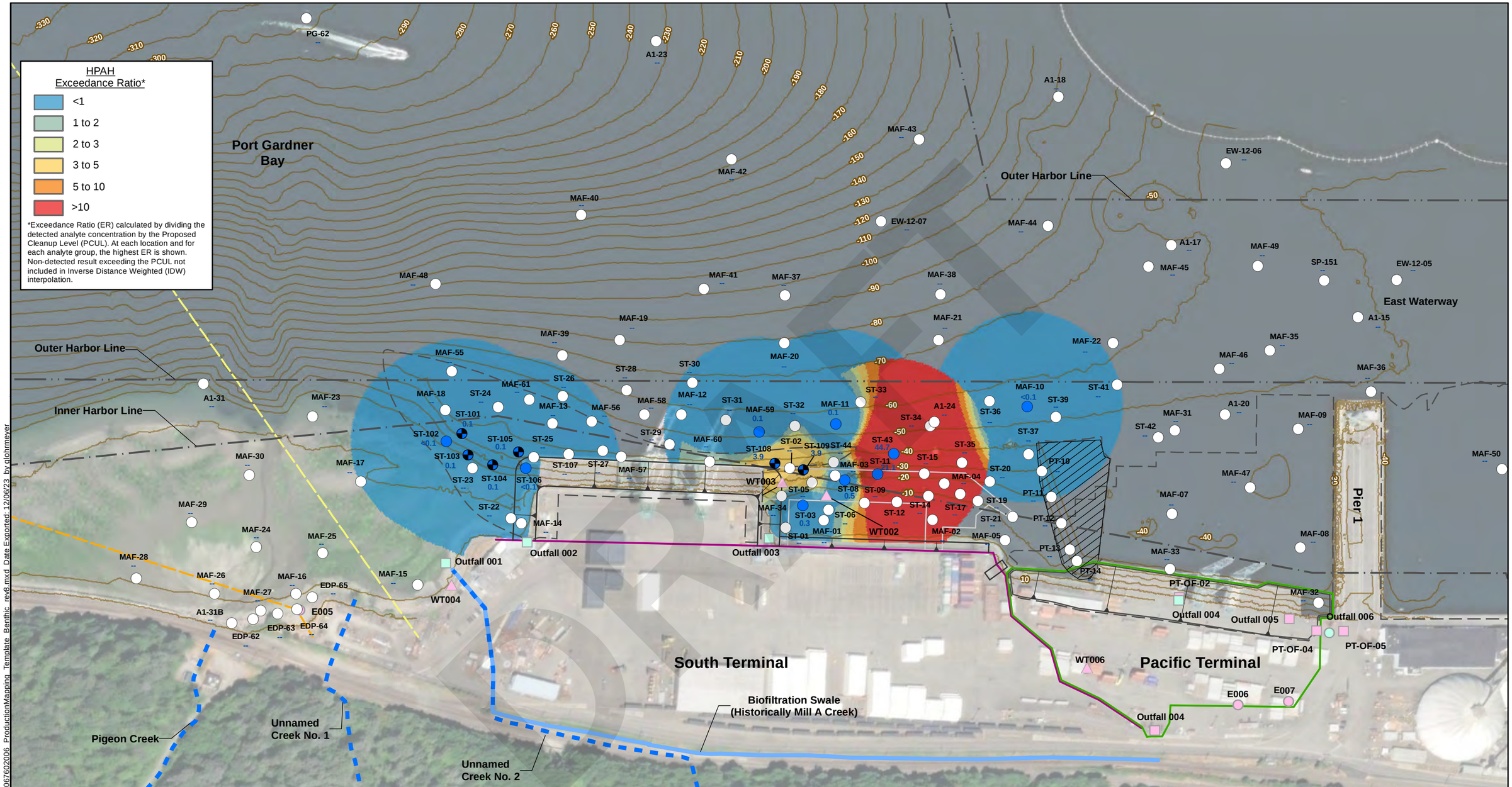
HPAH Results (Benthic) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-124

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

HPAH Results (Benthic) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-125

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HPAH
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18

A1-17

A1-15

A1-20

A1-24

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-43

MAF-42

MAF-40

MAF-44

MAF-49

MAF-45

MAF-48

MAF-41

MAF-37

MAF-38

MAF-19

MAF-39

MAF-21

MAF-20

MAF-22

MAF-35

MAF-46

MAF-36

MAF-55

MAF-61

MAF-18

MAF-24

MAF-13

MAF-56

MAF-58

MAF-12

MAF-59

MAF-11

MAF-10

MAF-31

MAF-09

MAF-23

MAF-30

MAF-17

MAF-29

MAF-24

MAF-25

MAF-28

MAF-26

MAF-27

MAF-16

MAF-15

MAF-14

MAF-34

MAF-03

MAF-04

MAF-07

MAF-47

MAF-50

MAF-33

MAF-08

MAF-32

MAF-01

MAF-02

MAF-05

EDP-65

EDP-63

EDP-64

EDP-62

E005

E006

E007

ST-26

ST-28

ST-30

ST-24

ST-25

ST-29

ST-31

ST-32

ST-33

ST-34

ST-36

ST-37

ST-39

ST-41

ST-42

ST-101

ST-102

ST-103

ST-104

ST-105

ST-106

ST-107

ST-27

ST-57

ST-108

ST-02

ST-109

ST-44

ST-43

ST-35

ST-15

ST-20

ST-19

ST-17

ST-21

ST-05

ST-08

ST-09

ST-14

ST-12

ST-03

ST-06

ST-01

ST-22

ST-23

PT-10

PT-11

PT-12

PT-13

PT-14

PT-OF-02

PT-OF-04

PT-OF-05

<0.1

0.2

2.1

0.5

1.4

0.1

0.7

-10

-20

-30

-40

-50

-60

-70

-80

-90

-100

-110

-120

-130

-140

-150

-160

-170

-180

-190

-200

-210

-220

-230

-240

-250

-260

-270

-280

-290

-300

-310

-320

-330

-50

-40

-30

-20

-10

10

20

30

40

300 0 300

Feet

Notes:
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Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

HPAH Results (Benthic) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-126

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HPAH
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, A1-15, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-22, MAF-35, MAF-46, MAF-36, MAF-55, MAF-61, ST-26, ST-28, ST-30, MAF-20, A1-31, MAF-23, MAF-18, ST-24, MAF-13, MAF-56, MAF-58, MAF-12, ST-31, MAF-59, ST-32, MAF-11, ST-33, MAF-10, ST-41, ST-39, A1-24, ST-36, A1-20, MAF-31, MAF-09, ST-42, ST-101, ST-102, ST-105, ST-25, ST-29, MAF-60, ST-108, ST-02, ST-109, ST-44, ST-43, ST-34, ST-37, ST-35, MAF-50, MAF-30, MAF-17, ST-103, ST-107, ST-27, MAF-57, MAF-03, ST-11, ST-15, ST-20, PT-10, MAF-47, ST-23, ST-104, ST-106, ST-05, ST-08, ST-09, MAF-04, PT-11, MAF-07, MAF-29, ST-22, MAF-14, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-19, ST-21, PT-12, MAF-24, MAF-25, ST-01, MAF-01, MAF-02, MAF-05, PT-13, MAF-08, MAF-28, MAF-26, MAF-16, EDP-65, MAF-27, MAF-15, PT-14, MAF-33, PT-OF-02, MAF-32, A1-31B, E005, EDP-63, EDP-64, EDP-62, PT-OF-04, PT-OF-05, E006, E007

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 10, 20, 30, 40, 50

<0.1, 0.1, 0.5, 0.7

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

300 0 300
Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

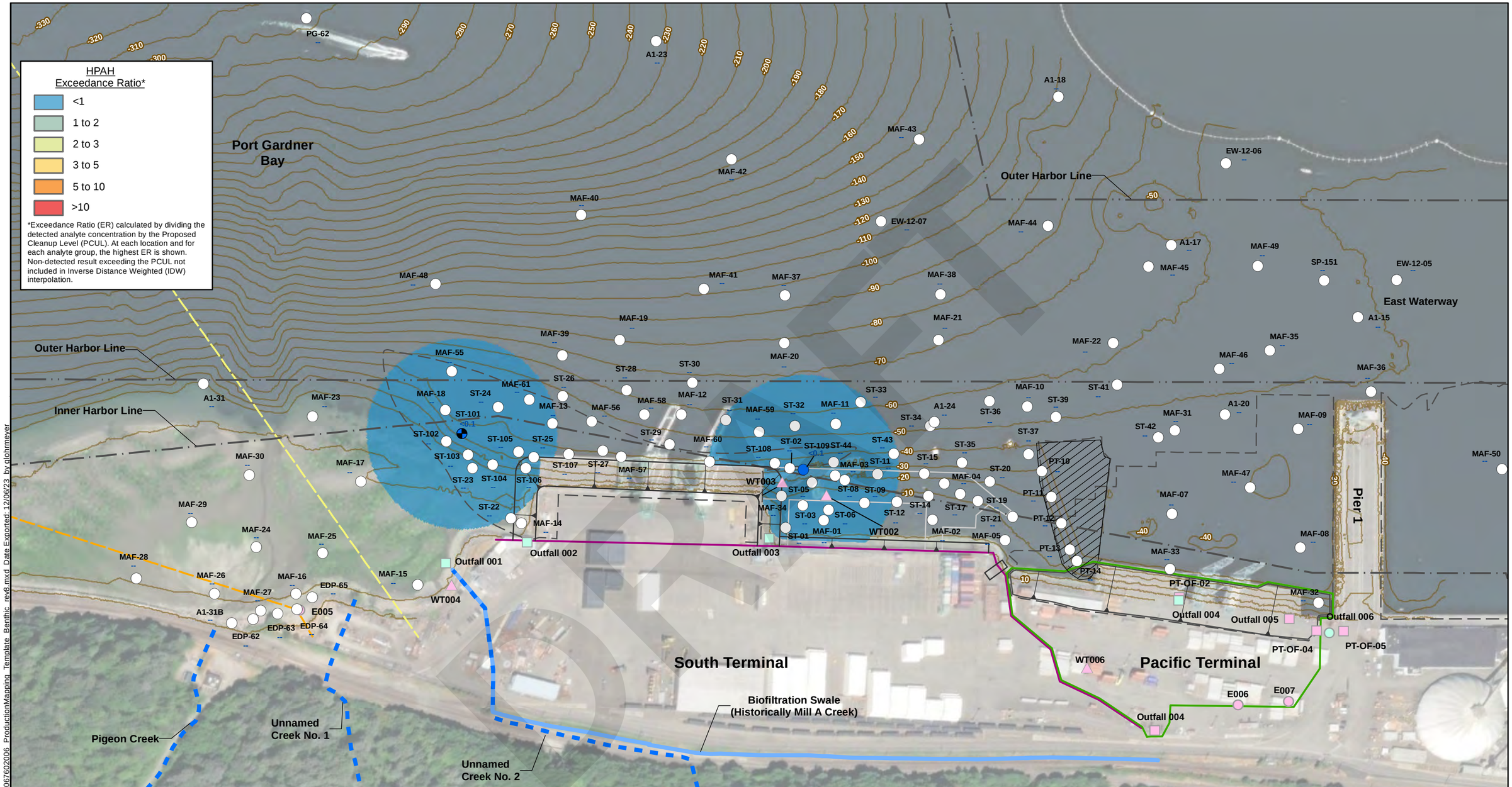
HPAH Results (Benthic) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-127

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Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

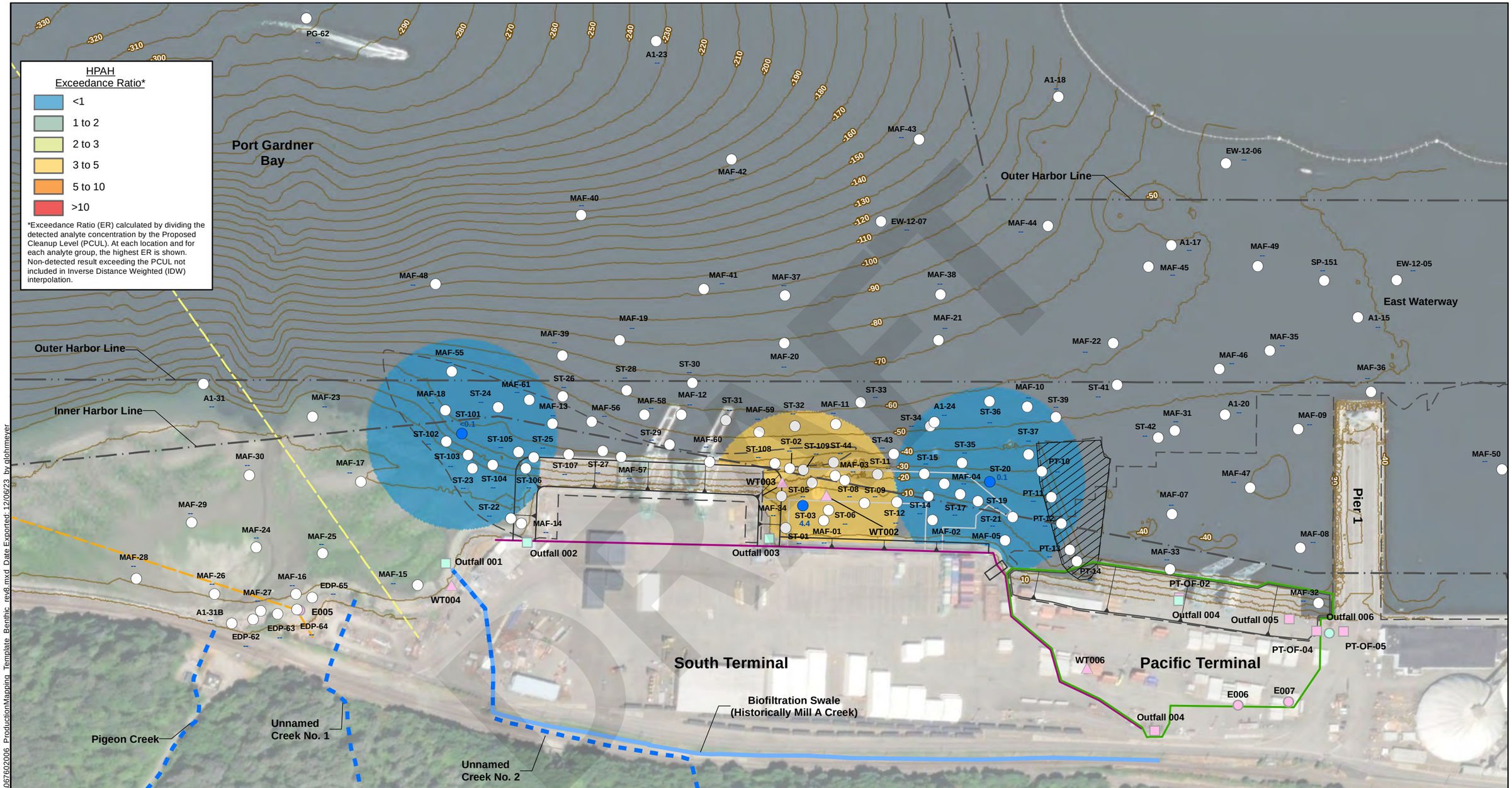
HPAH Results (Benthic) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-128

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

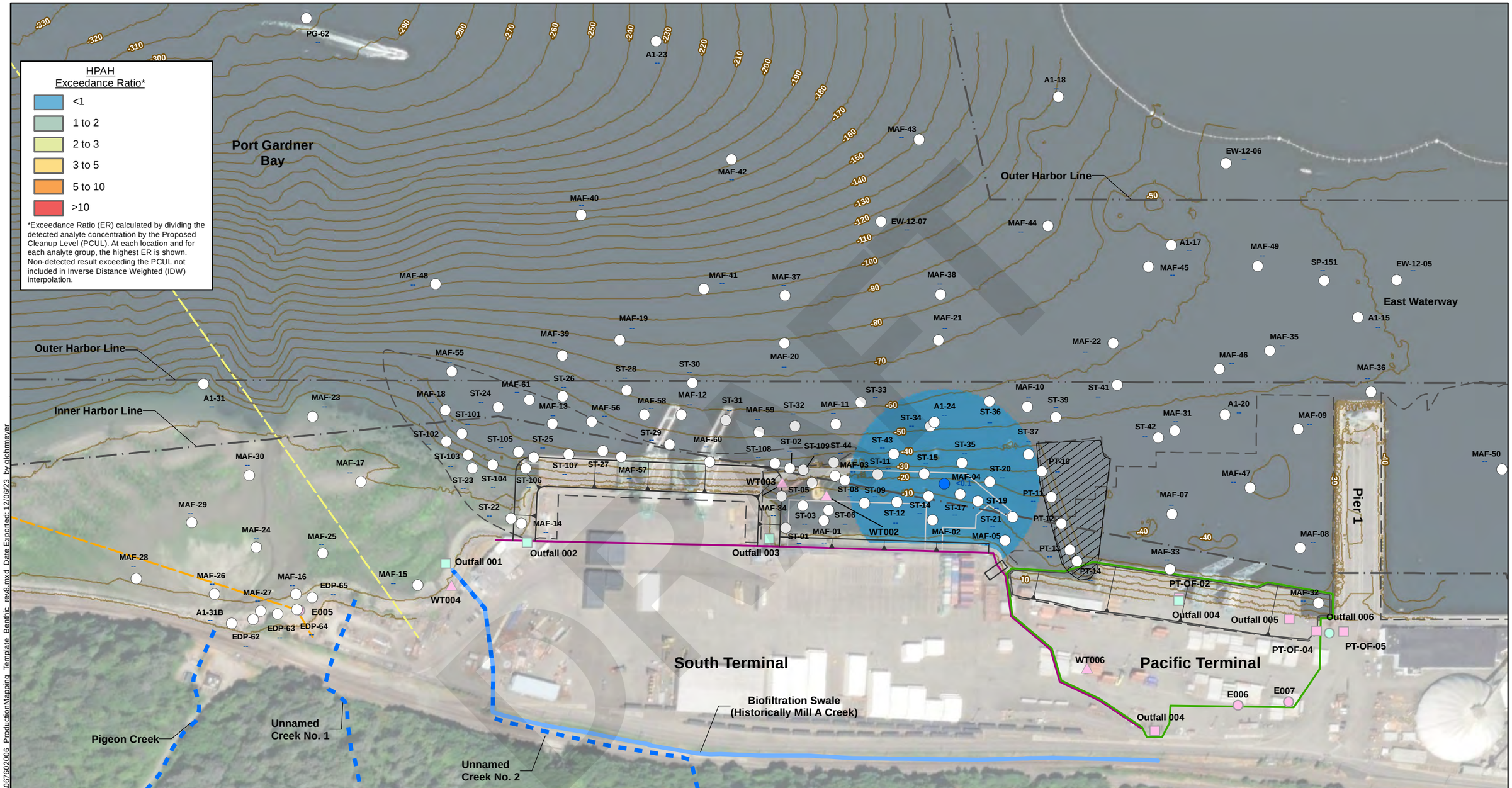
HPAH Results (Benthic) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-129

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Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

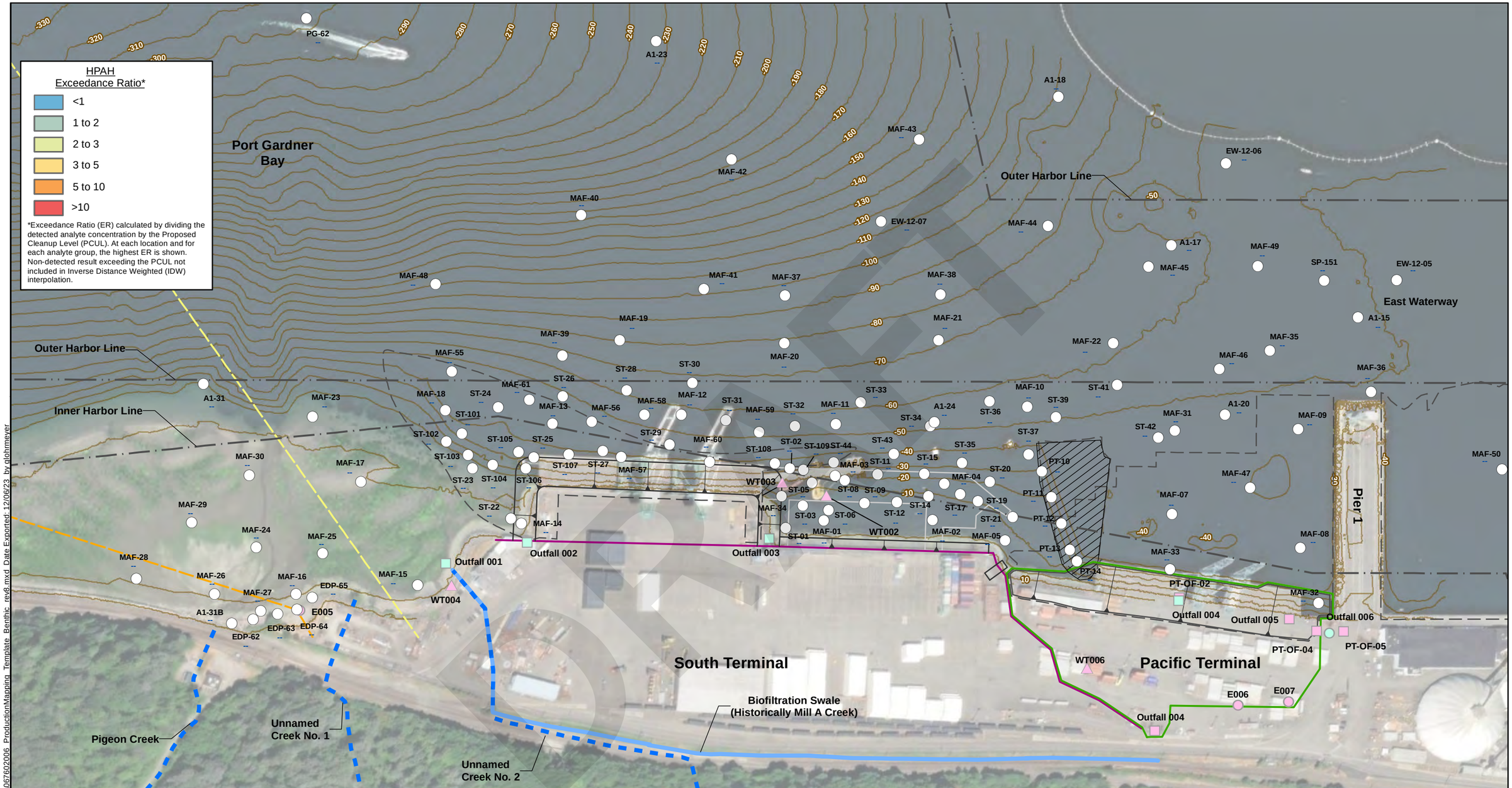
HPAH Results (Benthic) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-130

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N
W E
S

300 0 300
Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

HPAH Results (Benthic) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-131

HPAH
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Unnamed Creek No. 1

Unnamed Creek No. 2

Pigeon Creek

PG-62, A1-23, A1-18, A1-17, A1-15, A1-31, A1-31B, A1-24, A1-20

MAF-01 through MAF-61

ST-01 through ST-44

EW-12-06, EW-12-07, EW-12-05, SP-151

WT002, WT003, WT004, WT006

PT-10, PT-11, PT-12, PT-13, PT-14

PT-OF-02, PT-OF-04, PT-OF-05

E005, E006, E007

EDP-62, EDP-63, EDP-64, EDP-65

Outfall 001, Outfall 002, Outfall 003, Outfall 004, Outfall 005, Outfall 006

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 10, 20, 30, 40, 50

<0.1, <0.3

300 0 300
Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

HPAH Results (Benthic)
Subsurface Sediment (20-22 ft)

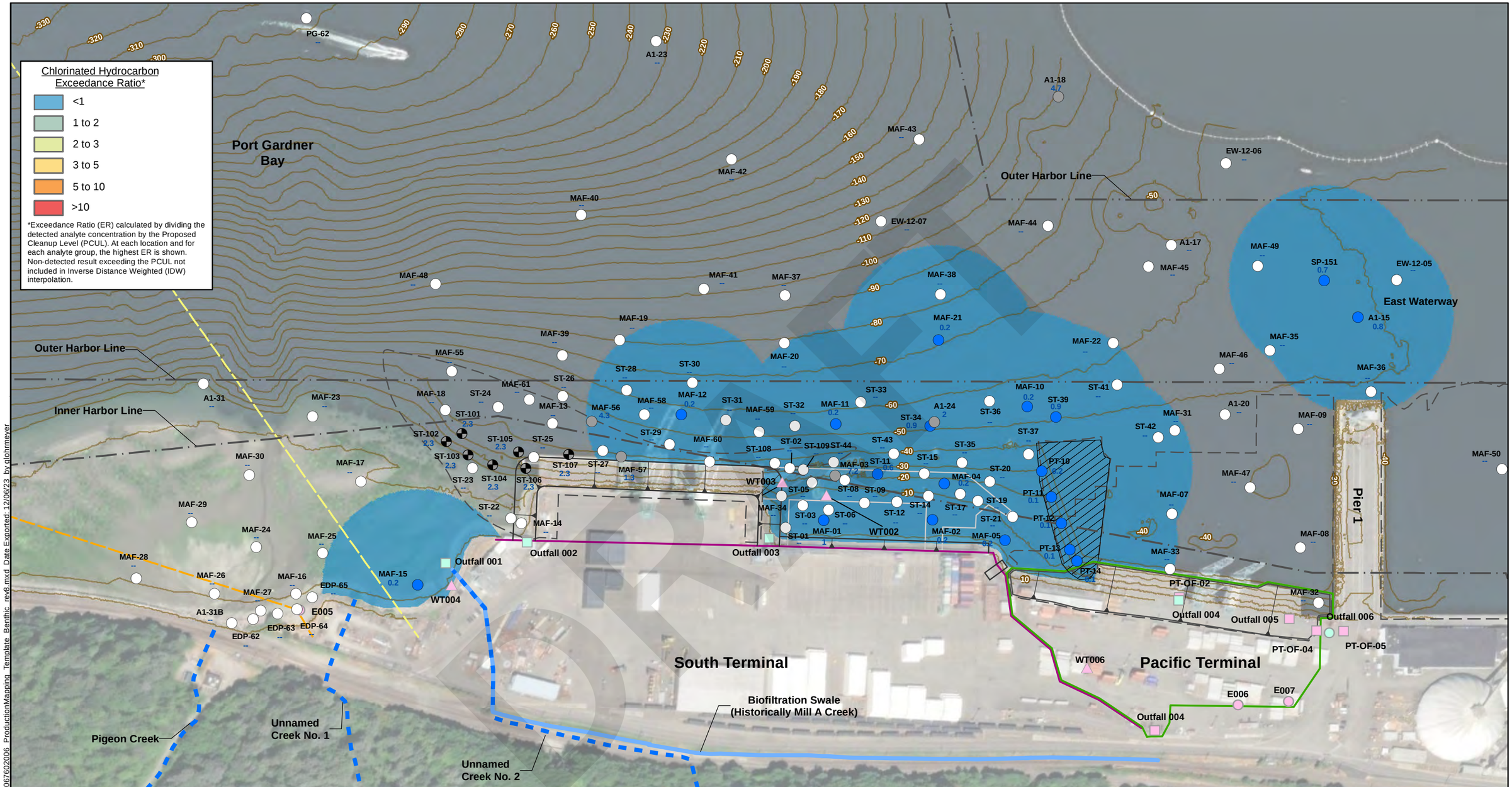
Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-132

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DRAFT



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Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

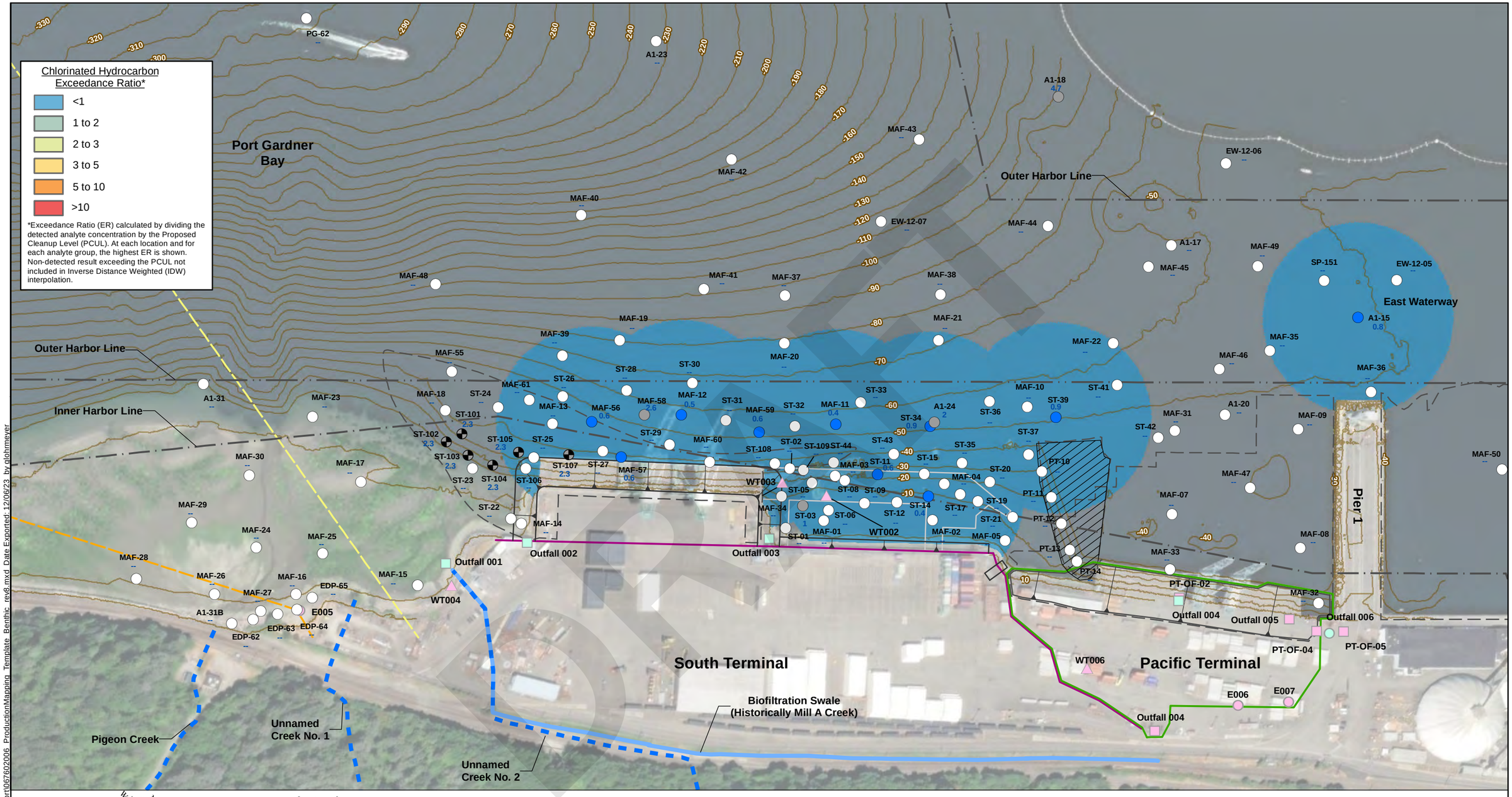
Chlorinated Hydrocarbon Results (Benthic) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-144

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Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

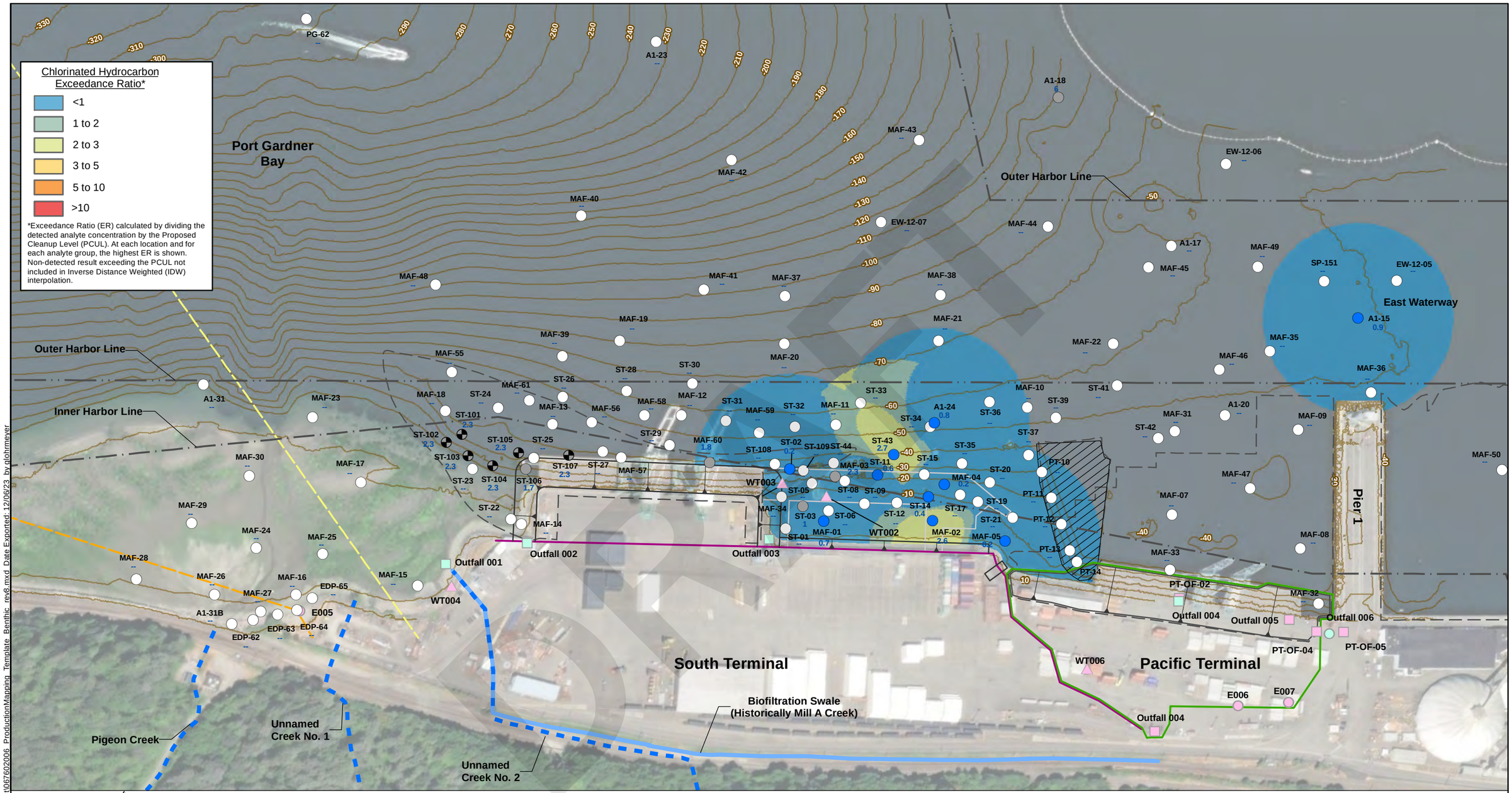
Chlorinated Hydrocarbon Results (Benthic) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-145

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Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

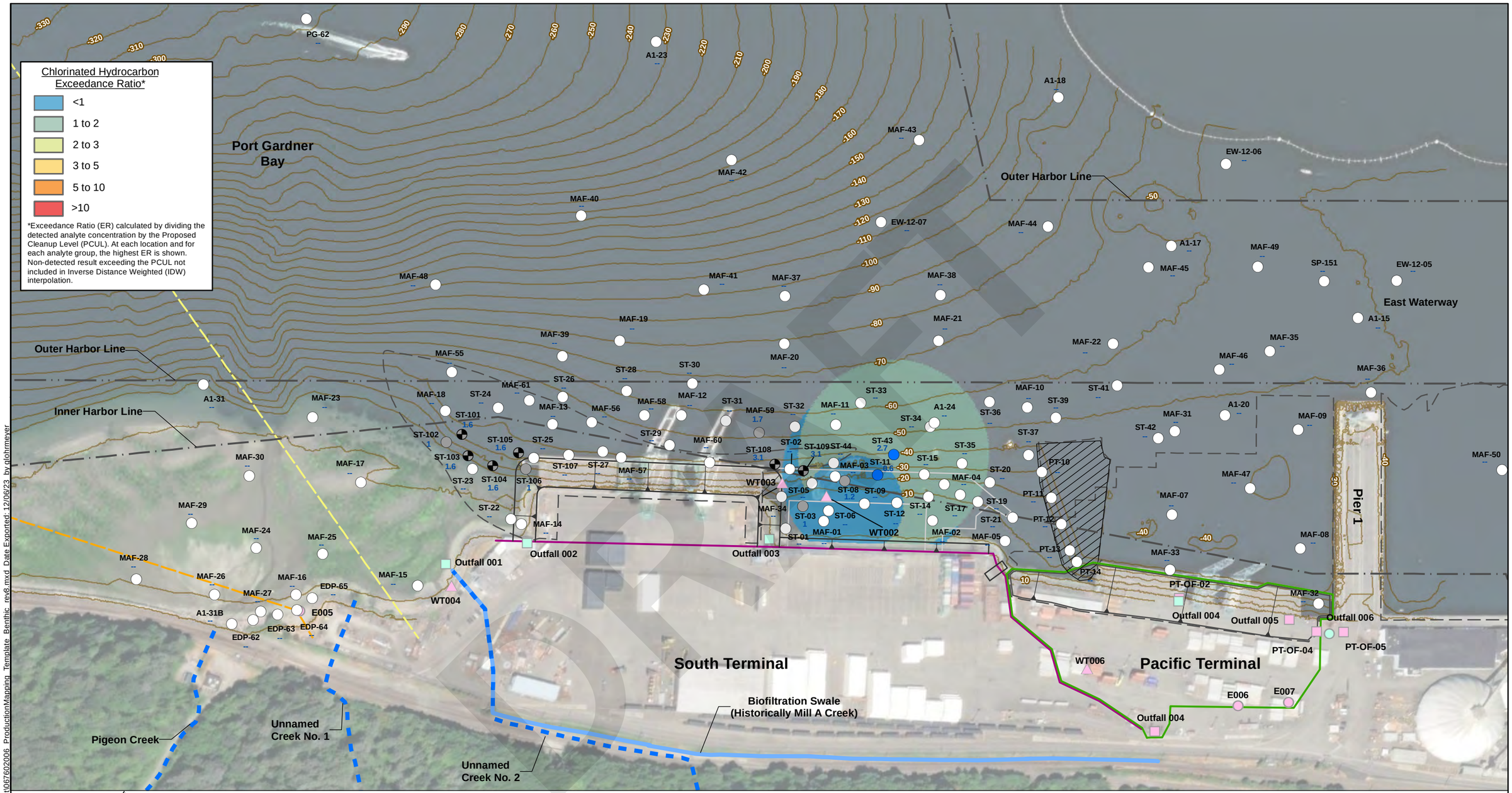
Chlorinated Hydrocarbon Results (Benthic) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-146

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Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

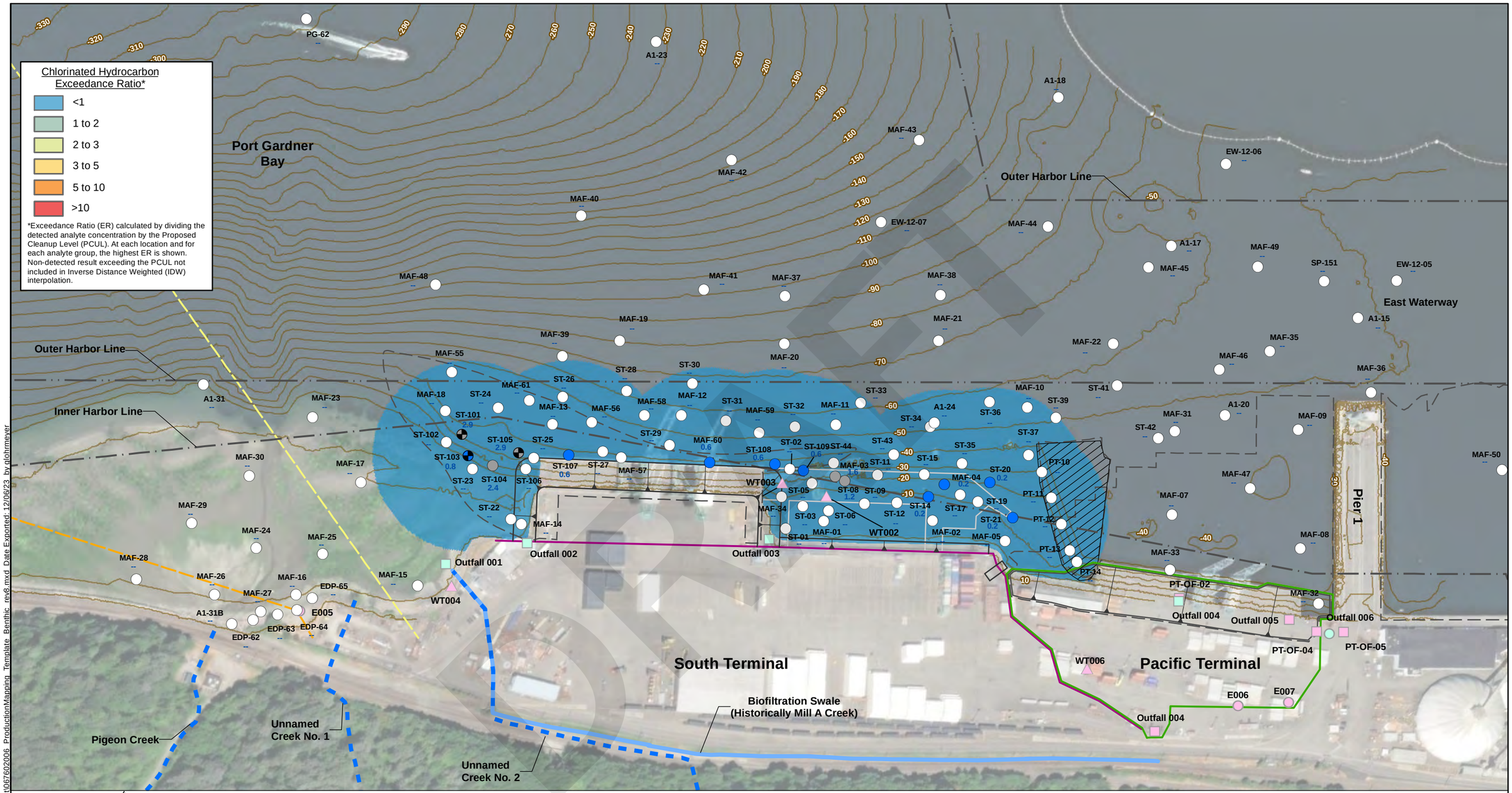
Chlorinated Hydrocarbon Results (Benthic) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-147

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Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

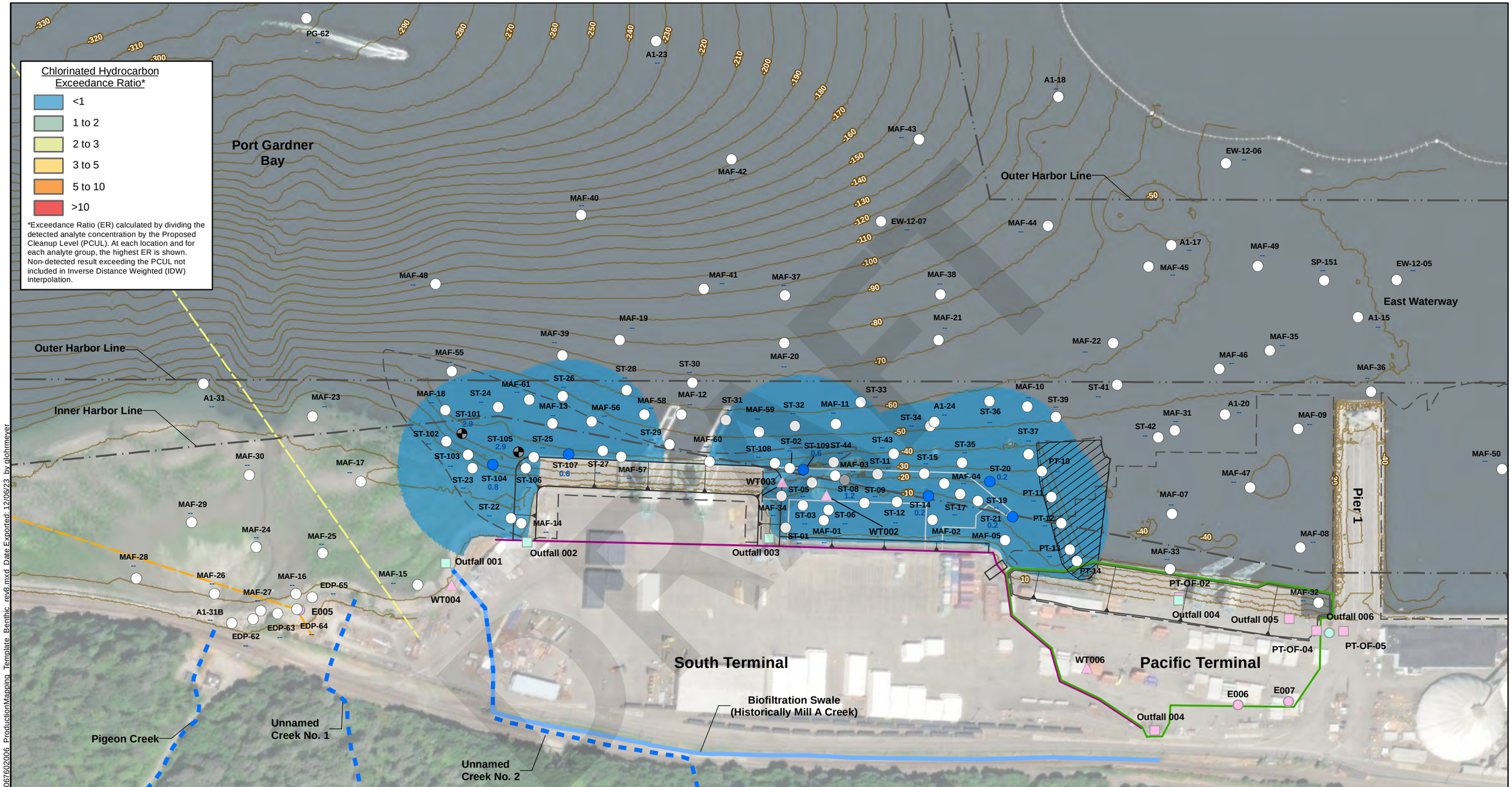
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Chlorinated Hydrocarbon Results (Benthic) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-148



Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

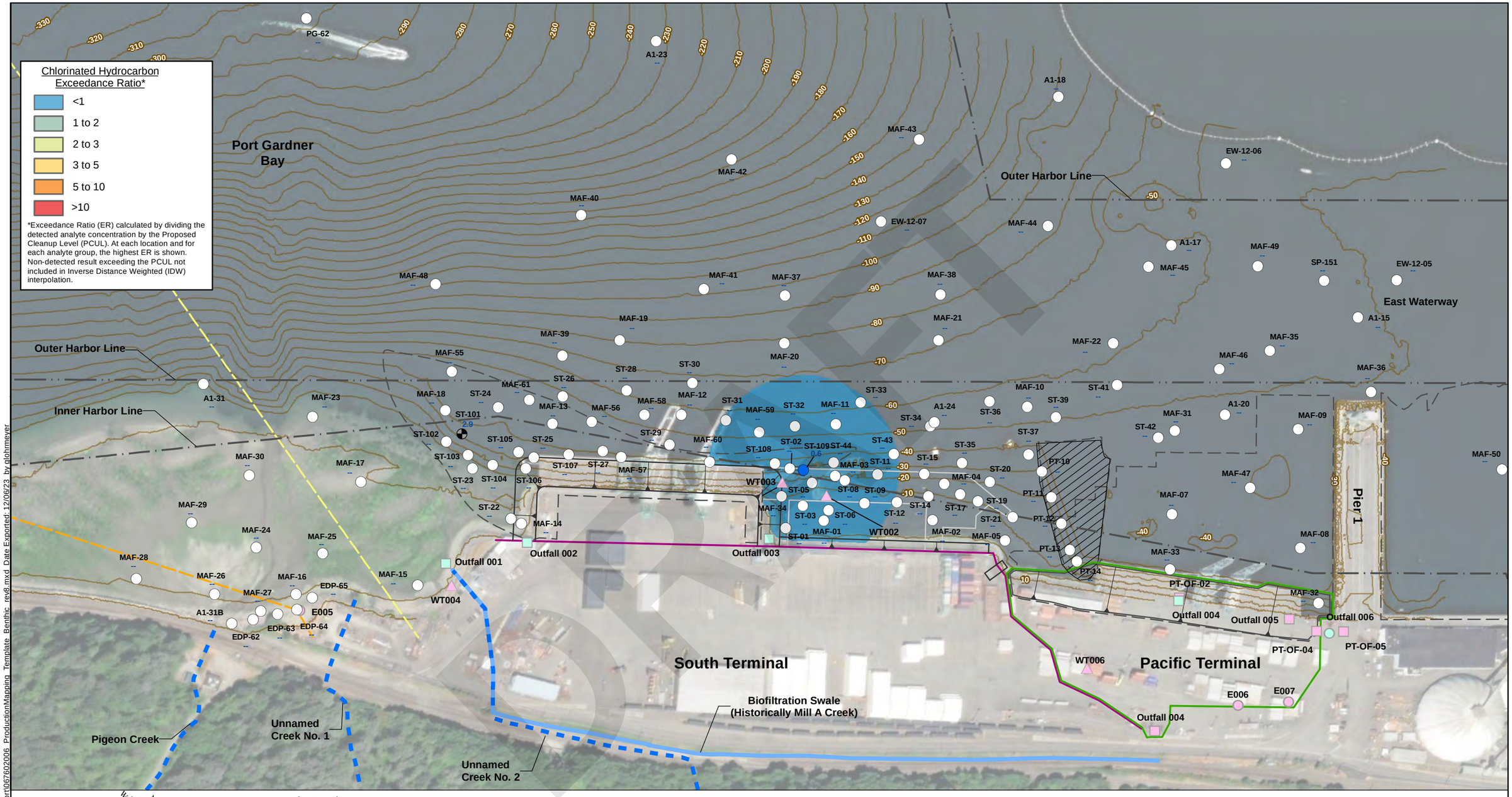
Chlorinated Hydrocarbon Results (Benthic) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-149

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N
W E
S

300 0 300

Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

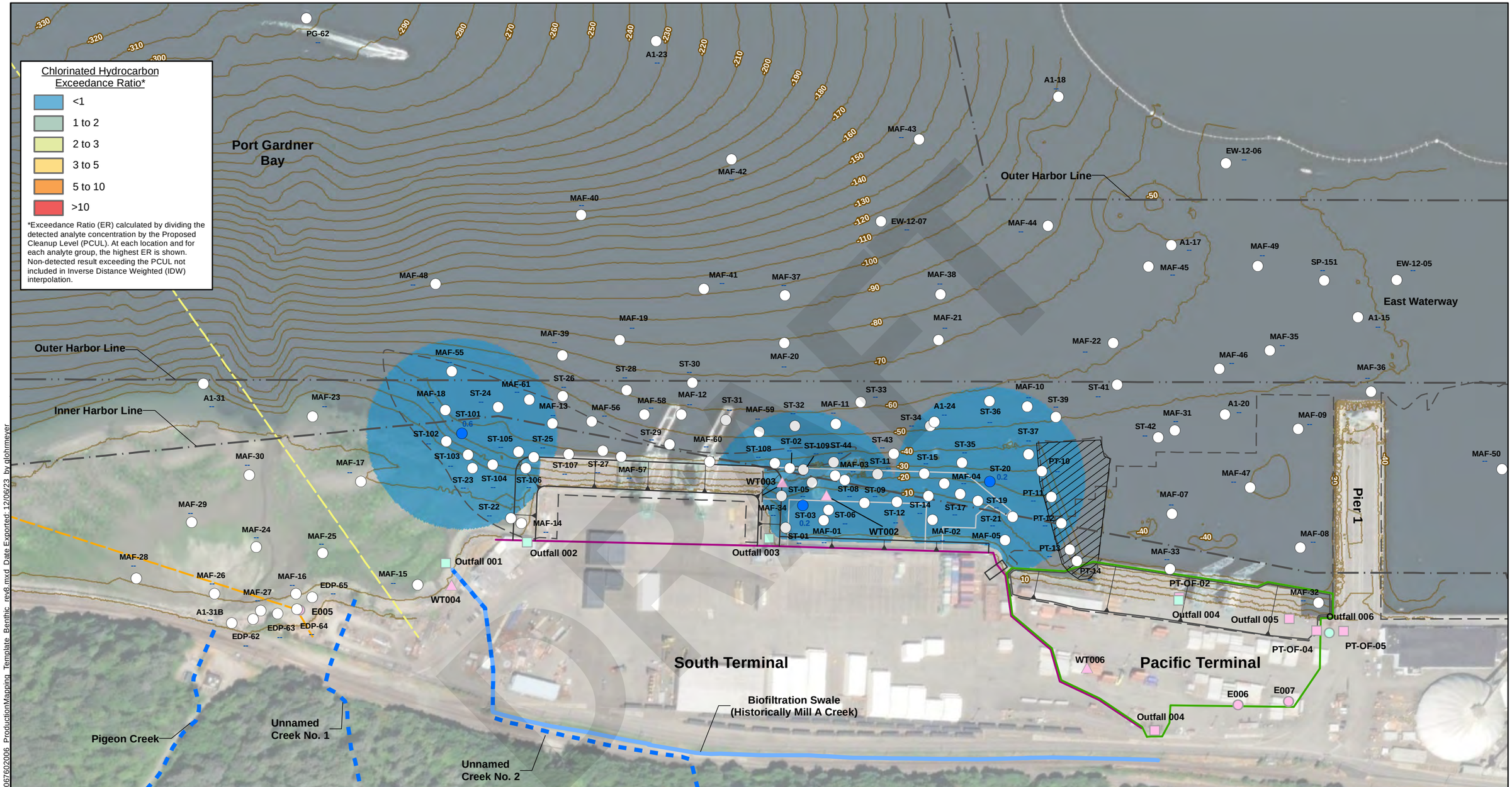
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Chlorinated Hydrocarbon Results (Benthic) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-150



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Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

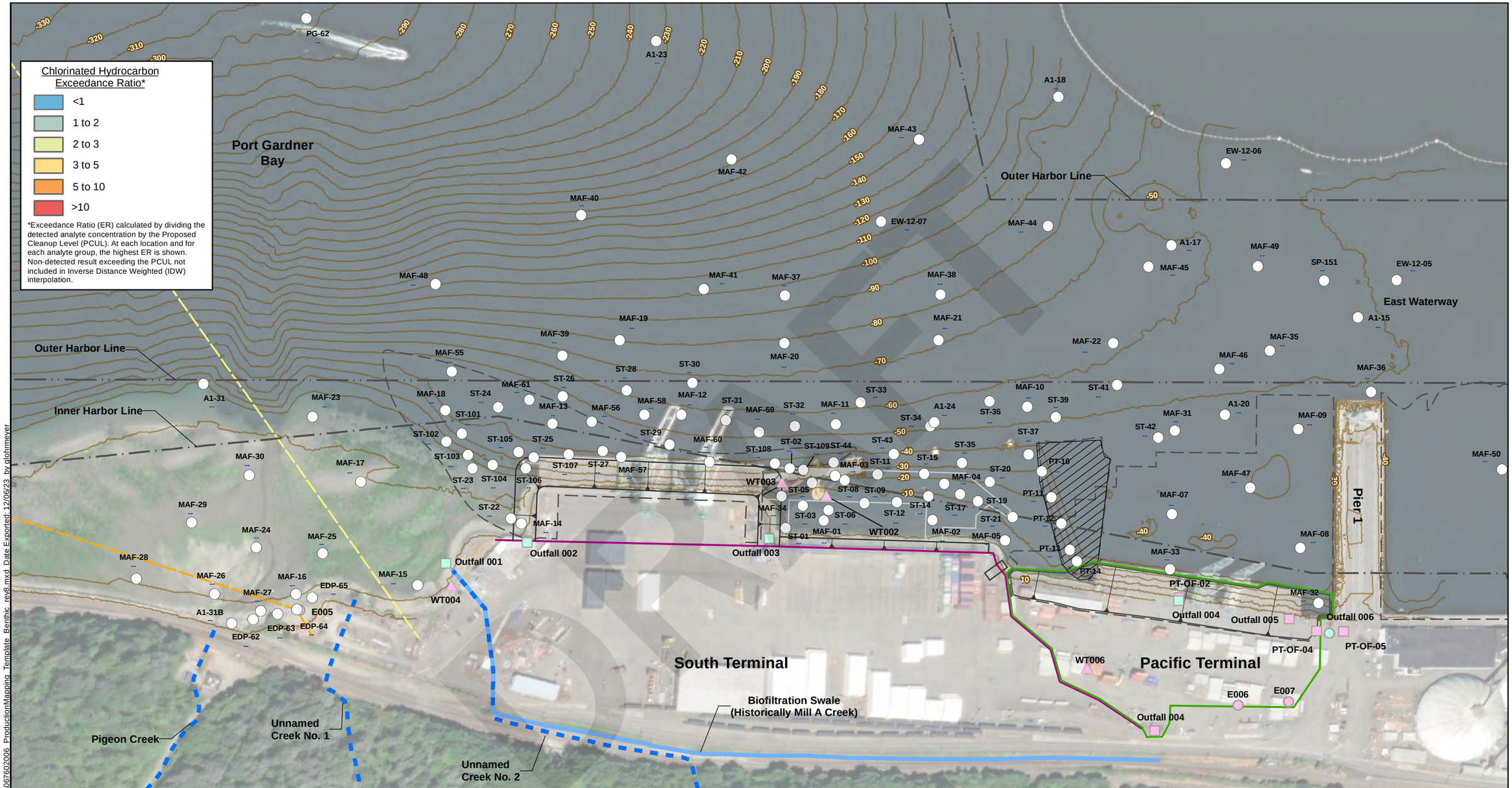
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Chlorinated Hydrocarbon Results (Benthic) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-151



N W E S

300 0 300

Feet

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

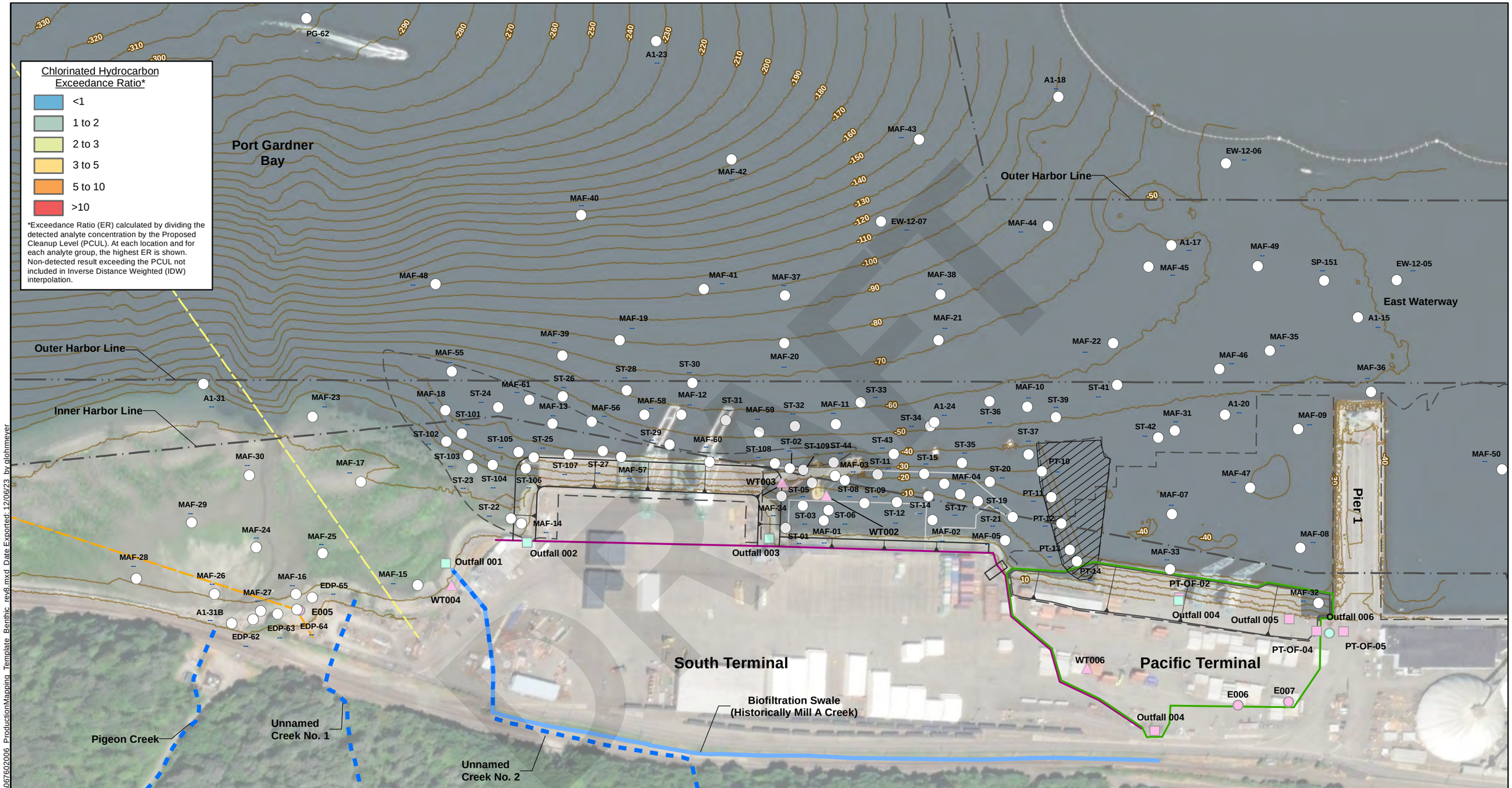
Chlorinated Hydrocarbon Results (Benthic) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-152

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Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

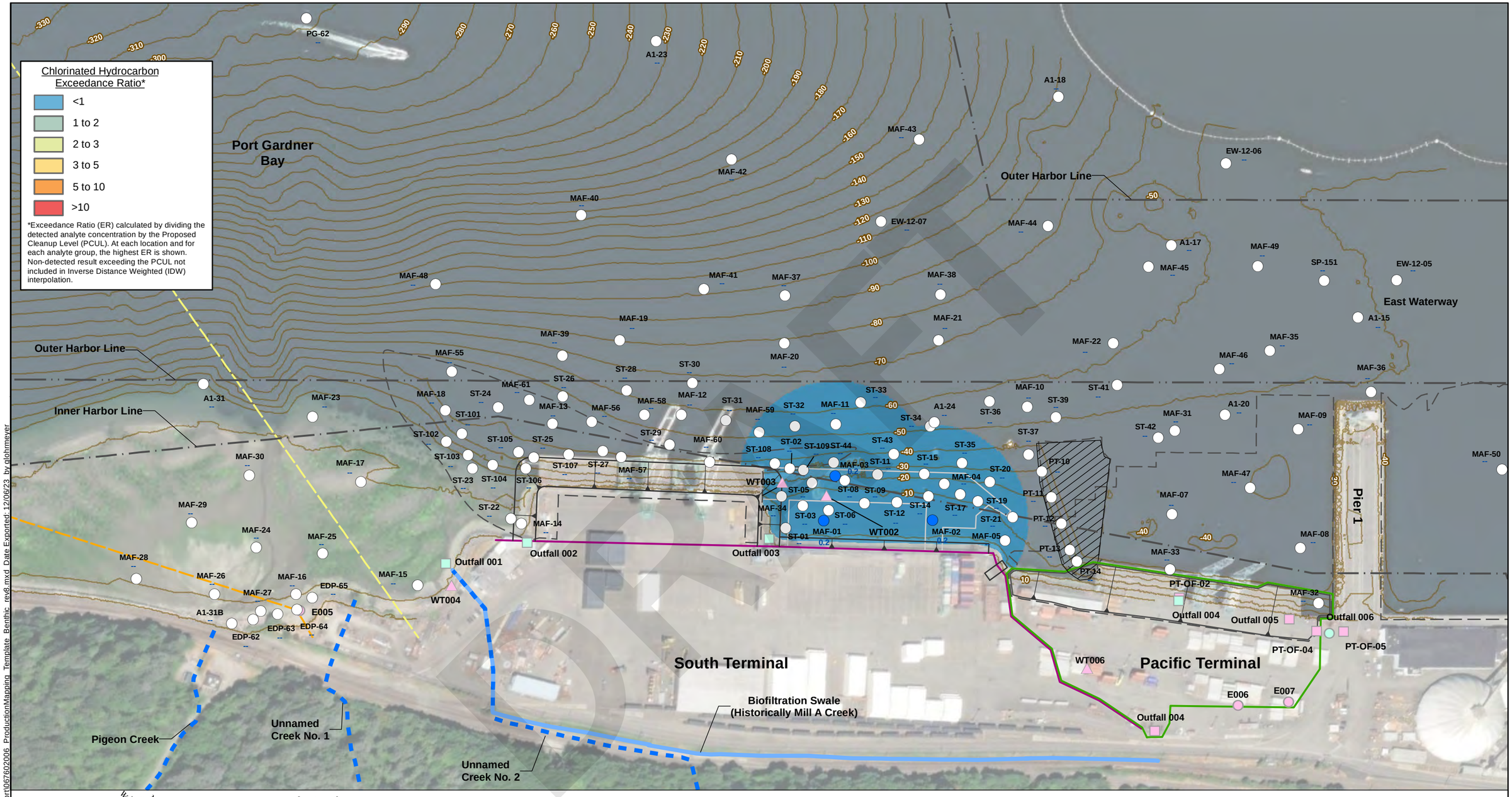
Chlorinated Hydrocarbon Results (Benthic) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-153

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

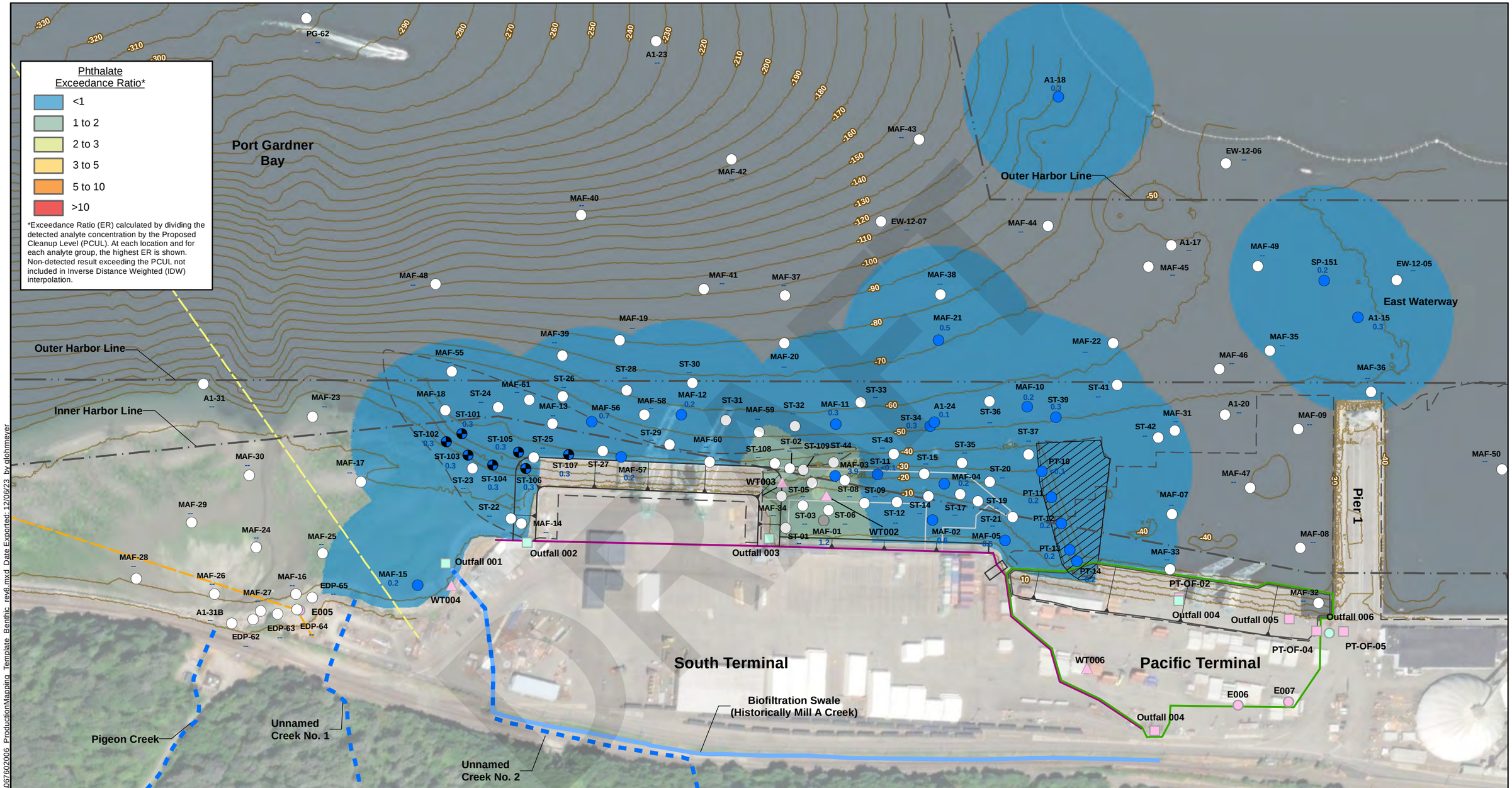
Chlorinated Hydrocarbon Results (Benthic) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-154

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Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

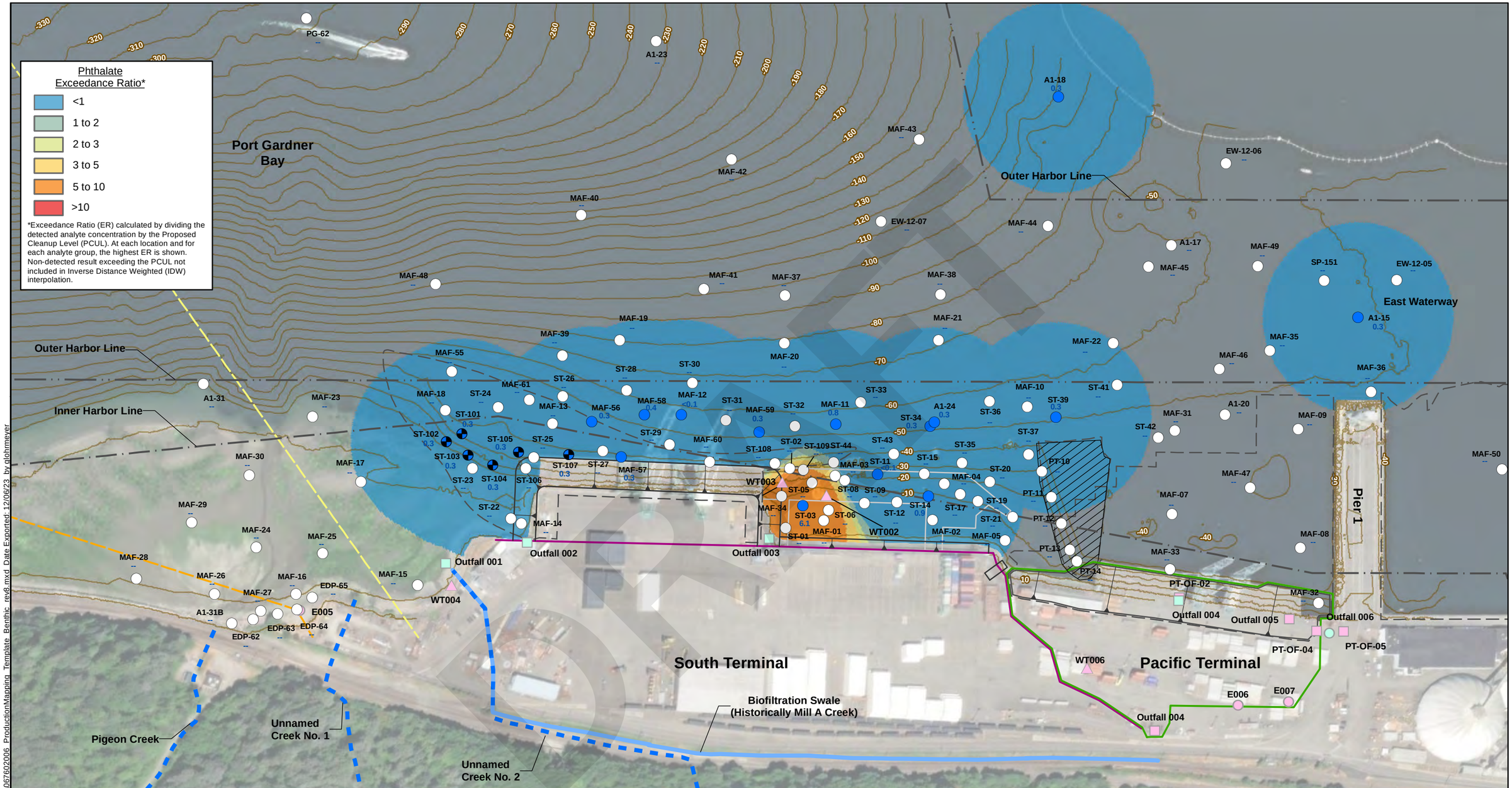
Phthalate Results (Benthic) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-155

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Phthalate Results (Benthic) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-156

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Phthalate
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

E005

E006

E007

PG-62

A1-23

A1-18 0.4

A1-17

A1-15 0.3

A1-24 0.3

A1-31

A1-20

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-43

MAF-42

MAF-40

MAF-44

MAF-49

MAF-45

MAF-48

MAF-41

MAF-37

MAF-38

MAF-19

MAF-39

MAF-21

MAF-22

MAF-35

MAF-46

MAF-36

MAF-55

MAF-61

MAF-18

MAF-13

MAF-56

MAF-58

MAF-12

MAF-59

MAF-11

MAF-10

MAF-31

MAF-09

MAF-23

MAF-30

MAF-17

MAF-57

MAF-60 0.3

MAF-03 5.9

MAF-04 0.2

MAF-47

MAF-50

MAF-29

MAF-24

MAF-25

MAF-34

MAF-14

MAF-01 1.9

MAF-02 2.6

MAF-05 6.0

MAF-07

MAF-08

MAF-28

MAF-26

MAF-16

MAF-27

MAF-15

MAF-33

MAF-32

EDP-65

EDP-63

EDP-64

EDP-62

ST-22 ST-24 ST-26 ST-28 ST-30 ST-31 ST-32 ST-33 ST-34 ST-36 ST-39 ST-41 ST-42 ST-37 ST-35 ST-20 ST-19 ST-17 ST-21

ST-101 0.3

ST-102 0.3

ST-103 0.3

ST-104 0.3

ST-105 0.3

ST-106 0.2

ST-107 0.3

ST-25 ST-27 ST-29 ST-108 ST-02 <0.1 ST-109 ST-44 ST-43 4.6 ST-11 0.1 ST-15 ST-08 ST-09 ST-05 ST-03 6.1 ST-06 ST-12 0.9 ST-14 0.9 ST-01 1.9

PT-10 PT-11 PT-12 PT-13 PT-14 PT-OF-02 PT-OF-04 PT-OF-05

EW-12-06 EW-12-07 EW-12-05 SP-151

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300
Feet

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Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

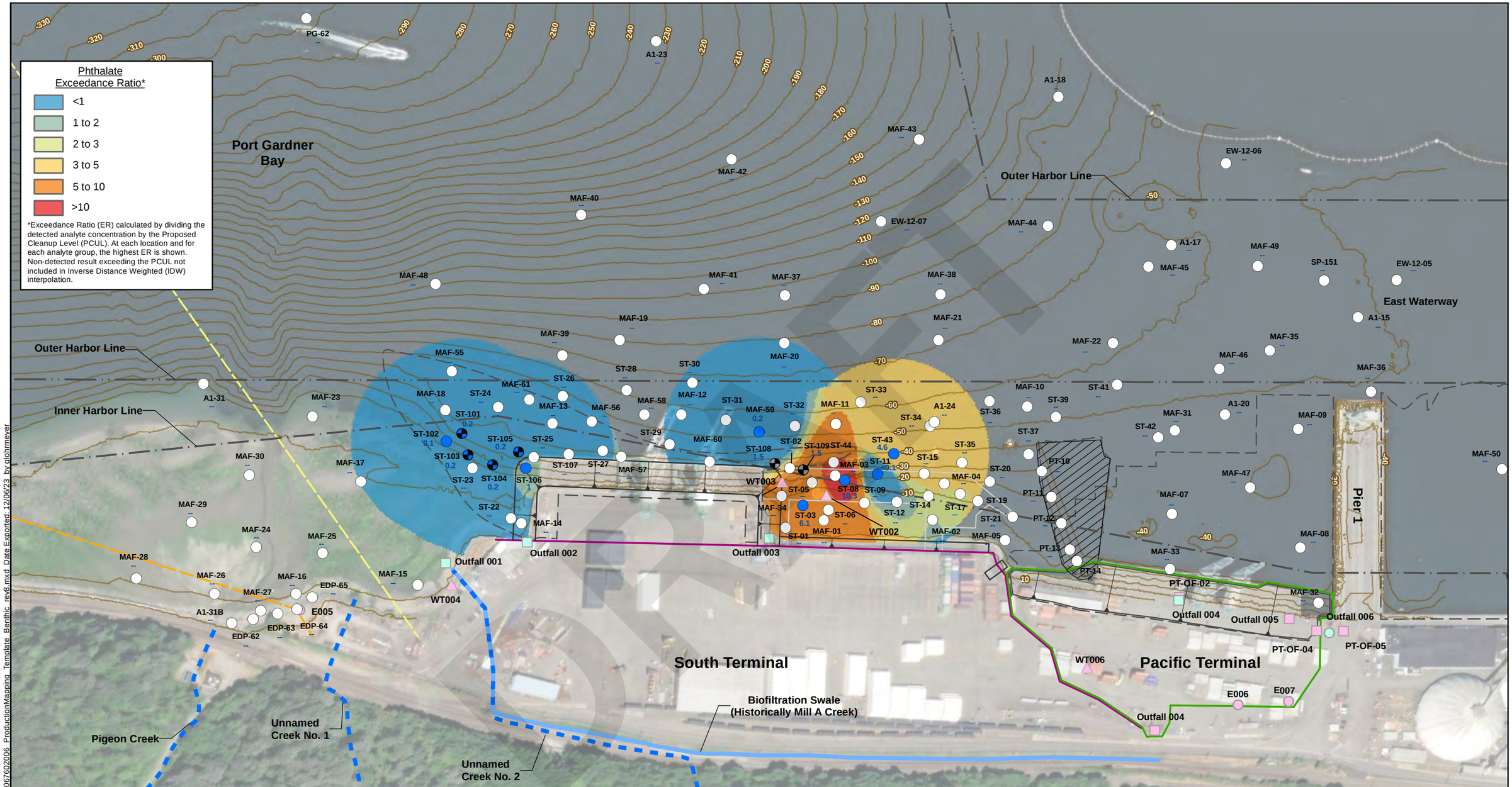
Phthalate Results (Benthic) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-157

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

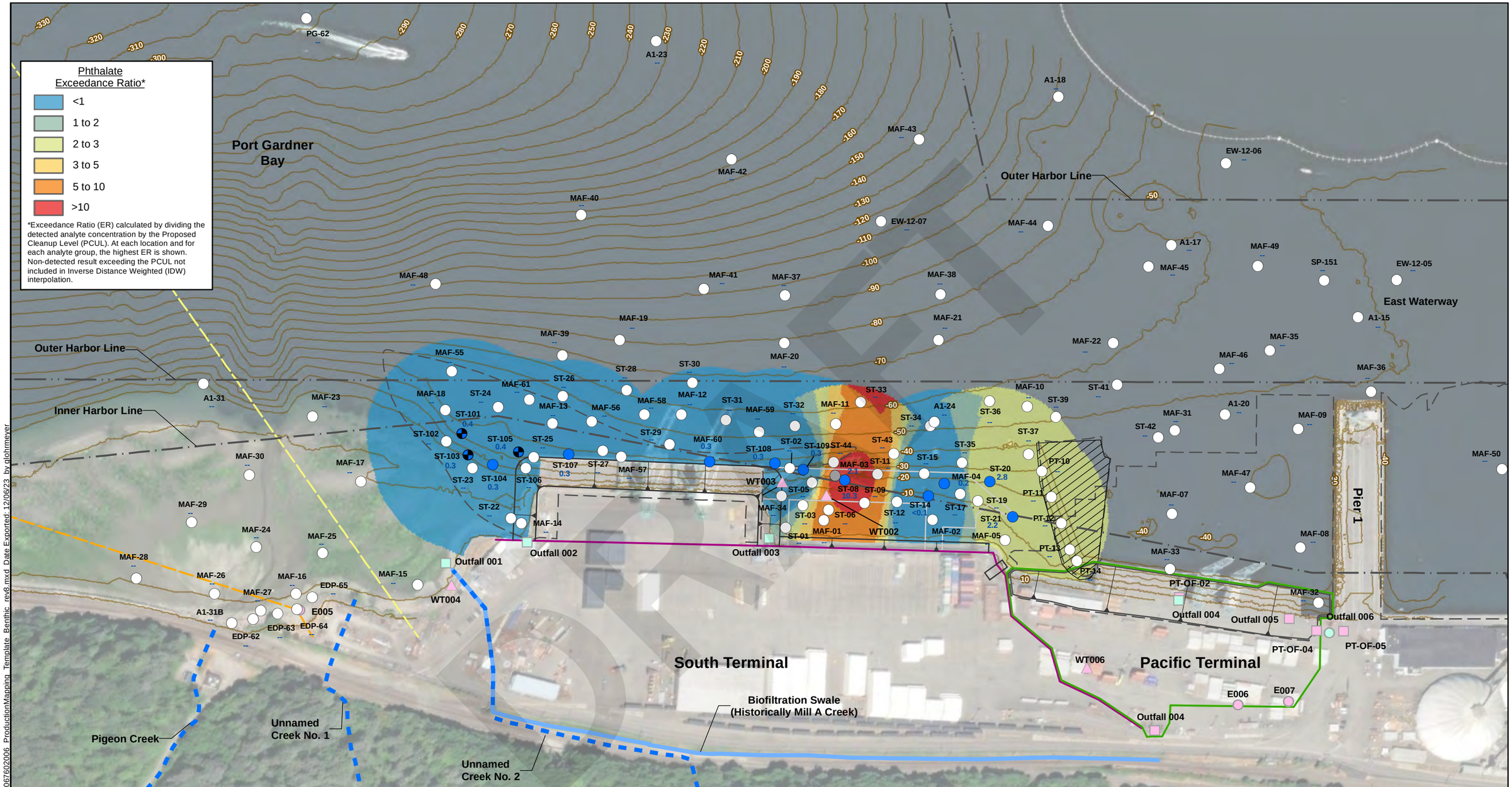
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Phthalate Results (Benthic) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-158



Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

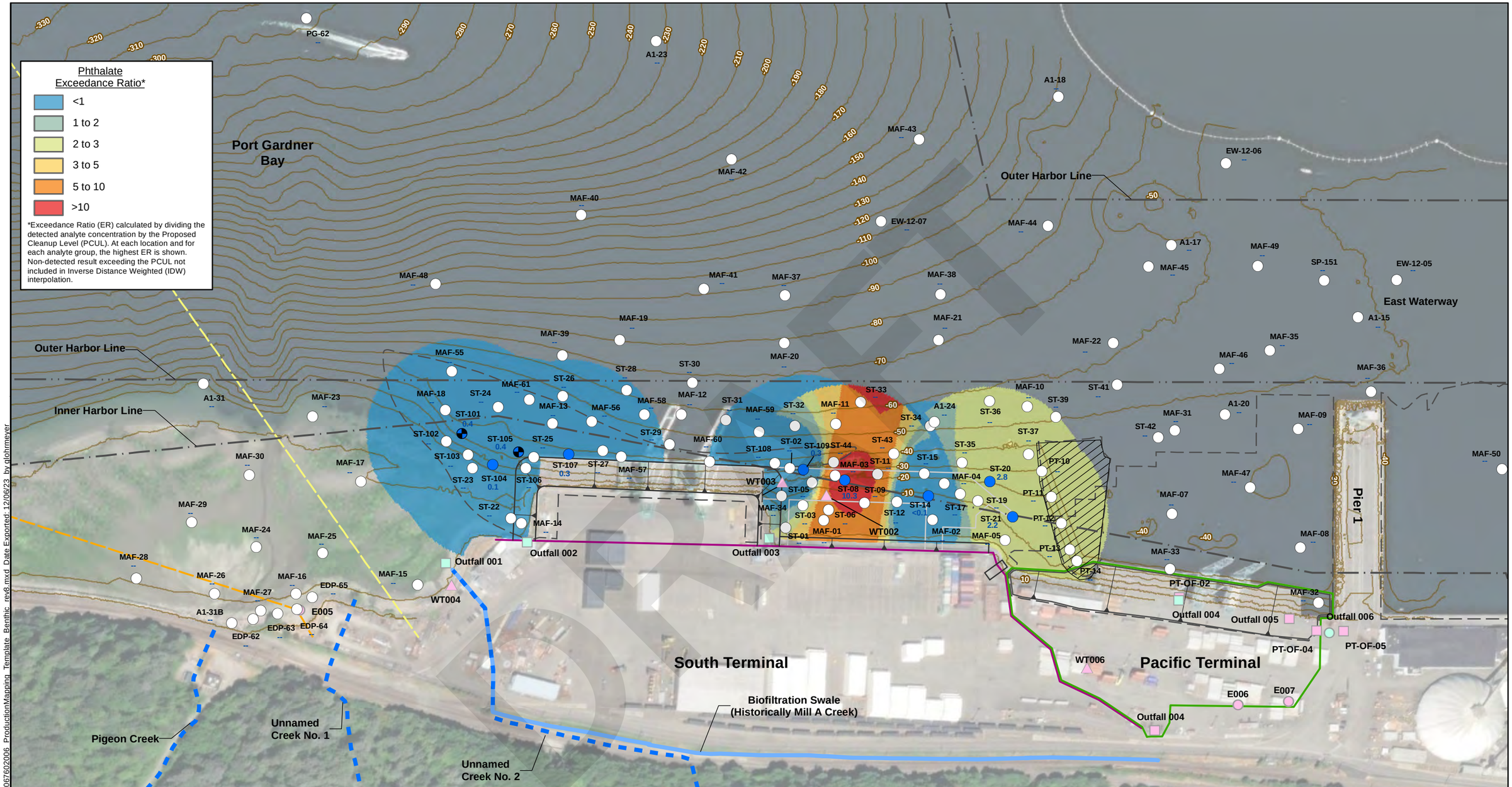
Phthalate Results (Benthic) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-159

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Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

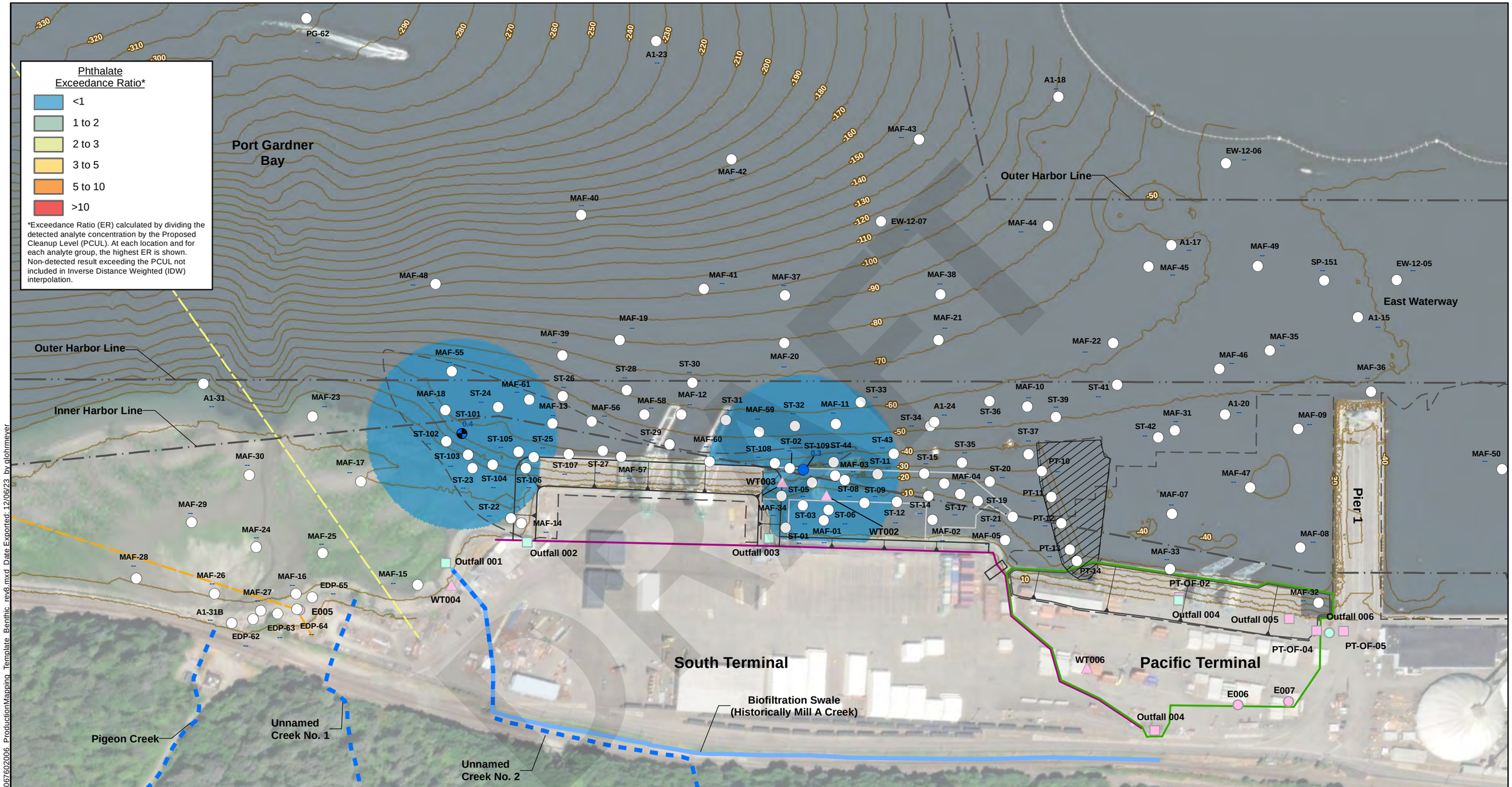
Phthalate Results (Benthic) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-160

P:\0\0676020\GIS\MXD\MarineArea_RI_Report\0676020006_ProductionMapping_Template_Benthic_rev8.mxd Date Exported: 12/06/23 by glohrmeyer



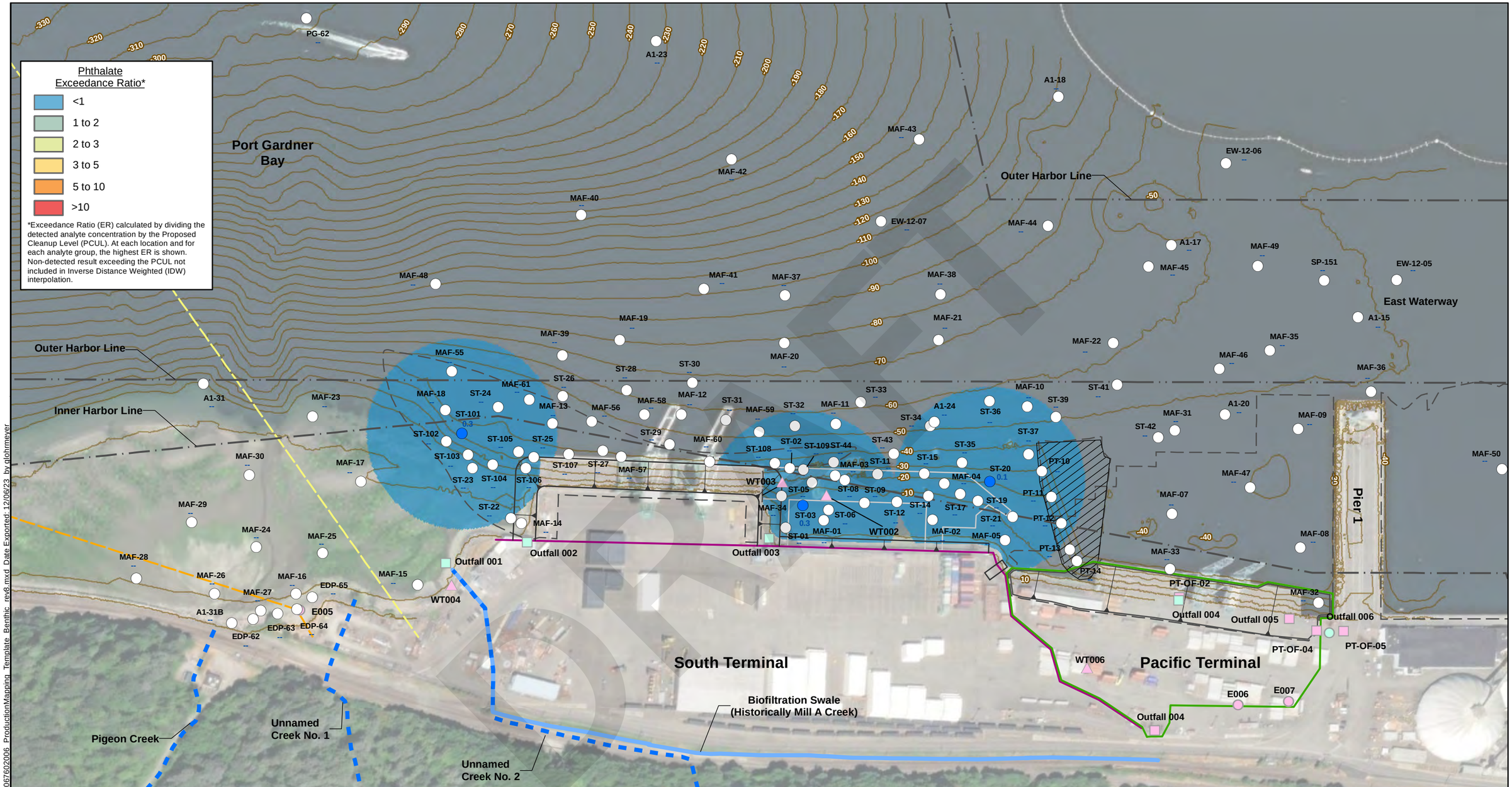
P:\0\0676020\GIS\MXD\MarineArea_RI_Report\0676020006_ProductionMapping_Template_Benthic_rev9.mxd Date Exported: 12/06/23 by glohrmeyer

Phthalate Results (Benthic) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-161



Notes:

1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

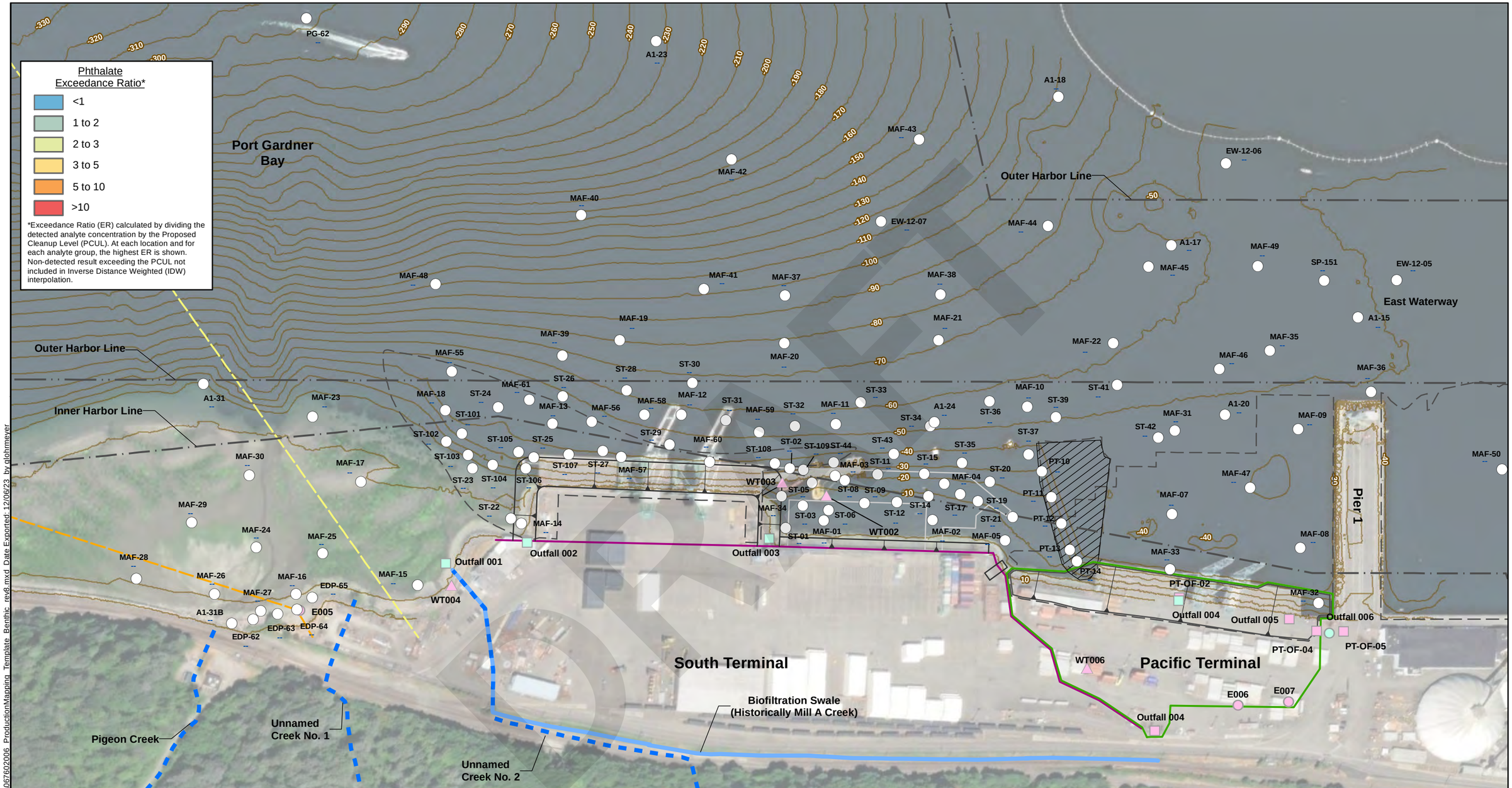
Phthalate Results (Benthic) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-162

P:\0\0676020\GIS\MXD\MarineArea_RI_Report\0676020G6_ProductionMapping_Template_Benthic_rev8.mxd Date Exported: 12/06/23 by glohrmeyer



Notes:

1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

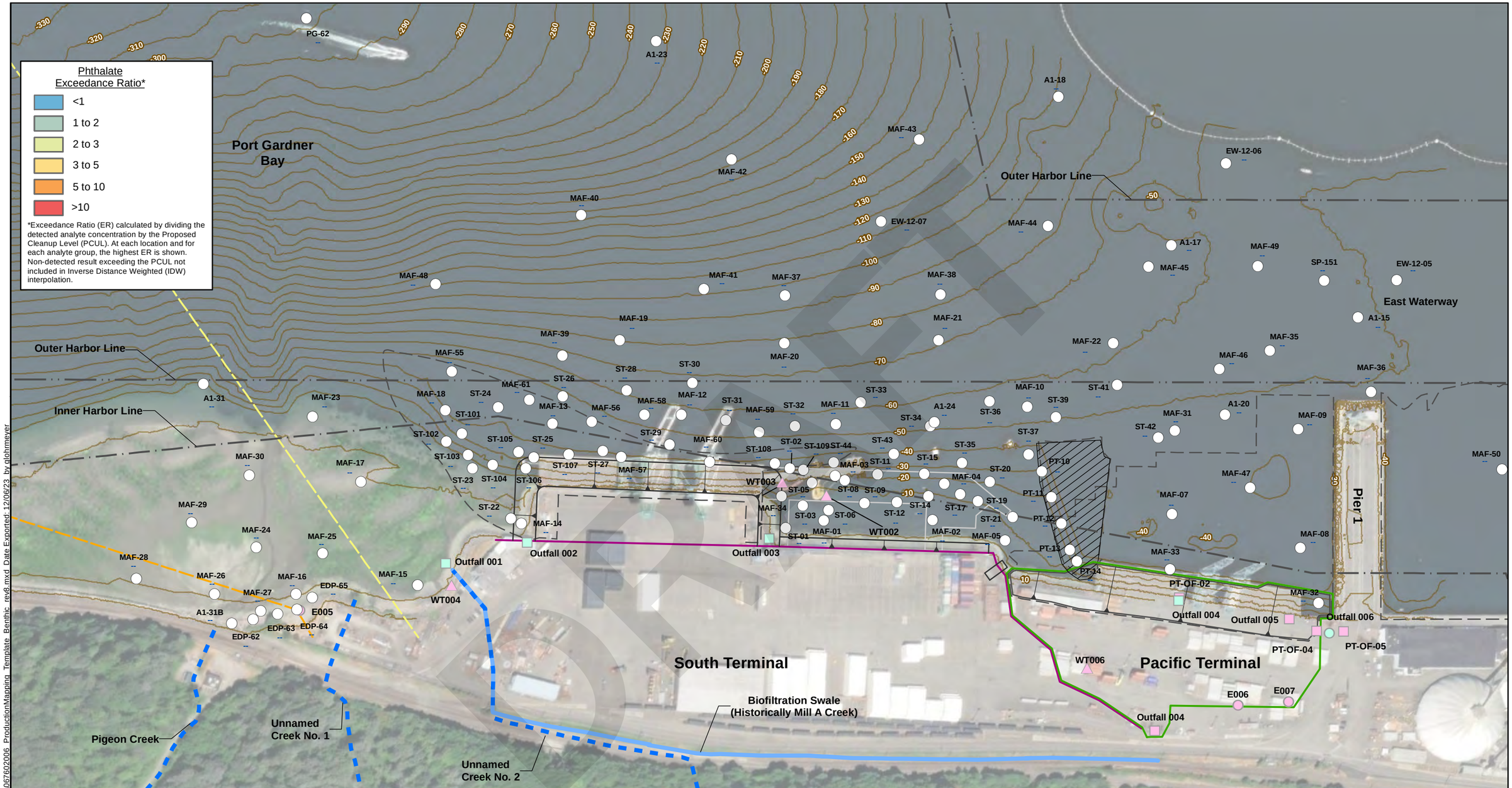
Phthalate Results (Benthic) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-163

P:\0\0067602G\GIS\MXD\MarineArea_RI_Report\0067602G06_ProductionMapping_Template_Benthic_rev9.mxd Date Exported: 12/06/23 by glohrmeyer



Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

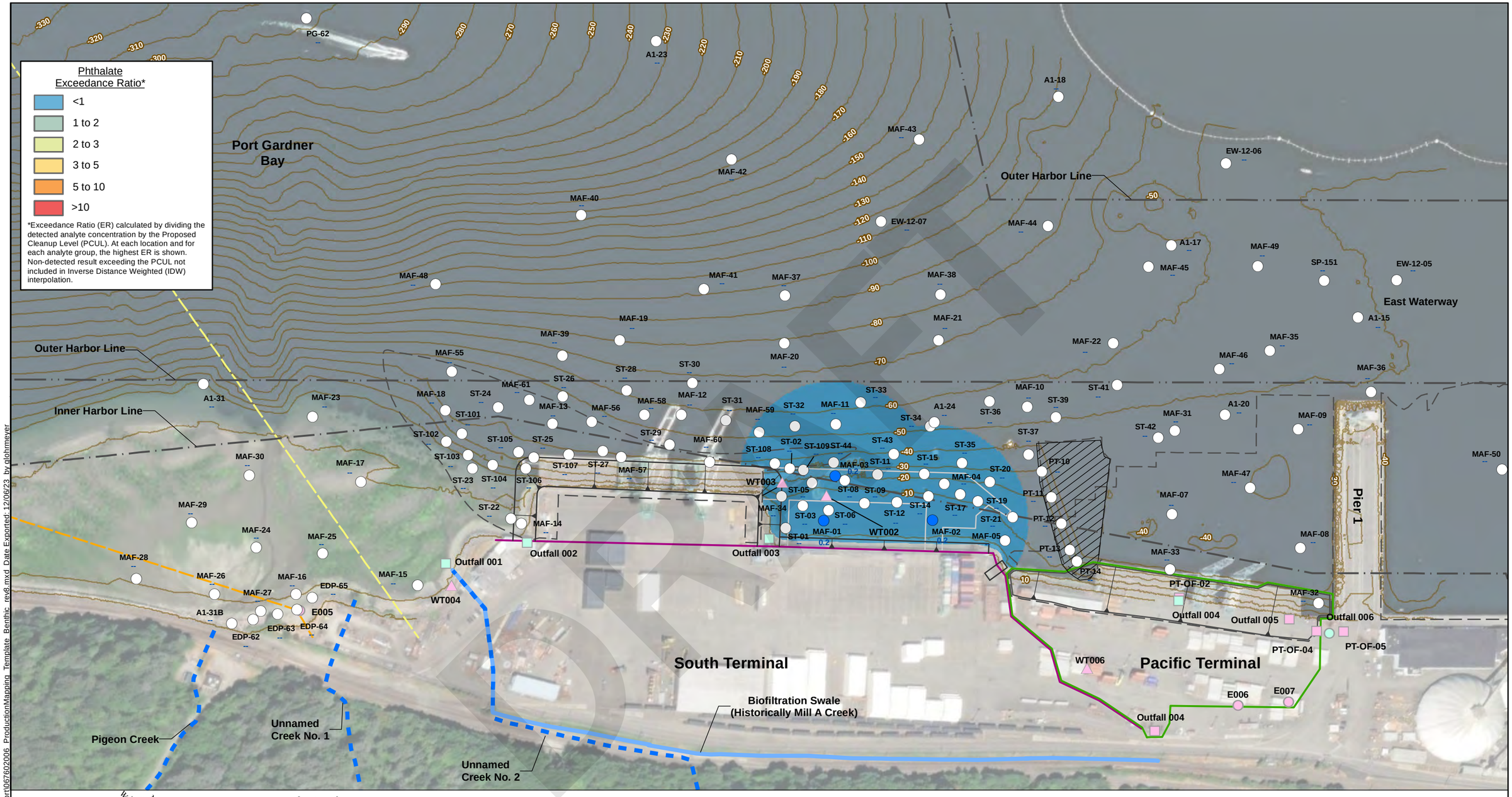
Phthalate Results (Benthic) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-164

P:\0\0067602G\GIS\MXD\MarineArea_RI_Report\0067602006_ProductionMapping_Template_Benthic_rev9.mxd Date Exported: 12/06/23 by glohrmeyer



Phthalate Results (Benthic) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-165

P:\0106760\20\GIS\MXD\MarineArea_RI_Report\0676020G6_ProductionMapping_Template_Benthic_rev9.mxd Date Exported: 12/06/23 by glohrmeyer

Phenol
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

South Terminal

Pacific Terminal

Pier 1

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

Biofiltration Swale
(Historically Mill A Creek)

Unnamed
Creek No. 1

Unnamed
Creek No. 2

Pigeon Creek

PG-62 A1-23 A1-18 0.9 MAF-43 EW-12-06 MAF-42 MAF-40 EW-12-07 MAF-44 A1-17 MAF-49 MAF-45 SP-151 1.1 EW-12-05 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-21 4.6 A1-15 0.9 MAF-39 MAF-20 0.9 MAF-22 MAF-35 MAF-55 ST-28 ST-30 MAF-46 MAF-36 ST-26 MAF-61 MAF-10 4.4 ST-41 A1-31 MAF-23 MAF-18 ST-24 MAF-12 1 ST-33 ST-39 1 MAF-13 MAF-56 0.8 MAF-58 ST-31 MAF-59 ST-32 MAF-11 1.9 A1-24 1.2 ST-36 MAF-31 A1-20 ST-101 1 ST-34 0.9 ST-42 MAF-09 ST-102 1 ST-29 MAF-60 ST-37 ST-105 1 ST-25 ST-108 ST-02 ST-109 ST-44 ST-43 ST-35 MAF-30 MAF-17 ST-103 1 ST-107 1 ST-27 MAF-57 0.8 ST-11 ST-15 PT-10 0.9 MAF-50 ST-23 ST-104 1 ST-106 1 MAF-03 76.1 MAF-04 47.3 ST-20 MAF-47 WT003 ST-05 ST-08 ST-09 ST-14 ST-17 ST-19 PT-11 0.9 MAF-07 MAF-29 ST-22 MAF-34 ST-03 ST-06 ST-12 ST-21 PT-12 0.9 MAF-24 MAF-14 MAF-01 4.7 WT002 MAF-02 4.6 MAF-05 4.9 MAF-08 MAF-25 PT-13 0.9 MAF-33 MAF-28 MAF-15 0.9 PT-14 0.9 MAF-26 MAF-16 EDP-65 PT-OF-02 MAF-32 MAF-27 WT004 E005 A1-31B EDP-63 EDP-64 EDP-62 MAF-02 4.6 WT006 E006 E007 PT-OF-04 PT-OF-05

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Phenol Results (Benthic) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-166

P:\0067602G\GIS\MXD\MarineArea_RI_Report\0067602006_ProductionMapping_Template_Benthic_rev9.mxd Date Exported: 12/06/23 by glohrmeyer

Phenol
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

E005

E006

E007

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

N

300 0 300

Feet

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Phenol Results (Benthic) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-167

P:\0\067602G\GIS\MXD\MarineArea_RI_Report\067602006_ProductionMapping_Template_Benthic_rev8.mxd Date Exported: 12/06/23 by glohrmeyer

Phenol
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Unnamed
Creek No. 1

Unnamed
Creek No. 2

Pigeon Creek

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

PG-62, A1-23, A1-18 0.9, EW-12-06, MAF-43, MAF-42, MAF-40, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, A1-15 0.9, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-22, MAF-35, MAF-46, MAF-36, MAF-55, MAF-20, ST-30, ST-28, ST-26, MAF-61, MAF-18, ST-24, MAF-13, MAF-56, MAF-58, MAF-12, ST-31, ST-33, MAF-10, ST-41, ST-39, A1-31, MAF-23, ST-101 1.1, MAF-59, ST-32, MAF-11, A1-24 1.3, ST-34, ST-36, A1-20, MAF-31, MAF-09, ST-42, ST-102 1.1, ST-105 1.1, ST-25, ST-29, MAF-60 0.3, ST-108, ST-02 5.8, ST-109, ST-44, ST-43 14.1, ST-35, ST-37, MAF-50, MAF-30, MAF-17, ST-103 1.1, ST-104 1.1, ST-107 1.1, ST-27, MAF-57, ST-106 0.3, WT003, MAF-03 24.3, ST-11 2.1, ST-15, ST-20, PT-10, MAF-04 28.3, MAF-47, ST-05, ST-08, ST-09, PT-11, MAF-07, MAF-29, ST-22, MAF-34, ST-03 3.8, ST-06, ST-12 8.6, ST-14, ST-17, ST-19, MAF-14, MAF-24, MAF-25, ST-01 13.1, MAF-01, WT002, MAF-02 14.4, MAF-05 2.8, ST-21, PT-12, PT-13, MAF-08, MAF-33, MAF-28, MAF-26, MAF-16, MAF-15, EDP-65, MAF-27, E005, A1-31B, EDP-63, EDP-64, EDP-62, WT004, PT-14, PT-OF-02, MAF-32, PT-OF-04, PT-OF-05, WT006, E006, E007, Outfall 004

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 10

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 / 1.22 Sample Location Identification / Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Phenol Results (Benthic) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-168

P:\0106760\GIS\MXD\MarineArea_RI_Report\0676002006_ProductionMapping_Template_Benthic_rev8.mxd Date Exported: 12/06/23 by dlohrmeyer

Phenol
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18

A1-17

A1-15

A1-20

A1-24

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 (1.22)

MAF-02

MAF-03

MAF-04

MAF-05

MAF-06

MAF-07

MAF-08

MAF-09

MAF-10 (0.9)

MAF-11 (2.7)

MAF-12

MAF-13

MAF-14

MAF-15

MAF-16

MAF-17

MAF-18

MAF-19

MAF-20

MAF-21

MAF-22

MAF-23

MAF-24

MAF-25

MAF-26

MAF-27

MAF-28

MAF-29

MAF-30

MAF-31

MAF-32

MAF-33

MAF-34

MAF-35

MAF-36

MAF-37

MAF-38

MAF-39

MAF-40

MAF-41

MAF-42

MAF-43

MAF-44

MAF-45

MAF-46

MAF-47

MAF-48

MAF-49

MAF-50

MAF-55

MAF-56

MAF-57

MAF-58

MAF-59 (0.4)

MAF-60

MAF-61

ST-01 (3.8)

ST-02 (15.1)

ST-03

ST-05

ST-06

ST-07

ST-08 (5.5)

ST-09

ST-11 (21.5)

ST-12

ST-14

ST-15

ST-17

ST-19

ST-20

ST-21

ST-22

ST-23

ST-24

ST-25

ST-26

ST-27

ST-28

ST-29

ST-30

ST-31

ST-32

ST-33

ST-34

ST-35

ST-36

ST-37

ST-39

ST-41

ST-42

ST-43 (14.1)

ST-44

ST-101 (1.1)

ST-102 (0.4)

ST-103 (1.1)

ST-104 (1.1)

ST-105 (1.1)

ST-106 (0.3)

ST-107

ST-108 (15.1)

ST-109 (15.1)

PT-10

PT-11

PT-12

PT-13

PT-14

PT-OF-02

PT-OF-04

PT-OF-05

E005

E006

E007

EDP-62

EDP-63

EDP-64

EDP-65

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 (1.22) Sample Location Identification Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

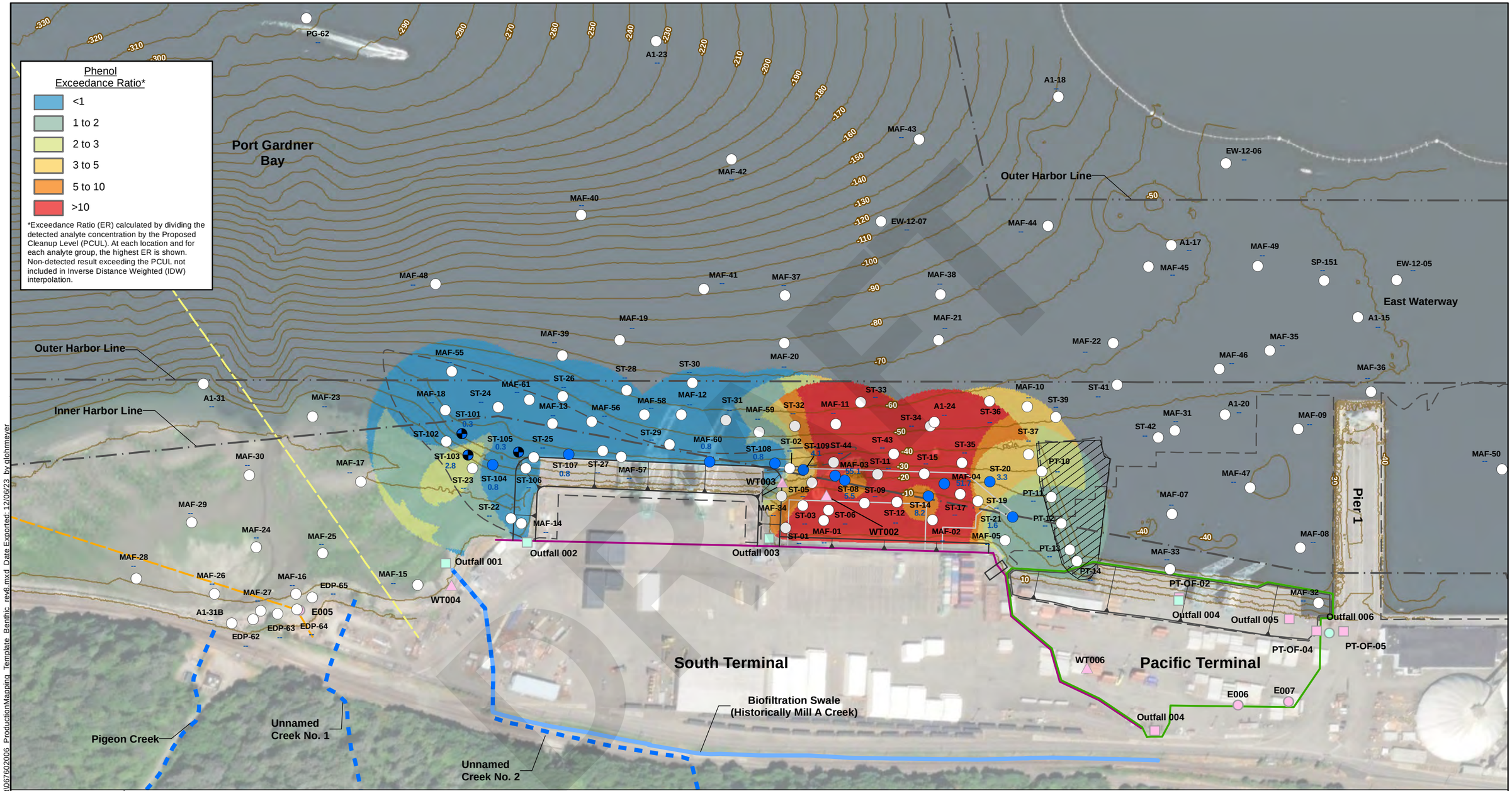
Phenol Results (Benthic) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-169

P:\0106760201GIS\MXD\MarineArea_RI_Report\0676020061_ProductionMapping_Template_Benthic_rev8.mxd Date Exported: 12/06/23 by dlohrmeyer



Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 / 1.22 Sample Location Identification / Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Phenol Results (Benthic) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-170

P:\0\0676020\GIS\MXD\MarineArea_RI_Report\0676020G6_ProductionMapping_Template_Benthic_rev8.mxd Date Exported: 12/06/23 by dohrmeyer

Phenol
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18

MAF-43

MAF-42

MAF-40

EW-12-06

EW-12-07

MAF-44

A1-17

MAF-49

MAF-45

SP-151

EW-12-05

MAF-48

MAF-41

MAF-37

MAF-38

MAF-19

MAF-39

MAF-21

A1-15

MAF-22

MAF-35

MAF-46

MAF-36

MAF-55

ST-30

ST-28

ST-26

MAF-20

A1-31

MAF-23

MAF-18

ST-24

MAF-61

MAF-13

MAF-56

MAF-58

MAF-12

ST-31

ST-32

MAF-59

MAF-11

ST-33

MAF-10

ST-39

ST-41

A1-24

ST-36

ST-34

ST-37

MAF-31

A1-20

MAF-09

ST-42

ST-101
0.3

ST-102

ST-105
0.3

ST-25

ST-29

MAF-60

ST-108

ST-02

ST-109
0.4

ST-44

ST-43

ST-35

MAF-30

ST-103

ST-107
0.8

ST-27

MAF-57

MAF-03

ST-11

ST-15

ST-20
3.3

PT-10

MAF-50

MAF-17

ST-23

ST-104
2.7

ST-106

MAF-04

MAF-47

ST-05

ST-08
5.5

ST-09

PT-11

MAF-07

ST-19

MAF-29

ST-22

MAF-34

ST-03

ST-06

ST-12
8.2

ST-14

ST-17

ST-21
1.6

PT-12

MAF-14

MAF-24

MAF-25

ST-01

MAF-01

MAF-02

MAF-05

PT-13

MAF-08

MAF-28

MAF-33

PT-14

MAF-26

MAF-16

MAF-15

MAF-27

EDP-65

PT-OF-02

MAF-32

A1-31B

E005

EDP-63

EDP-64

EDP-62

PT-OF-04

PT-OF-05

E006

E007

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 10 20 30 40 50

N W E S

300 0 300

Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01
1.22
Sample Location Identification
Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

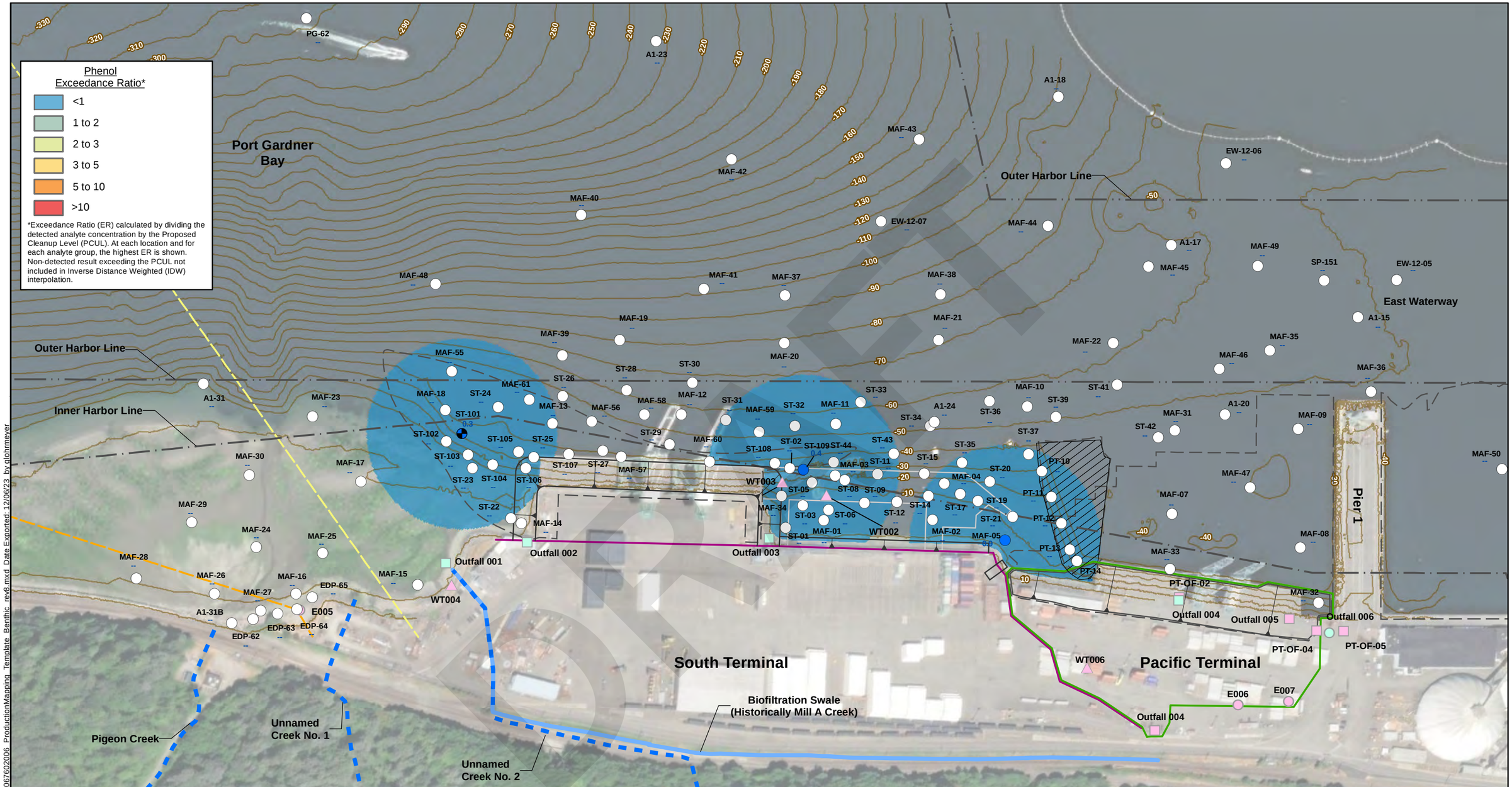
Phenol Results (Benthic) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-171

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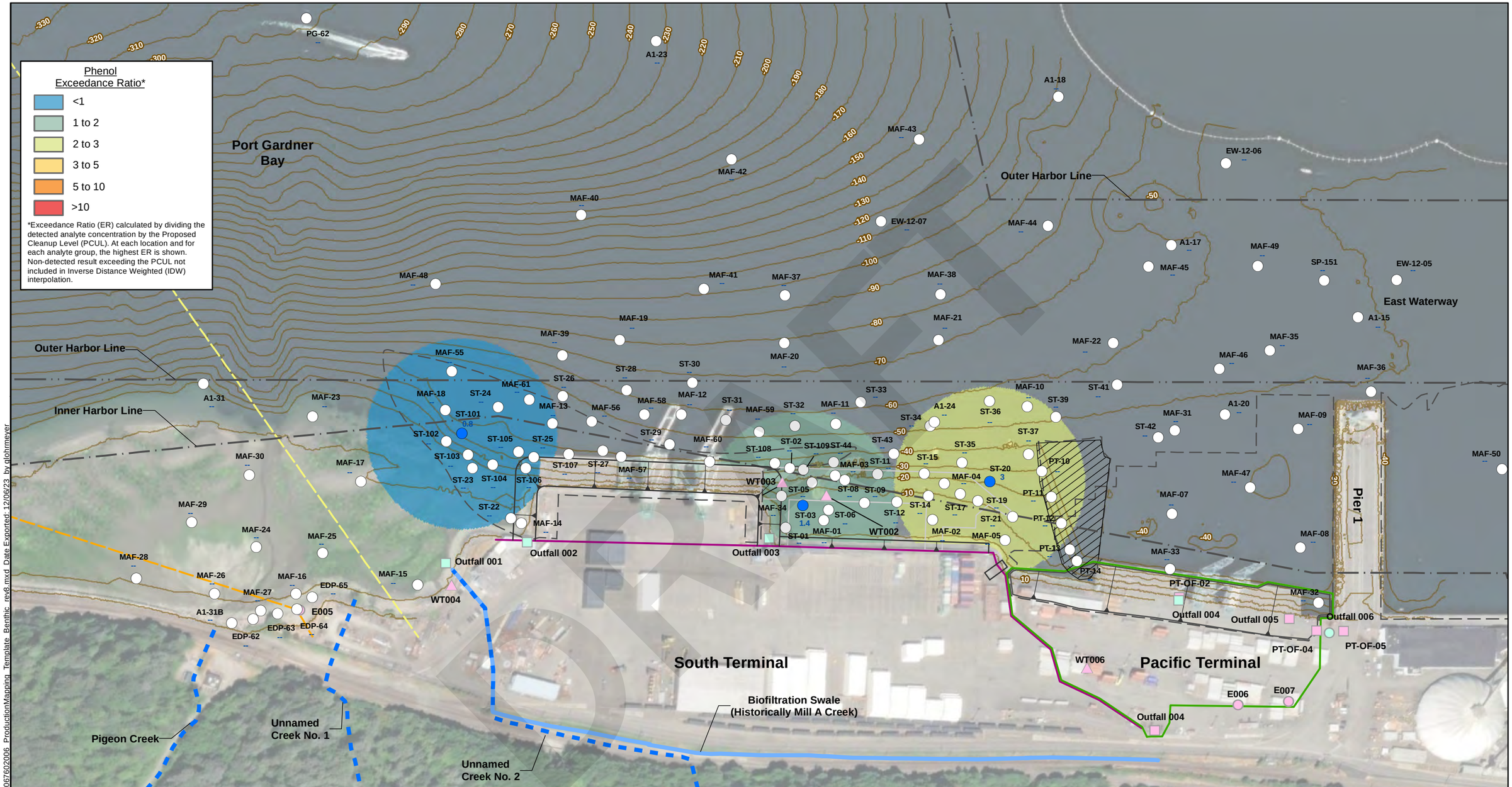
Phenol Results (Benthic) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-172

P:\0\0676020\GIS\MXD\MarineArea_RI_Report\0676020G6_ProductionMapping_Template_Benthic_rev8.mxd Date Exported: 12/06/23 by glohrmeyer



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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

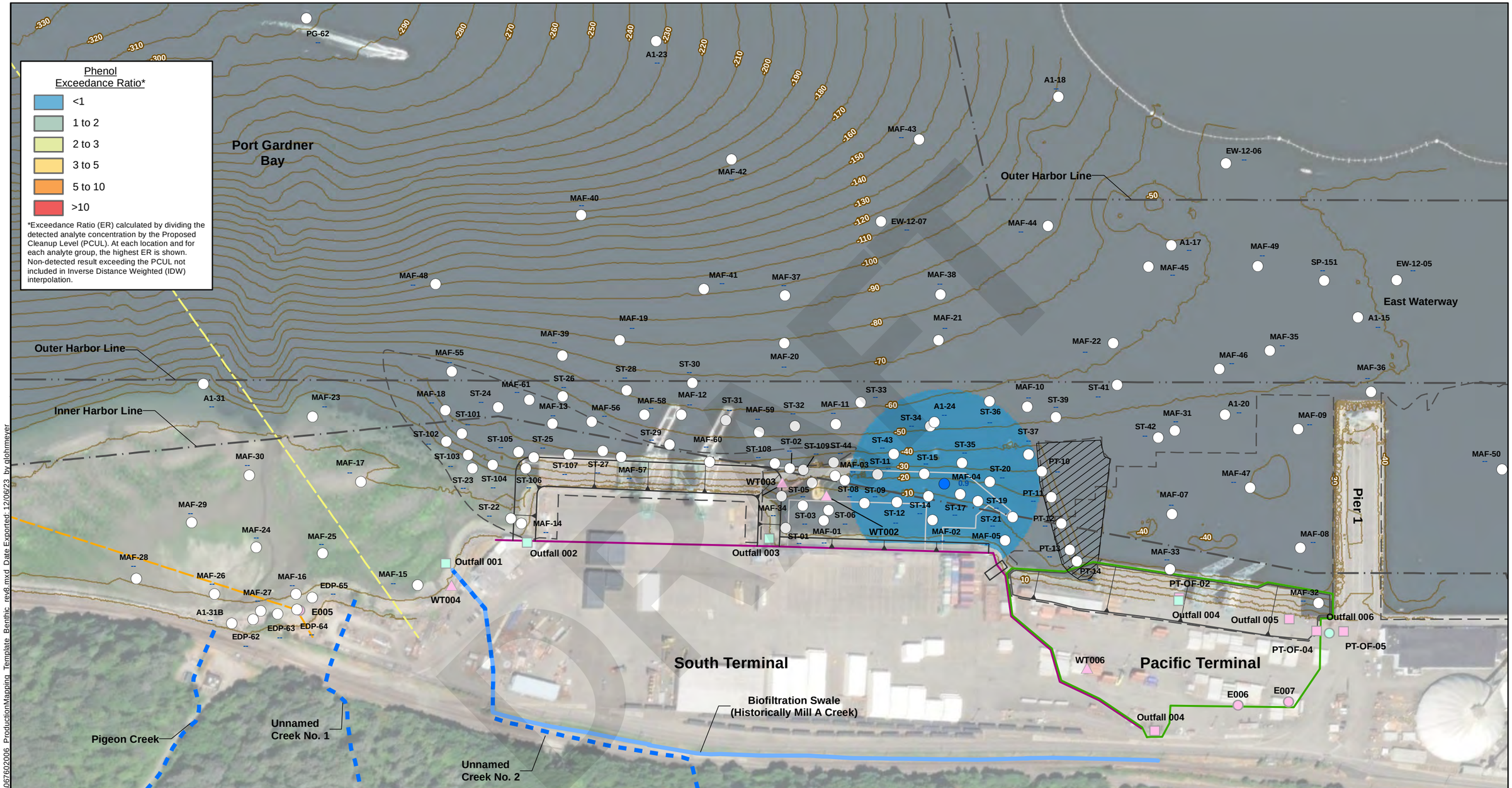
Phenol Results (Benthic) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-173

P:\0\0676020\GIS\MXD\MarineArea_RI_Report\0676020006_ProductionMapping_Template_Benthic_rev9.mxd Date Exported: 12/06/23 by glohrmeyer



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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

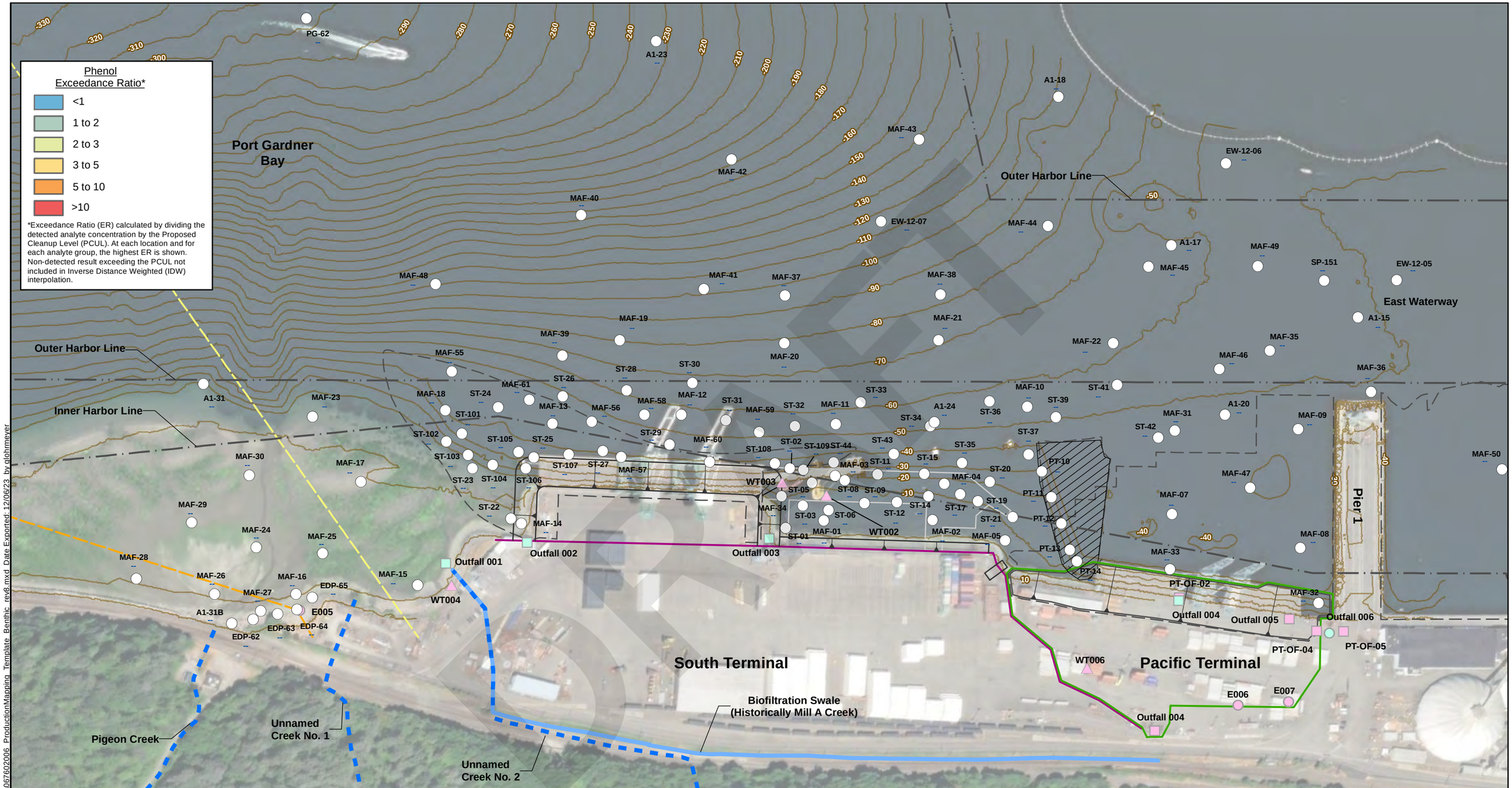
Phenol Results (Benthic) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-174

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Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

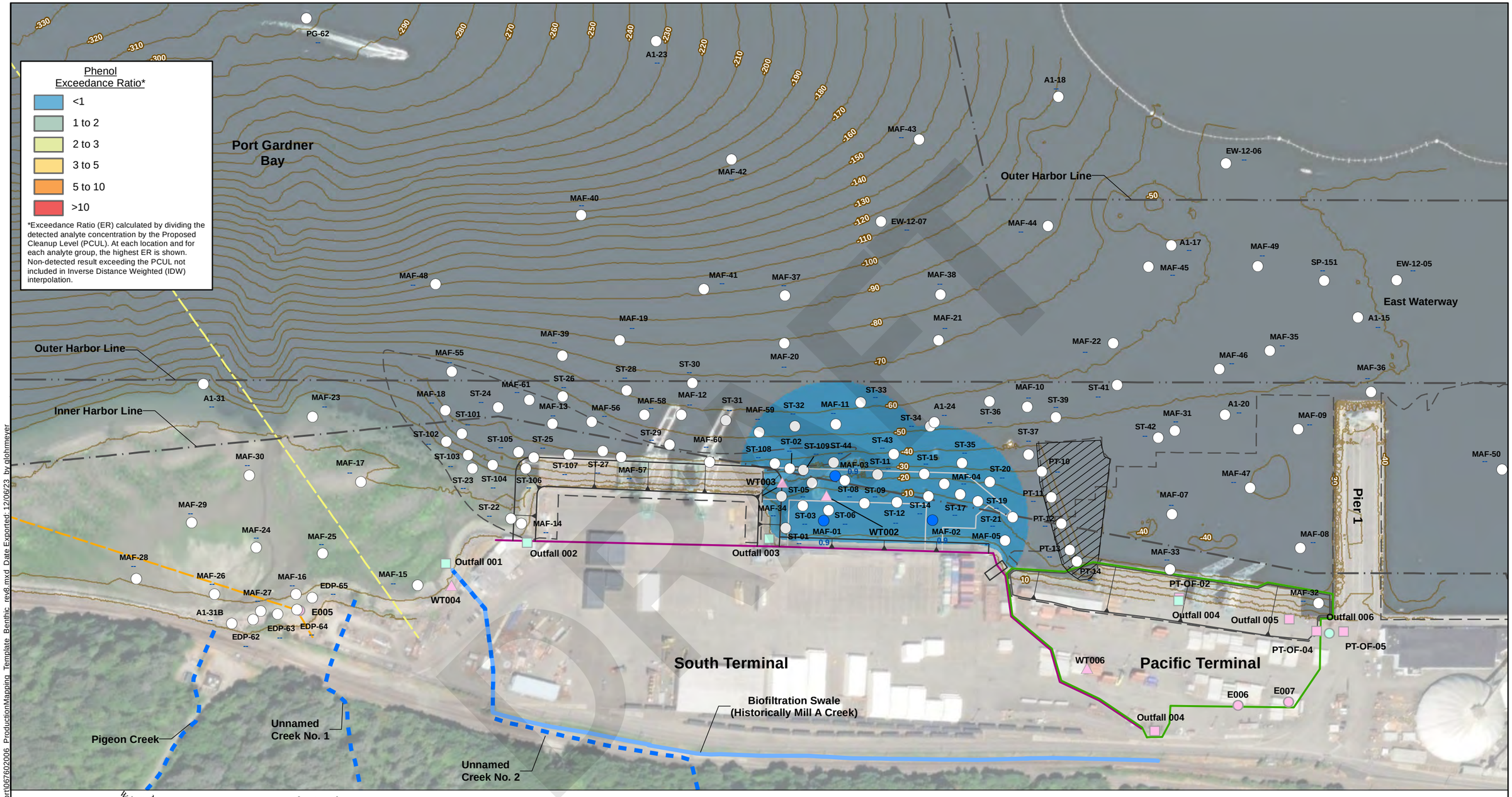
Phenol Results (Benthic) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-175

P:\0067602G\GIS\MXD\MarineArea_RI_Report\0067602G_ProductionMapping_Template_Benthic_rev9.mxd Date Exported: 12/06/23 by glohrmeyer



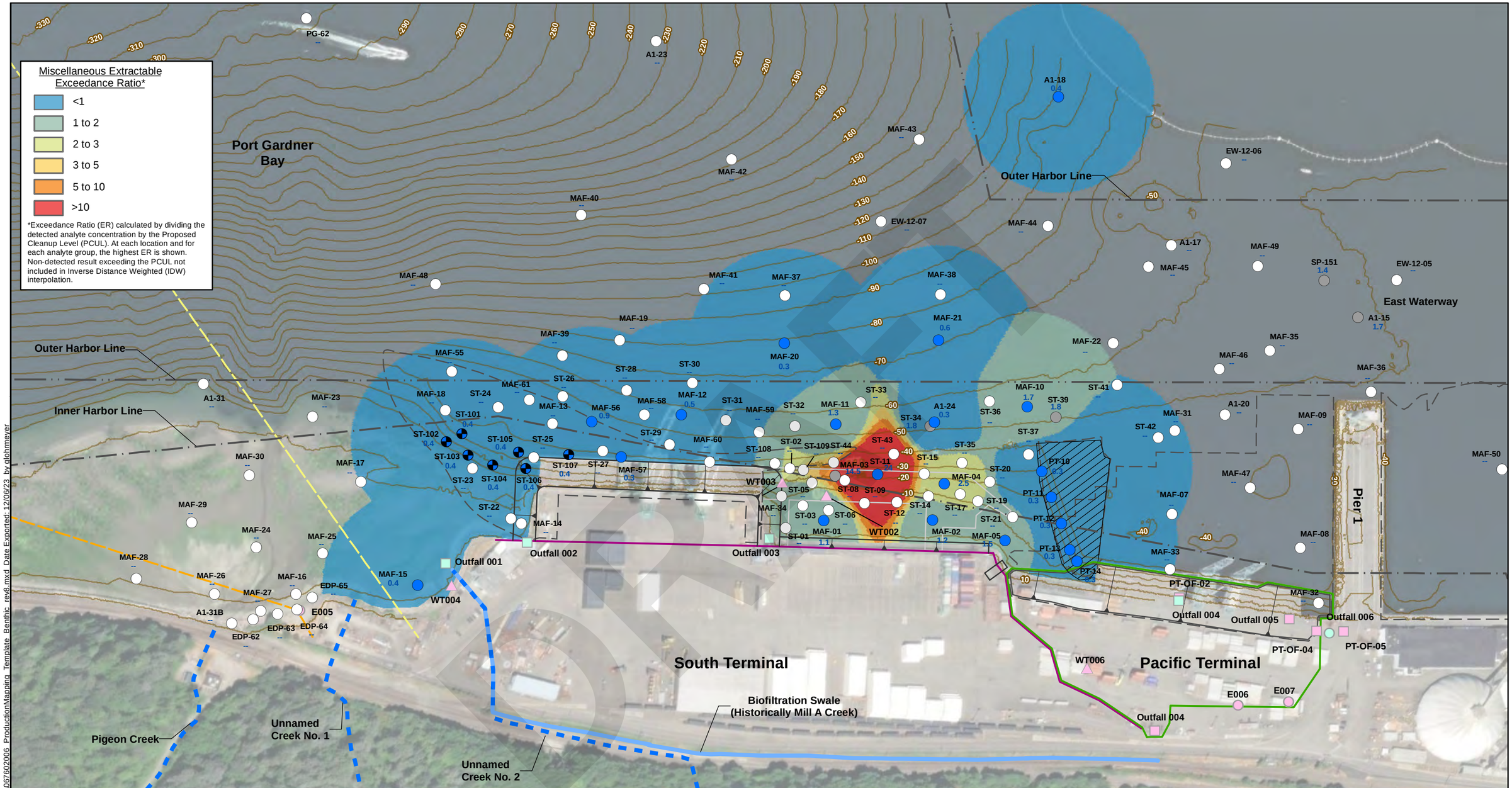
Phenol Results (Benthic) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-176

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N W E S

300 0 300

Feet

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

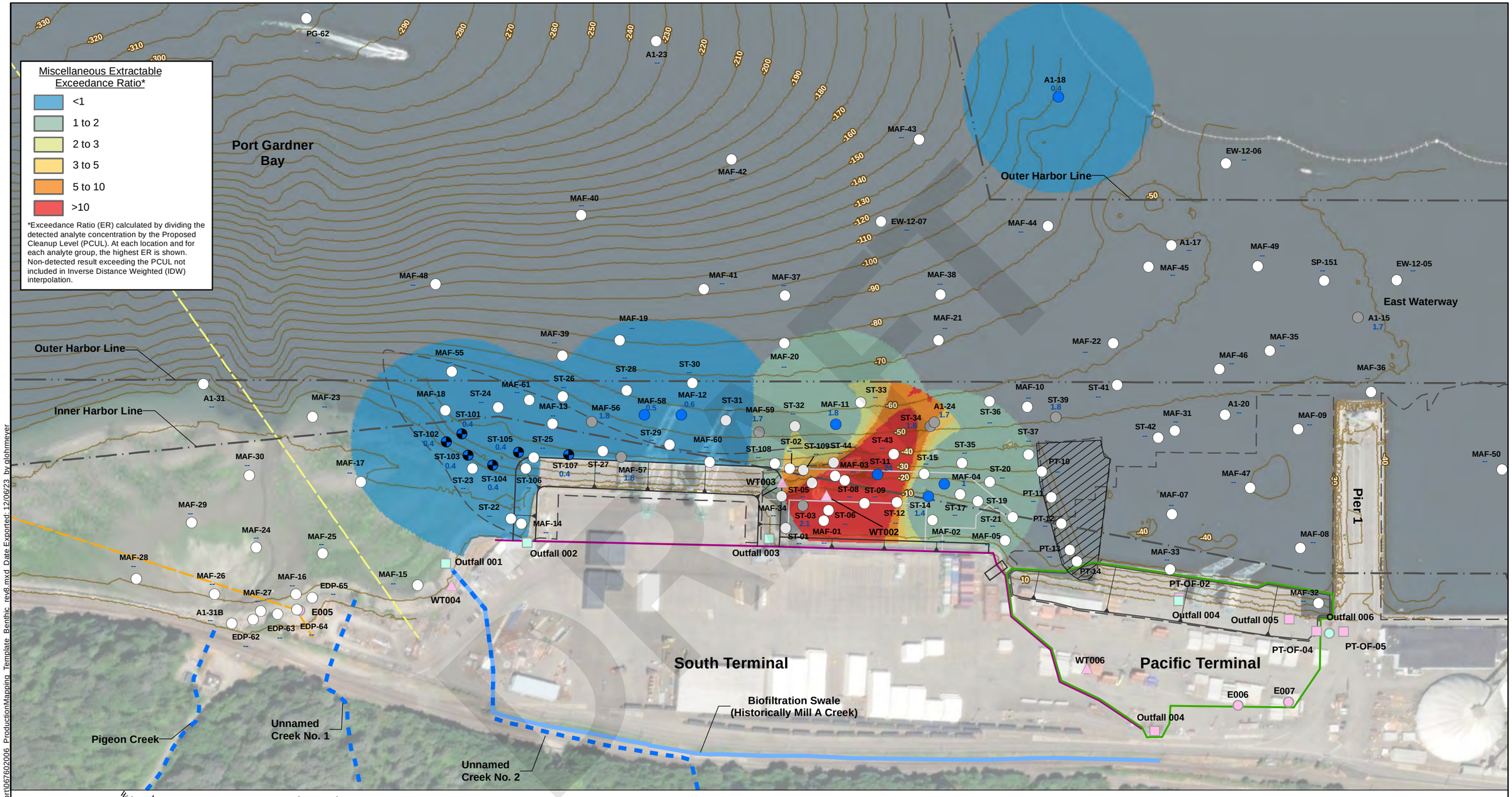
Miscellaneous Extractable Results (Benthic) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-177

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Miscellaneous Extractable Results (Benthic) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-178

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Miscellaneous Extractable Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale (Historically Mill A Creek)

Unnamed Creek No. 1

Unnamed Creek No. 2

Pigeon Creek

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

PT-OF-02

PT-OF-04

PT-OF-05

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18 0.5

A1-31

A1-31B

A1-15 1.8

A1-17

A1-20

A1-24 1.7

MAF-01 2.4

MAF-02 16.4

MAF-03 7.3

MAF-04 3.7

MAF-05 2

MAF-08

MAF-09

MAF-10

MAF-11

MAF-12

MAF-13

MAF-14

MAF-15

MAF-16

MAF-17

MAF-18

MAF-19

MAF-20

MAF-21

MAF-22

MAF-23

MAF-24

MAF-25

MAF-26

MAF-27

MAF-28

MAF-29

MAF-30

MAF-31

MAF-32

MAF-33

MAF-34

MAF-35

MAF-36

MAF-37

MAF-38

MAF-39

MAF-40

MAF-41

MAF-42

MAF-43

MAF-44

MAF-45

MAF-46

MAF-47

MAF-48

MAF-49

MAF-50

MAF-55

MAF-56

MAF-57

MAF-58

MAF-59

MAF-60 1.4

MAF-61

EW-12-05

EW-12-06

EW-12-07

SP-151

ST-01 2.4

ST-02 2

ST-03 2.1

ST-05

ST-06

ST-08

ST-09

ST-11 24

ST-12 1.4

ST-14 1.4

ST-15

ST-17

ST-19

ST-20

ST-21

ST-22

ST-23

ST-24

ST-25

ST-26

ST-27

ST-28

ST-29

ST-30

ST-31

ST-32

ST-33

ST-34

ST-35

ST-36

ST-37

ST-39

ST-41

ST-42

ST-43 35.7

ST-44

ST-101 0.4

ST-102 0.4

ST-103 0.4

ST-104 0.4

ST-105 0.4

ST-106 0.5

ST-107 0.4

ST-108

ST-109

PT-10

PT-11

PT-12

PT-13

PT-14

EDP-62

EDP-63

EDP-64

EDP-65

E005

E006

E007

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 10

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Miscellaneous Extractable Results (Benthic) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-179

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Miscellaneous Extractable Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale (Historically Mill A Creek)

Unnamed Creek No. 1

Unnamed Creek No. 2

Pigeon Creek

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

PT-OF-02

PT-OF-04

PT-OF-05

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18

A1-17

A1-15

A1-20

A1-24

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 through MAF-50

ST-01 through ST-44

PT-10 through PT-14

E005

E006

E007

EDP-62 through EDP-65

-330 through -10

0.4 0.3 0.4 0.4 0.4 0.7 0.4 0.4 0.3 0.4 2.5 2.1 8.7 35.7 24

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300 0 300

Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 / 1.22 Sample Location Identification / Result

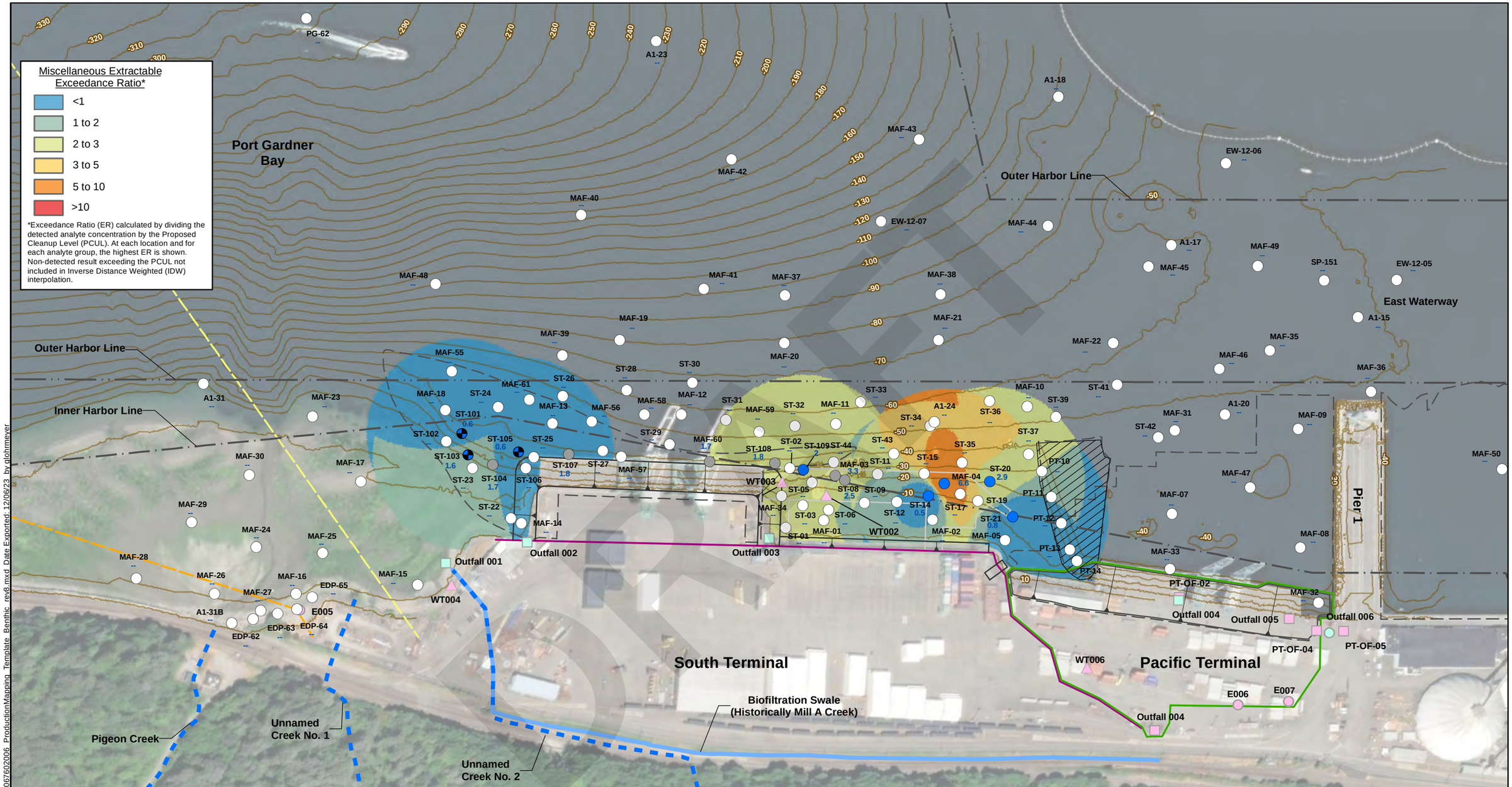
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Miscellaneous Extractable Results (Benthic) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-180



Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)

Notes:

1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

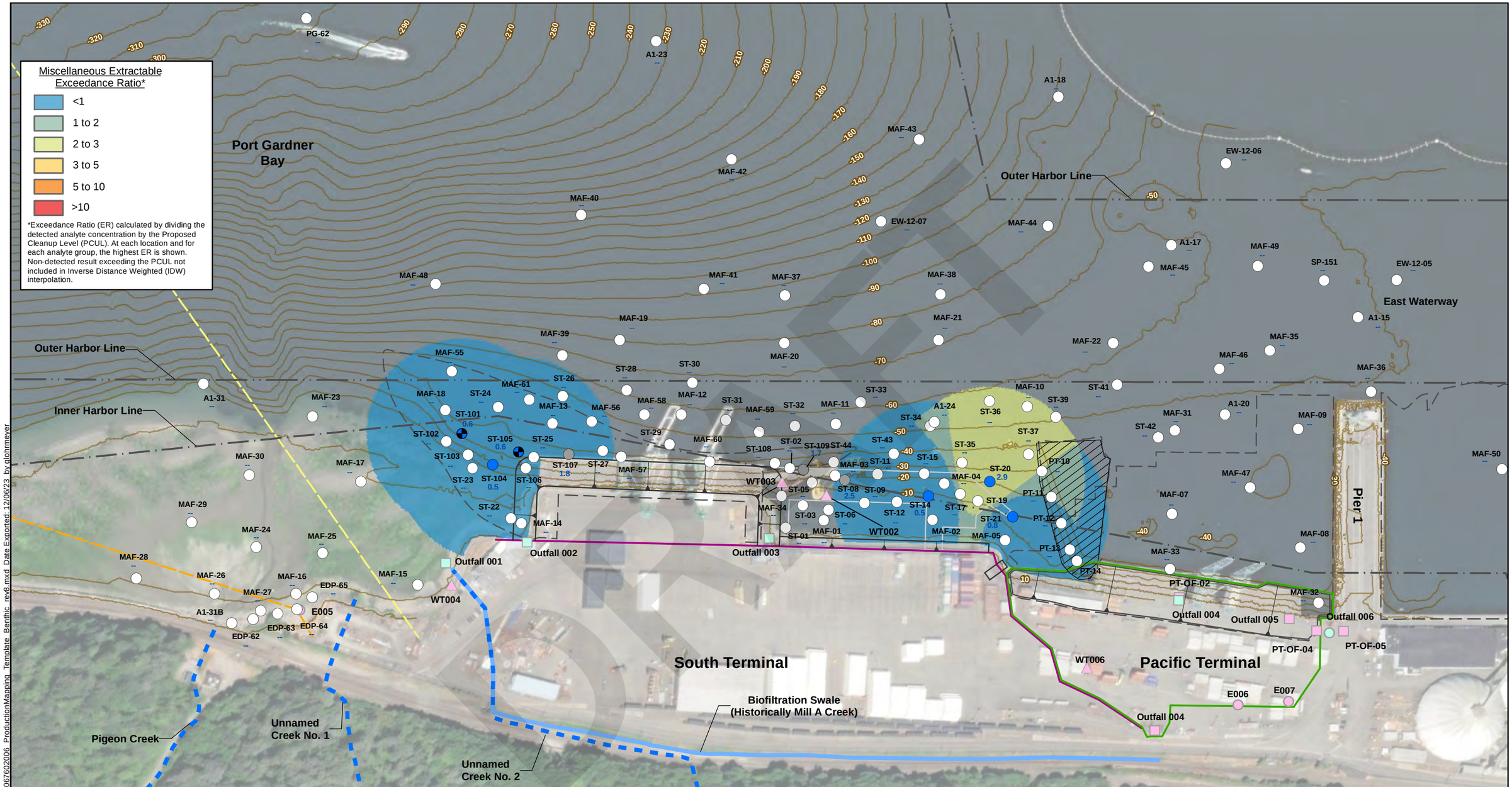
Miscellaneous Extractable Results (Benthic) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-181

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

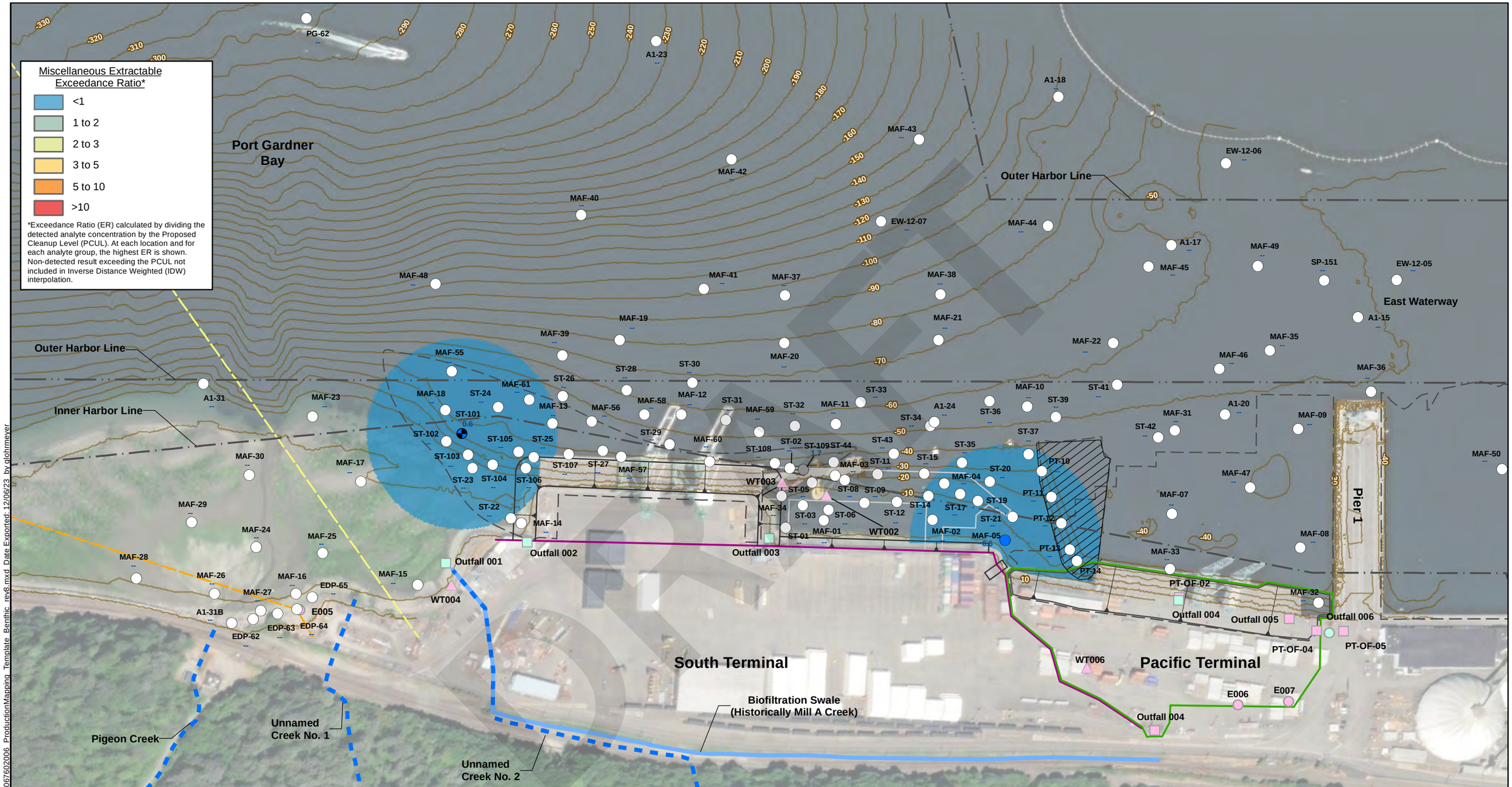
Miscellaneous Extractable Results (Benthic) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-182

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

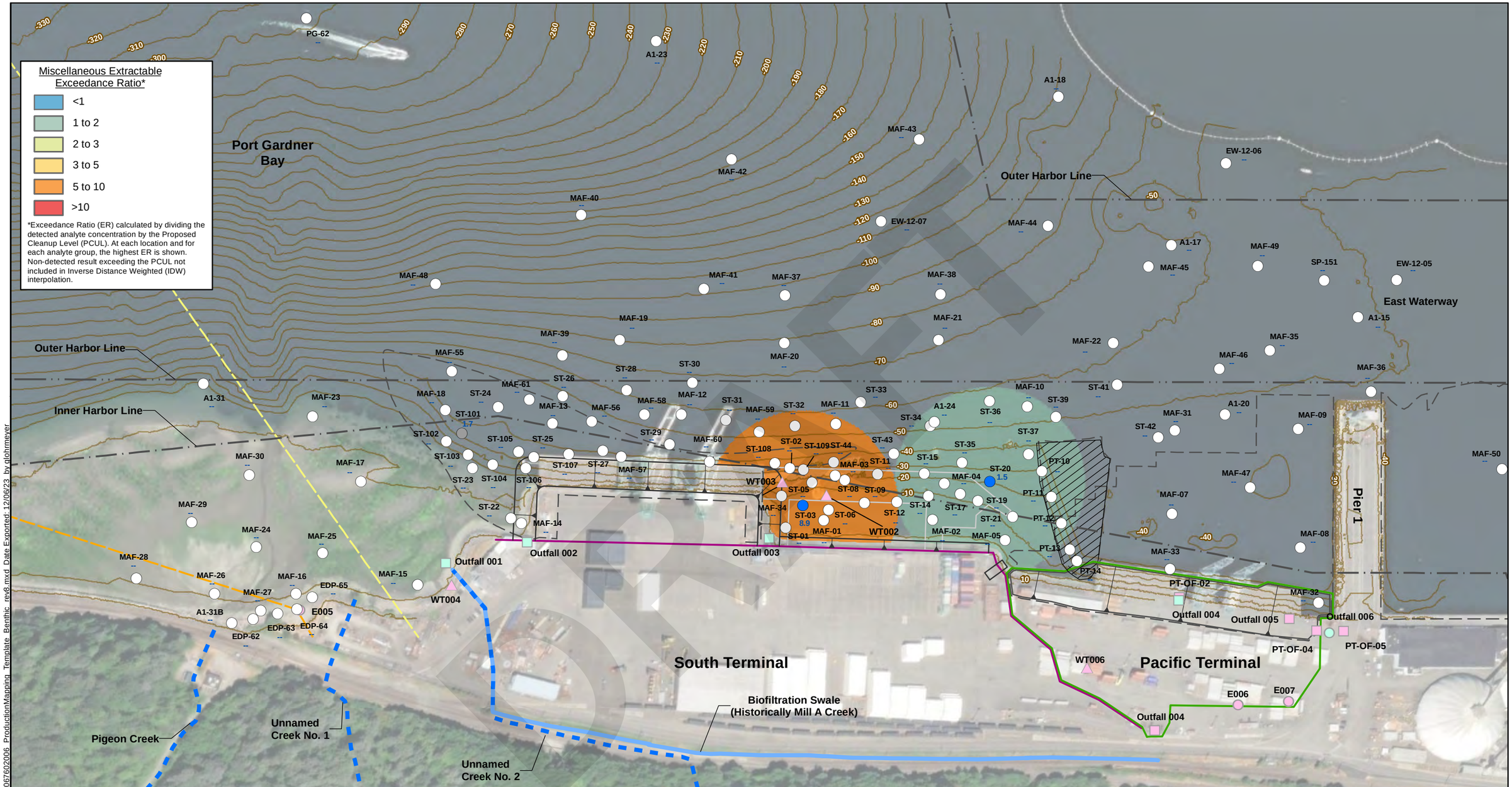
Miscellaneous Extractable Results (Benthic) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-183

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

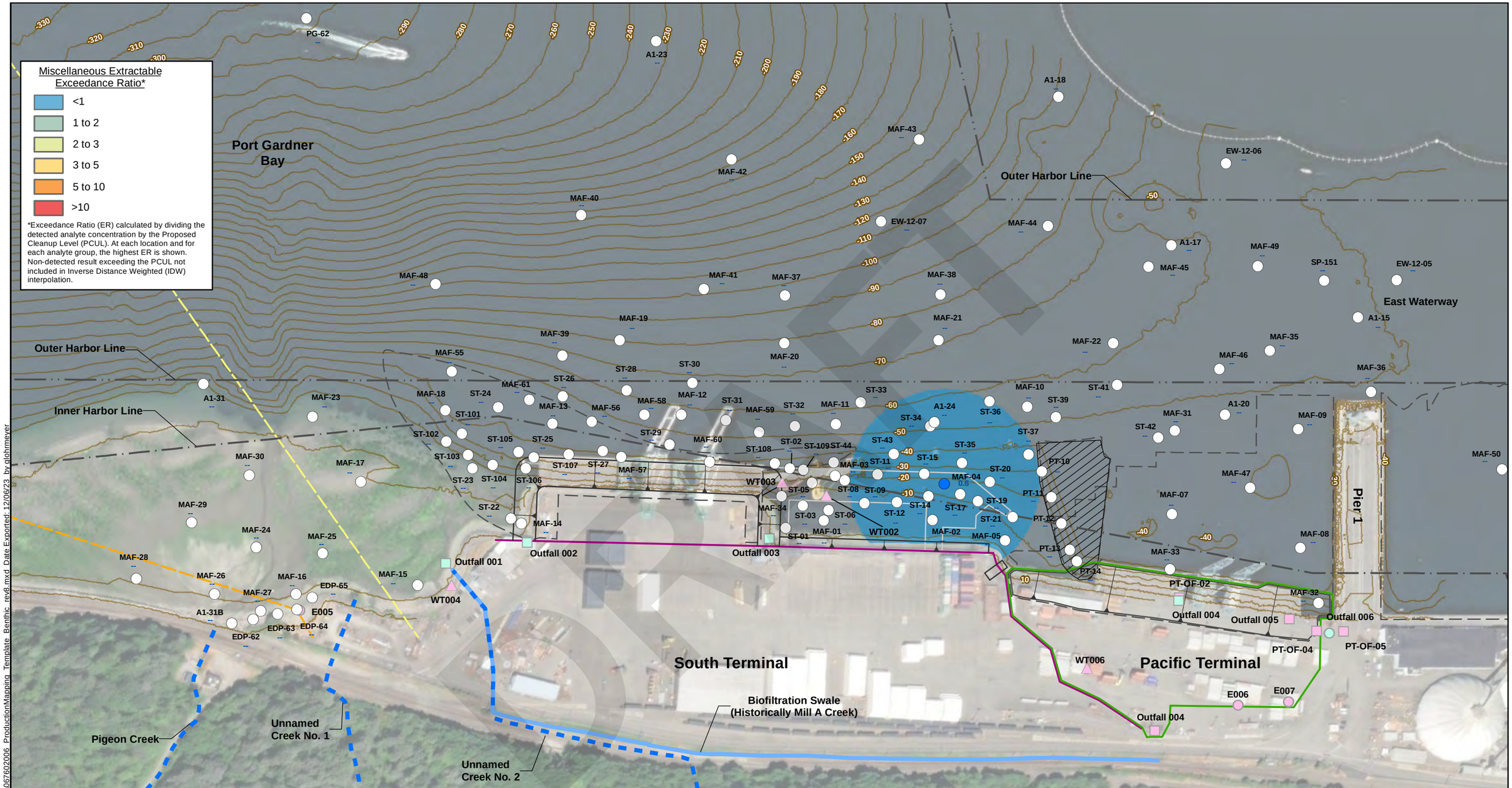
Miscellaneous Extractable Results (Benthic) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-184

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

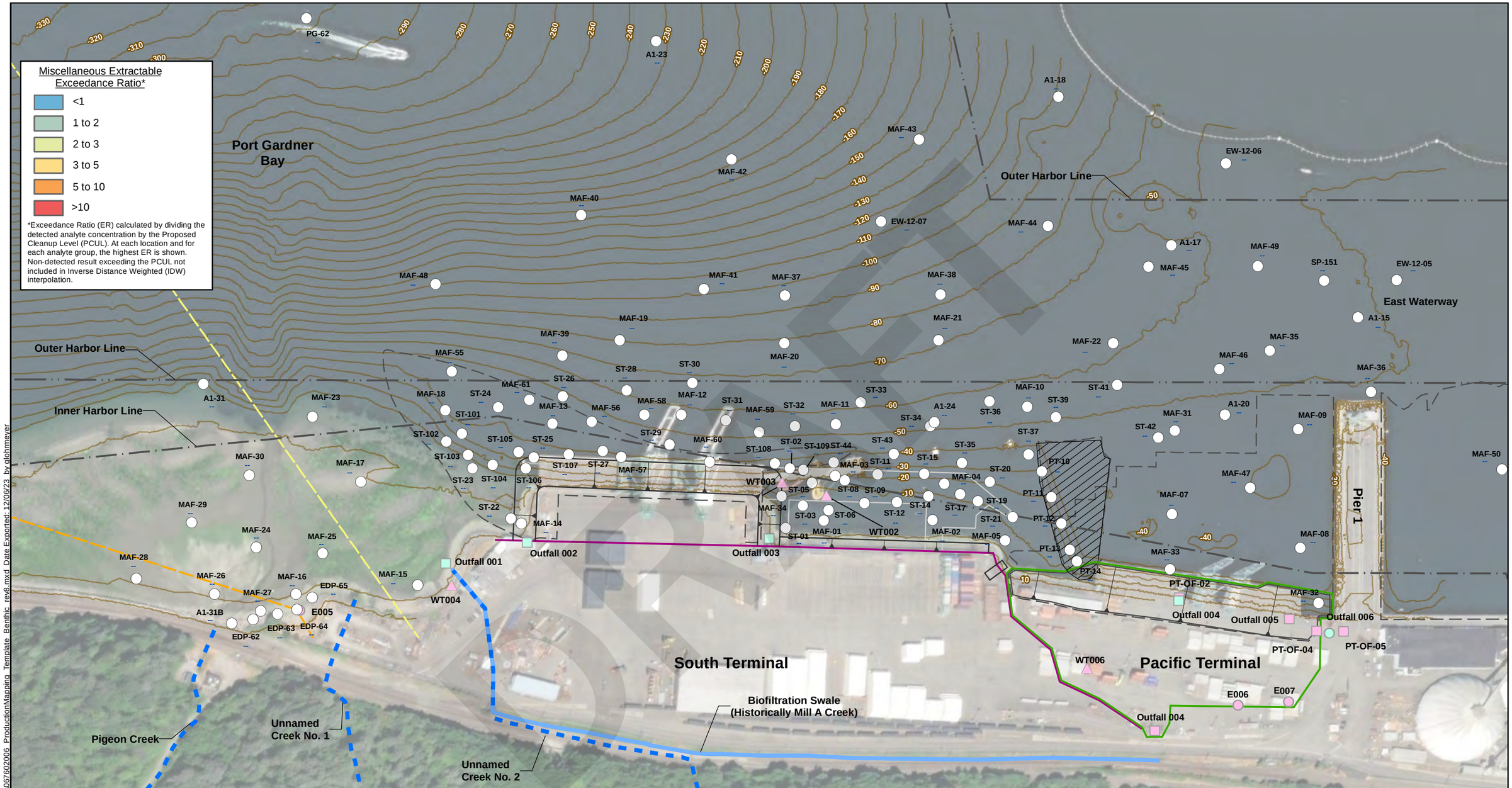
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Miscellaneous Extractable Results (Benthic) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-185



Notes:

1. The locations of all features shown are approximate.
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

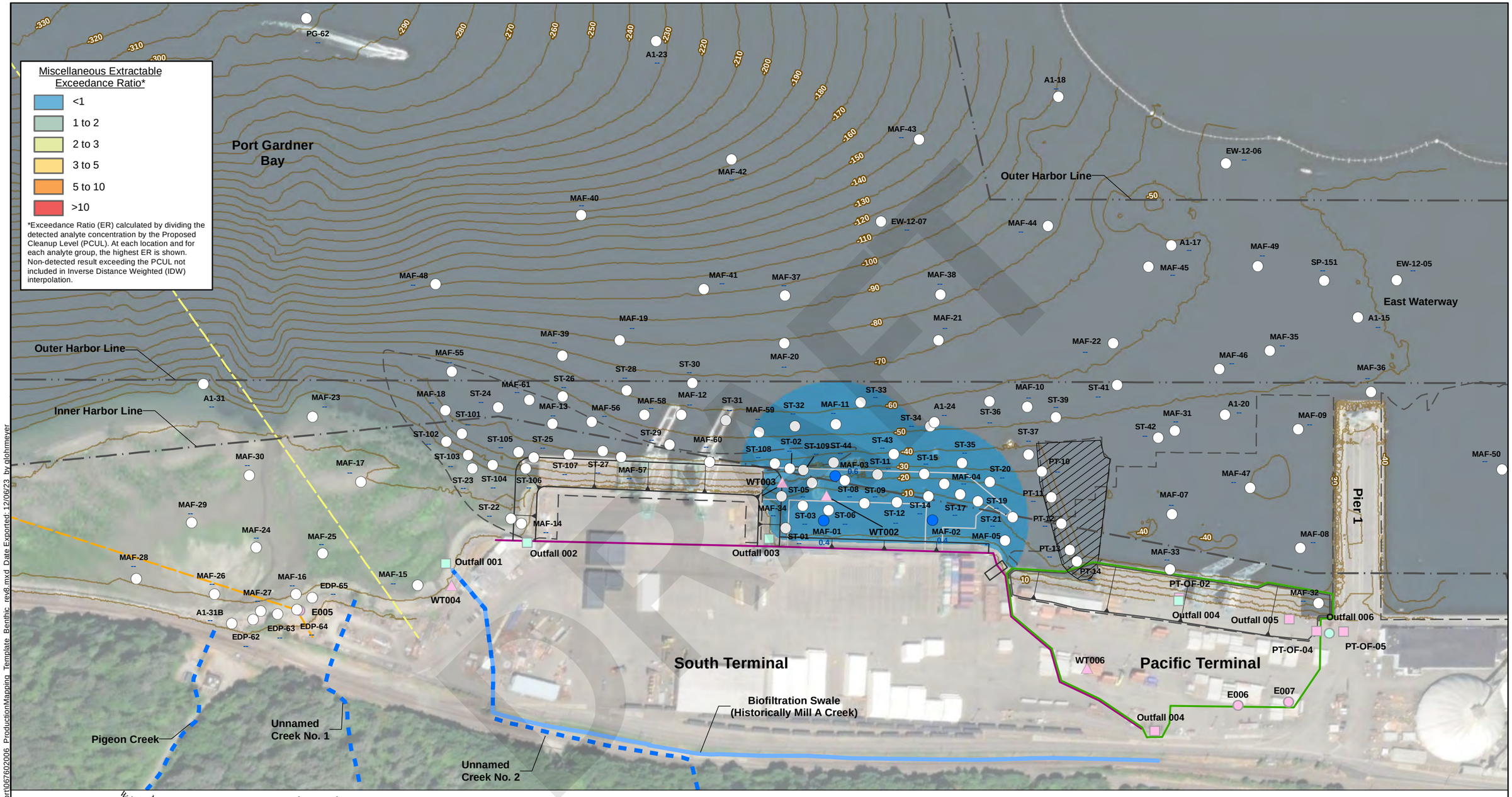
Miscellaneous Extractable Results (Benthic) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-186

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

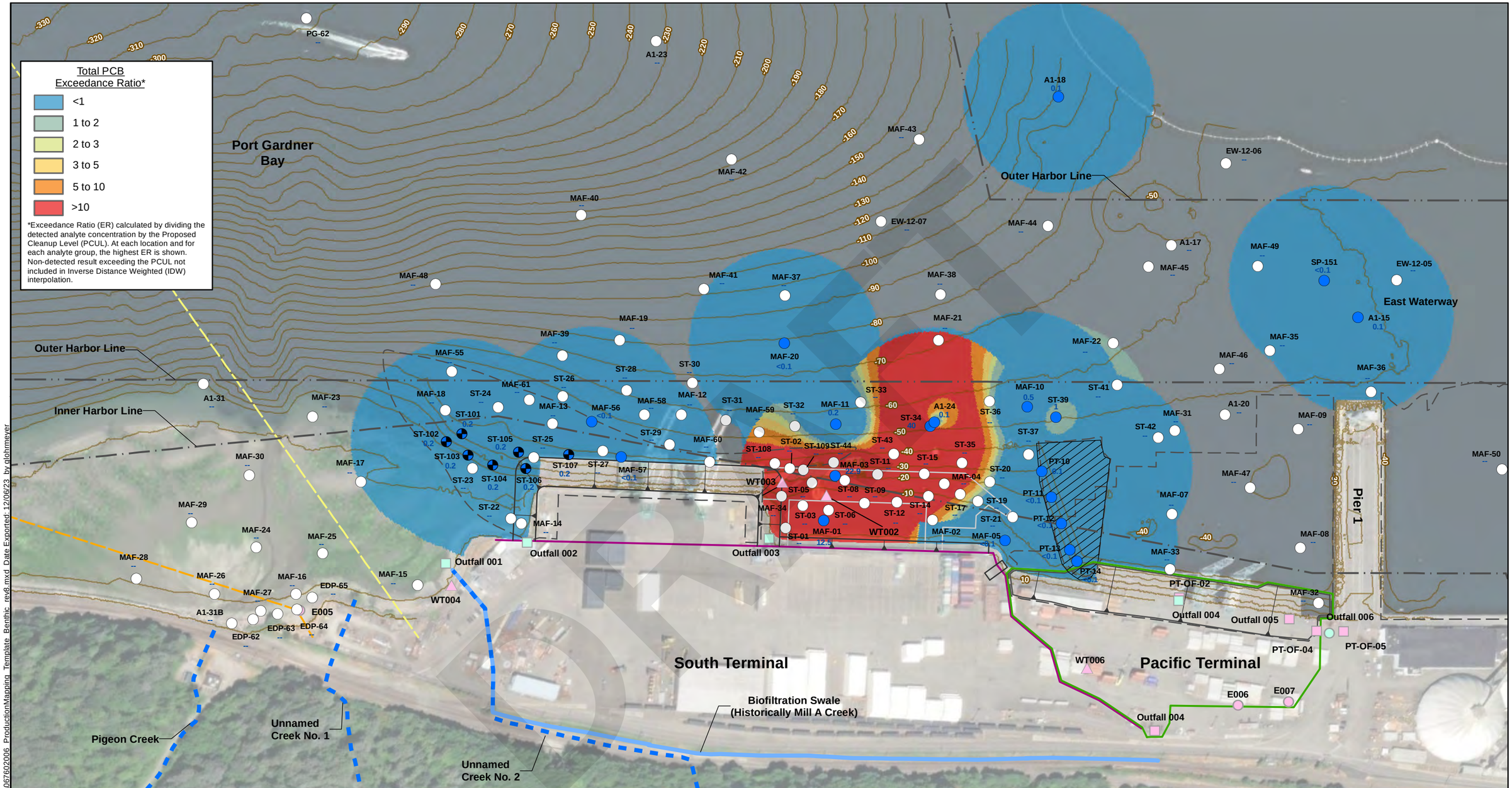
Miscellaneous Extractable Results (Benthic) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-187

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Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

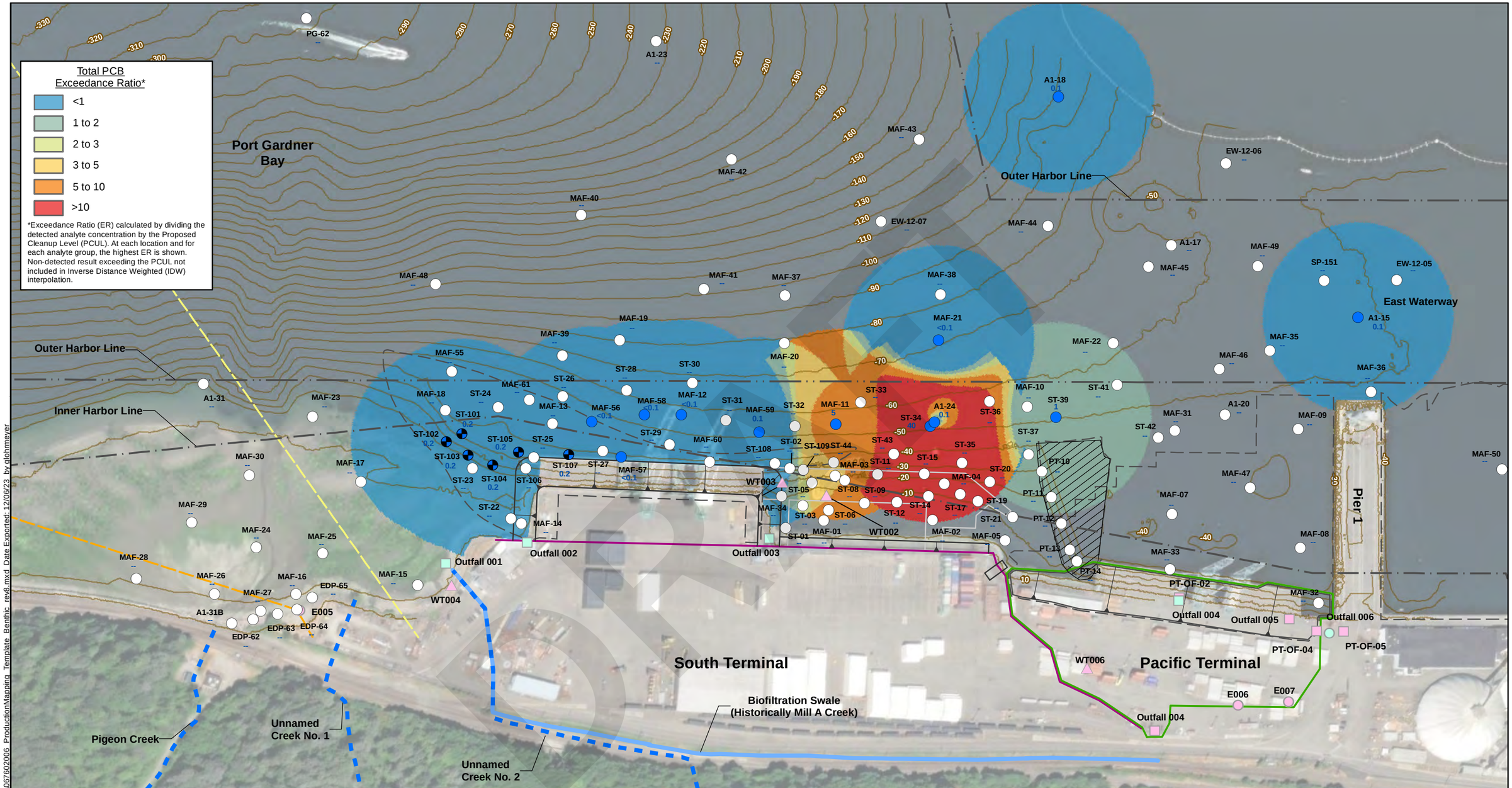
Total PCB Results (Benthic) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-188

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300 0 300
Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

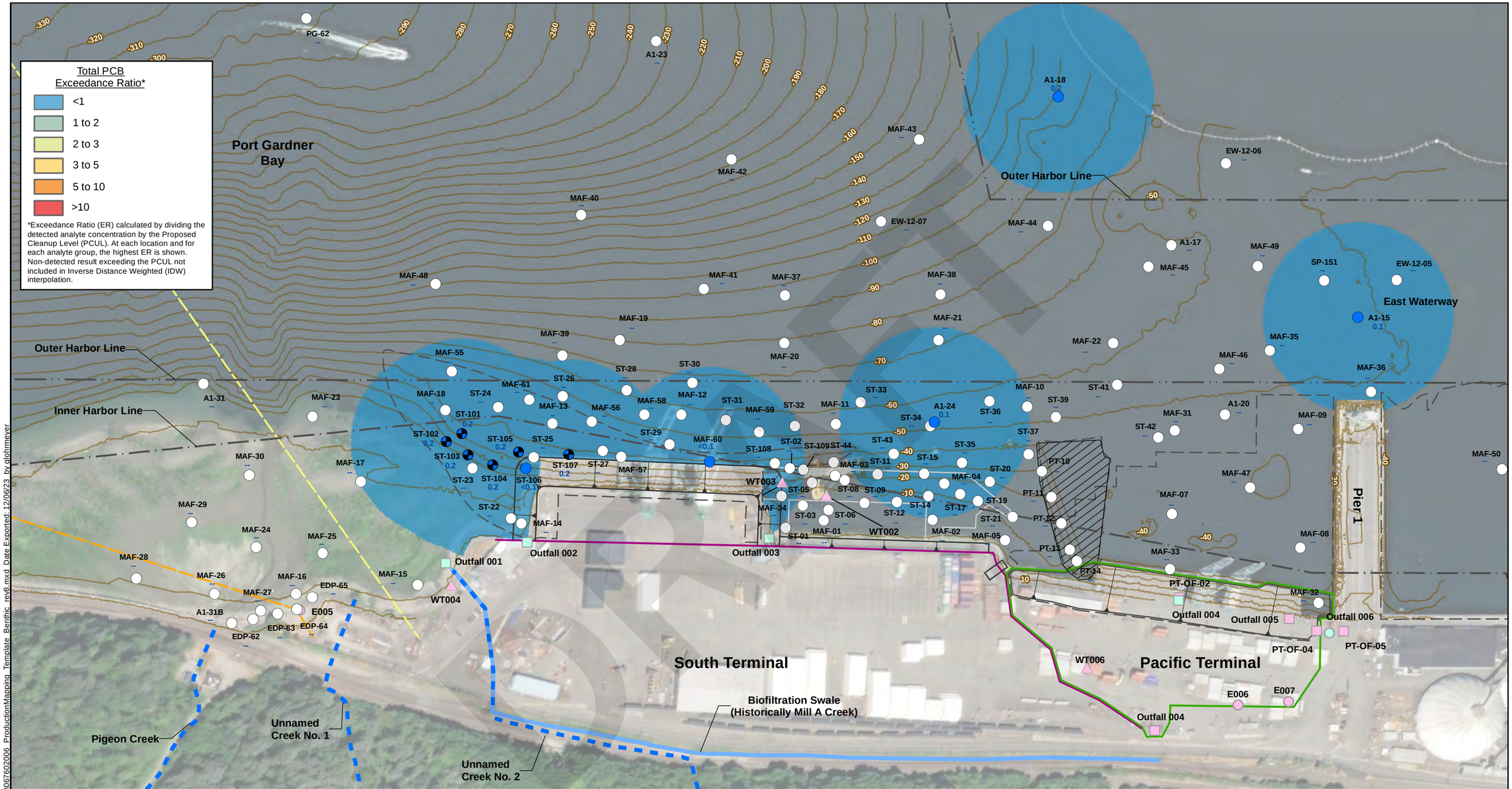
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total PCB Results (Benthic) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-189



Total PCB Results (Benthic) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-190

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Total PCB
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

E005

E006

E007

PG-62

A1-23

A1-18

A1-17

A1-15

A1-20

A1-24

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-10 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-10 PT-11 PT-12 PT-13 PT-14 PT-OF-02 PT-OF-04 PT-OF-05

EDP-62 EDP-63 EDP-64 EDP-65

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

Notes:
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Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total PCB Results (Benthic) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-191

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DRAFT

Total PCB
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

E005

E006

E007

PG-62

A1-23

A1-18

A1-17

A1-15

A1-20

A1-24

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-10 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-10 PT-11 PT-12 PT-13 PT-14 PT-OF-02 PT-OF-04 PT-OF-05

EDP-62 EDP-63 EDP-64 EDP-65

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

<0.1 0.3

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N W E S

300 0 300

Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

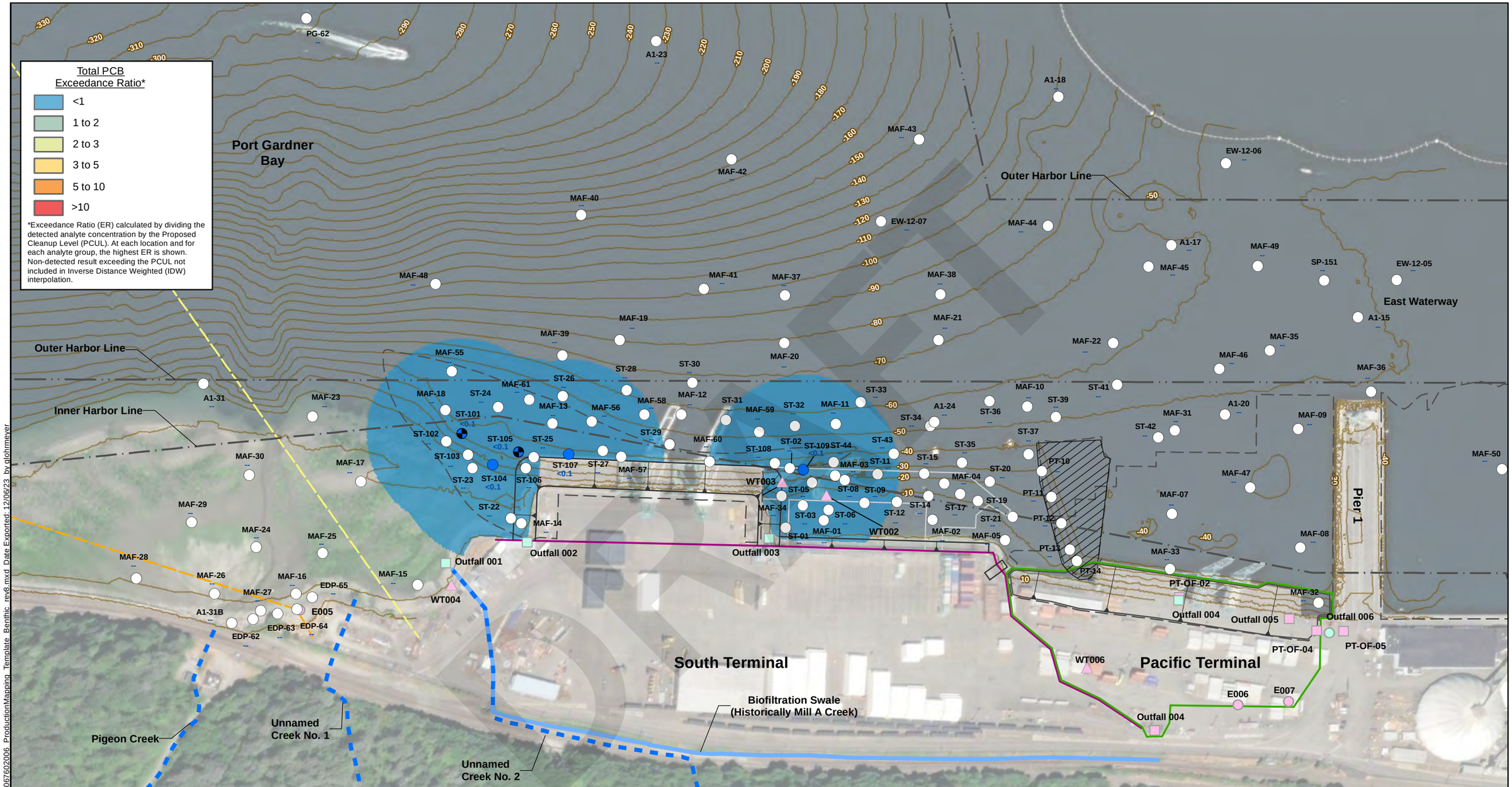
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total PCB Results (Benthic) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-192



Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

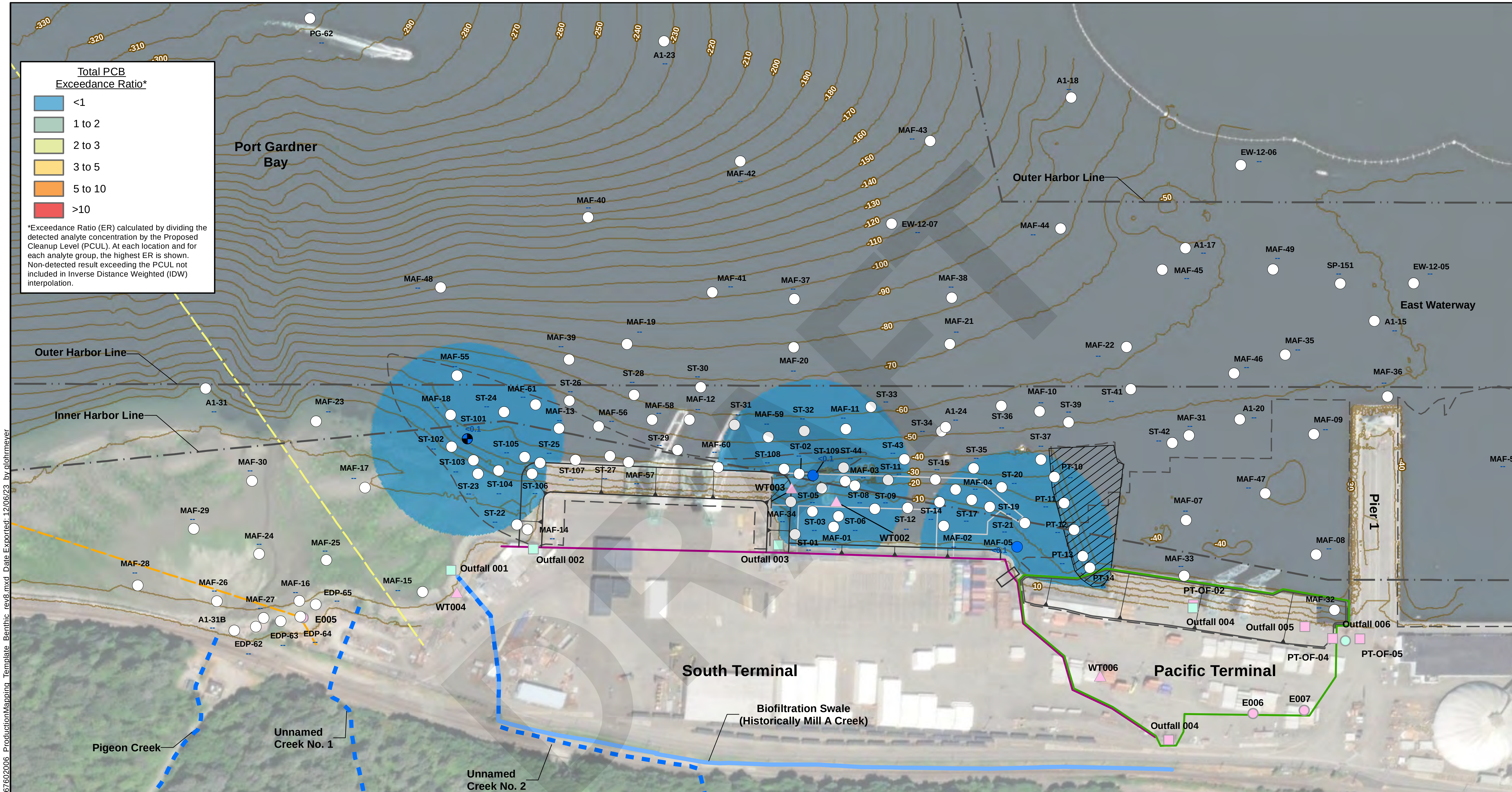
Total PCB Results (Benthic) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-193

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300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

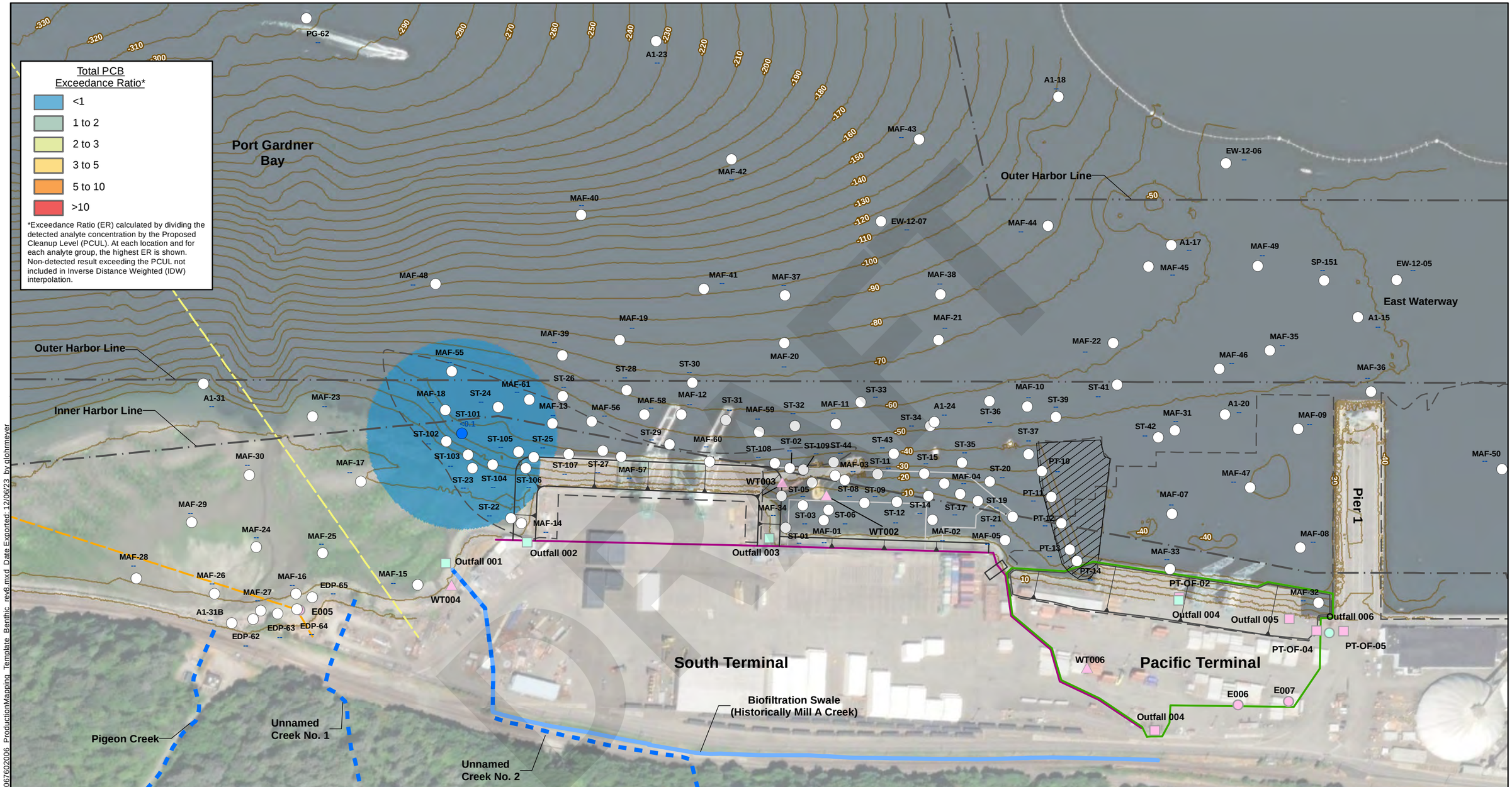
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)
- MAF-01 / 1.22 — Sample Location Identification / Result
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total PCB Results (Benthic) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GEOENGINEERS

Figure Q-194



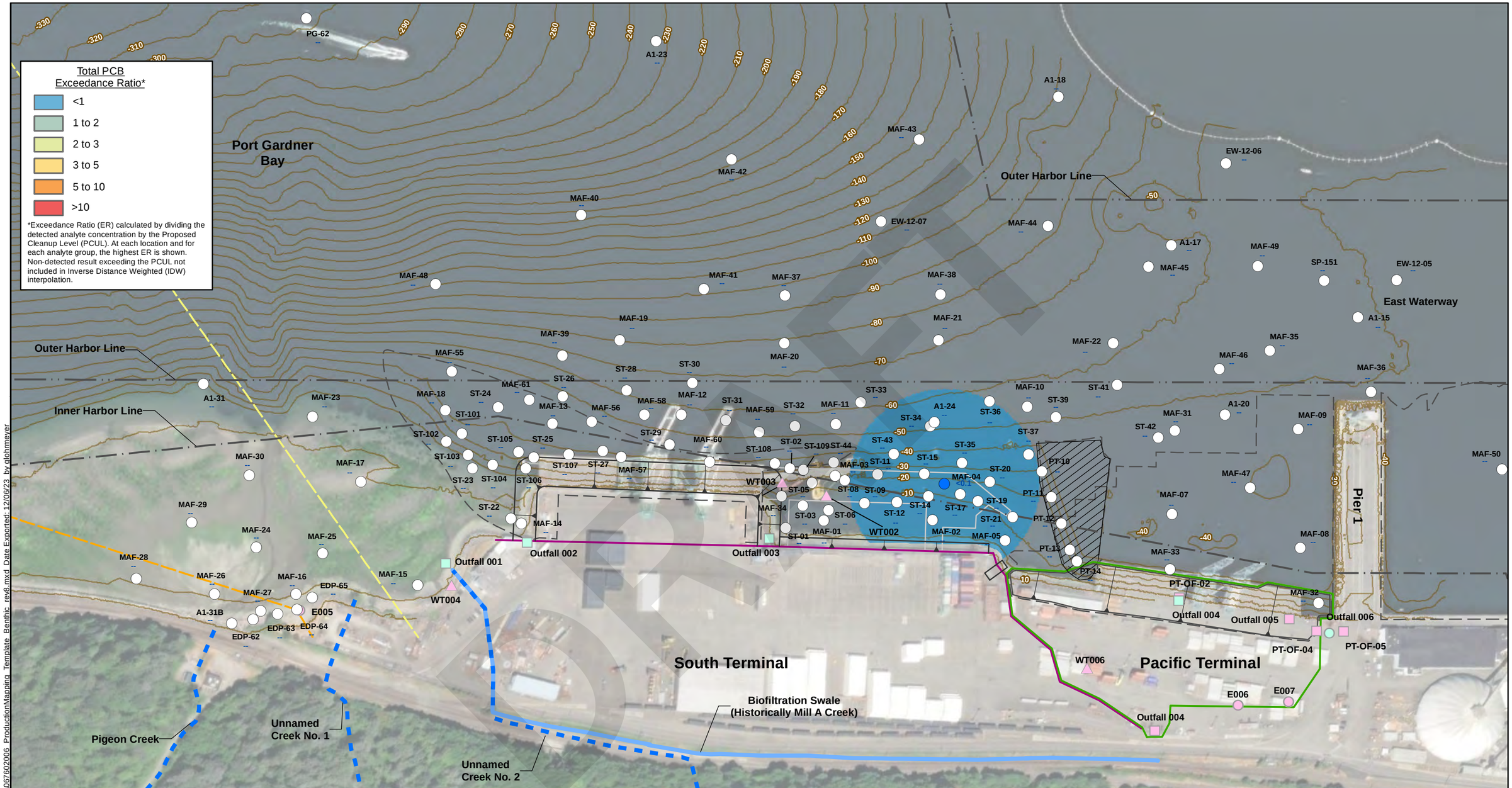
Total PCB Results (Benthic) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-195

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Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

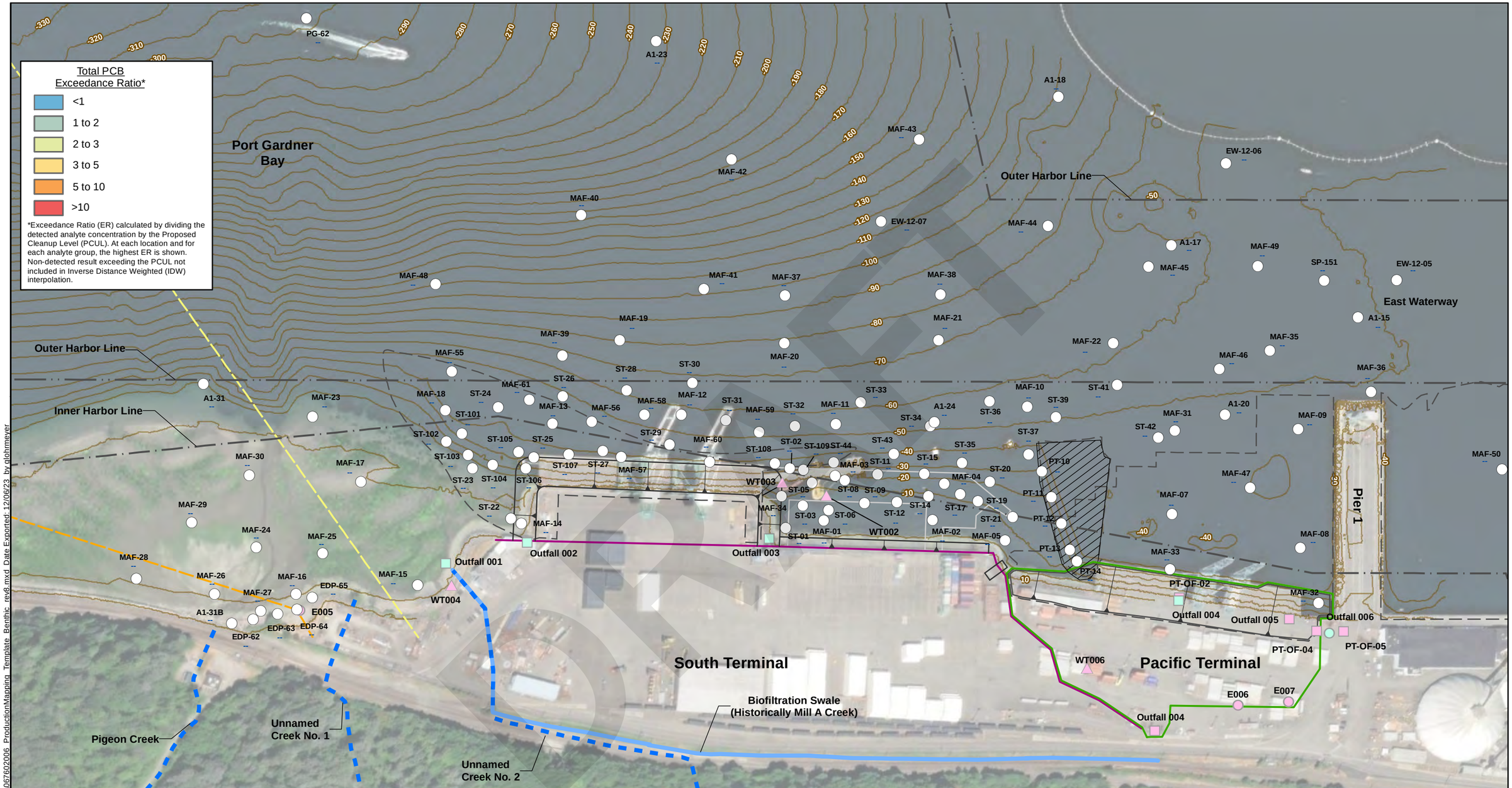
Total PCB Results (Benthic) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-196

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.

Data Source: Base aerial from ESRI, 2018

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

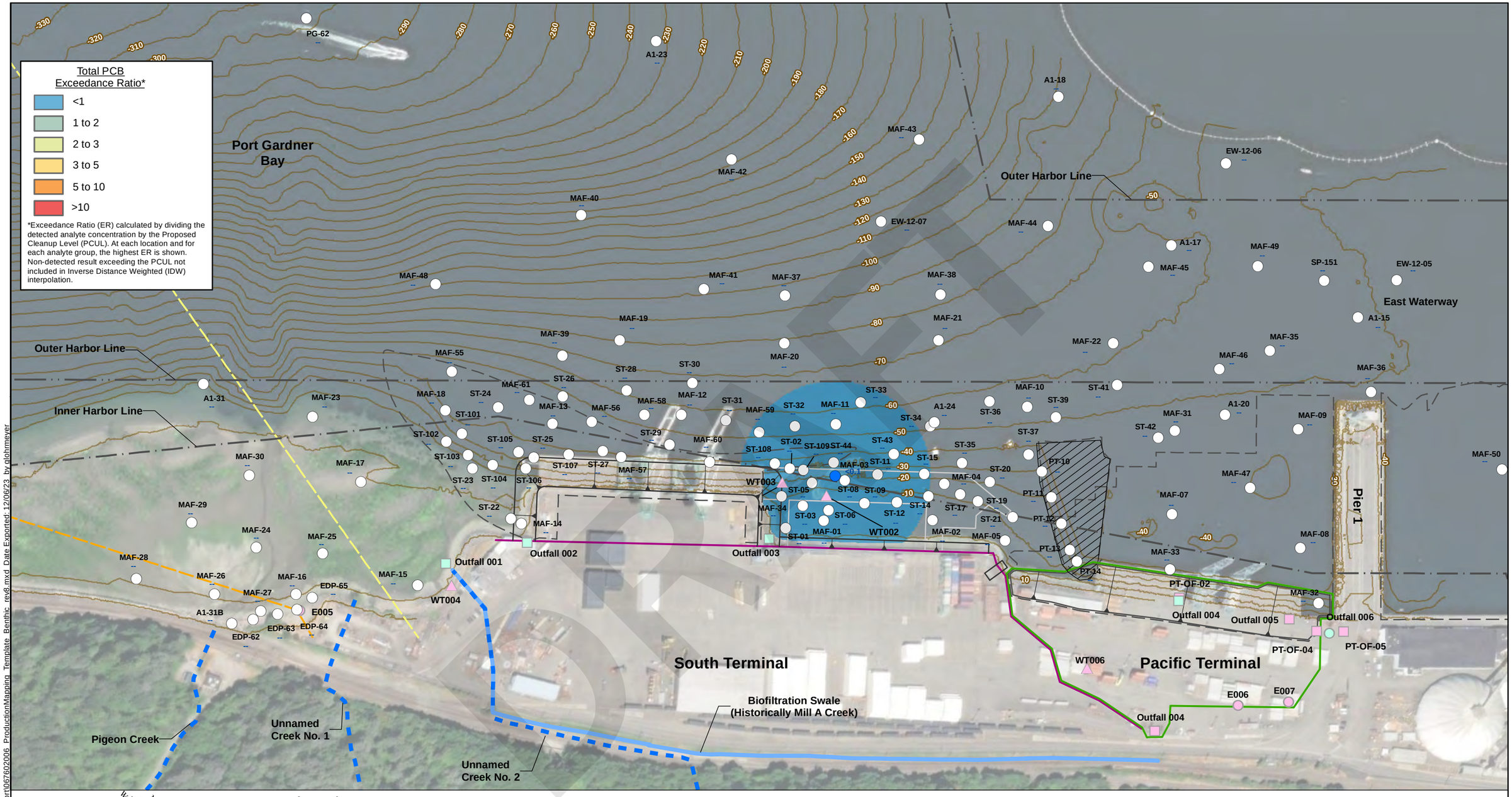
Total PCB Results (Benthic) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-197

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300 0 300
Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW), Power = 6, Neighbors = 12, Radius = 300 feet.
Data Source: Base aerial from ESRI, 2018
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

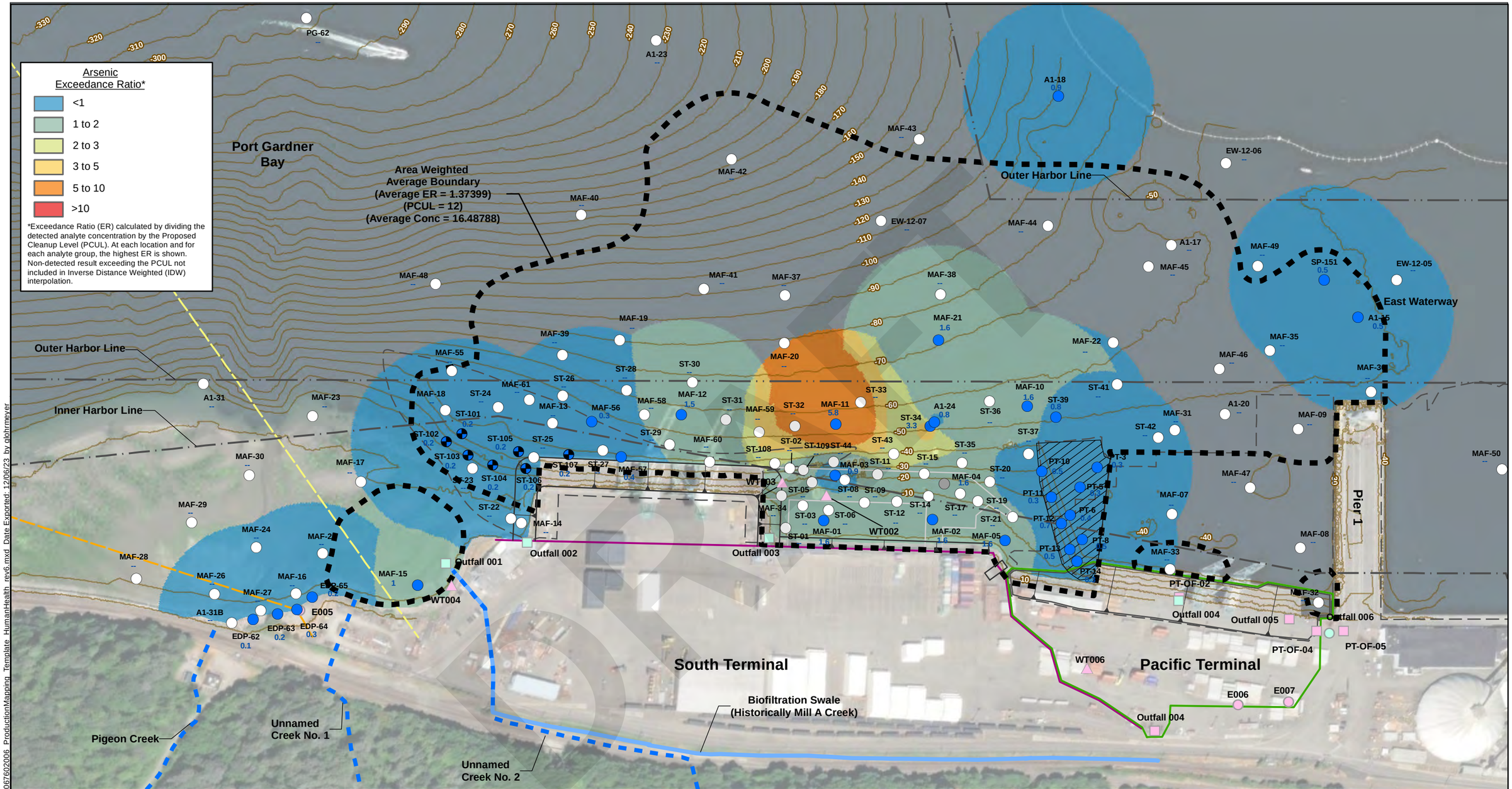
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total PCB Results (Benthic) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-198



Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 / 1.22 Sample Location Identification / Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

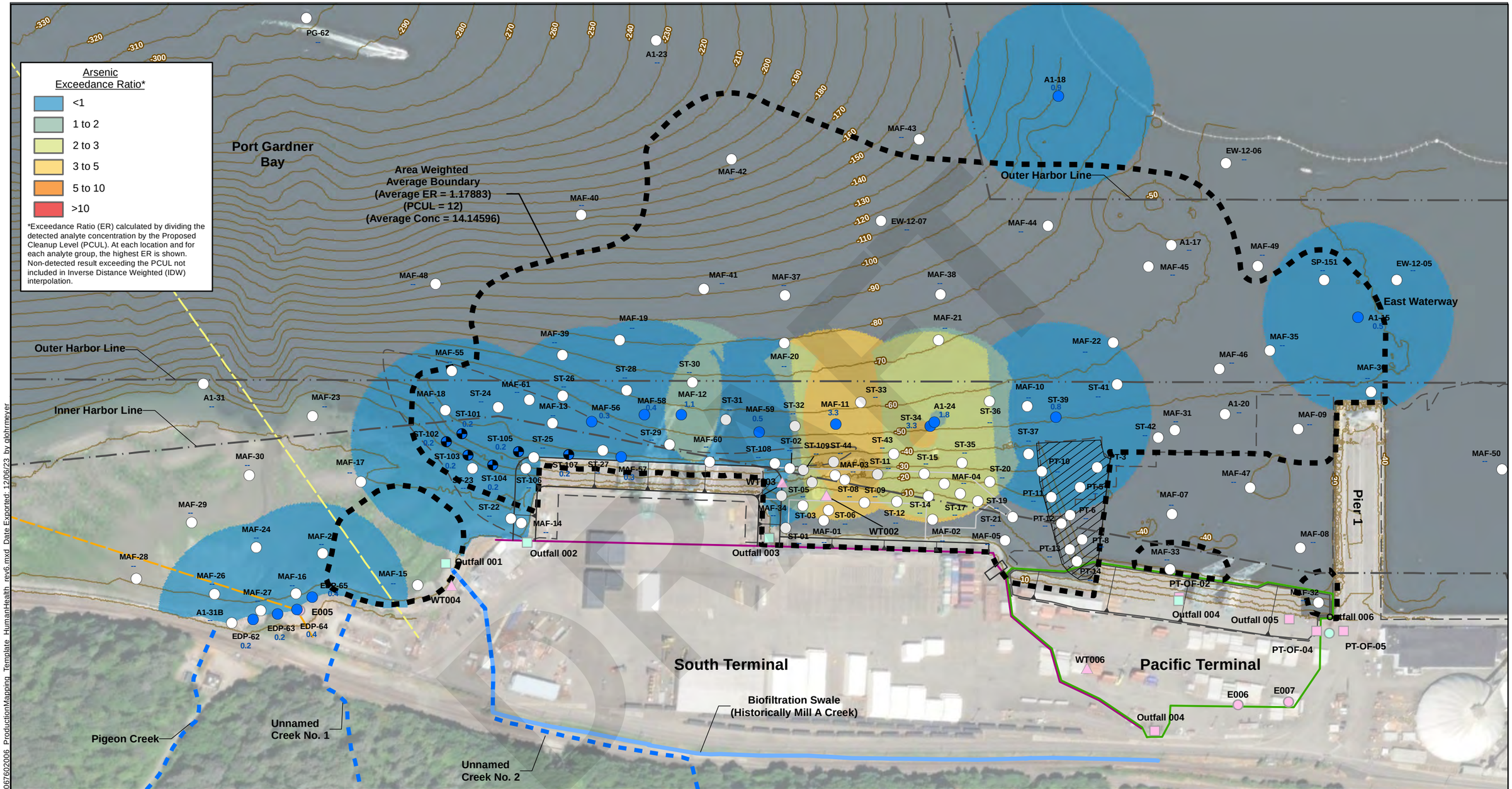
Arsenic Results (Human Health) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former Everett, Washington

GeoEngineers

Figure Q-199

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

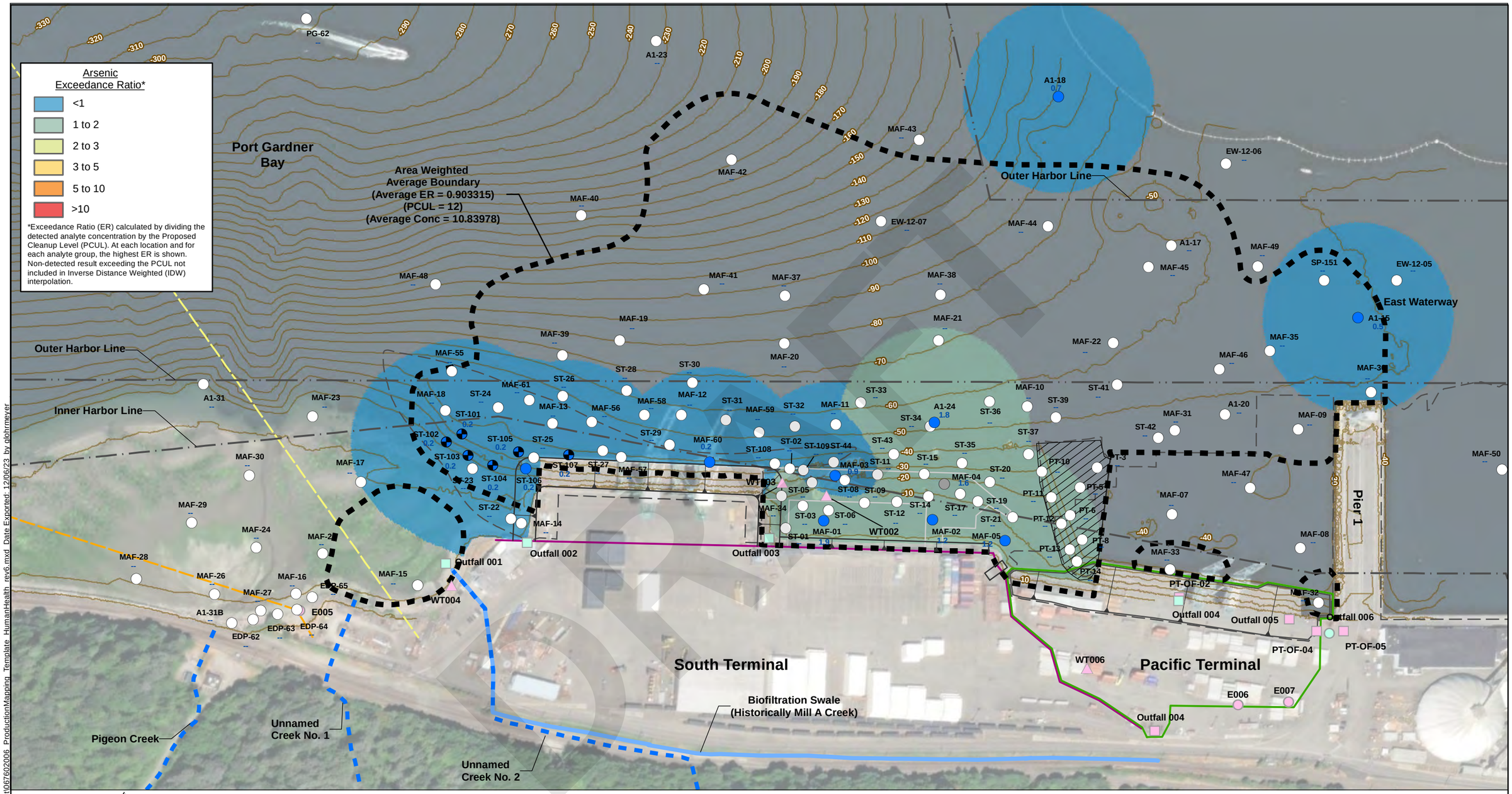
Arsenic Results (Human Health) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-200

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Arsenic Results (Human Health) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-201

Arsenic
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.528636)
(PCUL = 12)
(Average Conc = 6.343632)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 MAF-43 MAF-42 MAF-40 EW-12-06 EW-12-07 MAF-44 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-39 MAF-21 MAF-20 MAF-22 MAF-35 MAF-46 MAF-55 ST-28 ST-30 ST-26 MAF-61 MAF-18 ST-24 MAF-13 MAF-56 MAF-58 MAF-12 ST-31 MAF-59 ST-32 MAF-11 ST-33 ST-34 A1-24 MAF-10 ST-41 ST-39 ST-36 A1-20 MAF-31 MAF-09 ST-42 ST-37 A1-31 MAF-23 ST-101 ST-102 ST-105 ST-25 ST-29 MAF-60 ST-108 ST-109 ST-44 ST-43 ST-35 MAF-30 MAF-17 ST-103 ST-107 ST-27 MAF-57 MAF-03 ST-11 ST-15 ST-20 MAF-04 MAF-47 ST-23 ST-104 ST-106 ST-05 ST-08 ST-09 ST-19 MAF-07 MAF-29 ST-22 MAF-34 ST-03 ST-06 ST-12 ST-14 ST-17 ST-21 MAF-14 MAF-24 MAF-01 MAF-02 MAF-05 MAF-08 MAF-28 MAF-26 MAF-16 MAF-15 MAF-27 EDP-65 E005 A1-31B EDP-63 EDP-64 EDP-62 MAF-33 MAF-32 PT-OF-02 PT-OF-04 PT-OF-05 E006 E007 MAF-50

PT-10 PT-5 PT-11 PT-6 PT-12 PT-8 PT-13 PT-14 PT-3

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

0.2 0.4 0.2 0.2 0.2 0.3 0.4 0.7 0.8 0.8

300 0 300
Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)

- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

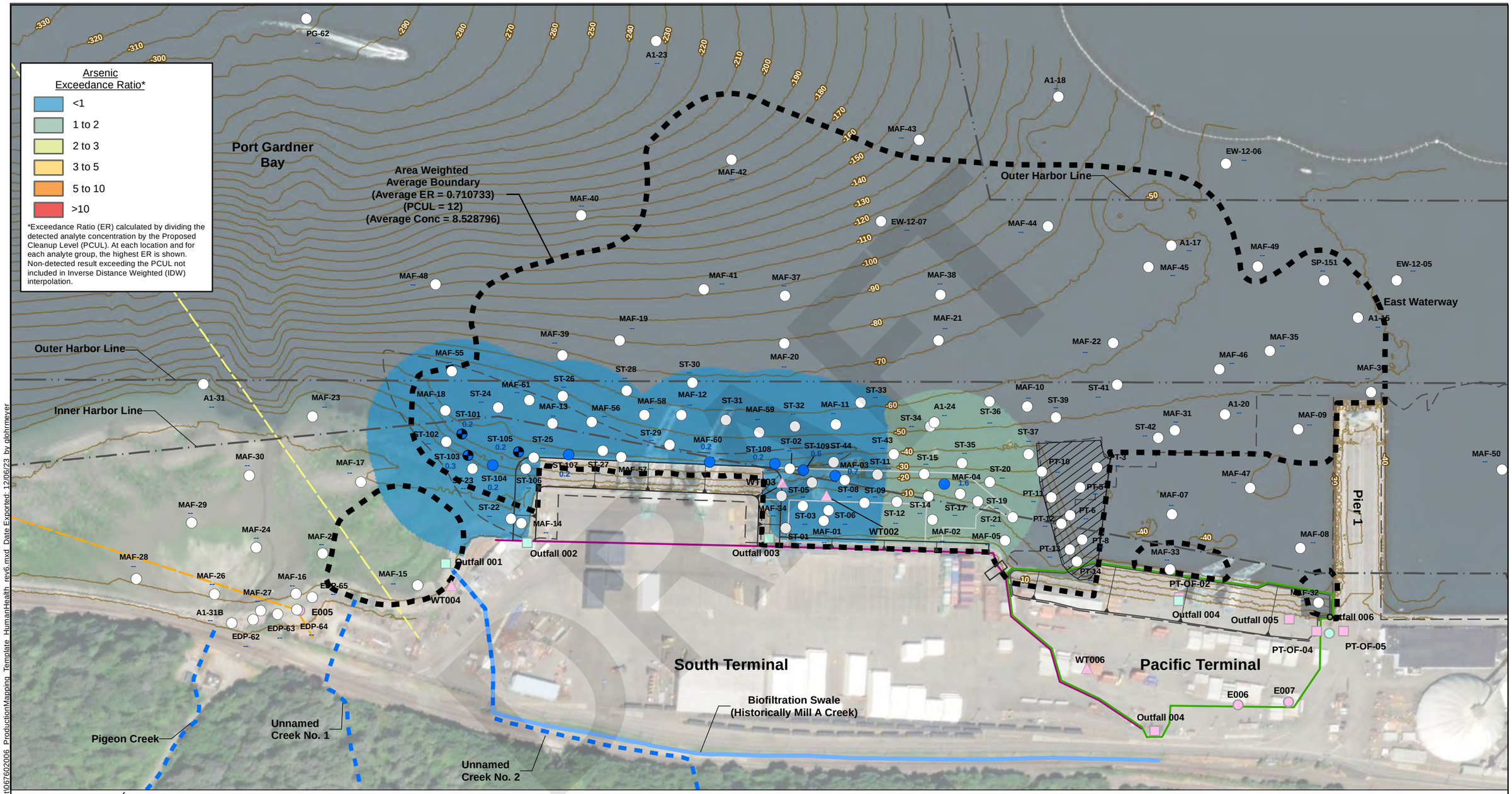
Arsenic Results (Human Health)
Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-202

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Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Arsenic Results (Human Health)
Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-203

P:\0067602G\GIS\MXD\MarineArea_RI_Report\067602G06_ProductionMapping_Template_HumanHealth_rev6.mxd Date Exported: 12/06/23 by olohrmeyer

Arsenic
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.251737)
(PCUL = 12)
(Average Conc = 3.020844)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 MAF-43 MAF-42 MAF-40 EW-12-06 EW-12-07 MAF-44 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-39 MAF-21 MAF-22 MAF-35 MAF-46 MAF-55 MAF-20 ST-28 ST-30 MAF-61 ST-26 MAF-18 ST-24 MAF-13 MAF-56 MAF-58 MAF-12 ST-31 MAF-59 ST-32 MAF-11 ST-33 A1-24 ST-36 MAF-10 ST-39 ST-41 A1-20 MAF-31 MAF-09 ST-42 ST-37 A1-31 MAF-23 ST-101 ST-102 ST-105 ST-25 ST-29 MAF-60 ST-108 ST-02 ST-109 ST-44 ST-43 ST-35 MAF-30 ST-103 ST-107 ST-27 MAF-57 MAF-03 ST-11 ST-15 ST-20 MAF-04 MAF-17 ST-23 ST-104 ST-106 ST-05 ST-08 ST-09 ST-19 MAF-07 MAF-47 MAF-50 MAF-29 ST-22 MAF-34 ST-03 ST-06 ST-12 ST-14 ST-17 ST-21 MAF-24 MAF-14 MAF-01 MAF-02 MAF-05 MAF-08 MAF-28 MAF-26 MAF-16 MAF-15 MAF-27 EDP-65 MAF-33 MAF-32 PT-OF-02 PT-OF-04 PT-OF-05 A1-31B E005 EDP-63 EDP-64 EDP-62 E006 E007

Outer Harbor Line -50 -40 -30 -20 -10 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190 -200 -210 -220 -230 -240 -250 -260 -270 -280 -290 -300 -310 -320 -330

0.2 0.2 0.2 0.1 0.3

300 0 300
Feet

Notes:
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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Arsenic Results (Human Health) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-204

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Arsenic
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.236271)
(PCUL = 12)
(Average Conc = 2.835252)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 MAF-43 MAF-42 MAF-40 EW-12-06 EW-12-07 MAF-44 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-39 MAF-21 MAF-20 MAF-22 MAF-35 MAF-46 MAF-55 ST-28 ST-30 ST-26 MAF-61 MAF-18 ST-24 MAF-13 MAF-56 MAF-58 MAF-12 ST-31 MAF-59 ST-32 MAF-11 ST-33 A1-24 ST-36 MAF-10 ST-39 ST-41 A1-31 MAF-23 ST-101 ST-102 ST-105 ST-25 ST-29 MAF-60 ST-108 ST-02 ST-109 ST-44 ST-43 ST-34 ST-35 ST-37 A1-20 MAF-31 MAF-09 ST-42 MAF-30 MAF-17 ST-103 ST-107 ST-27 MAF-57 ST-23 ST-104 ST-106 MAF-03 ST-11 ST-15 ST-20 MAF-04 PT-10 PT-3 MAF-50 MAF-47 MAF-29 ST-05 ST-08 ST-09 PT-11 PT-5 MAF-07 ST-22 MAF-34 ST-03 ST-06 ST-12 ST-14 ST-17 ST-19 PT-6 MAF-24 MAF-14 ST-01 MAF-01 MAF-02 MAF-05 ST-21 PT-12 PT-8 PT-13 MAF-08 MAF-28 MAF-26 MAF-16 MAF-15 MAF-27 EDP-65 MAF-33 PT-14 PT-OF-02 MAF-32 A1-31B E005 EDP-63 EDP-64 EDP-62 PT-OF-04 PT-OF-05 E006 E007

Contour labels: -330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, -50, -40, -40, -10, 50, 30, 40

0.2 0.1



Notes:
1. The locations of all features shown are approximate.
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Arsenic Results (Human Health) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-205

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Arsenic
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = 0.345) (PCUL = 12) (Average Conc = 4.14)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

E005

E006

E007

PG-62

A1-23

A1-18

A1-17

A1-15

A1-31

A1-31B

A1-24

A1-20

EW-12-06

EW-12-07

EW-12-05

SP-151

EDP-62

EDP-63

EDP-64

EDP-65

PT-OF-02

PT-OF-04

PT-OF-05

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 -50 -40 -40 -40 -30 -40

0.3

Date Exported: 12/06/23 by olohrmeyer

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Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Arsenic Results (Human Health) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-206

Arsenic
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = NA) (PCUL = 12) (Average Conc = NA)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, A1-15, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-22, MAF-35, MAF-46, MAF-55, MAF-20, MAF-31, A1-31, MAF-23, MAF-61, ST-26, ST-28, ST-30, MAF-18, ST-24, MAF-13, MAF-56, MAF-58, ST-31, MAF-12, MAF-59, ST-32, MAF-11, ST-33, MAF-10, ST-41, ST-39, A1-24, ST-36, A1-20, MAF-09, ST-42, ST-37, ST-101, ST-102, ST-105, ST-25, ST-29, MAF-60, ST-108, ST-02, ST-109, ST-44, ST-43, ST-35, ST-34, ST-50, ST-40, ST-15, MAF-03, ST-11, ST-30, ST-20, MAF-04, MAF-50, MAF-30, MAF-17, ST-103, ST-107, ST-27, MAF-57, ST-23, ST-104, ST-106, ST-05, ST-08, ST-09, ST-10, ST-19, ST-14, ST-17, MAF-34, ST-03, ST-06, ST-12, ST-21, MAF-01, MAF-02, MAF-05, MAF-07, MAF-47, PT-10, PT-5, PT-11, PT-6, PT-12, PT-8, PT-13, PT-14, MAF-08, MAF-33, PT-OF-02, MAF-32, PT-OF-04, PT-OF-05, MAF-29, MAF-24, MAF-28, MAF-26, MAF-27, MAF-16, EDP-65, MAF-15, A1-31B, E005, EDP-63, EDP-64, EDP-62, ST-22, MAF-14, ST-01, ST-03, E006, E007, MAF-02

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, -50, -40, -40, -10, -40, -50

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Arsenic Results (Human Health) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-207

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Arsenic
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = NA) (PCUL = 12) (Average Conc = NA)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PT-OF-02

PT-OF-04

PT-OF-05

E005

E006

E007

EDP-62

EDP-63

EDP-64

EDP-65

PG-62

A1-23

A1-18

A1-17

A1-15

A1-24

A1-20

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 through MAF-61

ST-01 through ST-44

PT-3 through PT-14

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 -50 -40 -40 -40 -10

300 0 300

Feet

Notes:

1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

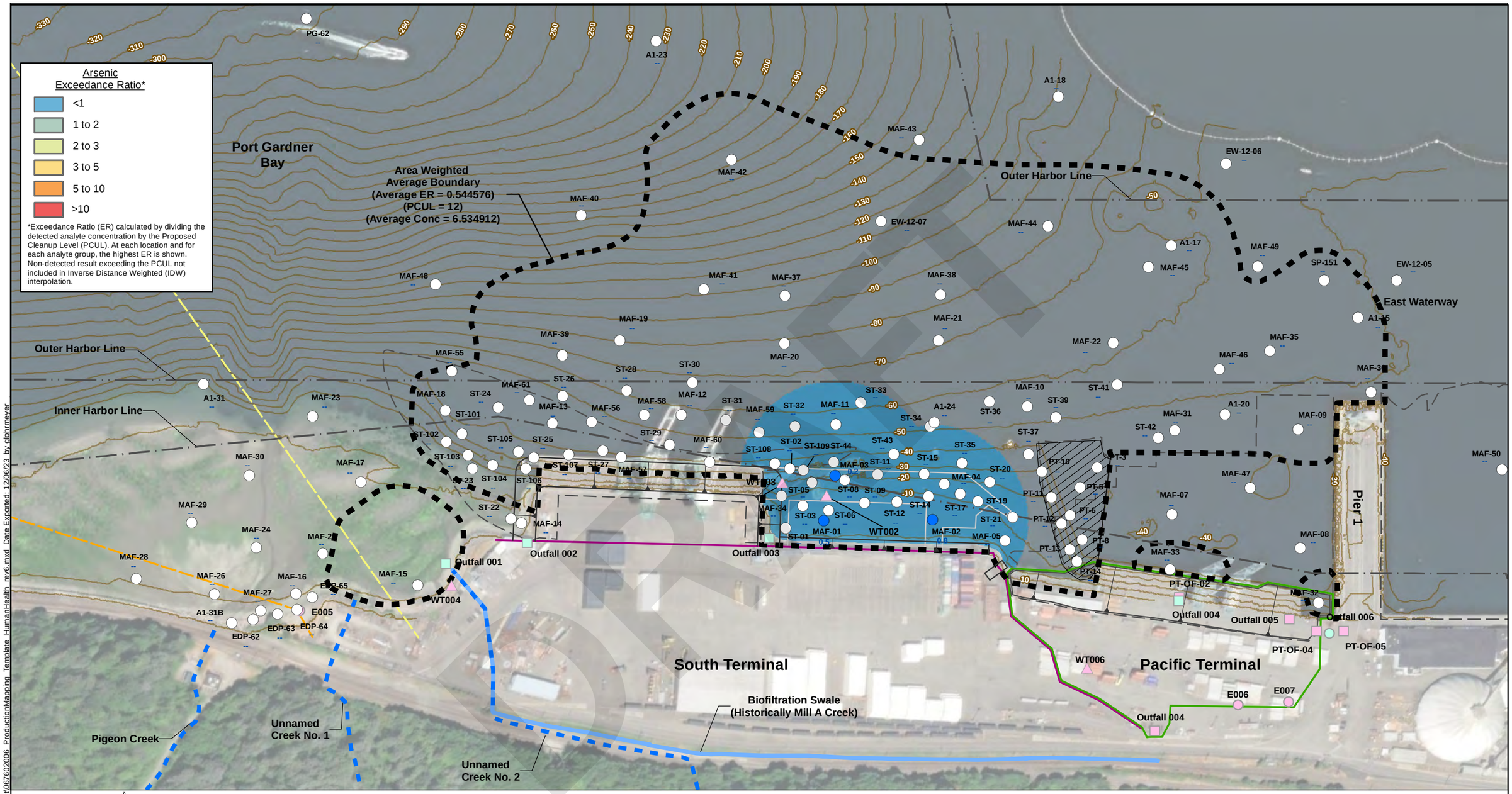
Arsenic Results (Human Health) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-208

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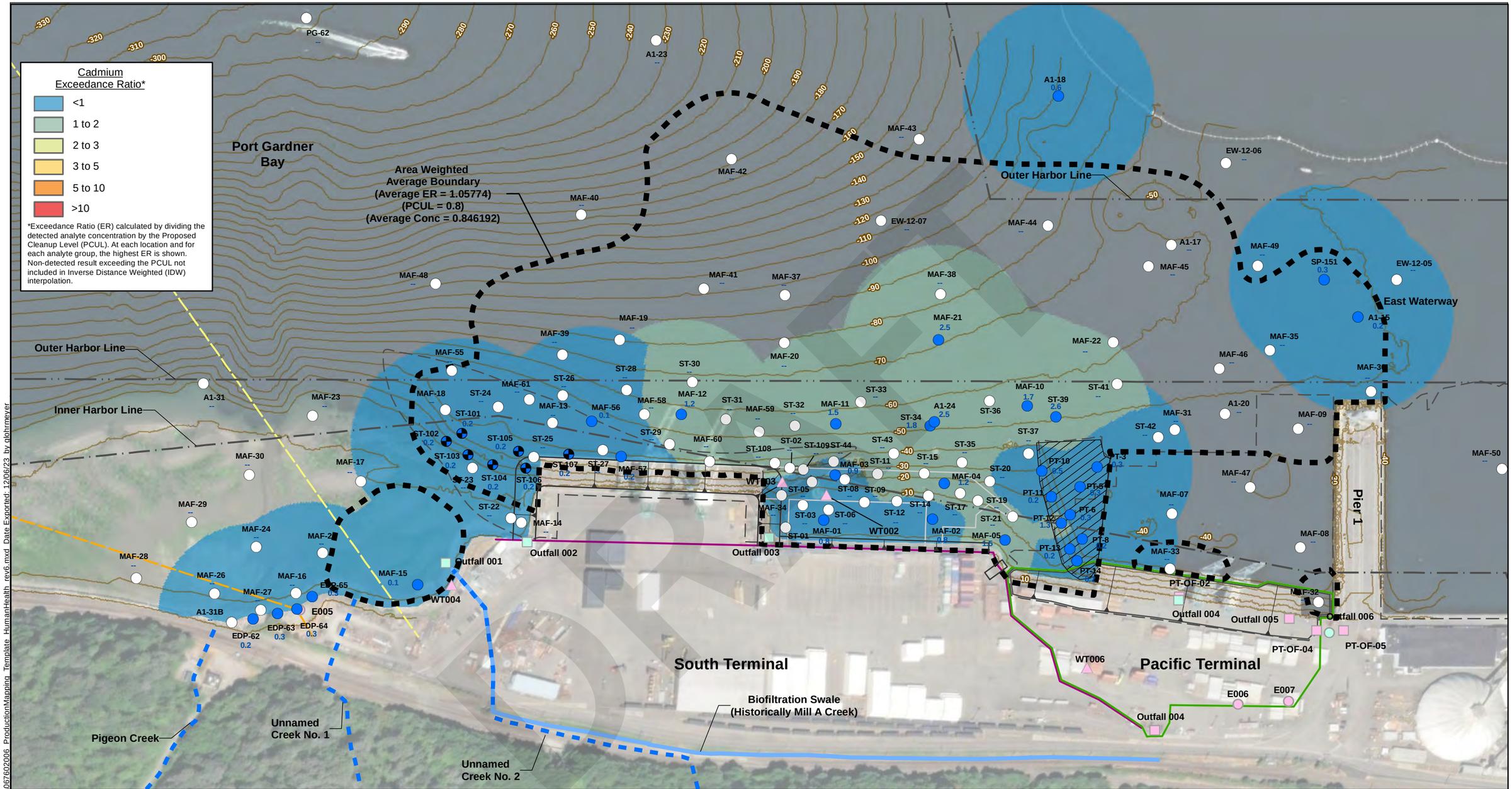
Arsenic Results (Human Health) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-209

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Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

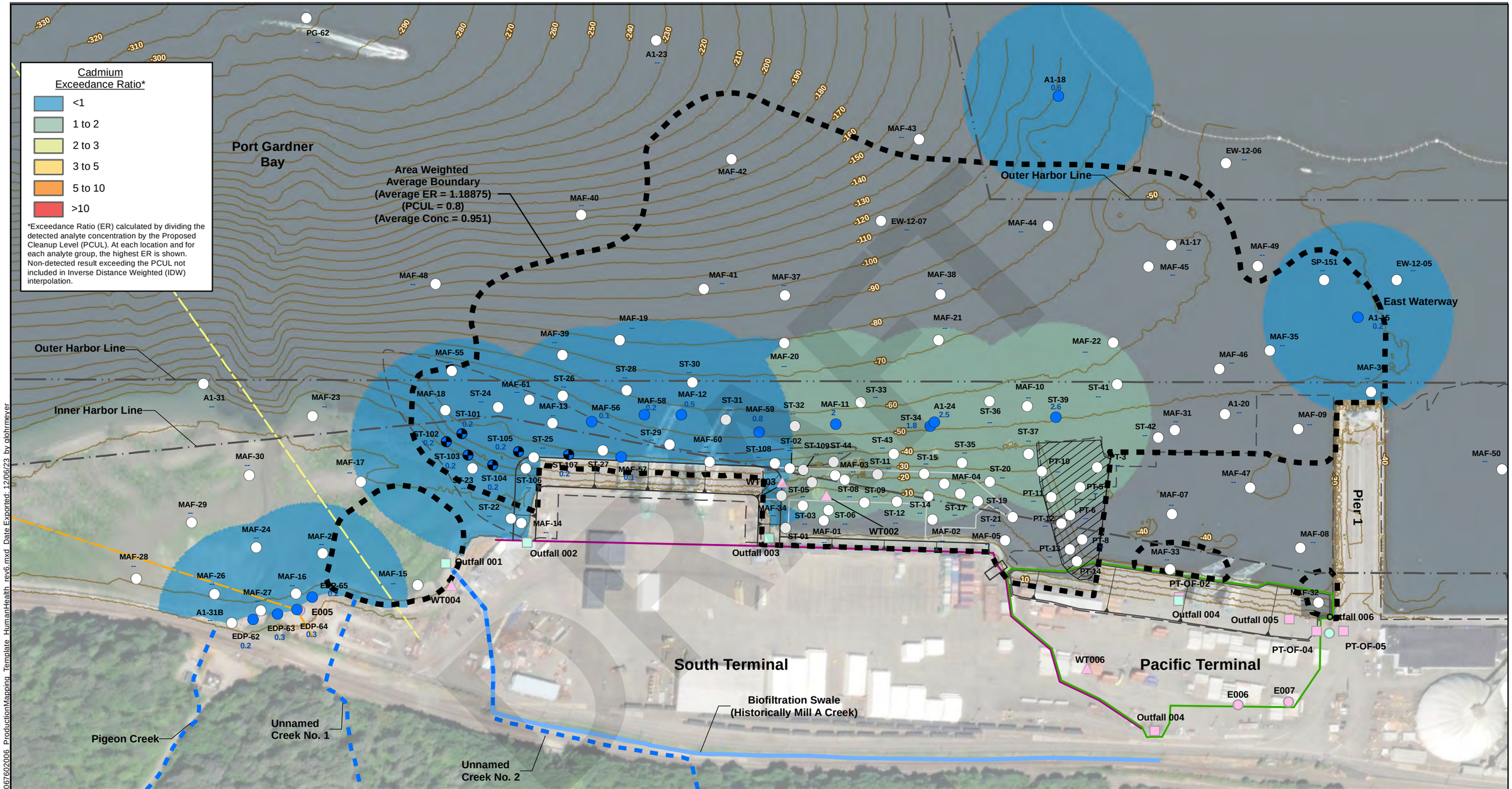
Cadmium Results (Human Health) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former Everett, Washington

GeoEngineers

Figure Q-210

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Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Cadmium Results (Human Health) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-211

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Cadmium
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.850418)
(PCUL = 0.8)
(Average Conc = 0.6803344)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

E005 E006 E007

PT-OF-02 PT-OF-04 PT-OF-05

EDP-62 EDP-63 EDP-64 EDP-65

PG-62 A1-23 A1-18 A1-17 A1-31 A1-31B A1-24 A1-15 A1-20

EW-12-06 EW-12-07 EW-12-05 SP-151

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Cadmium Results (Human Health) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-212

Cadmium
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.74205)
(PCUL = 0.8)
(Average Conc = 0.59364)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 MAF-43 MAF-42 MAF-40 EW-12-06 EW-12-07 MAF-44 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-39 MAF-21 MAF-22 MAF-35 MAF-46 MAF-55 MAF-20 ST-28 ST-30 ST-26 MAF-61 MAF-18 ST-24 MAF-13 MAF-56 MAF-58 MAF-12 ST-31 MAF-59 ST-32 MAF-11 ST-33 ST-34 A1-24 MAF-10 ST-41 ST-39 A1-20 MAF-31 MAF-09 ST-42 ST-36 ST-37 ST-35 ST-43 ST-44 ST-29 MAF-60 ST-02 ST-109 ST-108 ST-101 ST-102 ST-105 ST-25 ST-103 ST-104 ST-106 ST-107 ST-27 MAF-57 ST-23 ST-22 MAF-14 MAF-03 ST-11 ST-15 ST-20 MAF-04 PT-10 PT-3 PT-5 PT-11 MAF-07 MAF-47 MAF-50 ST-05 ST-08 ST-09 ST-19 ST-14 ST-17 MAF-34 ST-03 ST-06 ST-12 ST-21 PT-12 PT-6 ST-01 MAF-01 MAF-02 MAF-05 PT-8 PT-13 PT-14 MAF-33 MAF-08 PT-OF-02 MAF-32 PT-OF-04 PT-OF-05 E006 E007 MAF-30 MAF-17 MAF-29 MAF-24 MAF-28 MAF-26 MAF-27 MAF-16 EDP-65 MAF-15 A1-31 MAF-23 A1-31B EDP-62 EDP-63 EDP-64 E005

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

0.9 0.3 1.8 0.2 0.5 0.2 0.2 0.3 0.2

DRAFT

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300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Cadmium Results (Human Health) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-213

Cadmium
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.526343)
(PCUL = 0.8)
(Average Conc = 0.4210744)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 A1-17 A1-15 A1-31 A1-31B A1-24 A1-20

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14 PT-OF-02 PT-OF-04 PT-OF-05

EW-12-05 EW-12-06 EW-12-07 SP-151 EDP-62 EDP-63 EDP-64 EDP-65 E005 E006 E007

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

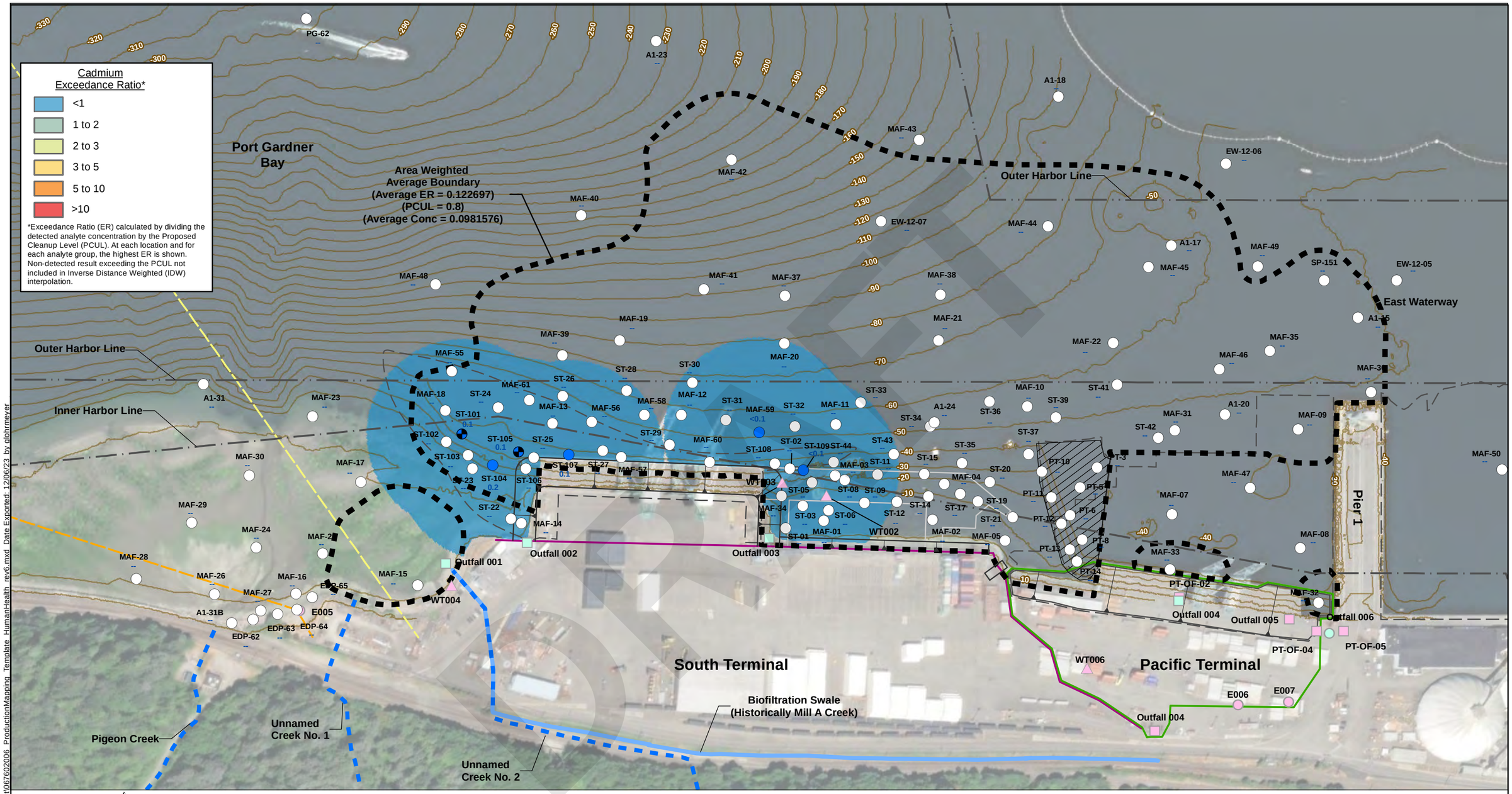
Cadmium Results (Human Health) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-214

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300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Cadmium Results (Human Health) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-215

Cadmium
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.116697)
(PCUL = 0.8)
(Average Conc = 0.0933576)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18

MAF-43

MAF-42

MAF-40

EW-12-06

EW-12-07

MAF-44

A1-17

MAF-49

MAF-45

SP-151

EW-12-05

MAF-48

MAF-41

MAF-37

MAF-38

MAF-19

MAF-39

MAF-21

MAF-20

MAF-22

MAF-35

MAF-46

MAF-55

MAF-61

ST-26

ST-28

ST-30

MAF-18

ST-24

MAF-13

MAF-56

MAF-58

MAF-12

ST-31

MAF-59

ST-32

MAF-11

ST-33

ST-34

A1-24

ST-36

MAF-10

ST-39

ST-41

A1-20

MAF-31

MAF-09

ST-42

A1-31

MAF-23

ST-101

ST-102

ST-105

ST-25

ST-29

MAF-60

ST-108

ST-02

ST-109

ST-44

ST-43

ST-35

ST-37

MAF-30

MAF-17

ST-103

ST-107

ST-27

MAF-57

MAF-03

ST-11

ST-15

ST-20

PT-10

PT-3

MAF-50

MAF-47

ST-23

ST-104

ST-106

ST-05

ST-08

ST-09

MAF-04

PT-11

PT-5

MAF-07

MAF-29

ST-22

MAF-34

ST-03

ST-06

ST-12

ST-14

ST-17

ST-19

PT-6

MAF-14

ST-01

MAF-01

MAF-02

MAF-05

ST-21

PT-12

PT-8

MAF-08

MAF-24

MAF-28

MAF-26

MAF-16

MAF-15

MAF-27

EDP-65

PT-13

PT-14

MAF-33

PT-OF-02

MAF-32

A1-31B

E005

EDP-63

EDP-64

EDP-62

PT-OF-04

PT-OF-05

E006

E007

Outfall 004

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 -50 -40 -40 -50 -40

0.1 <0.1

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Cadmium Results (Human Health) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-216

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Cadmium
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = 0.15) (PCUL = 0.8) (Average Conc = 0.12)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PT-OF-02

PT-OF-04

PT-OF-05

E005

E006

E007

EDP-62

EDP-63

EDP-64

EDP-65

PG-62

A1-23

A1-18

A1-17

A1-15

A1-24

A1-20

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14

-10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190 -200 -210 -220 -230 -240 -250 -260 -270 -280 -290 -300 -310 -320 -330

0.1

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Cadmium Results (Human Health) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former Everett, Washington

GeoEngineers

Figure Q-217

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Cadmium
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = NA) (PCUL = 0.8) (Average Conc = NA)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 A1-17 A1-15 A1-31 A1-31B A1-24 A1-20

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-52 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14 PT-OF-02 PT-OF-04 PT-OF-05

EW-12-05 EW-12-06 EW-12-07 SP-151 EDP-62 EDP-63 EDP-64 EDP-65 E005 E006 E007

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Cadmium Results (Human Health) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-218

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Cadmium
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = NA) (PCUL = 0.8) (Average Conc = NA)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-20, MAF-22, MAF-35, MAF-46, MAF-55, ST-28, ST-30, ST-26, MAF-61, MAF-18, ST-24, MAF-13, MAF-56, MAF-58, MAF-12, ST-31, MAF-59, ST-32, MAF-11, ST-33, ST-34, A1-24, ST-36, MAF-10, ST-39, ST-41, A1-20, MAF-31, MAF-09, ST-42, ST-37, A1-31, MAF-23, ST-101, ST-102, ST-105, ST-25, ST-29, MAF-60, ST-108, ST-02, ST-109, ST-44, ST-43, ST-35, MAF-30, MAF-17, ST-103, ST-107, ST-27, MAF-57, ST-23, ST-104, ST-106, WT003, ST-05, ST-08, ST-09, MAF-03, ST-11, ST-15, ST-20, PT-10, PT-5, MAF-04, MAF-07, MAF-47, MAF-50, MAF-29, ST-22, MAF-14, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-19, PT-11, PT-6, MAF-24, MAF-28, MAF-26, MAF-16, MAF-15, MAF-27, EDP-65, A1-31B, EDP-63, EDP-64, EDP-62, E005, WT004, Outfall 001, Outfall 002, Outfall 003, ST-01, MAF-01, WT002, MAF-02, MAF-05, PT-12, PT-8, PT-13, PT-14, MAF-33, MAF-08, PT-OF-02, MAF-32, Outfall 004, Outfall 005, Outfall 006, PT-OF-04, PT-OF-05, WT006, E006, E007, Outfall 004

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, -40, -40, -50, -40

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

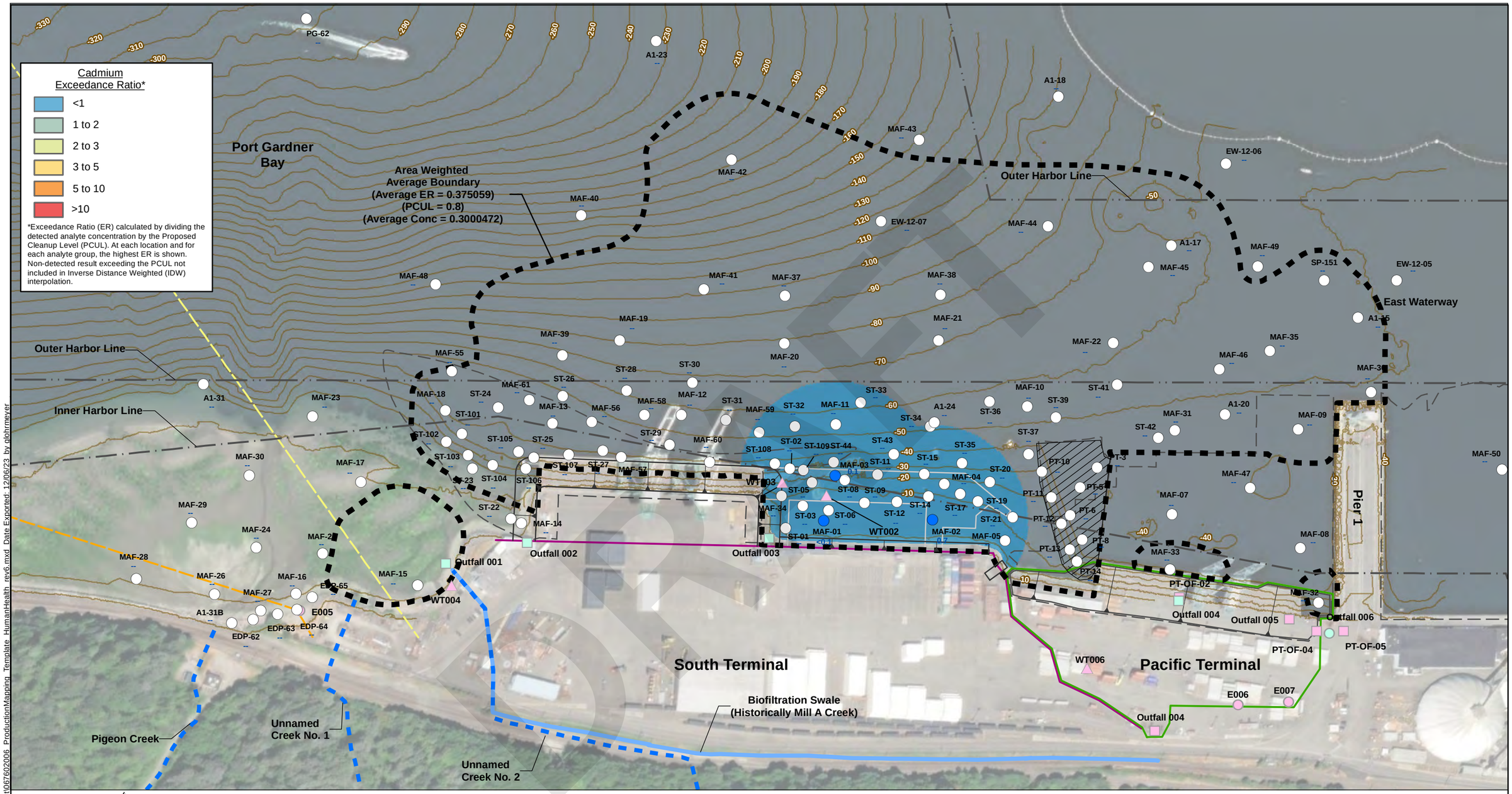
Cadmium Results (Human Health) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-219

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Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

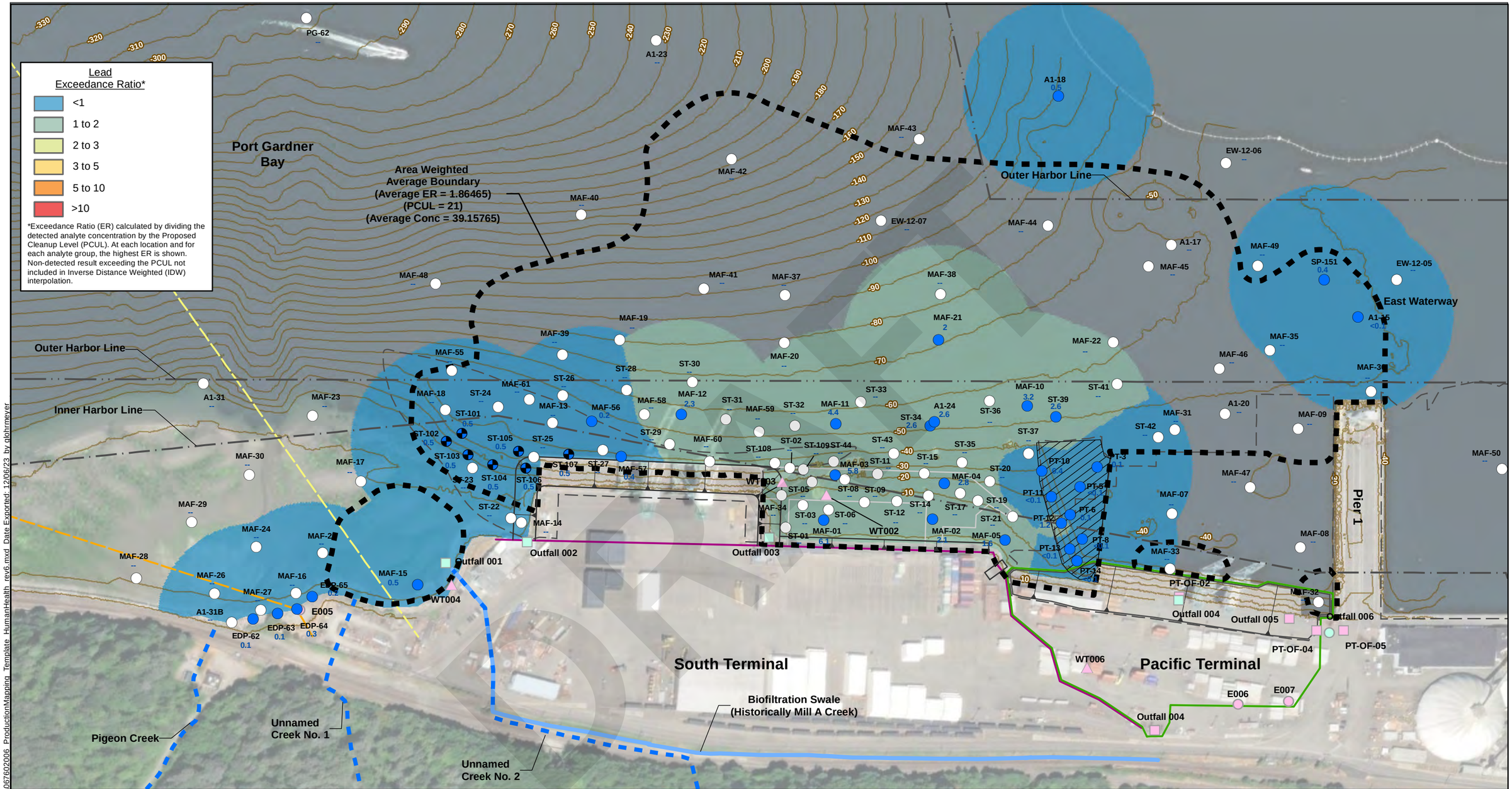
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Cadmium Results (Human Health) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-220



Lead Results (Human Health) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-232

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Lead
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = 1.48389) (PCUL = 21) (Average Conc = 31.16169)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale (Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18 0.5

MAF-43

MAF-42

MAF-40

EW-12-07

EW-12-06

MAF-44

A1-17

MAF-49

MAF-45

SP-151

EW-12-05

A1-16 <0.2

MAF-48

MAF-41

MAF-37

MAF-38

MAF-19

MAF-39

MAF-21

MAF-22

MAF-35

MAF-46

MAF-3

MAF-55

MAF-20

ST-28

ST-30

ST-26

MAF-61

MAF-18

ST-24

MAF-12 0.7

MAF-58 0.4

MAF-56 0.1

MAF-13

ST-31

MAF-59 1.7

ST-32

MAF-11 3

ST-33

MAF-10

ST-41

ST-39 2.6

A1-24 2.6

ST-34 2.6

ST-36

A1-20

MAF-31

MAF-09

ST-42

ST-37

ST-101 0.5

ST-102 0.5

ST-105 0.5

ST-25

ST-29

MAF-60

ST-108

ST-02

ST-109

ST-44

ST-43

ST-35

MAF-50

MAF-30

MAF-17

ST-103 0.5

ST-104 0.5

ST-23

ST-106

ST-107 0.5

ST-27

MAF-57 0.1

MAF-03

ST-11

ST-15

ST-20

PT-10

PT-3

MAF-47

MAF-29

ST-22

ST-05

ST-08

ST-09

MAF-04

PT-11

PT-5

MAF-07

MAF-24

MAF-34

ST-03

ST-06

ST-12

ST-14

ST-17

ST-19

PT-12

PT-6

MAF-14

ST-01

MAF-01

MAF-02

MAF-05

ST-21

PT-13

PT-8

MAF-08

MAF-28

MAF-26

MAF-16

MAF-15

MAF-27

EDP-65 0.1

E005

A1-31B

EDP-62 0.4

EDP-63 0.2

EDP-64 0.3

MAF-33

PT-14

PT-OF-02

MAF-32

PT-OF-04

PT-OF-05

E006

E007

MAF-23

A1-31

MAF-25

MAF-2

MAF-1

MAF-52

MAF-53

MAF-54

MAF-51

MAF-50

MAF-47

MAF-07

MAF-08

MAF-33

MAF-32

MAF-31

MAF-09

MAF-20

MAF-46

MAF-35

MAF-3

MAF-22

MAF-21

MAF-19

MAF-39

MAF-55

MAF-48

MAF-41

MAF-37

MAF-38

MAF-49

MAF-45

MAF-44

EW-12-07

MAF-43

MAF-42

MAF-40

EW-12-06

PG-62

A1-23

A1-18 0.5

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300

Feet

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

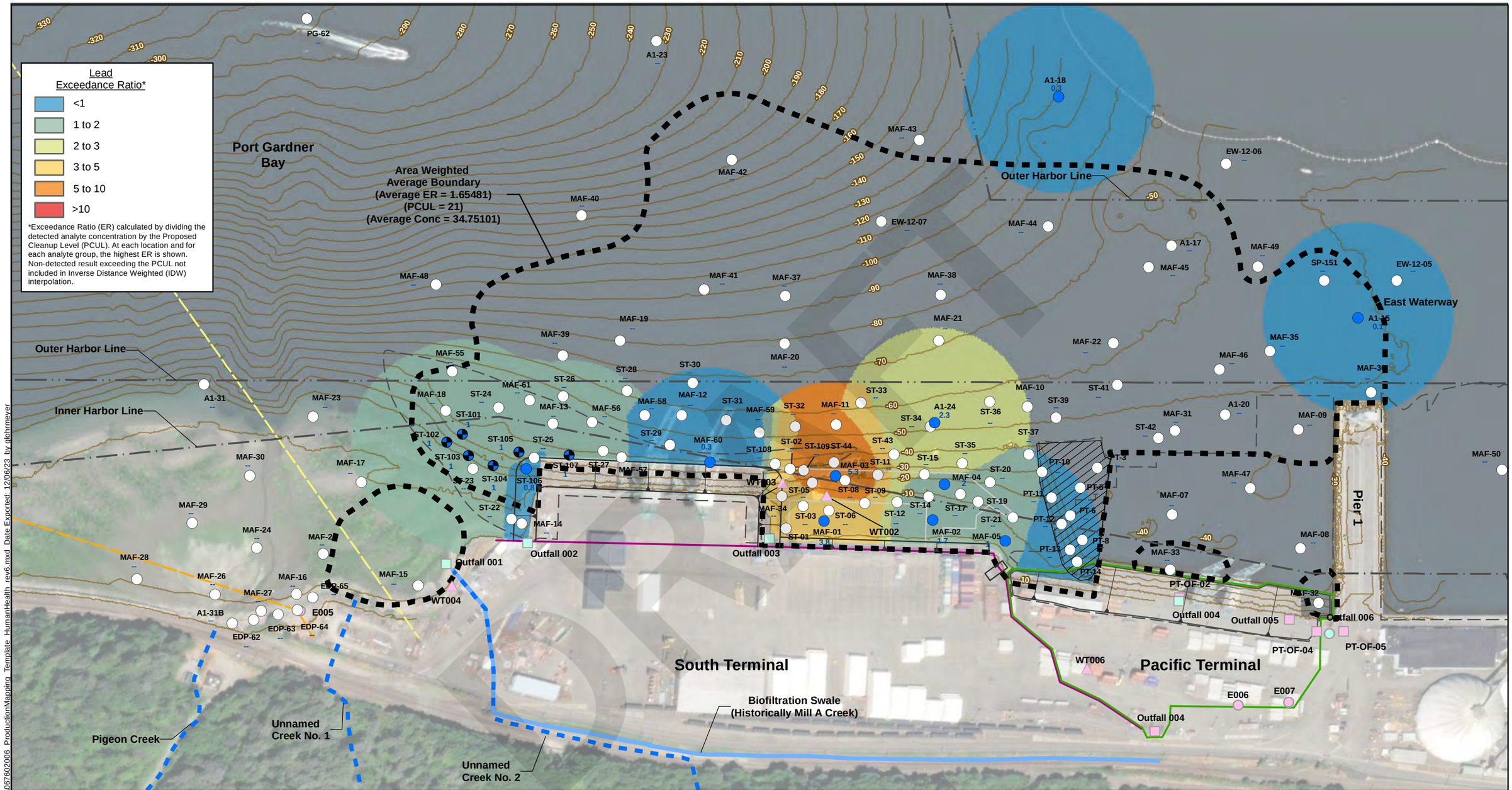
Lead Results (Human Health) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-233

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300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Lead Results (Human Health) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former Everett, Washington

GeoEngineers

Figure Q-234

Lead
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 2.28671)
(PCUL = 21)
(Average Conc = 48.02091)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

E005

E006

E007

PG-62, A1-23, A1-18, A1-17, A1-15, A1-31, A1-31B, A1-24, A1-20, EW-12-06, EW-12-07, EW-12-05, SP-151, MAF-01 through MAF-50, ST-01 through ST-44, PT-1 through PT-14, PT-OF-02, PT-OF-04, PT-OF-05, EDP-62, EDP-63, EDP-64, EDP-65

Notes:

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2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

300 0 300
Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Lead Results (Human Health) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-235

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Lead
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 1.56578)
(PCUL = 21)
(Average Conc = 32.88138)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Unnamed Creek No. 1

Unnamed Creek No. 2

Pigeon Creek

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

E005 E006 E007

PG-62 A1-23 A1-18 A1-17 A1-15 A1-31 A1-31B A1-24 A1-20

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-10 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14 PT-OF-02 PT-OF-04 PT-OF-05

EW-12-05 EW-12-06 EW-12-07 SP-151 EDP-62 EDP-63 EDP-64 EDP-65

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10



Notes:
1. The locations of all features shown are approximate.
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Lead Results (Human Health) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-236

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Lead
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.356022)
(PCUL = 21)
(Average Conc = 7.476462)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18

MAF-43

MAF-42

MAF-40

EW-12-06

EW-12-07

MAF-44

A1-17

MAF-49

MAF-45

SP-151

EW-12-05

MAF-48

MAF-41

MAF-37

MAF-38

MAF-19

MAF-39

MAF-21

MAF-22

MAF-35

MAF-46

MAF-55

MAF-20

ST-28

ST-30

MAF-61

ST-26

MAF-18

ST-24

MAF-13

MAF-56

MAF-58

MAF-12

ST-31

MAF-59

ST-32

MAF-11

ST-33

ST-34

A1-24

ST-36

MAF-10

ST-39

ST-41

A1-20

MAF-31

MAF-09

ST-42

ST-37

MAF-23

A1-31

MAF-30

MAF-17

ST-101

ST-102

ST-103

ST-105

ST-25

ST-29

MAF-60

ST-108

ST-02

ST-109

ST-44

ST-43

ST-35

ST-15

ST-20

MAF-03

ST-11

MAF-04

PT-10

PT-3

MAF-50

MAF-47

ST-107

ST-27

MAF-57

ST-23

ST-104

ST-106

ST-05

ST-08

ST-09

PT-11

PT-5

MAF-07

MAF-29

ST-22

MAF-34

ST-03

ST-06

ST-12

ST-14

ST-17

ST-19

PT-6

MAF-14

ST-01

MAF-01

MAF-02

MAF-05

ST-21

PT-12

MAF-24

MAF-28

MAF-26

MAF-16

MAF-15

MAF-27

EDP-65

EDP-64

EDP-63

EDP-62

A1-31B

E005

PT-13

PT-8

MAF-33

MAF-08

PT-14

PT-OF-02

MAF-32

PT-OF-04

PT-OF-05

E006

E007

WT006

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 -40 -40 -50 -40

0.4 0.4 2.5 <0.1 0.1 0.1

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Lead Results (Human Health) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-237

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Lead
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.25796)
(PCUL = 21)
(Average Conc = 5.41716)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 MAF-43 MAF-42 MAF-40 EW-12-06 EW-12-07 MAF-44 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-39 MAF-21 MAF-20 MAF-22 MAF-35 MAF-46 MAF-55 MAF-61 ST-26 ST-28 ST-30 MAF-18 ST-24 MAF-13 MAF-56 MAF-58 MAF-12 ST-31 MAF-59 ST-32 MAF-11 ST-33 ST-34 A1-24 ST-36 MAF-10 ST-39 ST-41 A1-31 MAF-23 ST-101 ST-102 ST-105 ST-25 ST-29 MAF-60 ST-108 ST-02 ST-109 ST-44 ST-43 ST-35 ST-37 A1-20 MAF-31 ST-42 MAF-09 MAF-30 MAF-17 ST-103 ST-107 ST-27 MAF-57 ST-23 ST-104 ST-106 MAF-03 ST-11 ST-15 ST-20 MAF-04 PT-10 PT-3 MAF-50 MAF-47 PT-5 PT-11 MAF-07 ST-05 ST-08 ST-09 ST-14 ST-17 ST-19 MAF-34 ST-03 ST-06 ST-12 ST-21 PT-12 PT-6 MAF-29 ST-22 MAF-14 MAF-01 MAF-02 MAF-05 PT-8 PT-13 MAF-08 MAF-24 MAF-33 PT-14 MAF-28 MAF-26 MAF-16 MAF-15 EDP-65 MAF-27 PT-OF-02 MAF-32 A1-31B E005 EDP-63 EDP-64 EDP-62 PT-OF-04 PT-OF-05 E006 E007

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Lead Results (Human Health) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-238

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Lead
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.0852381)
(PCUL = 21)
(Average Conc = 1.7900001)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-20, MAF-22, MAF-35, MAF-46, MAF-55, MAF-61, MAF-18, ST-24, ST-26, ST-28, ST-30, MAF-12, MAF-58, ST-31, MAF-59, ST-32, MAF-11, ST-33, A1-24, ST-36, MAF-10, ST-41, ST-39, A1-20, MAF-31, MAF-09, MAF-50, A1-31, MAF-23, MAF-13, MAF-56, ST-101, ST-102, ST-105, ST-25, ST-29, MAF-60, ST-108, ST-02, ST-109, ST-44, ST-43, ST-35, ST-37, ST-42, MAF-30, MAF-17, ST-103, ST-107, ST-27, MAF-57, ST-23, ST-104, ST-106, MAF-03, ST-11, ST-15, ST-20, PT-10, PT-3, MAF-47, MAF-04, PT-5, PT-11, MAF-07, MAF-29, ST-22, MAF-34, ST-05, ST-08, ST-09, ST-19, PT-6, ST-03, ST-06, ST-12, ST-14, ST-17, ST-21, PT-12, MAF-24, MAF-14, ST-01, MAF-01, MAF-02, MAF-05, PT-8, MAF-08, MAF-28, MAF-26, MAF-16, MAF-15, MAF-27, EDP-65, PT-13, MAF-33, PT-14, PT-OF-02, MAF-32, A1-31B, E005, EDP-63, EDP-64, EDP-62, PT-OF-04, PT-OF-05, E006, E007

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 0.1

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Lead Results (Human Health) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-239

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Lead
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = NA) (PCUL = 21) (Average Conc = NA)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-55, MAF-20, MAF-22, MAF-35, MAF-46, MAF-34, A1-31, MAF-23, MAF-18, ST-24, ST-26, MAF-61, MAF-13, MAF-56, MAF-58, ST-28, ST-30, MAF-12, ST-31, MAF-59, ST-32, MAF-11, ST-33, A1-24, ST-36, MAF-10, ST-41, ST-39, A1-20, MAF-31, MAF-09, ST-42, ST-37, ST-101, ST-102, ST-105, ST-25, ST-29, MAF-60, ST-108, ST-02, ST-109, ST-44, ST-43, ST-35, MAF-50, MAF-30, MAF-17, ST-103, ST-107, ST-27, MAF-57, ST-104, ST-106, WT003, MAF-03, ST-11, ST-15, ST-20, PT-10, PT-3, MAF-47, MAF-04, ST-05, ST-08, ST-09, PT-5, PT-11, MAF-07, MAF-29, ST-22, MAF-14, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-19, PT-6, MAF-24, MAF-28, MAF-26, MAF-16, MAF-15, MAF-27, EDP-65, A1-31B, EDP-62, EDP-63, EDP-64, E005, WT004, Outfall 001, Outfall 002, Outfall 003, ST-01, MAF-01, WT002, MAF-02, MAF-05, ST-21, PT-12, PT-8, PT-13, PT-14, MAF-08, MAF-33, PT-OF-02, MAF-32, Outfall 004, Outfall 005, Outfall 006, PT-OF-04, PT-OF-05, WT006, E006, E007, Outfall 004

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, -40, -40, -50, -40

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Lead Results (Human Health) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-240

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Lead
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = NA) (PCUL = 21) (Average Conc = NA)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PT-OF-02 PT-OF-04 PT-OF-05

E005 E006 E007

EDP-62 EDP-63 EDP-64 EDP-65

PG-62 A1-23 A1-18 A1-17 A1-15 A1-31 A1-31B A1-24 A1-20

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-52 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14

EW-12-05 EW-12-06 EW-12-07 SP-151

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10



Notes:
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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Lead Results (Human Health) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-241

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Lead
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.136167)
(PCUL = 21)
(Average Conc = 2.859507)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 MAF-43 MAF-42 MAF-40 EW-12-06 EW-12-07 MAF-44 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 A1-15 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-39 MAF-21 MAF-22 MAF-35 MAF-46 MAF-55 MAF-20 MAF-3 A1-31 MAF-23 MAF-61 ST-26 ST-28 ST-30 MAF-18 ST-24 MAF-13 MAF-56 MAF-58 MAF-12 ST-31 MAF-59 ST-32 MAF-11 ST-33 MAF-10 ST-41 ST-39 A1-24 ST-36 A1-20 MAF-31 MAF-09 ST-42 ST-101 ST-102 ST-105 ST-25 ST-29 MAF-60 ST-108 ST-02 ST-109 ST-44 ST-43 ST-35 ST-37 MAF-50 MAF-30 ST-103 ST-107 ST-27 MAF-57 MAF-03 ST-11 ST-15 ST-20 PT-10 T-3 MAF-17 ST-23 ST-104 ST-106 ST-05 ST-08 ST-09 MAF-04 PT-11 PT-5 MAF-47 MAF-29 ST-22 MAF-34 ST-03 ST-06 ST-12 ST-14 ST-17 ST-19 PT-6 MAF-07 MAF-14 MAF-01 MAF-02 MAF-05 ST-01 ST-21 PT-12 MAF-24 MAF-28 MAF-26 MAF-16 MAF-15 MAF-27 EDP-65 A1-31B EDP-63 EDP-64 EDP-62 E005 PT-13 PT-8 PT-14 MAF-33 MAF-08 PT-OF-02 MAF-32 PT-OF-04 PT-OF-05 WT006 E006 E007

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
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- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Lead Results (Human Health) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-242

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Mercury
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.606154)
(PCUL = 0.2)
(Average Conc = 0.1212308)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

PG-62 -- | A1-23 -- | A1-18 0.6 | MAF-43 -- | MAF-42 -- | MAF-40 -- | EW-12-06 -- | EW-12-07 -- | MAF-44 -- | A1-17 -- | MAF-49 -- | MAF-45 -- | SP-151 0.3 | EW-12-05 -- | A1-15 0.3 | MAF-48 -- | MAF-41 -- | MAF-37 -- | MAF-38 -- | MAF-19 -- | MAF-21 1.2 | MAF-39 -- | MAF-20 -- | MAF-22 -- | MAF-35 -- | MAF-46 -- | MAF-3 -- | MAF-55 -- | ST-28 -- | ST-30 -- | A1-31 -- | MAF-23 -- | MAF-61 -- | ST-26 -- | MAF-18 -- | ST-24 -- | MAF-58 -- | MAF-12 0.7 | ST-31 -- | MAF-10 0.8 | ST-39 -- | ST-41 -- | ST-33 -- | MAF-13 -- | MAF-56 0.1 | MAF-59 -- | ST-32 -- | MAF-11 0.7 | A1-24 1.5 | ST-36 -- | A1-20 -- | MAF-31 -- | ST-101 0.1 | ST-34 -- | ST-42 -- | MAF-09 -- | ST-102 0.1 | ST-29 -- | MAF-60 -- | ST-02 -- | ST-109 -- | ST-44 -- | ST-43 -- | ST-37 -- | ST-105 0.1 | ST-25 -- | ST-108 -- | ST-35 -- | MAF-50 -- | MAF-30 -- | MAF-17 -- | ST-103 0.1 | ST-107 0.1 | ST-27 -- | MAF-57 0.1 | MAF-03 1.5 | ST-11 -- | ST-15 -- | PT-10 0.4 | PT-3 0.1 | MAF-47 -- | ST-23 -- | ST-104 0.1 | ST-106 0.1 | WT003 | ST-05 -- | ST-08 -- | ST-09 -- | MAF-04 1.4 | ST-20 -- | PT-11 <0.1 | PT-5 <0.1 | MAF-07 -- | MAF-29 -- | ST-22 -- | MAF-34 -- | ST-03 -- | ST-06 -- | ST-12 -- | ST-14 -- | ST-17 -- | ST-19 -- | PT-12 0.5 | PT-6 <0.1 | MAF-24 -- | MAF-14 -- | MAF-01 -- | WT002 | MAF-02 0.1 | ST-21 -- | MAF-05 0.9 | PT-13 <0.1 | PT-8 0.1 | MAF-08 -- | MAF-28 -- | MAF-33 -- | MAF-26 -- | MAF-16 -- | MAF-15 0.2 | EDP-65 <0.1 | MAF-27 -- | PT-14 -- | PT-OF-02 | MAF-32 -- | A1-31B -- | E005 | EDP-63 0.2 | EDP-64 <0.1 | EDP-62 <0.1 | WT004 | WT006 | PT-OF-04 | PT-OF-05 | E006 | E007

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification / Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Mercury Results (Human Health)
Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-232

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Mercury
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.685503)
(PCUL = 0.2)
(Average Conc = 0.1371006)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18 0.6

A1-17

A1-15 0.3

A1-31

A1-31B

A1-24 1.5

A1-20

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 1.22

MAF-02

MAF-03

MAF-04

MAF-05

MAF-06

MAF-07

MAF-08

MAF-09

MAF-10

MAF-11 1.1

MAF-12 0.4

MAF-13

MAF-14

MAF-15

MAF-16

MAF-17

MAF-18

MAF-19

MAF-20

MAF-21

MAF-22

MAF-23

MAF-24

MAF-25

MAF-26

MAF-27

MAF-28

MAF-29

MAF-30

MAF-31

MAF-32

MAF-33

MAF-34

MAF-35

MAF-36

MAF-37

MAF-38

MAF-39

MAF-40

MAF-41

MAF-42

MAF-43

MAF-44

MAF-45

MAF-46

MAF-47

MAF-48

MAF-49

MAF-50

MAF-55

MAF-56 <0.1

MAF-57 <0.1

MAF-58 0.3

MAF-59 1.1

MAF-60

MAF-61

ST-01

ST-02

ST-03

ST-05

ST-06

ST-08

ST-09

ST-11

ST-12

ST-14

ST-15

ST-17

ST-19

ST-20

ST-21

ST-22

ST-23

ST-24

ST-25

ST-26

ST-27

ST-28

ST-29

ST-30

ST-31

ST-32

ST-33

ST-34

ST-35

ST-36

ST-37

ST-39

ST-41

ST-42

ST-43

ST-44

ST-101 0.1

ST-102 0.1

ST-103 0.1

ST-104 0.1

ST-105 0.1

ST-106

ST-107 0.1

ST-108

ST-109

PT-3

PT-5

PT-6

PT-8

PT-10

PT-11

PT-12

PT-13

PT-14

PT-OF-02

PT-OF-04

PT-OF-05

E005

E006

E007

EDP-62 <0.1

EDP-63 0.1

EDP-64 <0.1

EDP-65 <0.1

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 -50 -40 -40 -10 -40 -50 -40 -30 -20 -10 -40 -40 -10 -50 -40 -30 -20 -10 -40 -40 -10

300 0 300
Feet

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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Mercury Results (Human Health) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-233

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Mercury
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.668669)
(PCUL = 0.2)
(Average Conc = 0.1337338)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

E005 E006 E007

PT-OF-02 PT-OF-04 PT-OF-05

EDP-62 EDP-63 EDP-64 EDP-65

PG-62 A1-23 A1-18 A1-17 A1-15 A1-24 A1-31 A1-31B

SP-151 EW-12-05 EW-12-06 EW-12-07

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14



Notes:
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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Mercury Results (Human Health)
Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-234

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Mercury
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = 38.3145) (PCUL = 0.2) (Average Conc = 7.6629)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 A1-17 A1-15 A1-24 A1-31 A1-31B A1-20

EW-12-06 EW-12-07 EW-12-05 SP-151

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14 PT-OF-02 PT-OF-04 PT-OF-05

EDP-62 EDP-63 EDP-64 EDP-65 E005 E006 E007

MAF-59 192.5

ST-101 0.3

ST-102 0.5

ST-103 0.3

ST-104 0.3

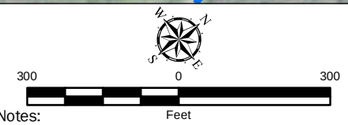
ST-105 0.3

ST-106 0.2

ST-108 2.5

ST-109 2.5

MAF-11 1.3



300 0 300

Feet

Notes:

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Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Mercury Results (Human Health) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-235

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Mercury
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.532807)
(PCUL = 0.2)
(Average Conc = 0.1065614)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006

WT002
WT003
WT004
WT006

E005
E006
E007

PT-OF-02
PT-OF-04
PT-OF-05

PG-62, A1-23, A1-18, A1-17, A1-15, A1-31, A1-31B, A1-24, A1-20, MAF-01 through MAF-61, ST-01 through ST-44, EW-12-05, EW-12-06, EW-12-07, SP-151, EDP-62, EDP-63, EDP-64, EDP-65, PT-3, PT-5, PT-6, PT-8, PT-10, PT-11, PT-12, PT-13, PT-14

0.1 0.4 <0.1 1.4 0.7 1.22

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 -50 -40 -40 -40 -30 -20 -10

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Mercury Results (Human Health) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-236

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Mercury
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.11509)
(PCUL = 0.2)
(Average Conc = 0.023018)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

E005 E006 E007

PT-OF-02 PT-OF-04 PT-OF-05

EDP-62 EDP-63 EDP-64 EDP-65

PG-62 A1-23 A1-18 A1-17 A1-15 A1-31 A1-31B A1-24 A1-20

EW-12-06 EW-12-07 EW-12-05 SP-151

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14

<0.1 0.1 0.7 1.22

-10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190 -200 -210 -220 -230 -240 -250 -260 -270 -280 -290 -300 -310 -320 -330

Date Exported: 12/06/23 by olohrmeyer

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300 0 300
Feet

Notes:
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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Mercury Results (Human Health) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-237

Mercury
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.0753248)
(PCUL = 0.2)
(Average Conc = 0.01506496)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

E005

E006

E007

PT-OF-02

PT-OF-04

PT-OF-05

PG-62

A1-23

A1-18

A1-17

A1-15

A1-31

A1-31B

A1-24

A1-20

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14

EDP-62 EDP-63 EDP-64 EDP-65

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 -50 -40 -40 -10 -40 -50

0.1 <0.1 1.22

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Mercury Results (Human Health)
Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-238

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Mercury
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = 0.0685) (PCUL = 0.2) (Average Conc = 0.0137)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62, A1-23, A1-18, MAF-43, EW-12-06, MAF-42, MAF-40, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-22, MAF-35, MAF-46, MAF-20, MAF-55, ST-28, ST-30, ST-26, MAF-61, MAF-18, ST-24, MAF-12, MAF-10, ST-41, ST-39, A1-31, MAF-23, MAF-13, MAF-56, MAF-58, ST-31, MAF-59, ST-32, MAF-11, ST-33, A1-24, ST-36, A1-20, MAF-31, MAF-09, ST-101, ST-102, ST-105, ST-25, ST-29, MAF-60, ST-108, ST-02, ST-109, ST-44, ST-43, ST-35, ST-37, ST-42, MAF-30, MAF-17, ST-103, ST-107, ST-27, MAF-57, ST-23, ST-104, ST-106, ST-11, ST-15, MAF-03, ST-20, MAF-04, PT-10, PT-3, MAF-50, MAF-47, PT-5, PT-11, MAF-07, ST-05, ST-08, ST-09, ST-19, MAF-29, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-21, PT-6, PT-12, MAF-24, MAF-14, ST-22, ST-01, MAF-01, MAF-02, MAF-05, PT-8, PT-13, MAF-08, MAF-28, MAF-26, MAF-16, MAF-15, EDP-65, MAF-27, MAF-33, PT-14, PT-OF-02, MAF-32, A1-31B, E005, EDP-63, EDP-64, EDP-62, Outfall 004, Outfall 005, Outfall 006, PT-OF-04, PT-OF-05, WT006, E006, E007, Outfall 004

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300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Mercury Results (Human Health) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-239

Mercury
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = NA) (PCUL = 0.2) (Average Conc = NA)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PT-OF-02 PT-OF-04 PT-OF-05

E005 E006 E007

EDP-62 EDP-63 EDP-64 EDP-65

PG-62 A1-23 A1-18 A1-17 A1-15 A1-31 A1-31B A1-24 A1-20

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-52 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14

EW-12-05 EW-12-06 EW-12-07 SP-151

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 -50

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N W E S

300 0 300

Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Mercury Results (Human Health) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-240

Mercury
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = NA) (PCUL = 0.2) (Average Conc = NA)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PT-OF-02 PT-OF-04 PT-OF-05

E005 E006 E007

EDP-62 EDP-63 EDP-64 EDP-65

PG-62 A1-23 A1-18 A1-17 A1-15 A1-31 A1-31B A1-24 A1-20

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14

EW-12-05 EW-12-06 EW-12-07 SP-151

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 -50

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N W E S

300 0 300

Feet

Notes:
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2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Mercury Results (Human Health) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-241

Mercury
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.0823599)
(PCUL = 0.2)
(Average Conc = 0.01647198)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 MAF-43 MAF-42 MAF-40 EW-12-06 EW-12-07 MAF-44 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 A1-15 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-39 MAF-21 MAF-22 MAF-35 MAF-46 MAF-55 MAF-20 MAF-31 A1-31 MAF-23 MAF-61 ST-26 ST-28 ST-30 MAF-18 ST-24 MAF-13 MAF-56 MAF-58 MAF-12 ST-31 MAF-59 ST-32 MAF-11 ST-33 MAF-10 ST-41 ST-39 A1-24 ST-36 A1-20 MAF-09 ST-42 ST-37 ST-101 ST-102 ST-105 ST-25 ST-29 MAF-60 ST-108 ST-02 ST-109 ST-44 ST-43 ST-35 PT-10 T-3 MAF-50 ST-103 ST-107 ST-27 MAF-57 MAF-03 ST-11 ST-15 ST-20 MAF-04 MAF-47 MAF-30 MAF-17 ST-23 ST-104 ST-106 ST-05 ST-08 ST-09 PT-11 PT-5 MAF-07 MAF-29 ST-22 MAF-34 ST-03 ST-06 ST-12 ST-14 ST-17 ST-19 PT-6 MAF-14 MAF-01 MAF-02 MAF-05 ST-21 PT-12 MAF-24 MAF-28 MAF-26 MAF-16 MAF-15 EDP-65 MAF-27 MAF-33 MAF-08 PT-13 PT-8 PT-14 PT-OF-02 MAF-32 A1-31B E005 EDP-63 EDP-64 EDP-62 PT-OF-04 PT-OF-05 E006 E007

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

300 0 300
Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Mercury Results (Human Health) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-242

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Total cPAH
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 4.64831)
(PCUL = 0.056)
(Average Conc = 0.26030536)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62 A1-23 A1-18 MAF-43 MAF-42 EW-12-06 MAF-40 EW-12-07 MAF-44 A1-17 MAF-49 SP-151 2.4 MAF-45 EW-12-05 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-21 1.7 MAF-39 MAF-20 0.9 MAF-22 MAF-55 MAF-35 MAF-46 MAF-36 A1-15 0.2 A1-31 MAF-23 MAF-61 ST-26 ST-28 ST-30 MAF-18 ST-24 MAF-12 2.8 ST-31 MAF-10 5.6 ST-39 3.8 ST-41 MAF-13 MAF-56 0.3 MAF-58 MAF-59 ST-32 MAF-11 14.5 ST-33 A1-24 2.1 ST-34 10.8 ST-36 A1-20 MAF-31 MAF-09 ST-101 0.9 ST-102 0.9 ST-29 MAF-60 ST-37 ST-42 ST-105 0.9 ST-25 ST-02 ST-109 ST-44 ST-43 ST-35 MAF-50 MAF-30 ST-103 0.9 ST-108 ST-15 MAF-03 2.5 ST-11 MAF-17 ST-107 0.9 ST-27 MAF-57 ST-20 PT-10 1.2 T-3 0.1 MAF-47 ST-23 ST-104 0.9 ST-106 0.9 MAF-04 0.2 ST-05 ST-08 ST-09 PT-11 <0.1 PT-5 <0.1 MAF-07 MAF-29 ST-22 MAF-14 MAF-34 ST-03 ST-06 ST-12 ST-14 ST-17 ST-19 ST-21 PT-12 1.2 PT-6 <0.1 MAF-24 MAF-02 0.4 MAF-05 5.5 PT-13 <0.1 PT-8 <0.1 MAF-08 MAF-28 MAF-26 MAF-16 MAF-15 1.3 EDP-65 MAF-27 MAF-01 4.7 MAF-33 PT-14 PT-OF-02 MAF-32 A1-31B E005 EDP-63 EDP-64 EDP-62 Outfall 004 Outfall 005 Outfall 006 PT-OF-04 PT-OF-05 WT006 E006 E007 Outfall 004

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

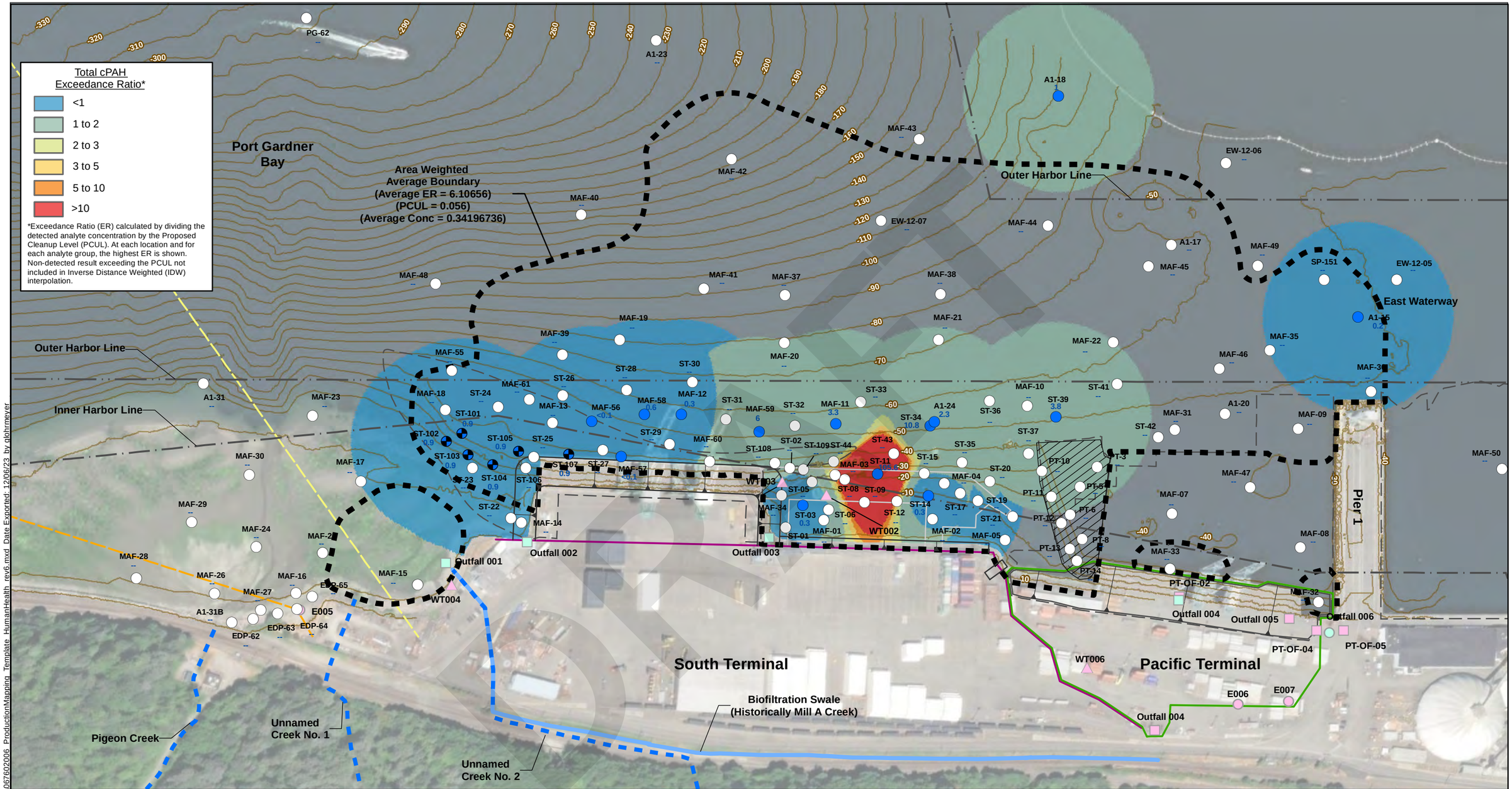
Total cPAH Results (Human Health) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-243

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Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

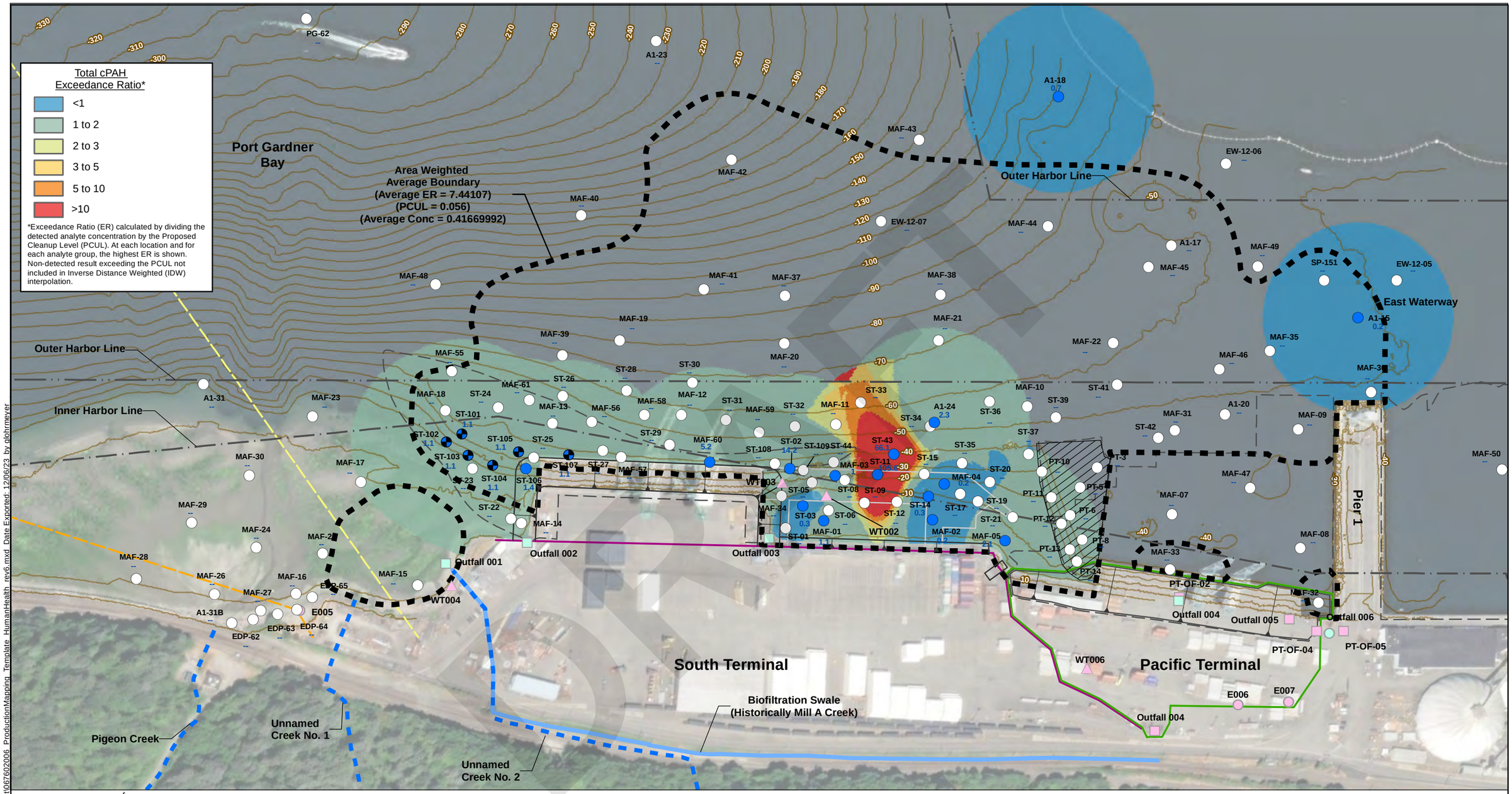
Total cPAH Results (Human Health) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-244

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Notes:

1. The locations of all features shown are approximate.
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total cPAH Results (Human Health) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-245

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Total cPAH
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 13.4218)
(PCUL = 0.056)
(Average Conc = 0.7516208)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, A1-15, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-22, MAF-35, MAF-46, MAF-55, ST-28, ST-30, MAF-20, MAF-61, ST-26, MAF-18, ST-24, MAF-12, MAF-10 1.1, ST-41, ST-39, A1-31, MAF-23, MAF-13, MAF-56, MAF-58, ST-31, MAF-59 0.8, ST-32, MAF-11 0.2, ST-33, A1-24, ST-34, ST-36, A1-20, MAF-31, MAF-09, ST-42, ST-37, ST-101 0.9, ST-102 0.7, ST-105 0.9, ST-25, ST-29, MAF-60, ST-02, ST-109 6, ST-108 6, ST-44, ST-43 66.1, ST-11 25.5, ST-35, MAF-50, MAF-30, MAF-17, ST-103 0.9, ST-104 0.9, ST-106 1.8, ST-107, ST-27, MAF-57, ST-23, ST-22, MAF-03, ST-15, ST-20, PT-10, PT-3, MAF-47, MAF-04, WT003, ST-05, ST-08 0.4, ST-09, ST-14, ST-17, ST-19, PT-11, PT-5, MAF-07, MAF-29, MAF-24, MAF-34, ST-03 0.3, ST-06, ST-12, PT-6, PT-12, ST-21, MAF-14, MAF-01, WT002, MAF-02, MAF-05, PT-8, MAF-08, MAF-28, MAF-26, MAF-16, MAF-15, EDP-65, MAF-27, MAF-33, PT-13, PT-14, PT-OF-02, MAF-32, A1-31B, E005, EDP-63, EDP-64, EDP-62, Outfall 004, Outfall 005, Outfall 006, PT-OF-04, PT-OF-05, WT006, E006, E007, Outfall 004

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

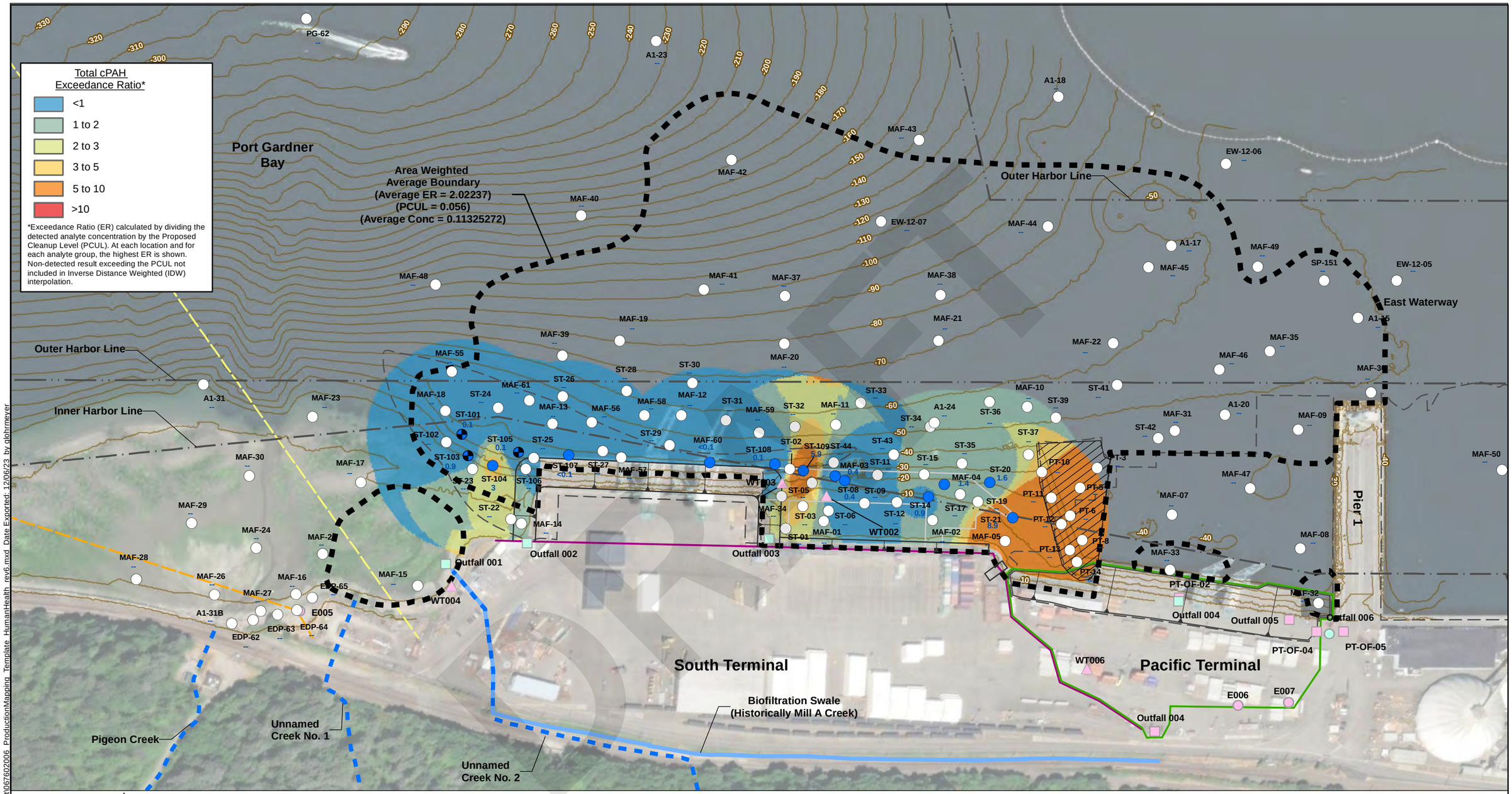
Total cPAH Results (Human Health)
Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-246

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Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total cPAH Results (Human Health) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-247

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Total cPAH
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 1.73236)
(PCUL = 0.056)
(Average Conc = 0.09701216)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

E005 E006 E007

PT-OF-02 PT-OF-04 PT-OF-05

MAF-01 1.22 Sample Location Identification Result

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

300 0 300
Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

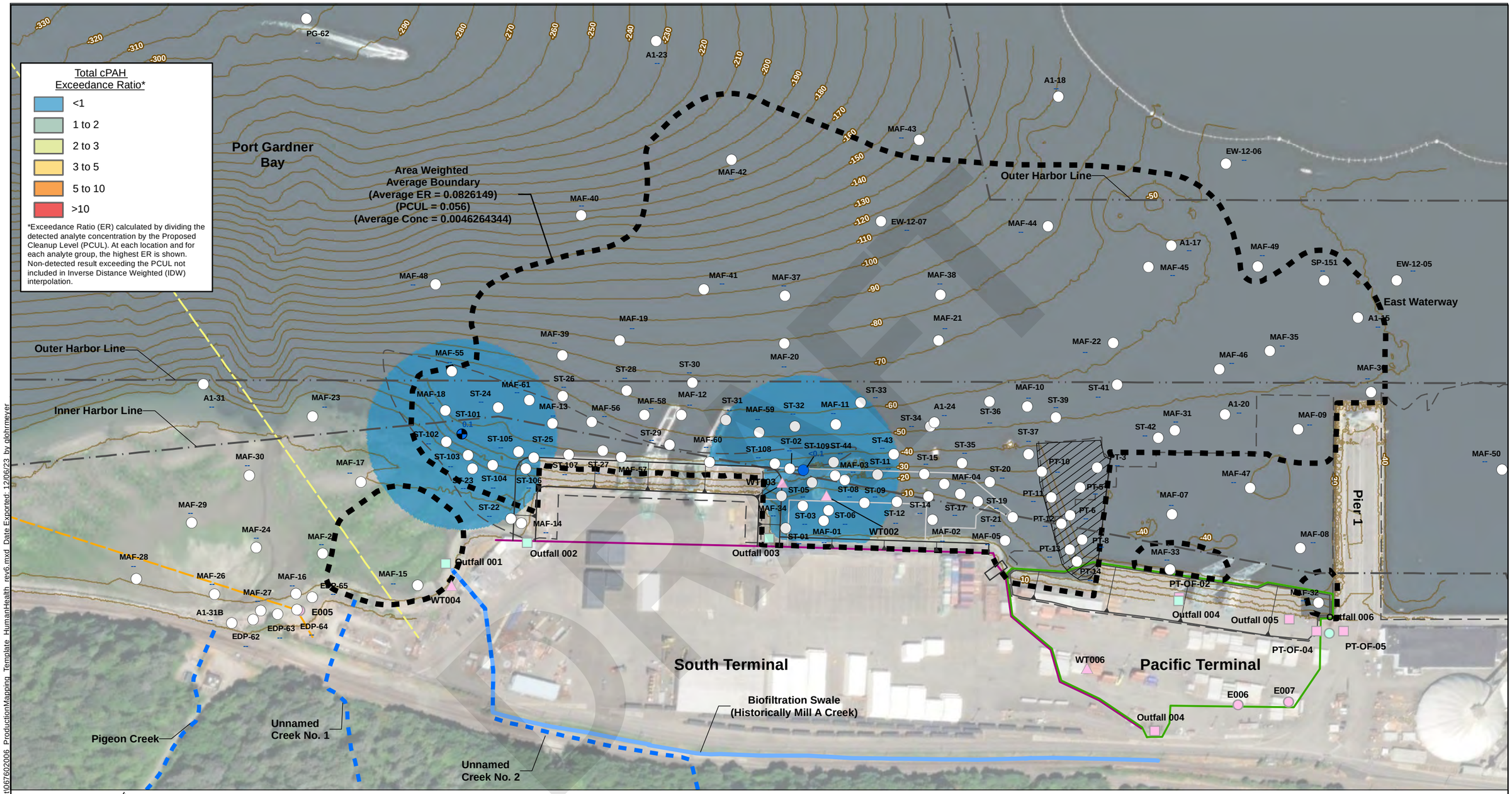
Total cPAH Results (Human Health)
Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-248

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Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total cPAH Results (Human Health) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-249

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Total cPAH
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 3.44447)
(PCUL = 0.056)
(Average Conc = 0.19289032)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, A1-15, MAF-22, MAF-35, MAF-46, MAF-20, MAF-55, MAF-61, MAF-18, ST-24, ST-26, ST-28, ST-30, MAF-12, MAF-58, ST-31, MAF-59, ST-32, MAF-11, ST-33, MAF-10, ST-41, ST-39, A1-24, ST-36, A1-31, MAF-23, MAF-13, MAF-56, ST-34, A1-20, MAF-31, MAF-09, ST-42, ST-29, MAF-60, ST-02, ST-109, ST-44, ST-108, ST-43, ST-35, ST-37, MAF-50, MAF-30, MAF-17, ST-101, ST-102, ST-105, ST-25, ST-103, ST-107, ST-27, MAF-57, ST-23, ST-104, ST-106, MAF-03, ST-11, ST-15, ST-20, MAF-04, PT-10, PT-3, PT-5, MAF-47, MAF-07, ST-05, ST-08, ST-09, PT-11, MAF-29, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-19, ST-21, PT-12, PT-6, ST-22, MAF-14, ST-01, MAF-01, MAF-02, MAF-05, PT-13, PT-8, MAF-08, MAF-24, MAF-25, MAF-33, PT-14, MAF-28, MAF-26, MAF-16, EDP-65, MAF-15, MAF-27, MAF-32, PT-OF-02, A1-31B, E005, EDP-63, EDP-64, EDP-62, PT-OF-04, PT-OF-05, E006, E007

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Total cPAH Results (Human Health) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-250

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Total cPAH
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.0625)
(PCUL = 0.056)
(Average Conc = 0.0035)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-20, MAF-22, MAF-35, MAF-46, MAF-55, ST-28, ST-30, MAF-61, ST-26, MAF-18, ST-24, MAF-12, MAF-10, ST-41, ST-39, A1-31, MAF-23, MAF-13, MAF-56, MAF-58, ST-31, MAF-59, ST-32, MAF-11, ST-33, A1-24, ST-36, ST-34, A1-20, MAF-31, MAF-09, ST-42, ST-101, ST-102, ST-105, ST-25, ST-29, MAF-60, ST-108, ST-02, ST-109, ST-44, ST-43, ST-35, ST-37, MAF-50, MAF-30, ST-103, ST-107, ST-27, MAF-57, MAF-03, ST-11, ST-15, ST-20, PT-10, PT-3, MAF-17, ST-23, ST-104, ST-106, ST-05, ST-08, ST-09, MAF-04, PT-5, MAF-47, PT-11, MAF-07, MAF-29, ST-22, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-19, PT-6, MAF-14, ST-01, MAF-01, MAF-02, MAF-05, ST-21, PT-12, MAF-24, MAF-28, MAF-26, MAF-16, MAF-15, EDP-65, MAF-27, E005, A1-31B, EDP-63, EDP-64, EDP-62, PT-13, PT-8, MAF-33, MAF-08, PT-14, PT-OF-02, MAF-32, PT-OF-04, PT-OF-05, E006, E007

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300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total cPAH Results (Human Health) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-251

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Total cPAH
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.0662816)
(PCUL = 0.056)
(Average Conc = 0.0037117696)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001

WT002

WT003

WT004

WT006

PT-OF-02

PT-OF-04

PT-OF-05

E005

E006

E007

EDP-62

EDP-63

EDP-64

EDP-65

PG-62

A1-23

A1-18

A1-17

A1-15

A1-24

A1-20

A1-31

A1-31B

MAF-01 through MAF-61

ST-01 through ST-44

PT-3 through PT-14

EW-12-05

EW-12-06

EW-12-07

SP-151

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 -40 -40 -50

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total cPAH Results (Human Health) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-252

P:\0067602G\GIS\MXD\MarineArea_RI_Report\0676020G6_ProductionMapping_Template_HumanHealth_rev6.mxd Date Exported: 12/06/23 by olohrmeyer

Total cPAH
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.282493)
(PCUL = 0.056)
(Average Conc = 0.015819608)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 A1-17 A1-15 A1-31 A1-31B A1-24 A1-20

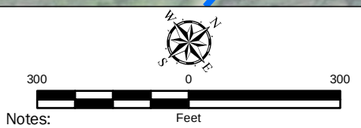
MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14 PT-OF-02 PT-OF-04 PT-OF-05

EW-12-05 EW-12-06 EW-12-07 SP-151 E005 E006 E007 EDP-62 EDP-63 EDP-64 EDP-65

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10



Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

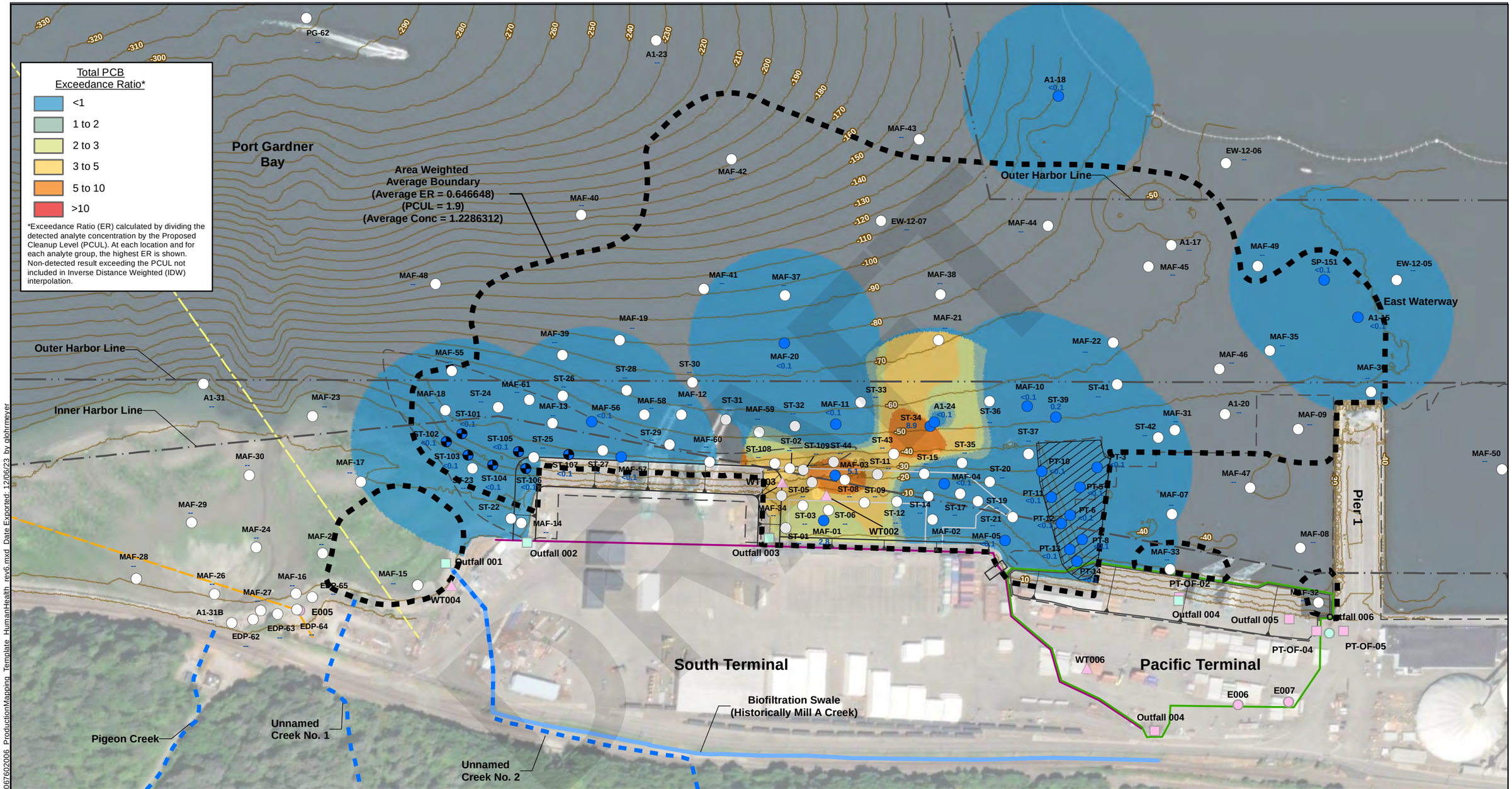
Total cPAH Results (Human Health) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-253

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Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total PCB Results (Human Health) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-254

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Total PCB
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.677726)
(PCUL = 1.9)
(Average Conc = 1.2876794)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62

A1-23

A1-18 <0.1

A1-17

A1-15 <0.1

A1-20

A1-24 <0.1

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

PT-OF-02

PT-OF-04

PT-OF-05

E005

E006

E007

EDP-62

EDP-63

EDP-64

EDP-65

MAF-01 1.22
MAF-02
MAF-03
MAF-04
MAF-05
MAF-07
MAF-08
MAF-09
MAF-10
MAF-11 1.1
MAF-12 <0.1
MAF-13
MAF-14
MAF-15
MAF-16
MAF-17
MAF-18
MAF-19
MAF-20
MAF-21 <0.1
MAF-22
MAF-23
MAF-24
MAF-25
MAF-26
MAF-27
MAF-28
MAF-29
MAF-30
MAF-31
MAF-32
MAF-33
MAF-34
MAF-35
MAF-36
MAF-37
MAF-38
MAF-39
MAF-40
MAF-41
MAF-42
MAF-43
MAF-44
MAF-45
MAF-46
MAF-47
MAF-48
MAF-49
MAF-50
MAF-55
MAF-56 <0.1
MAF-57 <0.1
MAF-58 <0.1
MAF-59 <0.1
MAF-60
MAF-61

ST-01
ST-02
ST-03
ST-05
ST-06
ST-08
ST-09
ST-11
ST-12
ST-14
ST-15
ST-17
ST-19
ST-20
ST-21
ST-22
ST-23
ST-24
ST-25
ST-26
ST-27
ST-28
ST-29
ST-30
ST-31
ST-32
ST-33
ST-34 8.9
ST-35
ST-36
ST-37
ST-39 0.2
ST-41
ST-42
ST-43
ST-44
ST-101 <0.1
ST-102 <0.1
ST-103 <0.1
ST-104 <0.1
ST-105 <0.1
ST-106
ST-107 <0.1
ST-108
ST-109

PT-1
PT-3
PT-5
PT-6
PT-8
PT-10
PT-11
PT-12
PT-13
PT-14

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

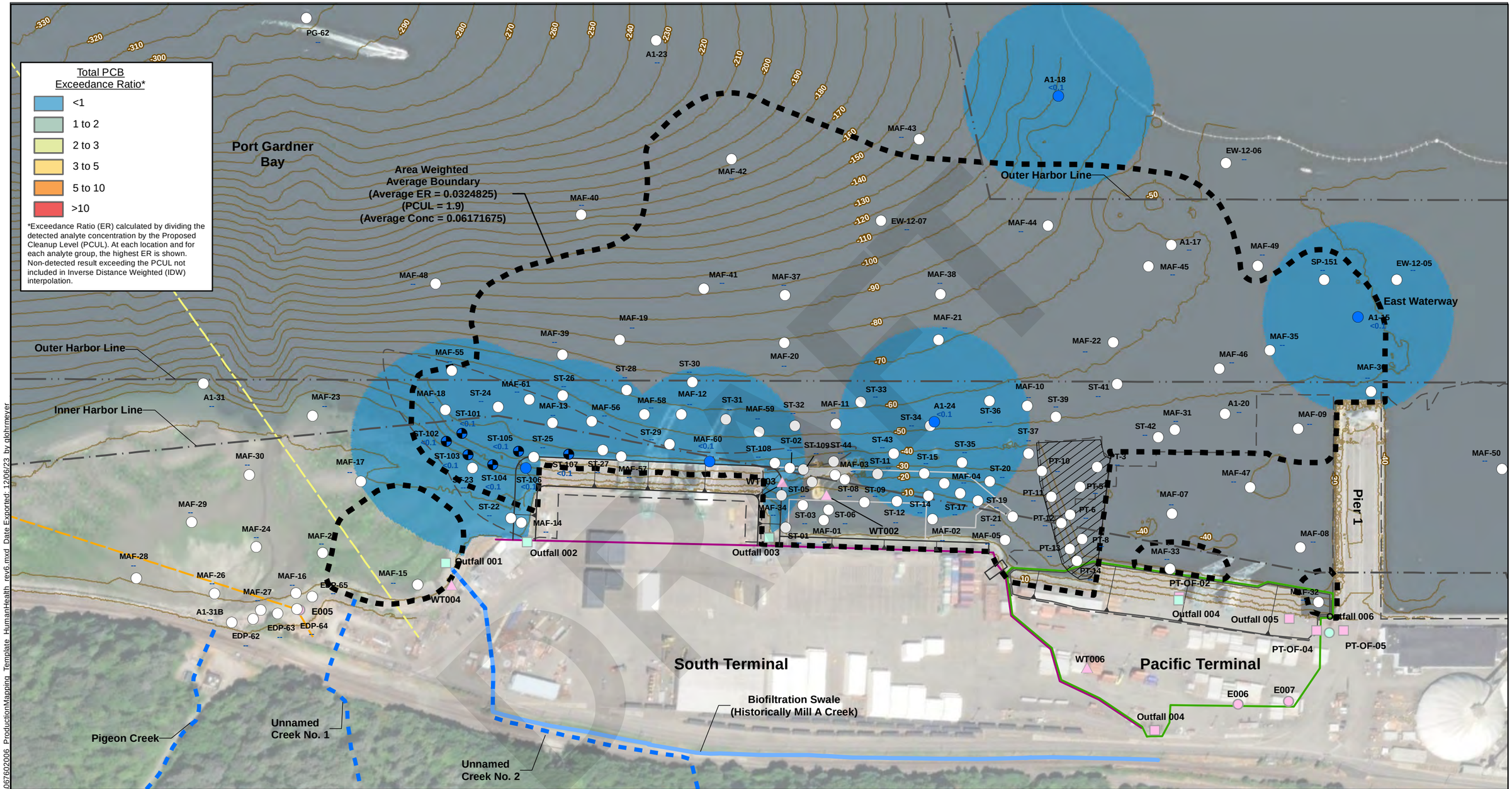
Total PCB Results (Human Health) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-255

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Total PCB Results (Human Health) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-256

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Total PCB
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.0219609)
(PCUL = 1.9)
(Average Conc = 0.04172571)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 A1-17 A1-15 A1-31 A1-31B A1-24 A1-20

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14 PT-OF-02 PT-OF-04 PT-OF-05

EW-12-05 EW-12-06 EW-12-07 SP-151 EDP-62 EDP-63 EDP-64 EDP-65 E005 E006 E007

<1 ST-101 <0.1
<1 ST-102 <0.1
<1 ST-103 <0.1
<1 ST-104 <0.1
<1 ST-105 <0.1
<1 ST-106 <0.1
<1 ST-107 <0.1
<1 ST-108 <0.1
<1 ST-109 <0.1
<1 MAF-59 <0.1
<1 MAF-11 <0.1

-10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190 -200 -210 -220 -230 -240 -250 -260 -270 -280 -290 -300 -310 -320 -330

N W E S

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total PCB Results (Human Health) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-257

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Total PCB
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.00928144)
(PCUL = 1.9)
(Average Conc = 0.017634736)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 MAF-43 MAF-42 MAF-40 EW-12-06 EW-12-07 MAF-44 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-39 MAF-21 MAF-55 MAF-20 MAF-22 MAF-35 MAF-46 MAF-36 A1-31 MAF-23 MAF-18 ST-24 MAF-61 ST-26 ST-28 ST-30 MAF-12 MAF-58 ST-31 MAF-59 ST-32 MAF-11 ST-33 MAF-10 ST-41 ST-39 A1-24 ST-36 A1-20 MAF-31 MAF-09 ST-42 ST-37 ST-35 MAF-50 MAF-30 MAF-17 MAF-29 MAF-24 MAF-28 MAF-26 MAF-16 MAF-15 MAF-27 EDP-65 A1-31B E005 EDP-63 EDP-64 EDP-62 MAF-14 ST-22 ST-23 ST-104 ST-106 ST-103 ST-102 ST-101 ST-105 ST-25 ST-29 ST-27 ST-107 MAF-57 MAF-60 ST-108 ST-02 ST-109 ST-44 ST-43 ST-34 ST-15 MAF-03 ST-11 ST-20 MAF-04 ST-05 ST-08 ST-09 ST-19 MAF-34 ST-03 ST-06 ST-12 ST-14 ST-17 ST-21 MAF-01 ST-01 MAF-02 MAF-05 PT-10 PT-3 PT-5 PT-11 PT-6 PT-12 PT-8 PT-13 PT-14 MAF-07 MAF-33 MAF-08 PT-OF-02 MAF-32 PT-OF-04 PT-OF-05 E006 E007 MAF-47

<1.0 <0.1

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 -50 -40 -40 -10 -50 -40

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Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total PCB Results (Human Health)
Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-258

Total PCB
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.00617573)
(PCUL = 1.9)
(Average Conc = 0.011733887)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

E005 E006 E007

EDP-62 EDP-63 EDP-64 EDP-65

PT-OF-02 PT-OF-04 PT-OF-05

PG-62 A1-23 A1-18 A1-17 A1-15 A1-31 A1-31B A1-24 A1-20

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14

EW-12-05 EW-12-06 EW-12-07 SP-151

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

<0.1 1.22

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N W E S

300 0 300

Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total PCB Results (Human Health) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-259

Total PCB
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.00232922)
(PCUL = 1.9)
(Average Conc = 0.004425518)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 MAF-43 MAF-42 MAF-40 EW-12-06 EW-12-07 MAF-44 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-39 MAF-21 MAF-20 MAF-22 MAF-35 MAF-46 MAF-55 MAF-61 ST-26 ST-28 ST-30 MAF-18 ST-24 MAF-13 MAF-56 MAF-58 MAF-12 ST-31 MAF-59 ST-32 MAF-11 ST-33 A1-24 ST-36 MAF-10 ST-39 ST-41 A1-31 MAF-23 ST-101 ST-102 ST-105 ST-25 ST-29 MAF-60 ST-108 ST-02 ST-109 ST-44 ST-43 ST-34 ST-37 MAF-31 A1-20 MAF-09 ST-42 MAF-30 MAF-17 ST-103 ST-107 ST-27 MAF-57 ST-23 ST-104 ST-106 MAF-03 ST-11 ST-15 ST-35 PT-10 PT-3 MAF-50 MAF-47 MAF-04 ST-20 PT-5 PT-11 ST-05 ST-08 ST-09 ST-19 MAF-07 MAF-29 ST-22 MAF-14 MAF-34 ST-03 ST-06 ST-12 ST-14 ST-17 PT-6 PT-12 ST-21 MAF-24 MAF-28 MAF-01 MAF-02 MAF-05 PT-8 PT-13 MAF-08 MAF-26 MAF-16 MAF-15 EDP-65 MAF-27 MAF-33 PT-14 PT-OF-02 MAF-32 A1-31B E005 EDP-63 EDP-64 EDP-62 PT-OF-04 PT-OF-05 E006 E007

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

<0.1 0.1 8.1

300 0 300
Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total PCB Results (Human Health) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-260

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Total PCB
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.00003707)
(PCUL = 1.9)
(Average Conc = 0.000070433)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PT-OF-02 PT-OF-04 PT-OF-05

E005 E006 E007

EDP-62 EDP-63 EDP-64 EDP-65

PG-62 A1-23 A1-18 A1-17 A1-15 A1-31 A1-31B A1-24 A1-20

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-04 ST-05 ST-06 ST-07 ST-08 ST-09 ST-10 ST-11 ST-12 ST-13 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14

EW-12-05 EW-12-06 EW-12-07 SP-151

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

<0.1 0.1 1.22

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total PCB Results (Human Health) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-261

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Total PCB
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.00000293)
(PCUL = 1.9)
(Average Conc = 0.000005567)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-20, MAF-22, MAF-35, MAF-46, MAF-55, ST-28, ST-30, MAF-61, ST-26, MAF-18, ST-24, MAF-12, ST-31, MAF-10, ST-41, ST-39, A1-31, MAF-23, MAF-13, MAF-56, MAF-58, MAF-59, ST-32, MAF-11, ST-33, A1-24, ST-36, ST-34, A1-20, MAF-31, MAF-09, ST-42, ST-101, ST-29, MAF-60, ST-102, ST-105, ST-25, ST-02, ST-109, ST-44, ST-108, ST-43, ST-35, ST-37, MAF-50, MAF-30, MAF-17, ST-103, ST-107, ST-27, MAF-57, MAF-03, ST-11, ST-15, ST-20, PT-10, PT-3, MAF-47, ST-23, ST-104, ST-106, ST-05, ST-08, ST-09, MAF-04, PT-5, PT-11, MAF-07, MAF-29, ST-22, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-19, PT-6, MAF-14, MAF-24, MAF-28, MAF-26, MAF-16, MAF-15, MAF-27, EDP-65, A1-31B, E005, EDP-63, EDP-64, EDP-62, ST-01, MAF-01, MAF-02, MAF-05, ST-21, PT-12, PT-8, PT-13, PT-14, MAF-08, MAF-33, PT-OF-02, MAF-32, PT-OF-04, PT-OF-05, E006, E007

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, -40, -40, -50, -40

300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total PCB Results (Human Health) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-262

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Total PCB
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = NA) (PCUL = 1.9) (Average Conc = NA)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PT-OF-02

PT-OF-04

PT-OF-05

E005

E006

E007

EDP-62

EDP-63

EDP-64

EDP-65

PG-62

A1-23

A1-18

A1-17

A1-15

A1-24

A1-20

A1-31

A1-31B

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 through MAF-61

ST-01 through ST-44

PT-3 through PT-14

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 -40 -40 -50

300 0 300

Feet

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total PCB Results (Human Health) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-263

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Total PCB
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.0121897)
(PCUL = 1.9)
(Average Conc = 0.02316043)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

Pigeon Creek

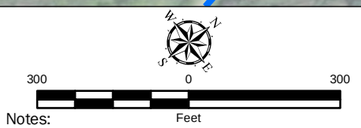
Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

PG-62, A1-23, A1-18, MAF-43, MAF-42, EW-12-06, MAF-40, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, A1-16, MAF-55, MAF-20, MAF-22, MAF-35, MAF-46, MAF-31, A1-31, MAF-23, MAF-18, ST-24, MAF-61, ST-26, ST-28, ST-30, MAF-12, MAF-58, MAF-56, MAF-13, ST-31, MAF-59, ST-32, MAF-11, ST-33, A1-24, ST-34, MAF-10, ST-41, ST-39, ST-36, A1-20, MAF-09, ST-42, ST-37, ST-101, ST-102, ST-105, ST-25, ST-29, MAF-60, ST-108, ST-02, ST-109, ST-44, ST-43, ST-35, MAF-50, MAF-30, ST-103, ST-107, ST-27, MAF-57, MAF-03, ST-11, ST-15, PT-10, PT-3, MAF-17, ST-23, ST-104, ST-106, WT003, ST-05, ST-08, ST-09, MAF-04, ST-20, MAF-47, PT-5, PT-11, MAF-07, MAF-29, ST-22, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-19, PT-6, MAF-14, ST-01, MAF-01, WT002, MAF-02, MAF-05, ST-21, PT-12, MAF-24, MAF-28, MAF-26, MAF-16, MAF-15, EDP-65, MAF-27, WT004, E005, A1-31B, EDP-63, EDP-64, EDP-62, PT-8, PT-13, PT-14, MAF-33, MAF-08, PT-OF-02, MAF-32, PT-OF-04, PT-OF-05, WT006, E006, E007

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, -0.1, 10, 20, 30, 40



Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total PCB Results (Human Health) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-264

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Total Dioxin-Like PCB Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 8.96152)
(PCUL = 0.38)
(Average Conc = 3.4053776)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Unnamed Creek No. 1

Unnamed Creek No. 2

Pigeon Creek

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

E005

E006

E007

PG-62

A1-23

A1-18

A1-17

A1-15

A1-31

A1-31B

A1-24

A1-20

EW-12-06

EW-12-07

EW-12-05

SP-151

PT-OF-02

PT-OF-04

PT-OF-05

EDP-62

EDP-63

EDP-64

EDP-65

MAF-01 1.22 Sample Location Identification Result

MAF-01 56.1

MAF-02 6.9

MAF-03 83.1

MAF-04 0.7

MAF-05 6.9

MAF-10 0.9

MAF-11 2.4

MAF-13 0.1

MAF-20 0.1

MAF-56 0.1

MAF-57 0.7

ST-101 2.2

ST-102 2.2

ST-103 2.2

ST-104 2.2

ST-105 2.2

ST-106 2.2

ST-107 2.2

PT-10 0.1

PT-11 0.1

PT-12 0.1

PT-13 0.1

PT-5 0.1

PT-6 0.1

PT-8 0.1

PT-3 0.1

Notes:

1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

300 0 300
Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Dioxin-Like PCB Results (Human Health) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-265

P:\0\067602G\GIS\MXD\MarineArea_RI_Report\067602G_ProductionMapping_Template_HumanHealth_rev6.mxd Date Exported: 12/06/23 by olohrmeyer

Total Dioxin-Like PCB Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = 4.27501) (PCUL = 0.38) (Average Conc = 1.6245038)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

E005 E006 E007

PT-OF-02 PT-OF-04 PT-OF-05

EDP-62 EDP-63 EDP-64 EDP-65

PG-62 A1-23 A1-18 A1-17 A1-15 A1-24 A1-31 A1-31B A1-20

EW-12-06 EW-12-07 EW-12-05 SP-151

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14

Contours: -10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190 -200 -210 -220 -230 -240 -250 -260 -270 -280 -290 -300 -310 -320 -330

Scale: 300 0 300 Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Dioxin-Like PCB Results (Human Health) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-266

P:\0106760\20\GIS\MXD\MarineArea_RI_Report\0676020G6_ProductionMapping_Template_HumanHealth_rev6.mxd Date Exported: 12/06/23 by olohrmeyer

Total Dioxin-Like PCB Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = 1.07378) (PCUL = 0.38) (Average Conc = 0.4080364)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale (Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-22, MAF-35, MAF-46, MAF-55, MAF-20, ST-28, ST-30, MAF-61, ST-26, MAF-18, ST-24, MAF-12, MAF-58, ST-31, MAF-59, ST-32, MAF-11, ST-33, MAF-10, ST-41, ST-39, A1-24, ST-36, A1-20, MAF-31, MAF-09, ST-42, A1-31, MAF-23, MAF-13, MAF-56, ST-101 0.9, ST-102 0.9, ST-103 0.9, ST-104 0.9, ST-105 0.9, ST-25, ST-29, MAF-60 1.2, ST-108, ST-02, ST-109, ST-44, ST-43, ST-35, ST-37, MAF-30, MAF-17, ST-107 0.9, ST-27, MAF-57, ST-23, ST-106 0.7, WT003, ST-05, MAF-03, ST-11, ST-15, ST-20, PT-10, PT-3, MAF-50, MAF-47, MAF-04, PT-5, PT-11, MAF-07, ST-08, ST-09, ST-19, ST-22, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-21, PT-12, PT-6, MAF-29, MAF-14, ST-01, MAF-01, WT002, MAF-02, MAF-05, PT-13, PT-8, MAF-08, MAF-24, MAF-28, MAF-26, MAF-16, MAF-15, MAF-27, EDP-65, WT004, Outfall 001, Outfall 002, Outfall 003, PT-14, MAF-33, PT-OF-02, MAF-32, A1-31B, E005, EDP-63, EDP-64, EDP-62, Outfall 004, Outfall 005, Outfall 006, PT-OF-04, PT-OF-05, WT006, E006, E007, Outfall 004

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 10, 20, 30, 40

300 0 300

Feet

Notes:

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2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Dioxin-Like PCB Results (Human Health) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-267

P:\0067602GIS\MXD\MarineArea_RI_Report\067602006_ProductionMapping_Template_HumanHealth_rev6.mxd Date Exported: 12/06/23 by olohrmeyer

Total Dioxin-Like PCB Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 0.53003)
(PCUL = 0.38)
(Average Conc = 0.2014114)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 MAF-43 MAF-42 MAF-40 EW-12-06 EW-12-07 MAF-44 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-39 MAF-21 MAF-20 MAF-22 MAF-35 MAF-46 MAF-55 ST-28 ST-30 MAF-61 ST-26 MAF-18 ST-24 MAF-13 MAF-56 MAF-58 MAF-12 ST-31 MAF-59 ST-32 MAF-11 ST-33 ST-34 A1-24 ST-36 MAF-10 ST-39 ST-41 A1-20 MAF-31 MAF-09 ST-42 ST-37 ST-29 MAF-60 ST-02 ST-109 ST-44 ST-43 ST-35 ST-101 ST-102 ST-105 ST-25 ST-108 ST-15 ST-20 PT-10 PT-3 MAF-50 MAF-47 MAF-07 MAF-30 MAF-17 ST-103 ST-107 ST-27 MAF-57 MAF-03 ST-11 MAF-04 ST-23 ST-104 ST-106 ST-05 ST-08 ST-09 PT-11 PT-5 MAF-29 ST-22 MAF-34 ST-03 ST-06 ST-12 ST-14 ST-17 ST-19 PT-6 MAF-14 MAF-01 MAF-02 ST-01 MAF-05 ST-21 PT-12 MAF-24 MAF-28 MAF-26 MAF-16 MAF-15 EDP-65 MAF-27 PT-13 PT-8 MAF-33 MAF-08 PT-14 PT-OF-02 MAF-32 A1-31 A1-31B E005 EDP-63 EDP-64 EDP-62 PT-OF-04 PT-OF-05 WT006 E006 E007

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 40 50

DRAFT

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300 0 300
Feet

Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

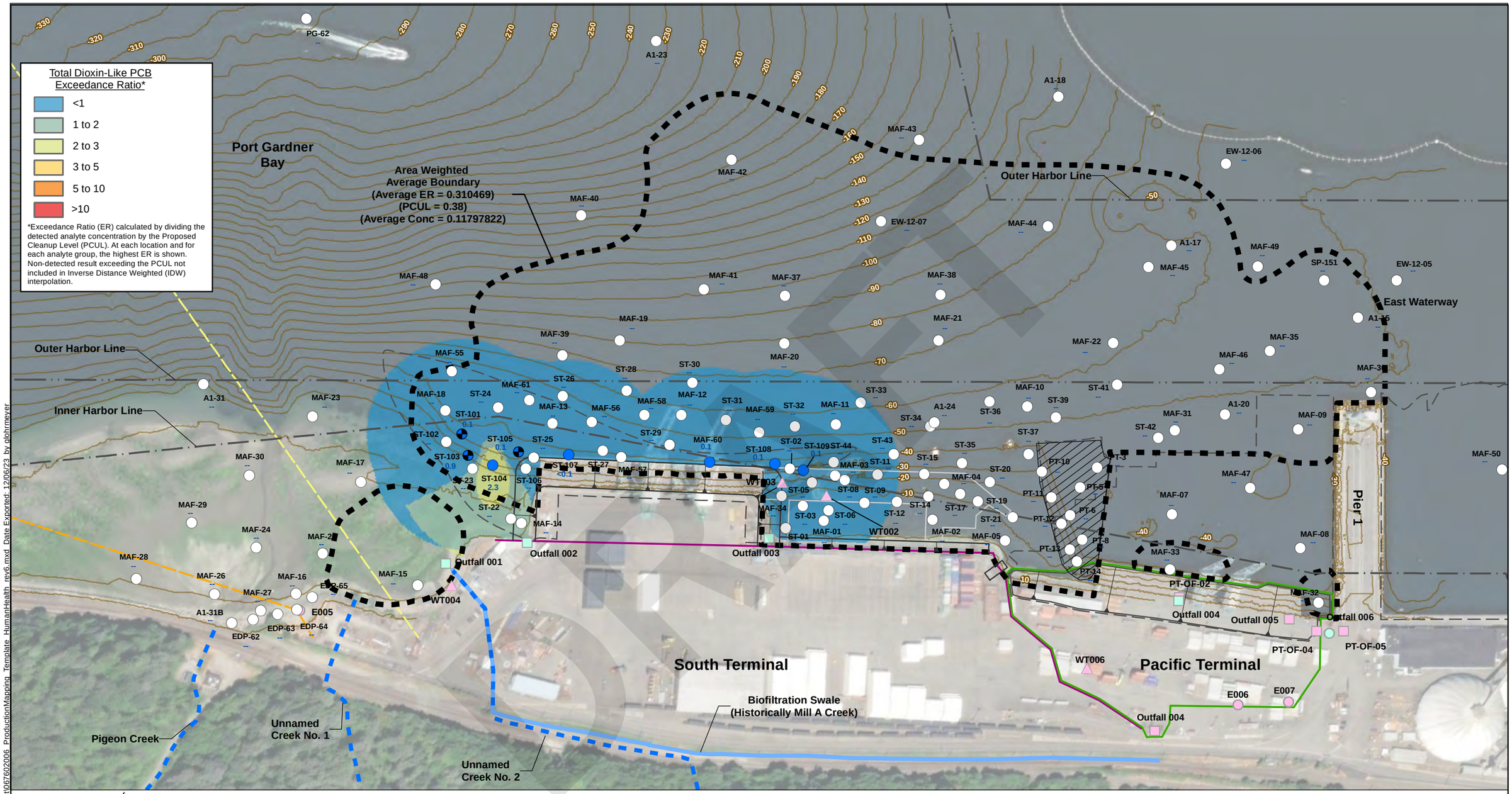
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Dioxin-Like PCB Results (Human Health) Subsurface Sediment (6-8 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-268



Total Dioxin-Like PCB Results (Human Health)
Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-269

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Total Dioxin-Like PCB Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = 0.273401) (PCUL = 0.38) (Average Conc = 0.10389238)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

E005 E006 E007

PT-OF-02 PT-OF-04 PT-OF-05

EDP-62 EDP-63 EDP-64 EDP-65

PG-62 A1-23 A1-18 A1-17 A1-15 A1-24 A1-20 A1-31 A1-31B

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14

EW-12-05 EW-12-06 EW-12-07 SP-151

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

0.1 1.5 <0.1 1.22

N W E S

300 0 300 Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

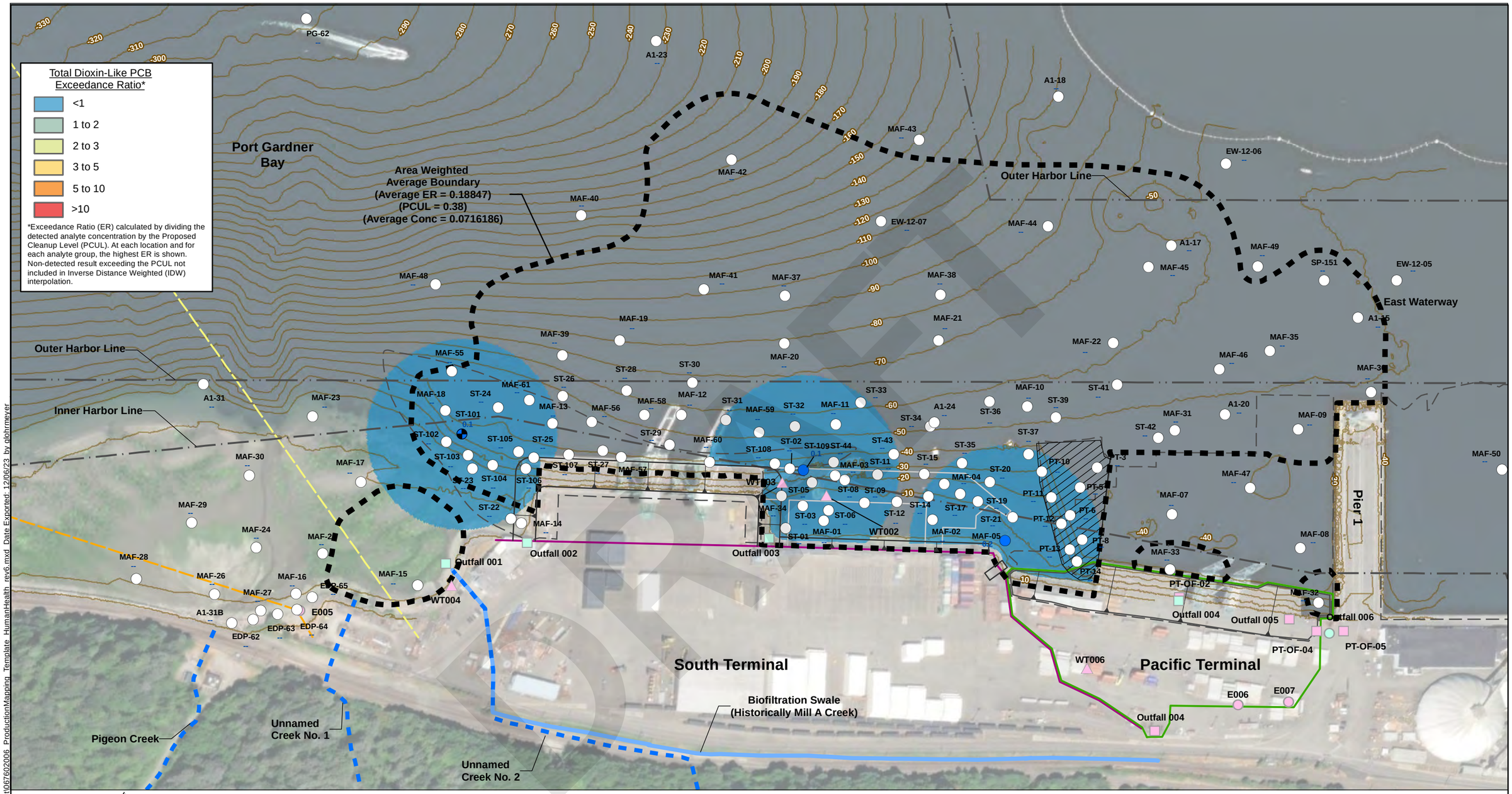
Total Dioxin-Like PCB Results (Human Health) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-270

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Notes:

1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Dioxin-Like PCB Results (Human Health) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-271

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Total Dioxin-Like PCB Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = 0.172368) (PCUL = 0.38) (Average Conc = 0.06549984)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

E005 E006 E007

PT-OF-02 PT-OF-04 PT-OF-05

EDP-62 EDP-63 EDP-64 EDP-65

SP-151

PG-62

A1-15 A1-16 A1-17 A1-18 A1-20 A1-23 A1-24 A1-31 A1-31B

EW-12-05 EW-12-06 EW-12-07

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14

-10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190 -200 -210 -220 -230 -240 -250 -260 -270 -280 -290 -300 -310 -320 -330 -40 -50

0.1

300 0 300

Feet

Notes:

1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

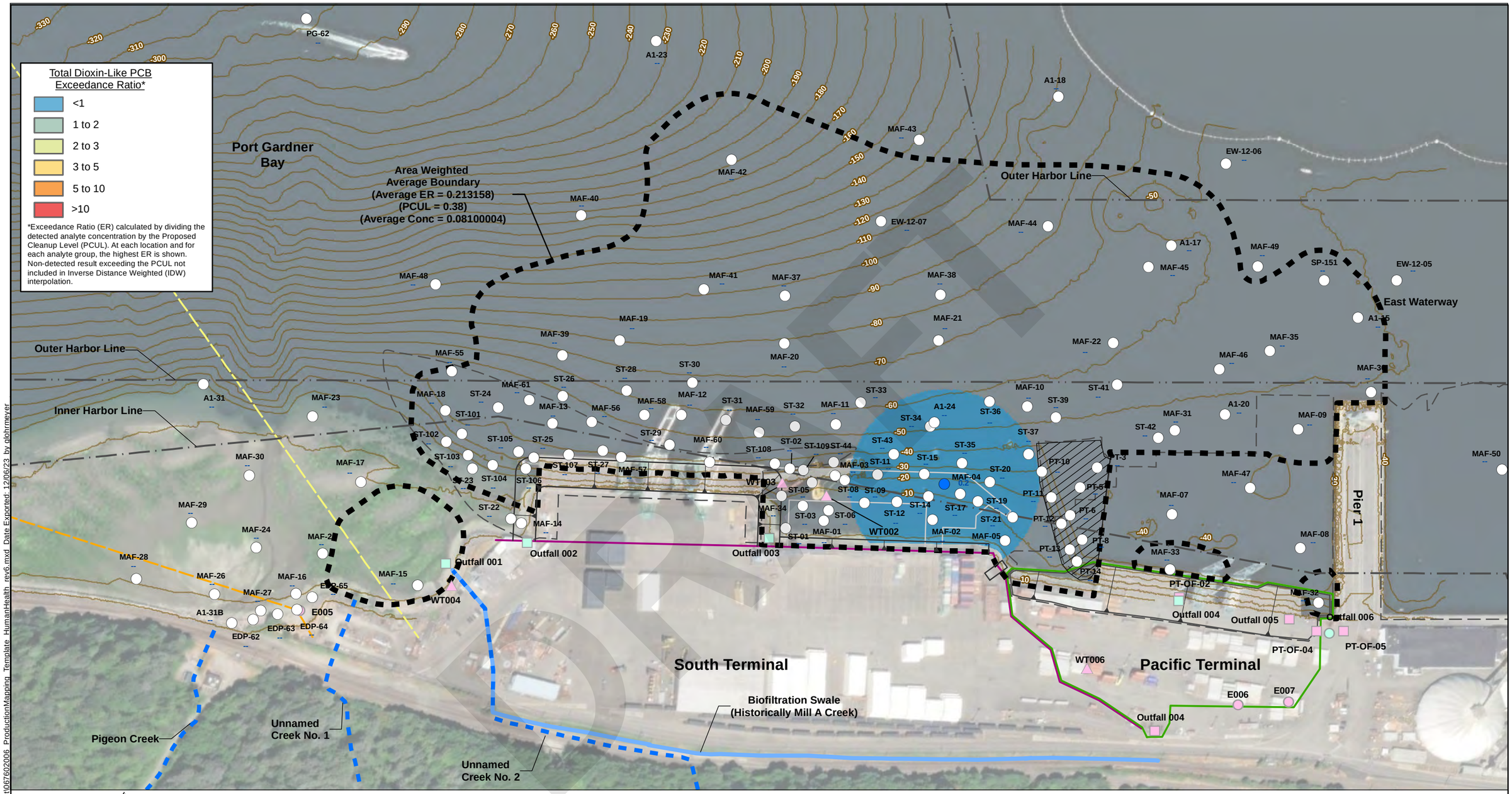
Total Dioxin-Like PCB Results (Human Health) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-272

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Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Dioxin-Like PCB Results (Human Health) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-273

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Total Dioxin-Like PCB Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = NA) (PCUL = 0.38) (Average Conc = NA)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PT-OF-02

PT-OF-04

PT-OF-05

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-20, MAF-22, MAF-35, MAF-46, MAF-55, ST-28, ST-30, ST-26, MAF-61, MAF-18, ST-24, MAF-13, MAF-56, MAF-58, MAF-12, ST-31, MAF-59, ST-32, MAF-11, ST-33, ST-34, A1-24, ST-36, MAF-10, ST-41, ST-39, A1-20, MAF-31, MAF-09, ST-42, ST-37, A1-31, MAF-23, ST-101, ST-102, ST-105, ST-25, ST-29, MAF-60, ST-108, ST-02, ST-109, ST-44, ST-43, ST-35, MAF-30, ST-103, ST-107, ST-27, MAF-57, MAF-03, ST-11, ST-15, ST-20, MAF-17, ST-23, ST-104, ST-106, MAF-04, ST-05, ST-08, ST-09, ST-19, PT-10, PT-5, PT-11, MAF-07, MAF-47, MAF-50, MAF-29, ST-22, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-21, PT-12, PT-6, MAF-24, MAF-14, MAF-01, ST-01, MAF-02, MAF-05, PT-8, PT-13, MAF-08, MAF-28, MAF-26, MAF-16, MAF-15, MAF-27, EDP-65, A1-31B, E005, EDP-63, EDP-64, EDP-62, PT-14, MAF-33, MAF-32, E006, E007, Outfall 004

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 10, 20, 30, 40

300 0 300 Feet

Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

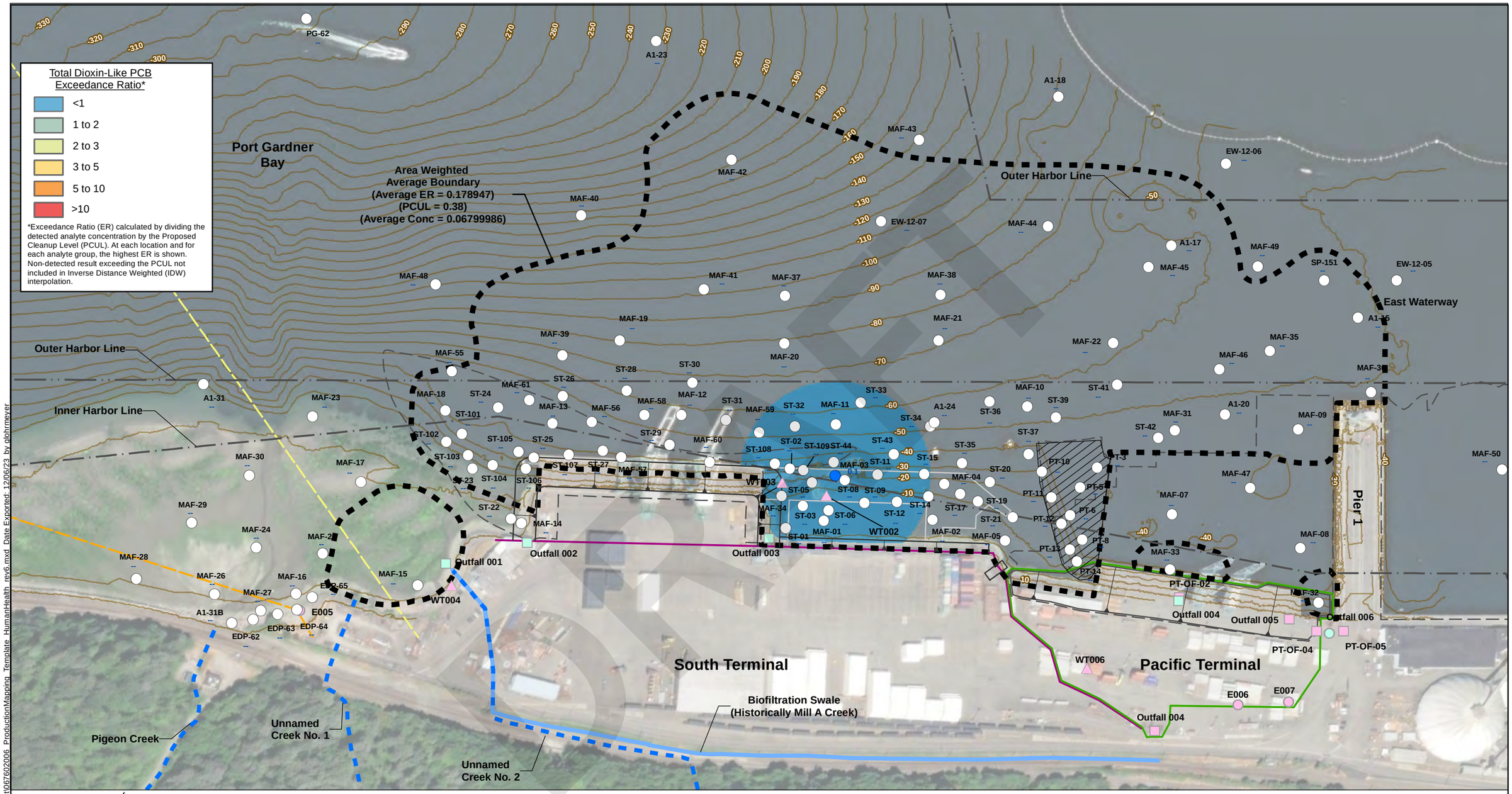
Total Dioxin-Like PCB Results (Human Health) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-274

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Total Dioxin-Like PCB Exceedance Ratio*
<1
1 to 2
2 to 3
3 to 5
5 to 10
>10
*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.
Port Gardner Bay
Area Weighted Average Boundary (Average ER = 0.178947) (PCUL = 0.38) (Average Conc = 0.06799986)
Outer Harbor Line
Inner Harbor Line
East Waterway
Pier 1
South Terminal
Pacific Terminal
Pigeon Creek
Unnamed Creek No. 1
Unnamed Creek No. 2
Biofiltration Swale (Historically Mill A Creek)
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
WT001
WT002
WT003
WT004
WT006
E005
E006
E007
PG-62
A1-23
A1-18
A1-17
A1-15
A1-31
A1-31B
A1-24
A1-20
EW-12-06
EW-12-07
EW-12-05
SP-151
EDP-62
EDP-63
EDP-64
EDP-65
PT-OF-02
PT-OF-04
PT-OF-05
MAF-01
MAF-02
MAF-03
MAF-04
MAF-05
MAF-06
MAF-07
MAF-08
MAF-09
MAF-10
MAF-11
MAF-12
MAF-13
MAF-14
MAF-15
MAF-16
MAF-17
MAF-18
MAF-19
MAF-20
MAF-21
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MAF-23
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MAF-39
MAF-40
MAF-41
MAF-42
MAF-43
MAF-44
MAF-45
MAF-46
MAF-47
MAF-48
MAF-49
MAF-50
MAF-55
MAF-56
MAF-57
MAF-58
MAF-59
MAF-60
MAF-61
ST-01
ST-02
ST-03
ST-05
ST-06
ST-08
ST-09
ST-11
ST-12
ST-14
ST-15
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ST-39
ST-41
ST-42
ST-43
ST-44
ST-101
ST-102
ST-103
ST-104
ST-105
ST-106
ST-107
ST-108
ST-109
PT-3
PT-5
PT-6
PT-8
PT-10
PT-11
PT-12
PT-13
PT-14
-330
-320
-310
-300
-290
-280
-270
-260
-250
-240
-230
-220
-210
-200
-190
-180
-170
-160
-150
-140
-130
-120
-110
-100
-90
-80
-70
-60
-50
-40
-30
-20
-10
0.1
50
40
30
Scale: 300 0 300 Feet
Notes:
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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet
Legend
Marine Area Remedial Investigation Sampling Locations
Discrete Sample Result
No Sample/Result
Non-Detect Result Exceeds PCUL
Composite Sample Result
Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)
MAF-01 Sample Location Identification
1.22 Result
Construction Berm
Historical Piling Area
Dredged Area
Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
Bulkhead
Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
Historical Industrial Outfall (Abandoned)
Former Combined Sewer Outfall (CSO, Abandoned)
Former Stormwater Outfall (Abandoned)
Current CSO
Current Stormwater Outfall
Total Dioxin-Like PCB Results (Human Health)
Subsurface Sediment (20-22 ft)
Weyerhaeuser Mill A Former
Everett, Washington
GeoEngineers
Figure Q-275
P:\0067602006\GIS\MXD\MarineArea_RI_Report\0676020G6_ProductionMapping_Template_HumanHealth_rev6.mxd Date Exported: 12/06/23 by olohrmeyer

Total Dioxin and Furan Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = 2.85703) (PCUL = 5) (Average Conc = 14.28515)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, A1-15, MAF-22, MAF-35, MAF-46, MAF-55, MAF-20, ST-30, ST-28, ST-26, MAF-61, MAF-18, ST-24, MAF-12, MAF-58, ST-31, MAF-59, ST-32, MAF-11, ST-33, MAF-10, ST-41, MAF-39, A1-31, MAF-23, MAF-13, MAF-56 0.4, ST-101 0.7, ST-102 0.7, ST-105 0.7, ST-25, ST-29, MAF-60, ST-108, ST-02, ST-109, ST-44, ST-43, ST-34, A1-24 10.1, ST-36, ST-39, A1-20, MAF-31, MAF-09, ST-42, ST-37, ST-35, MAF-50, MAF-30, MAF-17, ST-103 0.7, ST-104 0.7, ST-23, ST-106 0.7, ST-107 0.7, ST-27, MAF-57 1.1, MAF-03, ST-11, ST-15 7.2, ST-20, MAF-04, PT-10 0.1, PT-3 0.1, MAF-47, MAF-07, ST-05 3.5, ST-08, ST-09, ST-14, ST-17, ST-19, PT-11 <0.1, PT-5 <0.1, MAF-29, MAF-24, MAF-34, ST-03, ST-06, ST-12, PT-12 1.4, PT-6 <0.1, MAF-08, MAF-28, MAF-02, MAF-01, ST-01, MAF-05, PT-13 <0.1, PT-8, MAF-33, MAF-14, MAF-26, MAF-16, MAF-27, MAF-15, EDP-65 <0.1, PT-14, PT-OF-02, MAF-32, A1-31B, E005, EDP-63 <0.1, EDP-64 <0.1, EDP-62 <0.1, Outfall 004, Outfall 005, Outfall 006, PT-OF-04, PT-OF-05, E006, E007, Outfall 004

300 0 300 Feet

Notes:
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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Dioxin and Furan Results (Human Health) Subsurface Sediment (0-2 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-276

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Total Dioxin and Furan Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = 4.39994) (PCUL = 5) (Average Conc = 21.9997)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale (Historically Mill A Creek)

Unnamed Creek No. 1

Unnamed Creek No. 2

Pigeon Creek

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

E005

E006

E007

PG-62

A1-23

A1-18

A1-17

A1-15

A1-31

A1-31B

A1-24 10.1

EW-12-06

EW-12-07

EW-12-05

SP-151

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 <0.1 MAF-57 0.2 MAF-58 0.5 MAF-59 5.9 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-04 ST-05 3.5 ST-06 ST-07 ST-08 ST-09 ST-10 ST-11 ST-12 ST-13 ST-14 ST-15 7.2 ST-16 ST-17 ST-18 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-38 ST-39 ST-40 ST-41 ST-42 ST-43 ST-44 ST-101 2.1 ST-102 2.1 ST-103 2.1 ST-104 2.1 ST-105 2.1 ST-106 ST-107 2.1 ST-108 ST-109

PT-1 PT-2 PT-3 PT-4 PT-5 PT-6 PT-7 PT-8 PT-9 PT-10 PT-11 PT-12 PT-13 PT-14 PT-OF-02 PT-OF-04 PT-OF-05

EDP-62 <0.1 EDP-63 <0.1 EDP-64 0.1 EDP-65 <0.1

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

300 0 300
Feet

Notes:
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2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Total Dioxin and Furan Results (Human Health) Subsurface Sediment (2-4 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-277

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Total Dioxin and Furan Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = 9.7108) (PCUL = 5) (Average Conc = 48.554)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, A1-15, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-20, MAF-22, MAF-35, MAF-46, MAF-34, A1-31, MAF-23, MAF-55, MAF-61, ST-26, ST-28, ST-30, MAF-18, ST-24, MAF-13, MAF-56, MAF-58, MAF-12, ST-31, MAF-59, ST-32, MAF-11, ST-33, MAF-10, ST-39, ST-41, A1-24, ST-36, ST-34, ST-37, A1-20, MAF-31, MAF-09, ST-42, ST-43, ST-35, ST-101 2.1, ST-102 2.1, ST-105 2.1, ST-25, ST-29, MAF-60 1.9, ST-108, ST-02, ST-109, ST-44, MAF-03, ST-11, ST-15, ST-20, PT-10, T-3, MAF-50, MAF-30, MAF-17, ST-103 2.1, ST-107 2.1, ST-27, MAF-57, ST-23, ST-104 2.1, ST-106 1.1, ST-05, ST-08, ST-09, ST-04, ST-19, PT-11, PT-5, MAF-47, MAF-07, MAF-29, ST-22, MAF-14, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17 24, ST-21, PT-12, PT-6, MAF-24, MAF-02, MAF-01, ST-01, MAF-05, PT-13, PT-8, MAF-08, MAF-28, MAF-26, MAF-16, MAF-15, MAF-27, EDP-65, A1-31B, E005, EDP-63, EDP-64, EDP-62, PT-14, MAF-33, PT-OF-02, MAF-32, PT-OF-04, PT-OF-05, E006, E007

Notes:

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.

Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

300 0 300

Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Dioxin and Furan Results (Human Health) Subsurface Sediment (4-6 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-278

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Total Dioxin and Furan
Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary
(Average ER = 9.1599)
(PCUL = 5)
(Average Conc = 45.7995)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Biofiltration Swale
(Historically Mill A Creek)

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT002

WT003

WT004

WT006

PG-62, A1-23, A1-18, MAF-43, MAF-42, MAF-40, EW-12-06, EW-12-07, MAF-44, A1-17, MAF-49, MAF-45, SP-151, EW-12-05, A1-16, MAF-48, MAF-41, MAF-37, MAF-38, MAF-19, MAF-39, MAF-21, MAF-22, MAF-35, MAF-46, MAF-55, ST-28, ST-30, MAF-20, MAF-61, ST-26, MAF-18, ST-24, MAF-12, MAF-10, ST-41, MAF-31, A1-20, MAF-09, A1-31, MAF-23, MAF-13, MAF-56, MAF-58, ST-31, MAF-59, ST-32, MAF-11, ST-33, ST-39, A1-24, ST-36, ST-34, ST-42, ST-101, ST-102, ST-105, ST-25, ST-29, MAF-60, ST-02, ST-109, ST-44, ST-43, ST-35, ST-37, MAF-50, MAF-30, MAF-17, ST-103, ST-107, ST-27, MAF-57, ST-108, MAF-03, ST-11, ST-15, ST-20, PT-10, T-3, MAF-47, ST-23, ST-104, ST-106, WT003, ST-05, ST-08, ST-09, MAF-04, PT-11, MAF-07, MAF-29, ST-22, MAF-34, ST-03, ST-06, ST-12, ST-14, ST-17, ST-19, PT-6, PT-12, MAF-14, ST-01, MAF-01, MAF-02, MAF-05, PT-8, MAF-08, MAF-24, MAF-28, MAF-26, MAF-16, MAF-15, MAF-27, EDP-65, E005, A1-31B, EDP-63, EDP-64, EDP-62, PT-14, MAF-33, PT-OF-02, MAF-32, PT-OF-04, PT-OF-05, E006, E007

Sample Result Values: ST-101 2.2; ST-102 2.2; ST-103 2.2; ST-104 2.2; ST-105 2.2; ST-106 1.5; MAF-59 1.7; ST-108 5.8; ST-109 5.8; ST-17 24

-330, -320, -310, -300, -290, -280, -270, -260, -250, -240, -230, -220, -210, -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10

300 0 300
Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Dioxin and Furan Results (Human Health) Subsurface Sediment (6-8 ft)

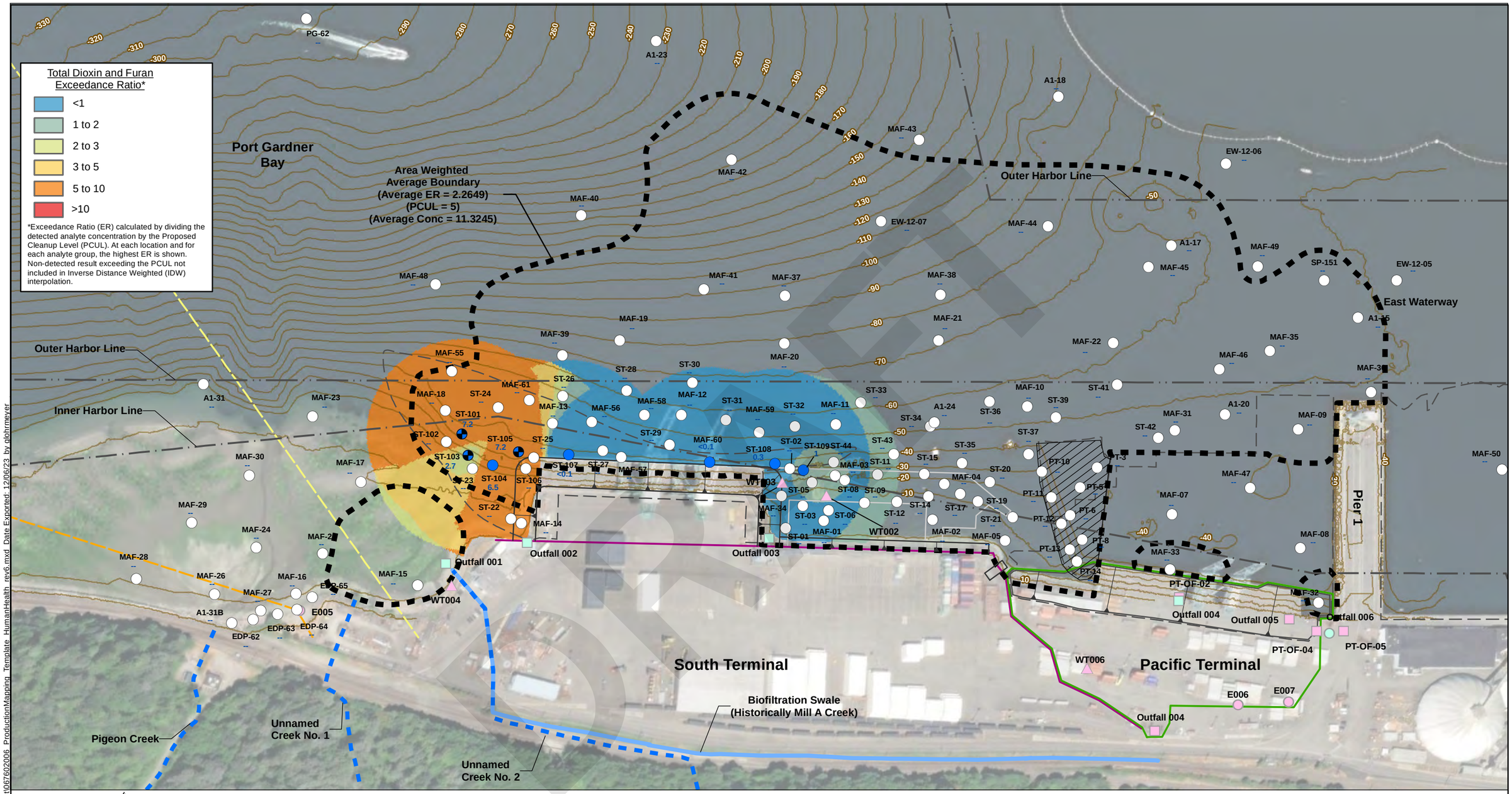
Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-279

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DRAFT



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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

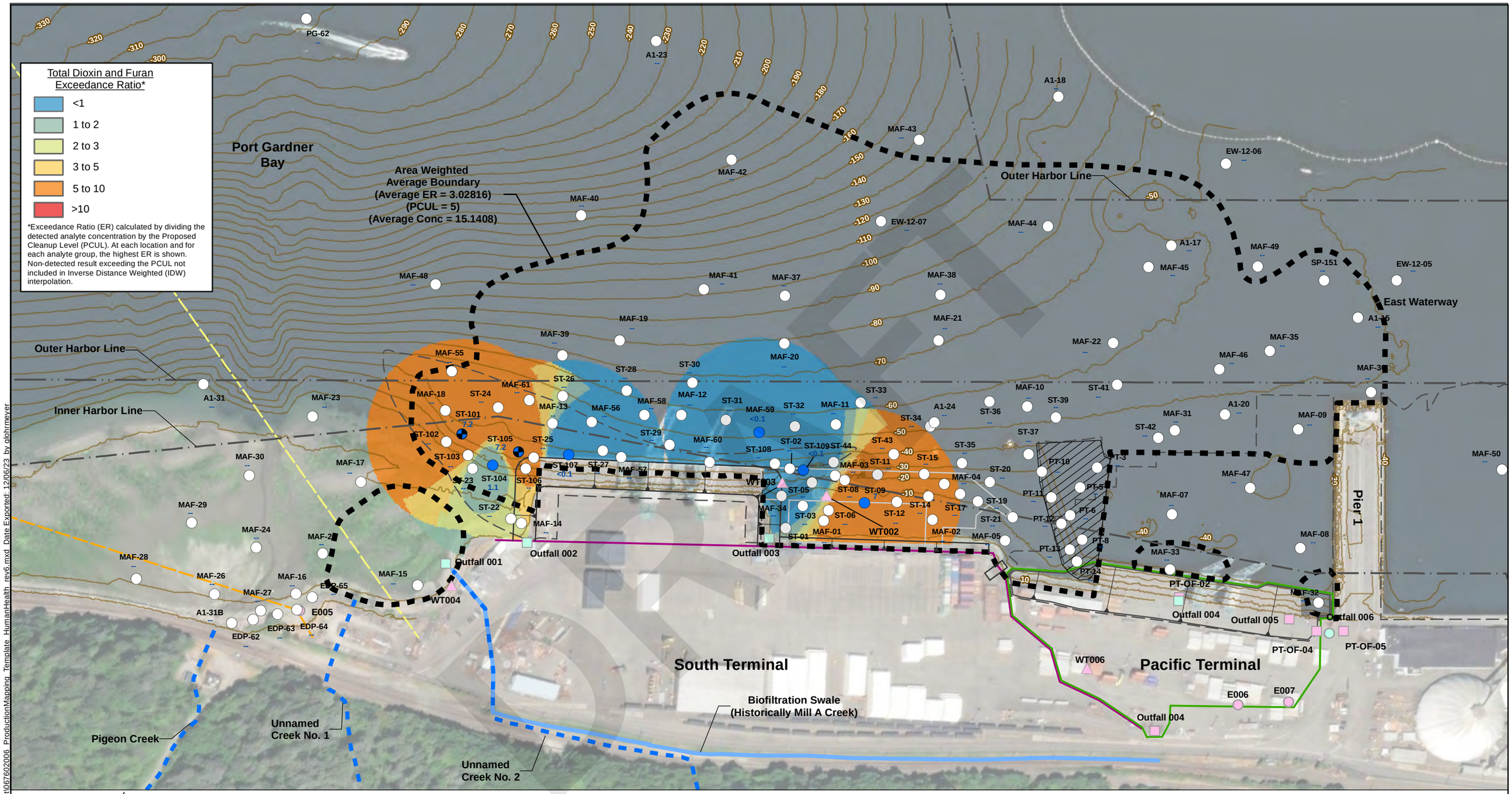
Total Dioxin and Furan Results (Human Health) Subsurface Sediment (8-10 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-280

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Total Dioxin and Furan Results (Human Health) Subsurface Sediment (10-12 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-281

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Total Dioxin and Furan Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = 0.687813) (PCUL = 5) (Average Conc = 3.439065)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PT-OF-02 PT-OF-04 PT-OF-05

E005 E006 E007

EDP-62 EDP-63 EDP-64 EDP-65

PG-62 A1-23 A1-18 A1-17 A1-15 A1-31 A1-31B A1-24 A1-20

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14

EW-12-05 EW-12-06 EW-12-07 SP-151

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

1.5 <0.1 1.22

300 0 300

Feet

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3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

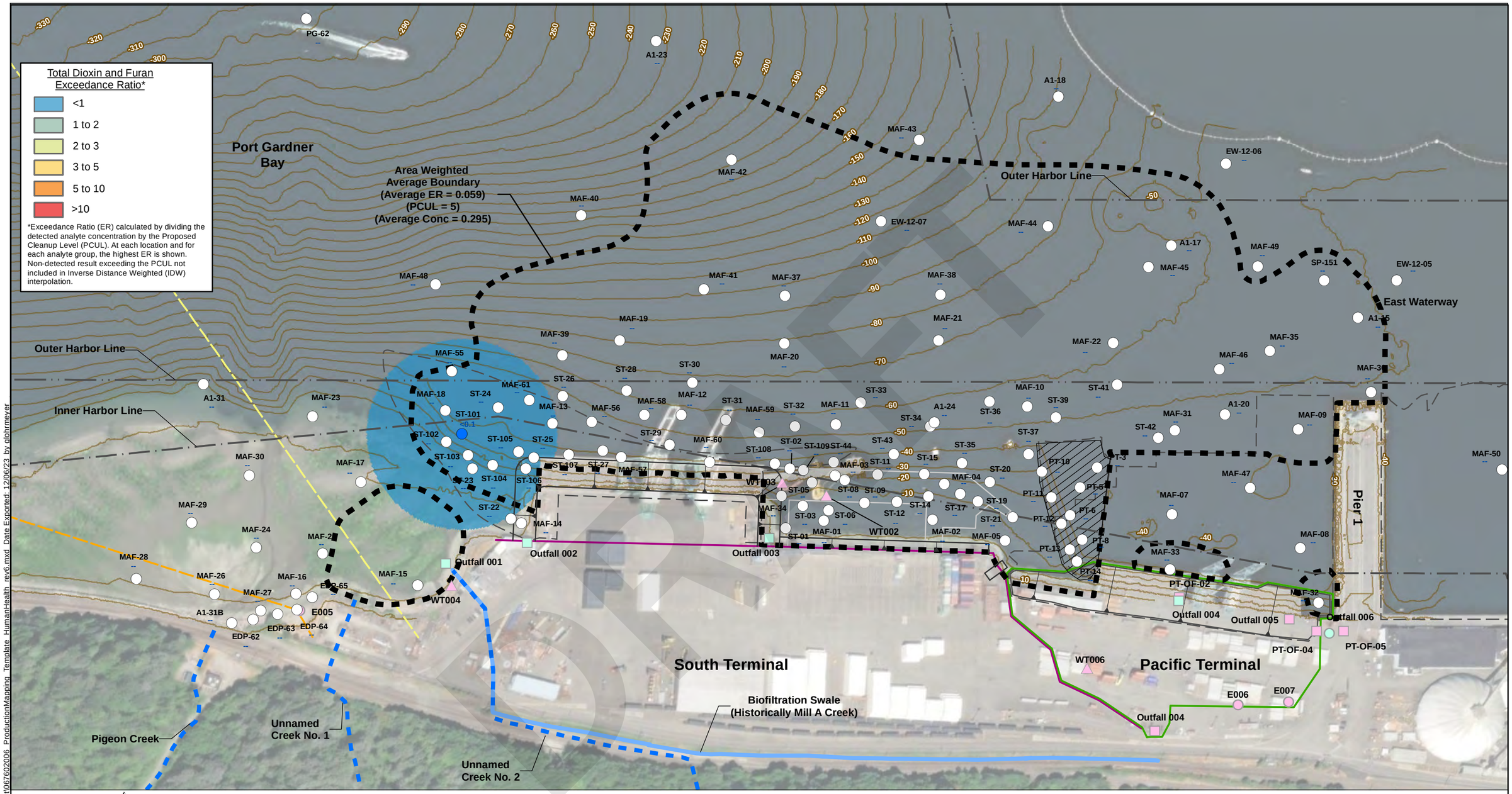
Total Dioxin and Furan Results (Human Health) Subsurface Sediment (12-14 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-282

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Data Source: Base aerial from ESRI, 2022

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Dioxin and Furan Results (Human Health) Subsurface Sediment (14-16 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-283

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Total Dioxin and Furan Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = NA) (PCUL = 5) (Average Conc = NA)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 A1-17 A1-15 A1-31 A1-31B A1-24 A1-20

MAF-01 MAF-02 MAF-03 MAF-04 MAF-05 MAF-06 MAF-07 MAF-08 MAF-09 MAF-10 MAF-11 MAF-12 MAF-13 MAF-14 MAF-15 MAF-16 MAF-17 MAF-18 MAF-19 MAF-20 MAF-21 MAF-22 MAF-23 MAF-24 MAF-25 MAF-26 MAF-27 MAF-28 MAF-29 MAF-30 MAF-31 MAF-32 MAF-33 MAF-34 MAF-35 MAF-36 MAF-37 MAF-38 MAF-39 MAF-40 MAF-41 MAF-42 MAF-43 MAF-44 MAF-45 MAF-46 MAF-47 MAF-48 MAF-49 MAF-50 MAF-55 MAF-56 MAF-57 MAF-58 MAF-59 MAF-60 MAF-61

ST-01 ST-02 ST-03 ST-05 ST-06 ST-08 ST-09 ST-11 ST-12 ST-14 ST-15 ST-17 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-25 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33 ST-34 ST-35 ST-36 ST-37 ST-39 ST-41 ST-42 ST-43 ST-44 ST-101 ST-102 ST-103 ST-104 ST-105 ST-106 ST-107 ST-108 ST-109

PT-3 PT-5 PT-6 PT-8 PT-10 PT-11 PT-12 PT-13 PT-14 PT-OF-02 PT-OF-04 PT-OF-05

EW-12-05 EW-12-06 EW-12-07 SP-151 EDP-62 EDP-63 EDP-64 EDP-65 E005 E006 E007

-330 -320 -310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10

300 0 300 Feet

Notes:
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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 1.22 Sample Location Identification Result

- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Dioxin and Furan Results (Human Health) Subsurface Sediment (16-18 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-284

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Total Dioxin and Furan Exceedance Ratio*

- <1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- >10

*Exceedance Ratio (ER) calculated by dividing the detected analyte concentration by the Proposed Cleanup Level (PCUL). At each location and for each analyte group, the highest ER is shown. Non-detected result exceeding the PCUL not included in Inverse Distance Weighted (IDW) interpolation.

Port Gardner Bay

Area Weighted Average Boundary (Average ER = NA) (PCUL = 5) (Average Conc = NA)

Outer Harbor Line

Inner Harbor Line

East Waterway

Pier 1

South Terminal

Pacific Terminal

Pigeon Creek

Unnamed Creek No. 1

Unnamed Creek No. 2

Biofiltration Swale (Historically Mill A Creek)

Outfall 001

Outfall 002

Outfall 003

Outfall 004

Outfall 005

Outfall 006

WT001 WT002 WT003 WT004 WT006

PG-62 A1-23 A1-18 MAF-43 MAF-42 MAF-40 EW-12-06 EW-12-07 MAF-44 A1-17 MAF-49 MAF-45 SP-151 EW-12-05 A1-15 MAF-48 MAF-41 MAF-37 MAF-38 MAF-19 MAF-39 MAF-21 MAF-20 MAF-22 MAF-35 MAF-46 MAF-36 MAF-55 ST-28 ST-30 ST-26 MAF-61 MAF-18 ST-24 MAF-13 MAF-56 MAF-58 MAF-12 ST-31 MAF-59 ST-32 MAF-11 ST-33 ST-34 A1-24 ST-36 MAF-10 ST-39 ST-41 A1-20 MAF-31 MAF-09 ST-42 ST-37 A1-31 MAF-23 ST-101 ST-102 ST-105 ST-25 ST-29 MAF-60 ST-108 ST-02 ST-109 ST-44 ST-43 ST-35 MAF-30 MAF-17 ST-103 ST-107 ST-27 MAF-57 MAF-03 ST-11 ST-15 ST-20 PT-10 T-3 MAF-50 MAF-47 ST-23 ST-104 ST-106 ST-05 ST-08 ST-09 MAF-04 PT-11 PT-5 MAF-07 MAF-29 ST-22 MAF-34 ST-03 ST-06 ST-12 ST-14 ST-17 ST-19 PT-6 MAF-14 MAF-01 ST-01 MAF-02 MAF-05 ST-21 PT-12 MAF-24 MAF-28 MAF-26 MAF-16 MAF-15 MAF-27 EDP-65 E005 A1-31B EDP-63 EDP-64 EDP-62 PT-13 PT-8 MAF-08 MAF-33 PT-14 PT-OF-02 MAF-32 PT-OF-04 PT-OF-05 WT006 E006 E007

Legend

Marine Area Remedial Investigation Sampling Locations

- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result

- Construction Berm
- Historical Piling Area
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- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

300 0 300
Feet

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Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

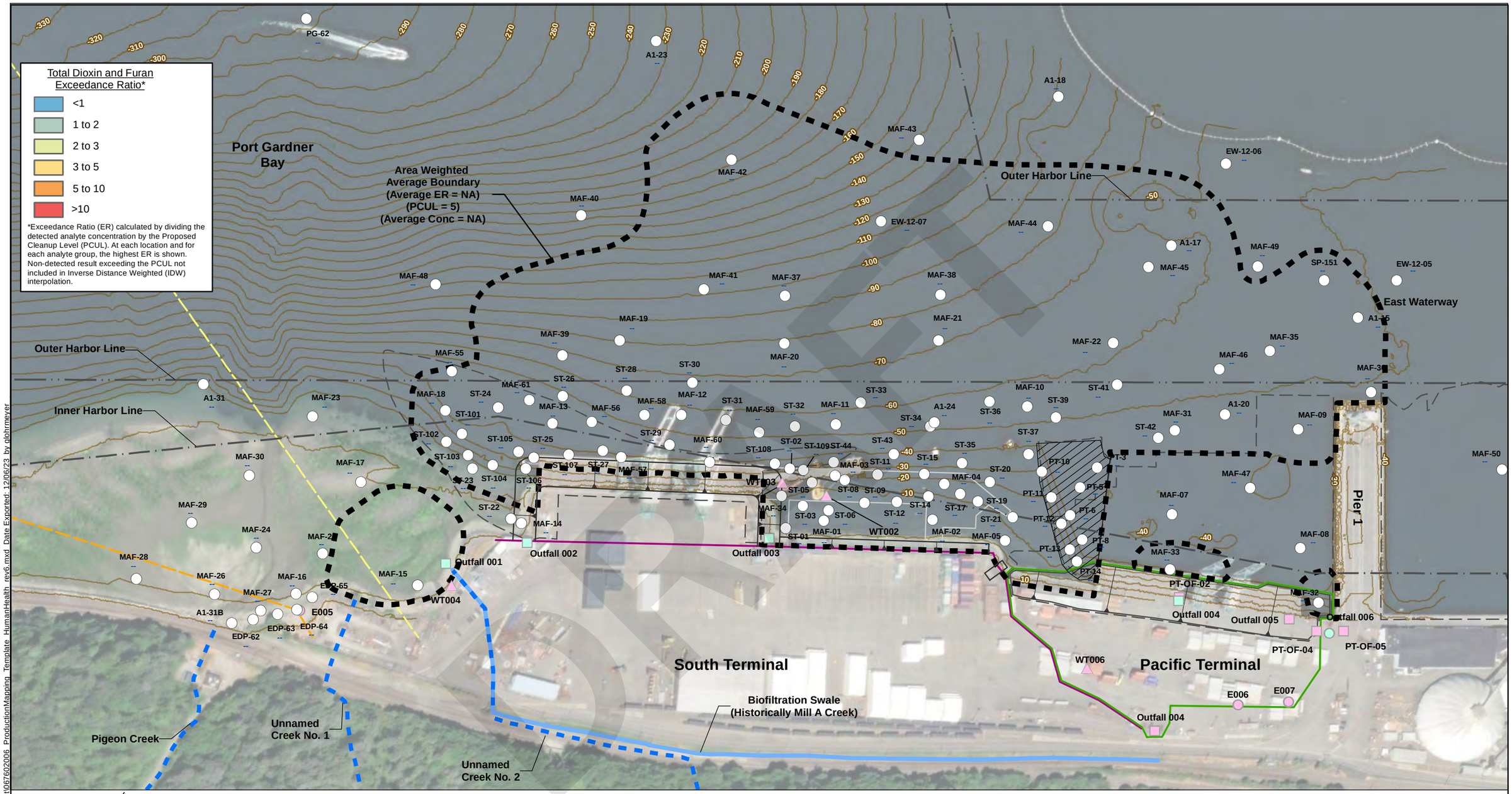
Total Dioxin and Furan Results (Human Health) Subsurface Sediment (18-20 ft)

Weyerhaeuser Mill A Former
Everett, Washington

GeoEngineers

Figure Q-285

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Notes:
1. The locations of all features shown are approximate.
2. 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.
3. Interpolation Method = Inverse Distance Weighted (IDW) Power = 6, Neighbors = 12. Radius = 300 feet.
Data Source: Base aerial from ESRI, 2022
Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

Marine Area Remedial Investigation Sampling Locations
- Discrete Sample Result
- No Sample/Result
- Non-Detect Result Exceeds PCUL
- Composite Sample Result
- Pacific Terminal Interim Action Dredge Area (Dredged to -42 feet MLLW in 2016/2017)

MAF-01 Sample Location Identification
1.22 Result
- Construction Berm
- Historical Piling Area
- Dredged Area
- Nearshore Confined Disposal (NCD) Facility (Former Log Pond)
- Current Kimberly-Clark/City of Everett/ City of Marysville Outfall 100 (Approximate)
- Historical Kimberly-Clark/Weyerhaeuser Outfall SW001 (Approximate)
- Bulkhead
- Topography/Bathymetry Contour (Feet Mean Lower Low Water [MLLW])
- Historical Industrial Outfall (Abandoned)
- Former Combined Sewer Outfall (CSO, Abandoned)
- Former Stormwater Outfall (Abandoned)
- Current CSO
- Current Stormwater Outfall

Total Dioxin and Furan Results (Human Health) Subsurface Sediment (20-22 ft)

Weyerhaeuser Mill A Former
Everett, Washington

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Figure Q-286

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