

Path: \\sea\projects\03056114\GIS\MXDs\Fig_6-1_UplandLNAPL_SmearZone.mxd Map Revised: 19 February 2015 cgonzales

Reference: Aerial from Google Earth, August 2011.

Notes:
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Legend

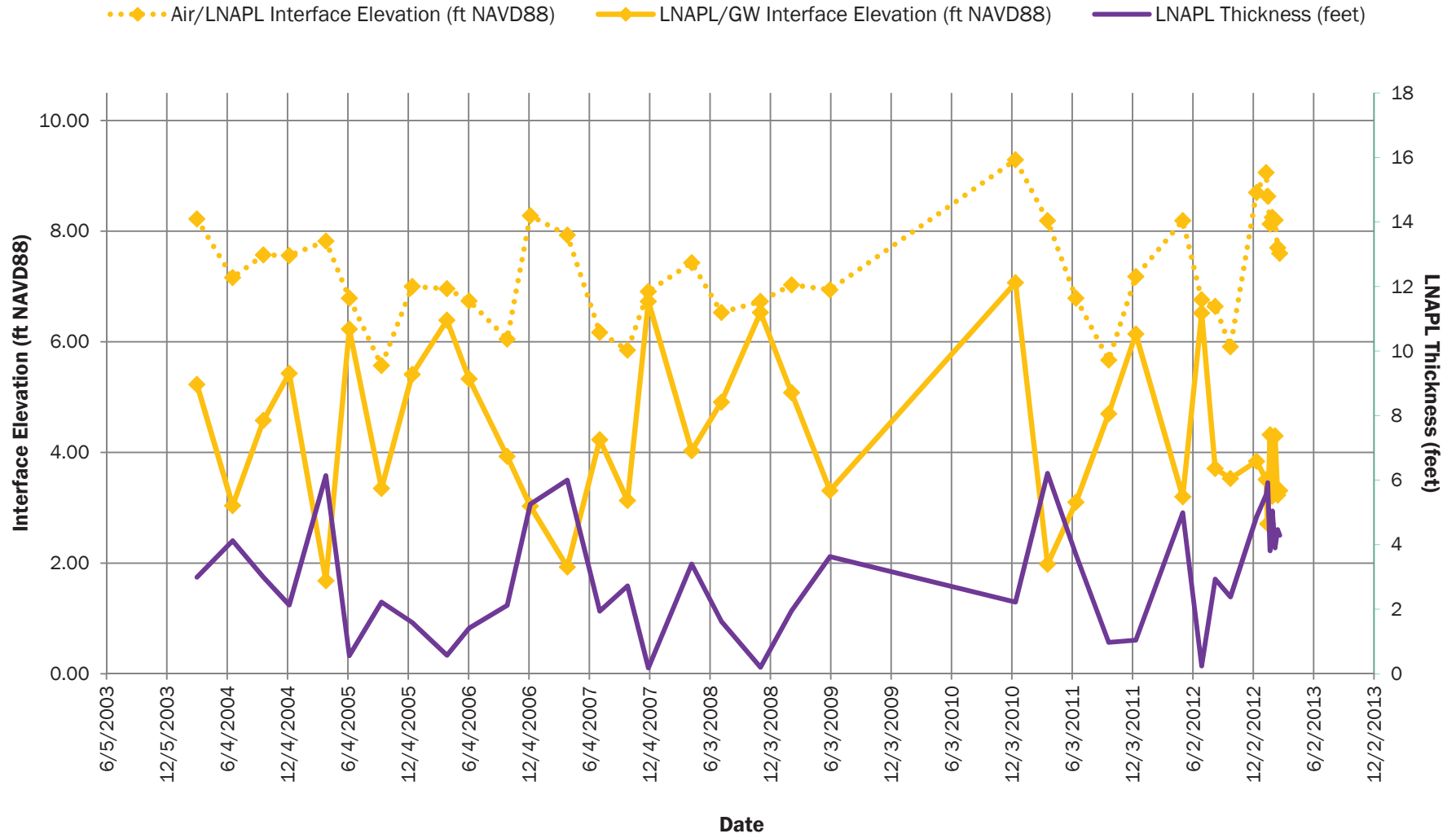
- | | | | | | |
|---|---|-------|---|---|--|
| + | Existing Deep Monitoring Well | — | City Owned Property, Former R.G. Haley International | ▨ | 2001 Sediment Removal Area |
| ● | Existing Shallow Monitoring Well | - - - | Cornwall Property | ▨ | Sheen Emerging from Sediment (2012/2013) |
| ⊕ | Existing Recovery Well | - - - | Port of Bellingham Property | ▨ | Sheen Emerging from Sediment (2006) |
| ○ | Monitoring Well Abandoned or Not Located as of 2012 | ⋯ | Inner Harbor Line | ⊙ | 2000 Petroleum Seep |
| ■ | Cornwall Supplemental RI Test Pit or Boring | ⋯ | Sheet Pile Wall | ⋯ | Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI) See Figure 6-4 |
| ● | Current Measurable LNAPL in Well | ⋯ | Storm Drain | ▨ | Apparent Stained Soil Visible in Historical Photographs |
| ⊕ | Current Trace LNAPL in Well | ⋯ | Cornwall Approximate Landward Boundary of Landfill Refuse | ▨ | Historical features associated with former wood treatment operations based on 1950 aerial photograph or other references |
| ⊗ | Historical LNAPL (Not Currently Present) | | | | |
| ● | LNAPL Never Observed | | | | |

LNAPL and Smear Zone

R.G. Haley Site
Bellingham, Washington

GEOENGINEERS

Figure 6-1



**LNAPL Thickness versus Time
TL-MW-2**

R.G. Haley Site
Bellingham, Washington


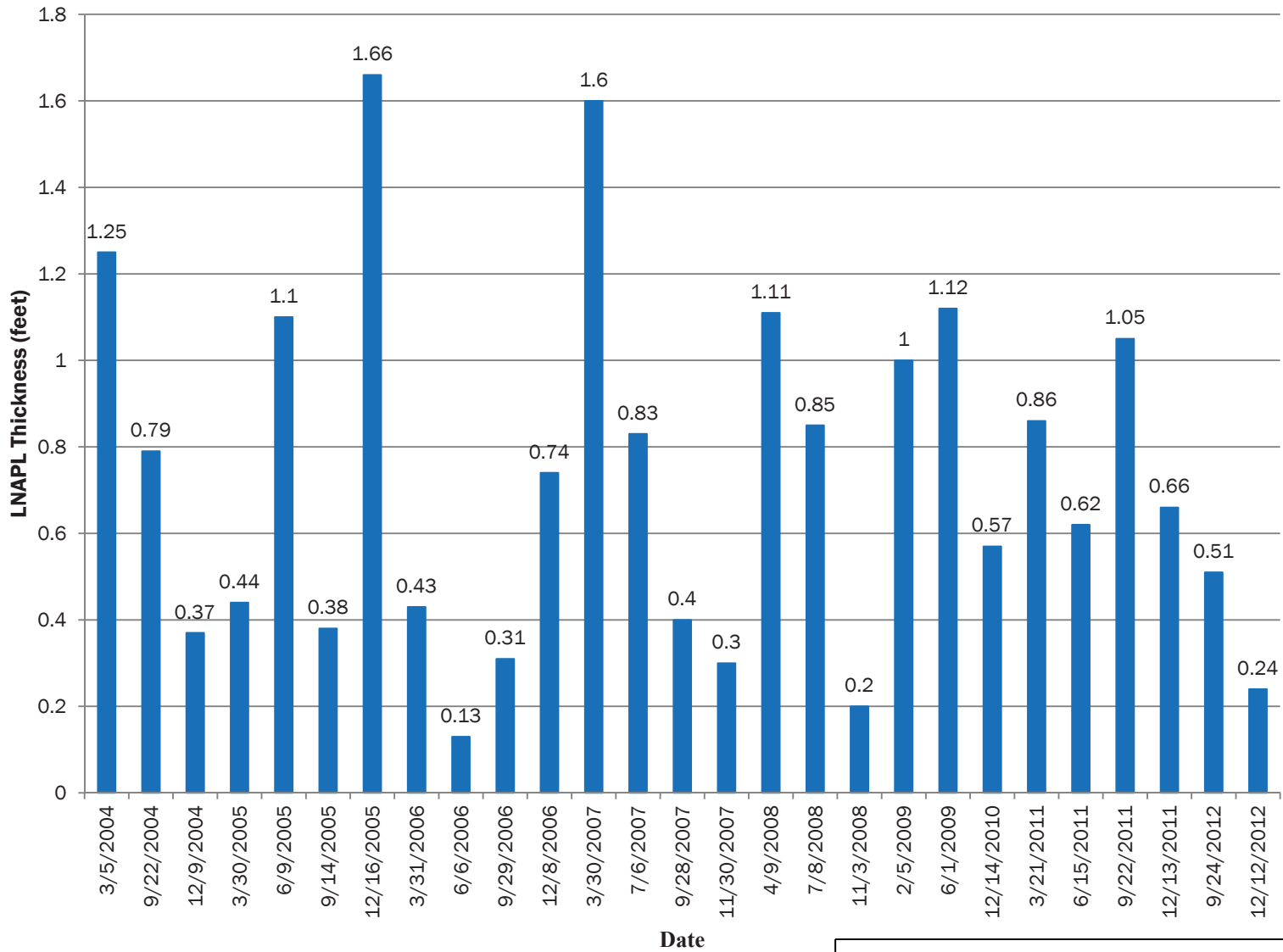

GEOENGINEERS 

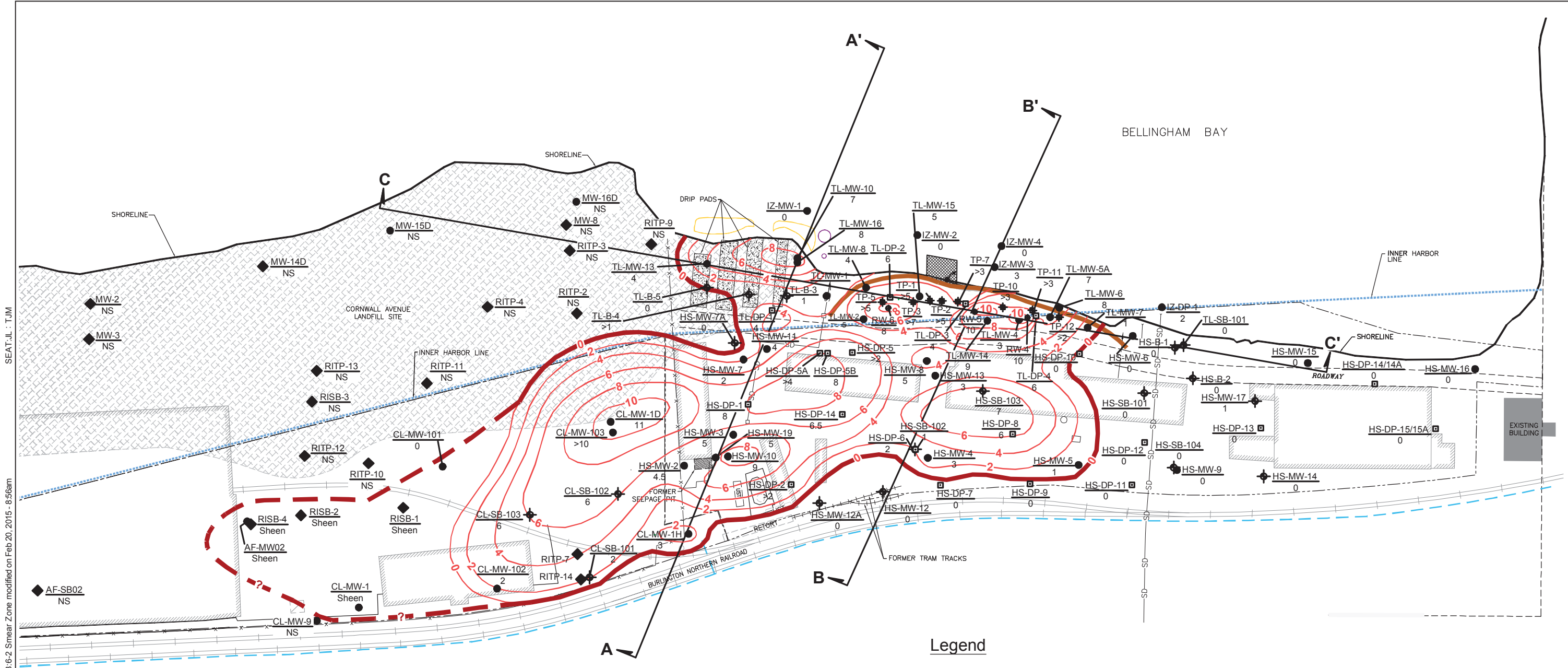
Figure 6-2

Note: LNAPL/GW Interface Elevation is as-measured; elevation is not corrected for LNAPL thickness in the well. Each quarterly measurement obtained before manual recovery of LNAPL from the well.



Each quarterly measurement obtained before manual recovery of LNAPL from the well.

LNAPL Thickness versus Time TL-MW-3	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS 	Figure 6-3



SEAT.JL : TJM
P:\0356114\06\CAD\RI_FS Figures\Figure 6-4 Upland Smear Zone Thickness.dwg\TAB:6-2 Smear Zone modified on Feb 20, 2015 - 8:56am

- 8 Smear Zone Thickness (feet)
Based on Moderate or Heavy Sheen in Soil (from Haley RI)
- - - Estimated Extent of Petroleum Smear Zone
(Dashed Portion Based on Cornwall RI, See Section 6)
- TL-MW-16
8 ● Exploratory Borehole for Monitoring Well
Approximate Smear Zone Thickness (feet)
- HS-MW-1 ● Monitoring Well
- HS/SB/SP ⊕ Boring
- HS-DP-4 ⊠ Direct Push Boring
- RITP-12
NS ◆ Cornwall RI Test Pit or Boring
Sheen or No Sheen (NS) Observed
- A A'
Smear Zone Cross Section Location shown in Figures 6-5 to 6-7

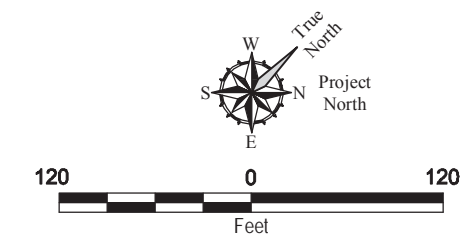
Legend

- Existing Sheet Pile Barrier
- Estimated Extent of Upland Refuse
- Former Buildings and Structures
- 2001 Sediment Removal Area
- 2000 Petroleum Seep
- Sheen Emerging from Sediment (2012/2013)
- Sheen Emerging from Sediment (2006)
- City Owned Property,
Former R.G. Haley International
- Cornwall Property
- - - Inner Harbor Line
- - - Drainage Ditch

Notes

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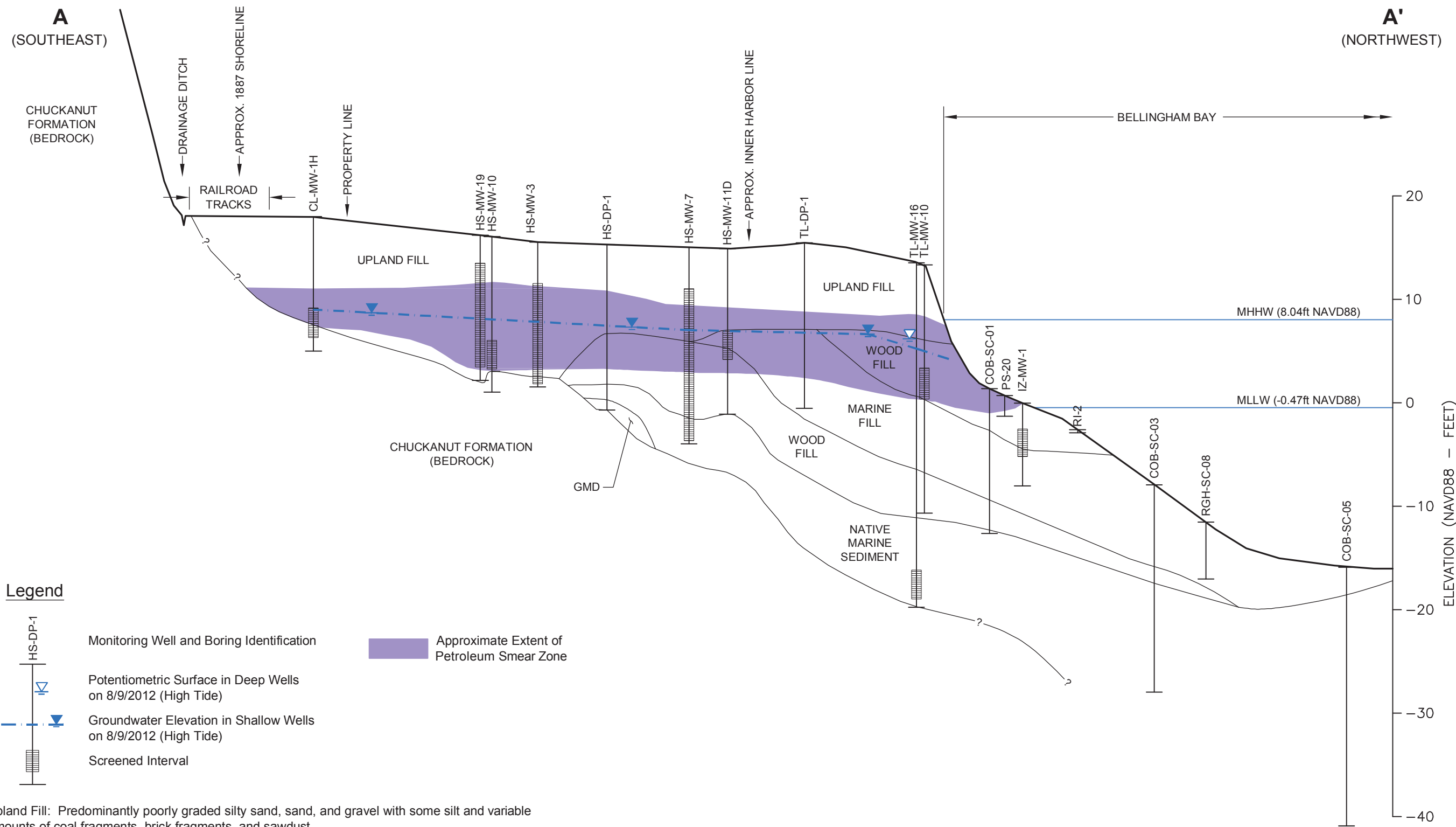
Reference: CAD files RGHLEY_SVx_base20x.dwg" dated 7-17-2012, "R2000geoeng_haleybase50x" revised 07/28/04 by Pacific Survey & Engineering Inc., file "Fig3-8" dated August 2002 by Landau Associates, and files "027500201T1LM" and "027500201T1A" dated 03/29/04 by GeoEngineers.



Upland Smear Zone Thickness	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-4

SEAT:JL : TJM

P:\00356114\06\CAD\RI_FS Figures\Figure 6-5 Smear Zone Cross-Section AA.dwg\TAB:AA modified on Feb 18, 2015 - 9:30am



Legend

- Monitoring Well and Boring Identification
- Approximate Extent of Petroleum Smear Zone
- Potentiometric Surface in Deep Wells on 8/9/2012 (High Tide)
- Groundwater Elevation in Shallow Wells on 8/9/2012 (High Tide)
- Screened Interval

Upland Fill: Predominantly poorly graded silty sand, sand, and gravel with some silt and variable amounts of coal fragments, brick fragments, and sawdust.

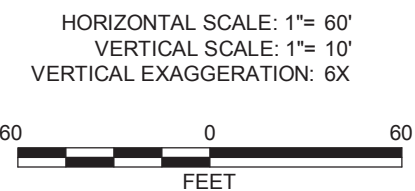
Marine Fill: Predominantly silt, silty sand, and poorly graded fine to medium grained sand with shell fragments and occasional wood fragments.

Wood Fill: At least 50 percent wood based on visual estimate with some silt and occasional sand. Wood present as sawdust, chips, or fragments.

Native Marine Sediment: Predominantly silt, silty sand, and poorly graded fine to coarse grained sand with occasional gravel, shell fragments, and wood fragments.

GMD (Glacial Marine Drift): Stiff silt and clay with occasional gravel and shells.

Chuckanut Formation: The Eocene-age Padden Member of the Chuckanut Formation is predominantly siltstone where encountered in borings.

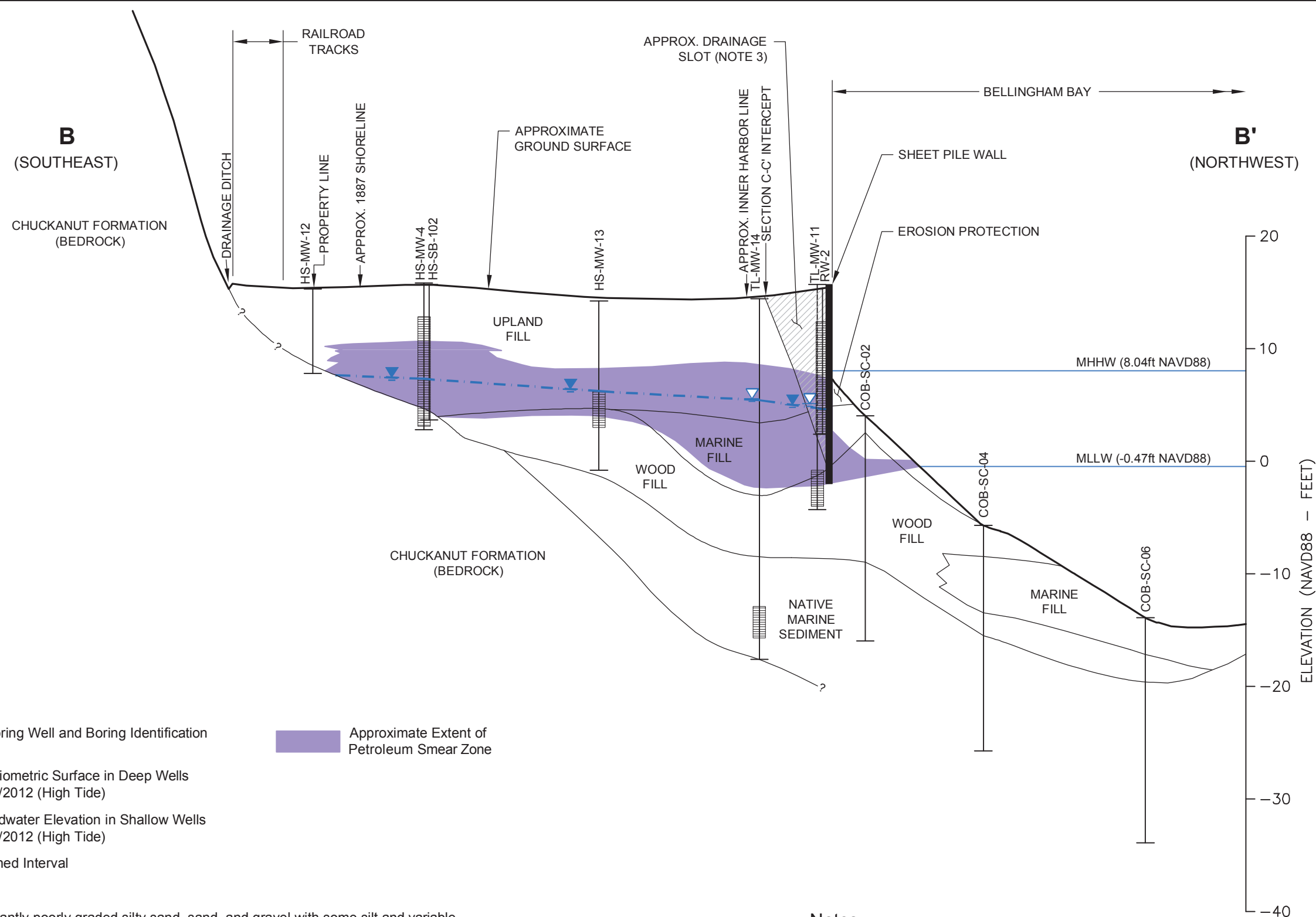


Notes

1. Directions given on cross section line refer to Project North.
2. Smear Zone interpretation for upland area is based on moderate or heavy sheen in soil, and/or sum of diesel and heavy oil hydrocarbon concentrations greater than 500 mg/kg.
3. The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.
4. Please refer to Figure 6-4 for cross section location.
5. This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document.

Smear Zone Cross Section A-A'	
R.G. Haley Site Bellingham, Washington	
	Figure 6-5

P:\00356114\06\CAD\IRI_FS Figures\Figure 6-6 Smear Zone Cross-Section BB.dwg\TAB:BB modified on Feb 18, 2015 - 9:32am SEAT:JL : TJM



Legend

- Monitoring Well and Boring Identification
- Potentiometric Surface in Deep Wells on 8/9/2012 (High Tide)
- Groundwater Elevation in Shallow Wells on 8/9/2012 (High Tide)
- Screened Interval

Approximate Extent of Petroleum Smear Zone

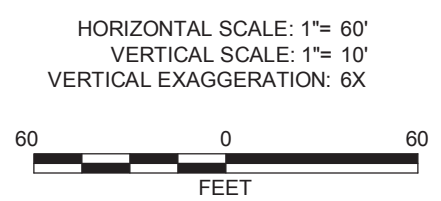
Upland Fill: Predominantly poorly graded silty sand, sand, and gravel with some silt and variable amounts of coal fragments, brick fragments, and sawdust.

Marine Fill: Predominantly silt, silty sand, and poorly graded fine to medium grained sand with shell fragments and occasional wood fragments.

Wood Fill: At least 50 percent wood based on visual estimate with some silt and occasional sand. Wood present as sawdust, chips, or fragments.

Native Marine Sediment: Predominantly silt, silty sand, and poorly graded fine to coarse grained sand with occasional gravel, shell fragments, and wood fragments.

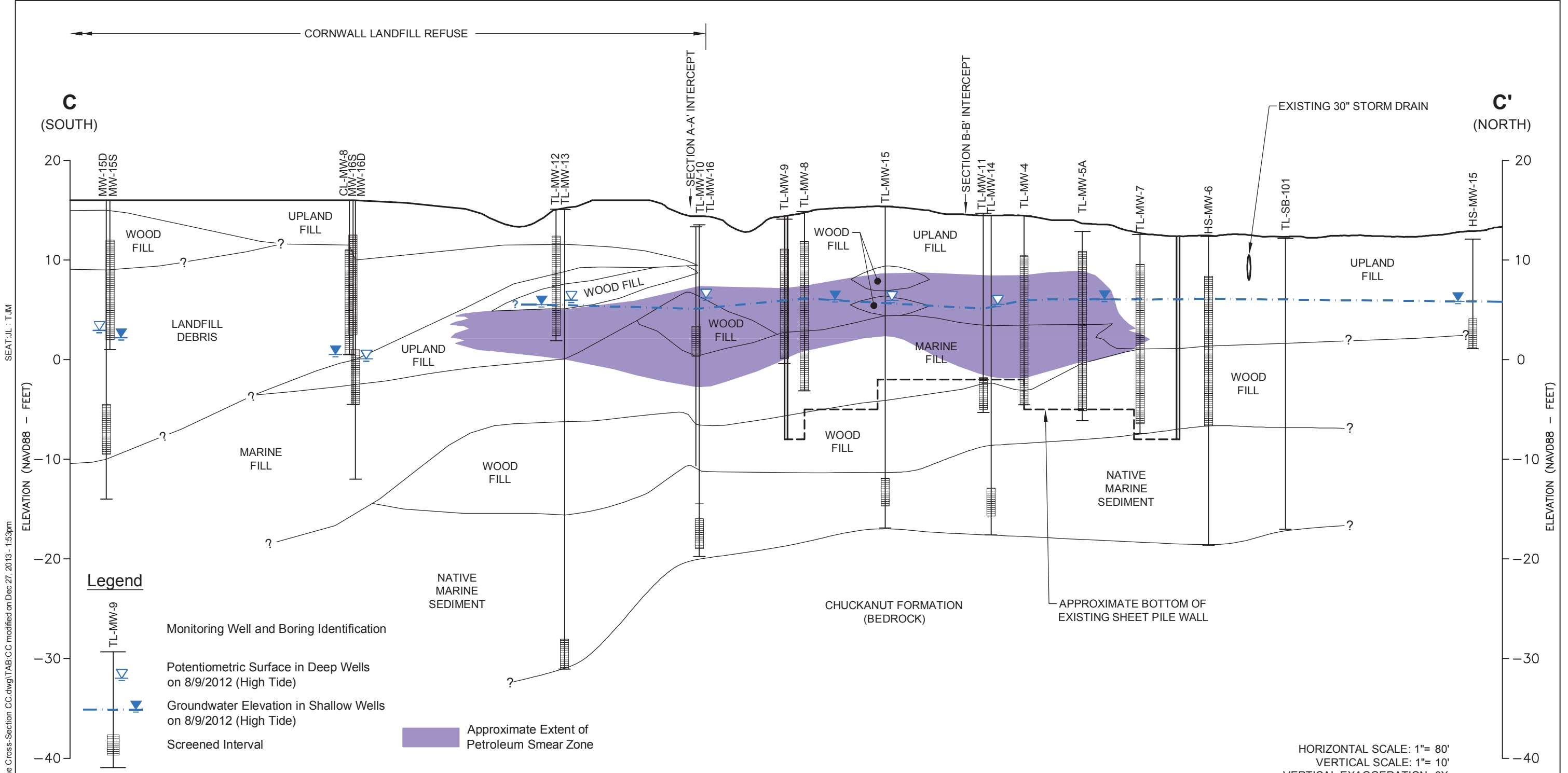
Chuckanut Formation: The Eocene-age Padden Member of the Chuckanut Formation is predominantly siltstone where encountered in borings.



Notes

1. Directions given on cross section line refer to Project North.
2. Smear Zone interpretation for upland area is based on moderate or heavy sheen in soil, and/or sum of diesel and heavy oil hydrocarbon concentrations greater than 500 mg/kg.
3. Drainage slot consists of coarse sand gravel backfill.
4. The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.
5. Please refer to Figure 6-4 for cross section location.
6. This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document.

Smear Zone Cross Section B-B'	
R.G. Haley Site Bellingham, Washington	
	Figure 6-6



P:\00356114\06\CAD\RI_FS Figures\Figure 6-7 Smear Zone Cross-Section CC.dwg\TAB:CC modified on Dec 27, 2013 - 1:53pm
 SEAT:JL : TJM

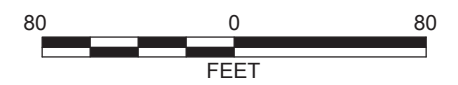
Legend

- Monitoring Well and Boring Identification
- Potentiometric Surface in Deep Wells on 8/9/2012 (High Tide)
- Groundwater Elevation in Shallow Wells on 8/9/2012 (High Tide)
- Screened Interval
- Approximate Extent of Petroleum Smear Zone

Notes

1. Directions given on cross section line refer to Project North.
2. Smear Zone interpretation for upland area is based on moderate or heavy sheen in soil, and/or sum of diesel and heavy oil hydrocarbon concentrations greater than 500 mg/kg.
3. Drainage slot consists of coarse sand gravel backfill.
4. The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.
5. Please refer to Figure 6-4 for cross section location.
6. Depth to groundwater in Cornwall wells MW-15D/15S and MW-16D/16S based on Cornwall RI (Landau 2013a) for September 2012 (high tide).
7. This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document.

HORIZONTAL SCALE: 1"= 80'
 VERTICAL SCALE: 1"= 10'
 VERTICAL EXAGGERATION: 8X



Smear Zone Cross Section C-C'	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-7

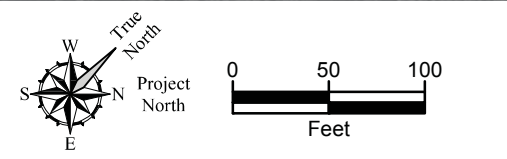
Landfill Debris: Miscellaneous municipal solid waste with variable amounts of silt, sand, gravel and wood debris.
Upland Fill: Predominantly poorly graded silty sand, sand, and gravel with some silt and variable amounts of coal fragments, brick fragments, and sawdust.
Marine Fill: Predominantly silt, silty sand, and poorly graded fine to medium grained sand with shell fragments and occasional wood fragments.
Wood Fill: At least 50 percent wood based on visual estimate with some silt and occasional sand. Wood present as sawdust, chips, or fragments.
Native Marine Sediment: Predominantly silt, silty sand, and poorly graded fine to coarse grained sand with occasional gravel, shell fragments, and wood fragments.
Chuckanut Formation: The Eocene-age Padden Member of the Chuckanut Formation is predominantly siltstone where encountered in borings.

Path: \\sea\projects\0356114\GIS\MXDs\Fig_6-8\06-11_Soil_TPH.mxd Map Revised: 23 July 2015 cgonzales



SOUTH BAY TRAIL

BOULEVARD STREET



Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:
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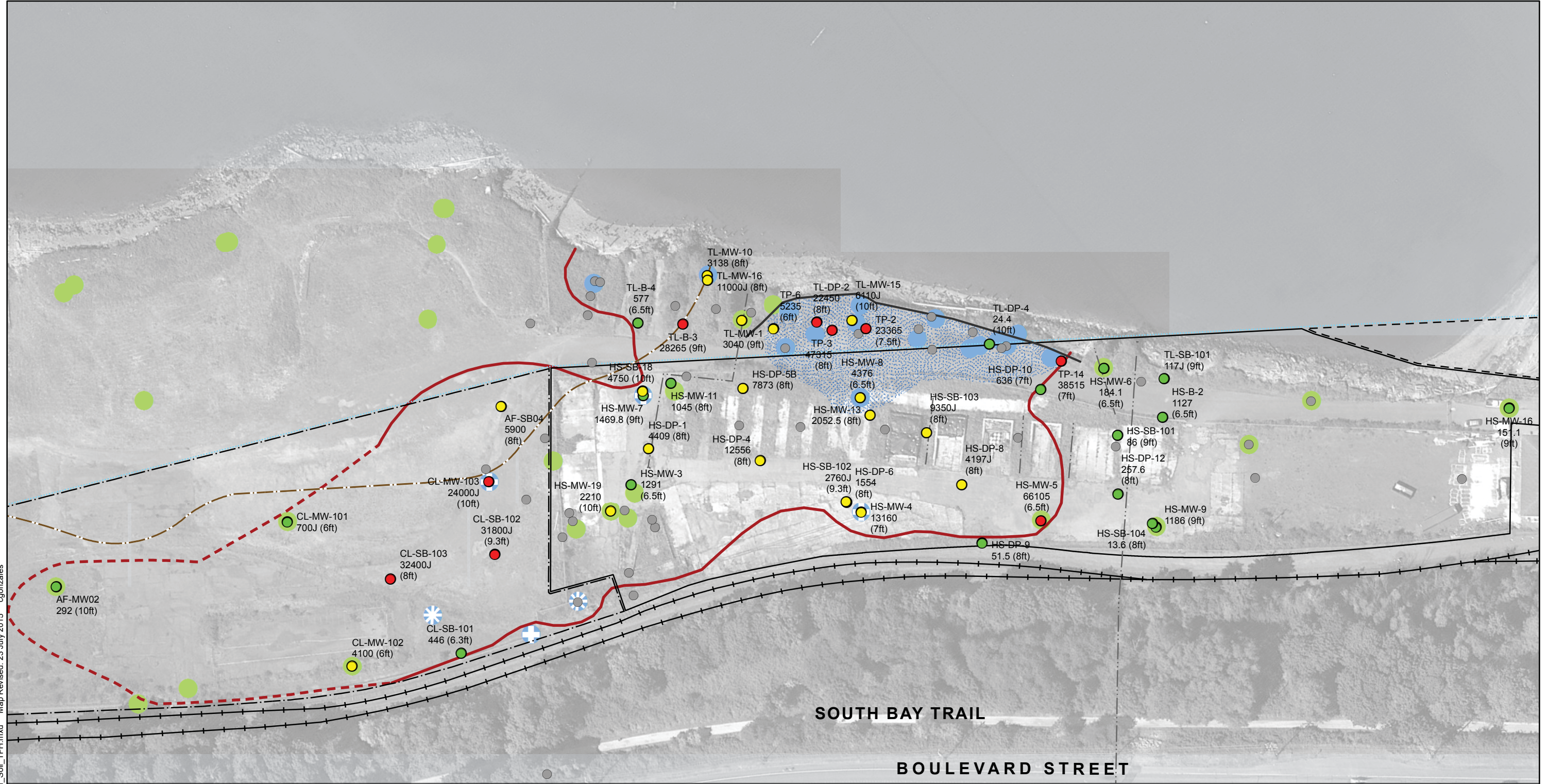
- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

- TPH (Sum of Diesel and Lube Oil)**
Screening Level = 1534 mg/kg
- Result ≥10x Screening Level
 - Result >1x and <10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- Storm Drain
- Cornwall Approximate Landward Boundary of Landfill Refuse

TPH in Soil (0-5ft)	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-8

Path: \\sea\projects\0356114\GIS\MXDs\Fig_6-8to6-11_Soil_TPH.mxd Map Revised: 23 July 2015 cgonzales



Legend

- Soil Exploration Location
- Current Measurable LNAPL in Well
- ⊕ Current Trace LNAPL in Well
- ★ Historical LNAPL (Not Currently Present)
- LNAPL Never Observed
- LNAPL Plume
- - - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

TPH (Sum of Diesel and Lube Oil)
Screening Level = 1534 mg/kg

- Result ≥10x Screening Level
- Result >1x and <10x Screening Level
- Result ≤ Screening Level
- Non-detect Result With PQL > Screening Level

Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

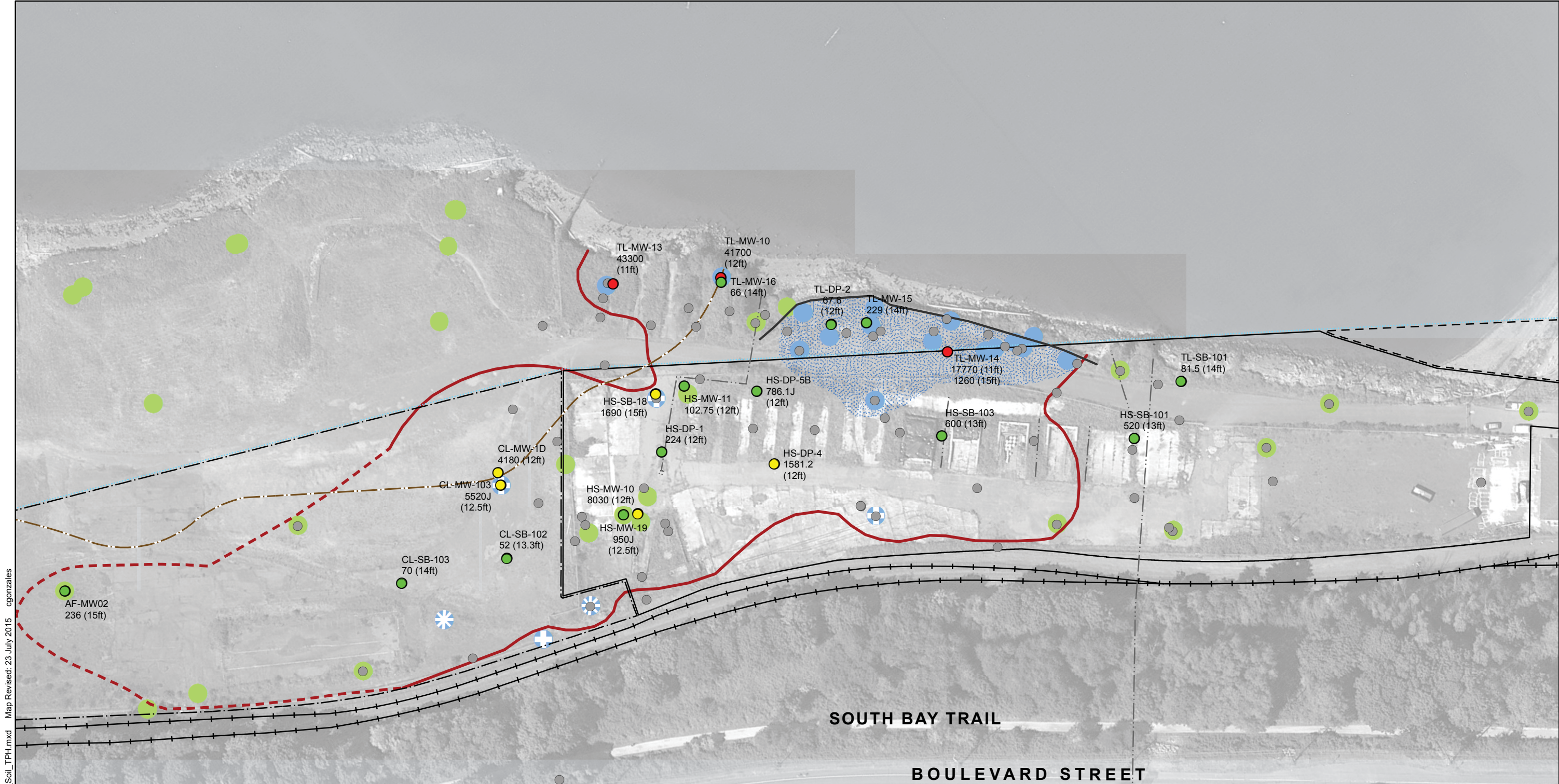
City Owned Property, Former R.G. Haley International
 Cornwall Property
 Port of Bellingham Property
 Inner Harbor Line
 Sheet Pile Wall
 Storm Drain
 Cornwall Approximate Landward Boundary of Landfill Refuse

TPH in Soil (5-10ft)

R.G. Haley Site
 Bellingham, Washington

GEOENGINEERS

Figure 6-9



Path: \\sea\projects\0356114\GIS\MXDs\Fig_6-8to6-11_Soil_TPH.mxd Map Revised: 23 July 2015 cgonzales

Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet
 Notes:
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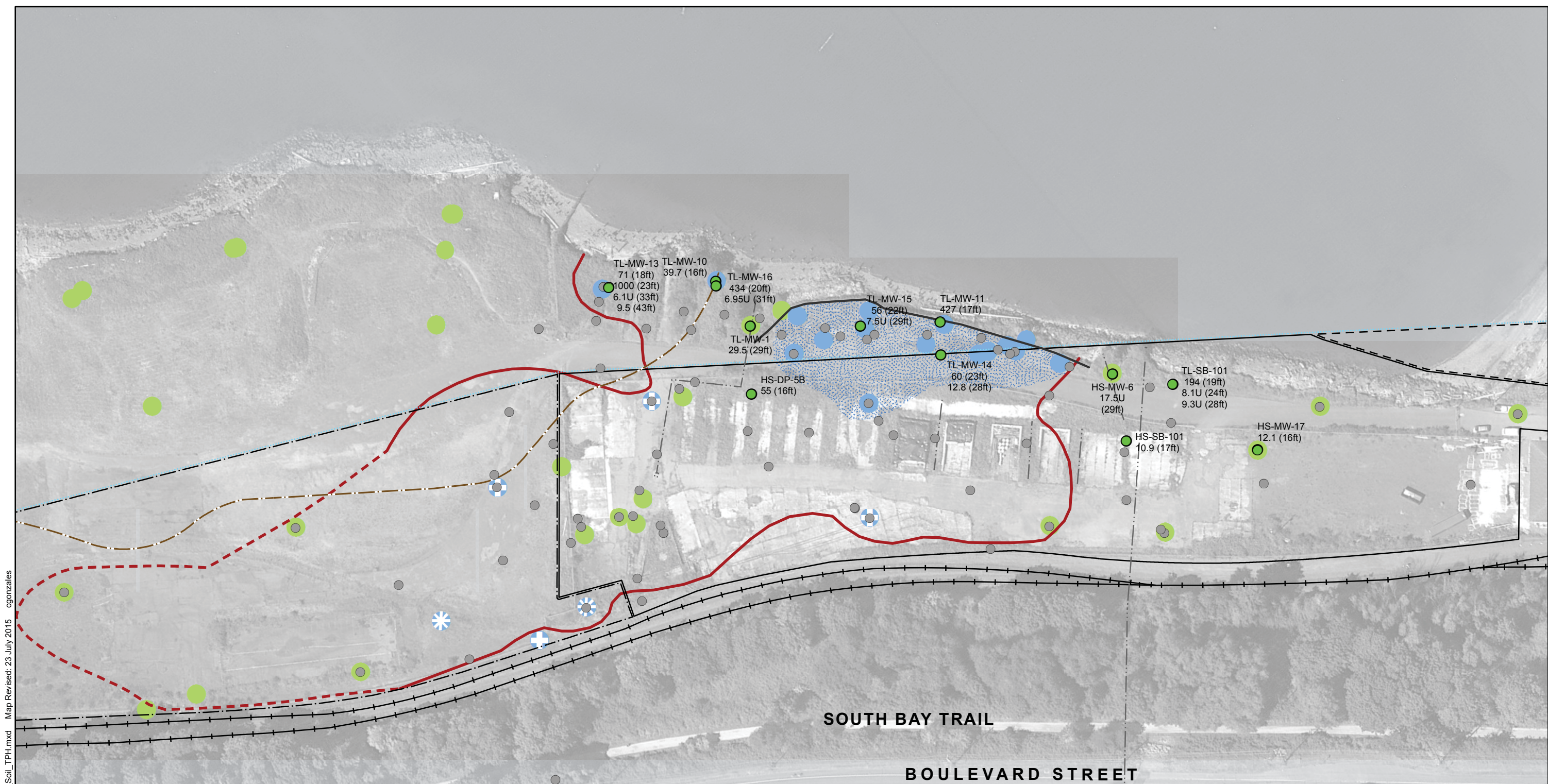
- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

- TPH (Sum of Diesel and Lube Oil)**
Screening Level = 1534 mg/kg
- Result ≥ 10x Screening Level
 - Result > 1x and < 10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- Storm Drain
- Cornwall Approximate Landward Boundary of Landfill Refuse

TPH in Soil (10-15ft)	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-10

Path: \\sea\projects\0356114\GIS\MXDs\Fig_6-8to6-11_Soil_TPH.mxd Map Revised: 23 July 2015 cgonzales



Legend

- Soil Exploration Location
- Current Measurable LNAPL in Well
- ⊕ Current Trace LNAPL in Well
- ⊗ Historical LNAPL (Not Currently Present)
- LNAPL Never Observed
- LNAPL Plume
- Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

TPH (Sum of Diesel and Lube Oil)
Screening Level = 1534 mg/kg

- Result ≥10x Screening Level
- Result >1x and <10x Screening Level
- Result ≤ Screening Level
- Non-detect Result With PQL > Screening Level

Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

Legend

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- Storm Drain
- Cornwall Approximate Landward Boundary of Landfill Refuse

Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

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TPH in Soil (>15ft)

R.G. Haley Site
 Bellingham, Washington

GEOENGINEERS

Figure 6-11



Path: \\sea\projects\0356114\GIS\MXDs\Fig_6-12\06-15_Soil_1Methyl.mxd Map Revised: 23 July 2015 cgonzales

Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:
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Legend

- Soil Exploration Location
- Current Measurable LNAPL in Well
- ⊕ Current Trace LNAPL in Well
- ⊗ Historical LNAPL (Not Currently Present)
- LNAPL Never Observed
- LNAPL Plume
- Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

1-Methylnaphthalene
Screening Level = 42 µg/kg

- Result ≥ 10x Screening Level
- Result > 1x and < 10x Screening Level
- Result ≤ Screening Level
- Non-detect Result With PQL > Screening Level

Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- - - Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- - - Storm Drain
- - - Cornwall Approximate Landward Boundary of Landfill Refuse

1-Methylnaphthalene in Soil (0-5ft)

R.G. Haley Site
 Bellingham, Washington

GEOENGINEERS

Figure 6-12



Path: \\seaprojects\0356114\GIS\MXDs\Fig_6-12\06-15_Soil_1Methyl.mxd Map Revised: 23 July 2015 cgonzales

Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:
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Legend

- Soil Exploration Location
- Current Measurable LNAPL in Well
- ⊕ Current Trace LNAPL in Well
- ⊗ Historical LNAPL (Not Currently Present)
- LNAPL Never Observed
- LNAPL Plume
- - - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

1-Methylnaphthalene
Screening Level = 42 µg/kg

- Result ≥ 10x Screening Level
- Result > 1x and < 10x Screening Level
- Result ≤ Screening Level
- Non-detect Result With PQL > Screening Level

Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

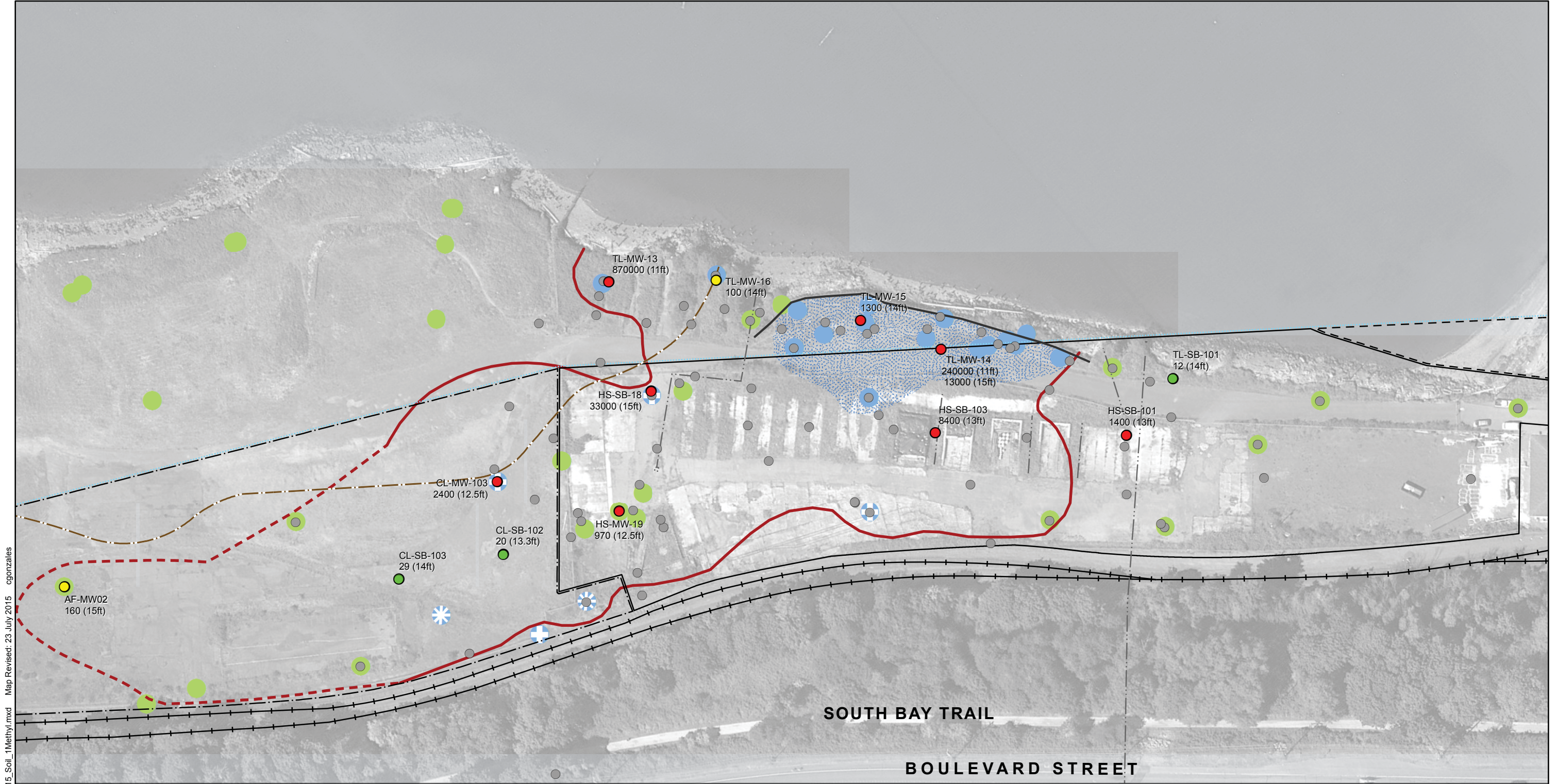
- City Owned Property, Former R.G. Haley International
- - - Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- - - Storm Drain
- - - Cornwall Approximate Landward Boundary of Landfill Refuse

1-Methylnaphthalene in Soil (5-10ft)

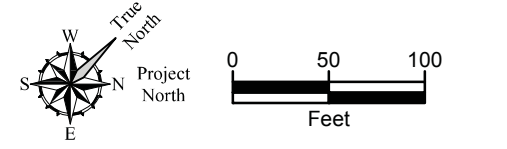
R.G. Haley Site
 Bellingham, Washington

GEOENGINEERS

Figure 6-13



Path: \\seap\projects\0356114\GIS\MXDs\Fig_6-12\06-15_Soil_1Methyl.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:
 1. The locations of all features shown are approximate.
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- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - - - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

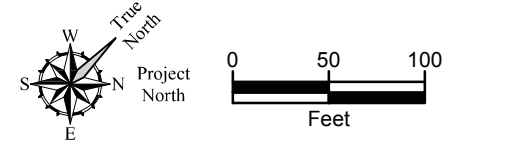
- 1-Methylnaphthalene**
Screening Level = 42 µg/kg
- Result ≥ 10x Screening Level
 - Result > 1x and < 10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- - - Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- - - Storm Drain
- - - Cornwall Approximate Landward Boundary of Landfill Refuse

1-Methylnaphthalene in Soil (10-15ft)	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-14



Path: \\seaprojects\0356114\GIS\MXDs\Fig_6-12\06-15_Soil_1Methyl.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

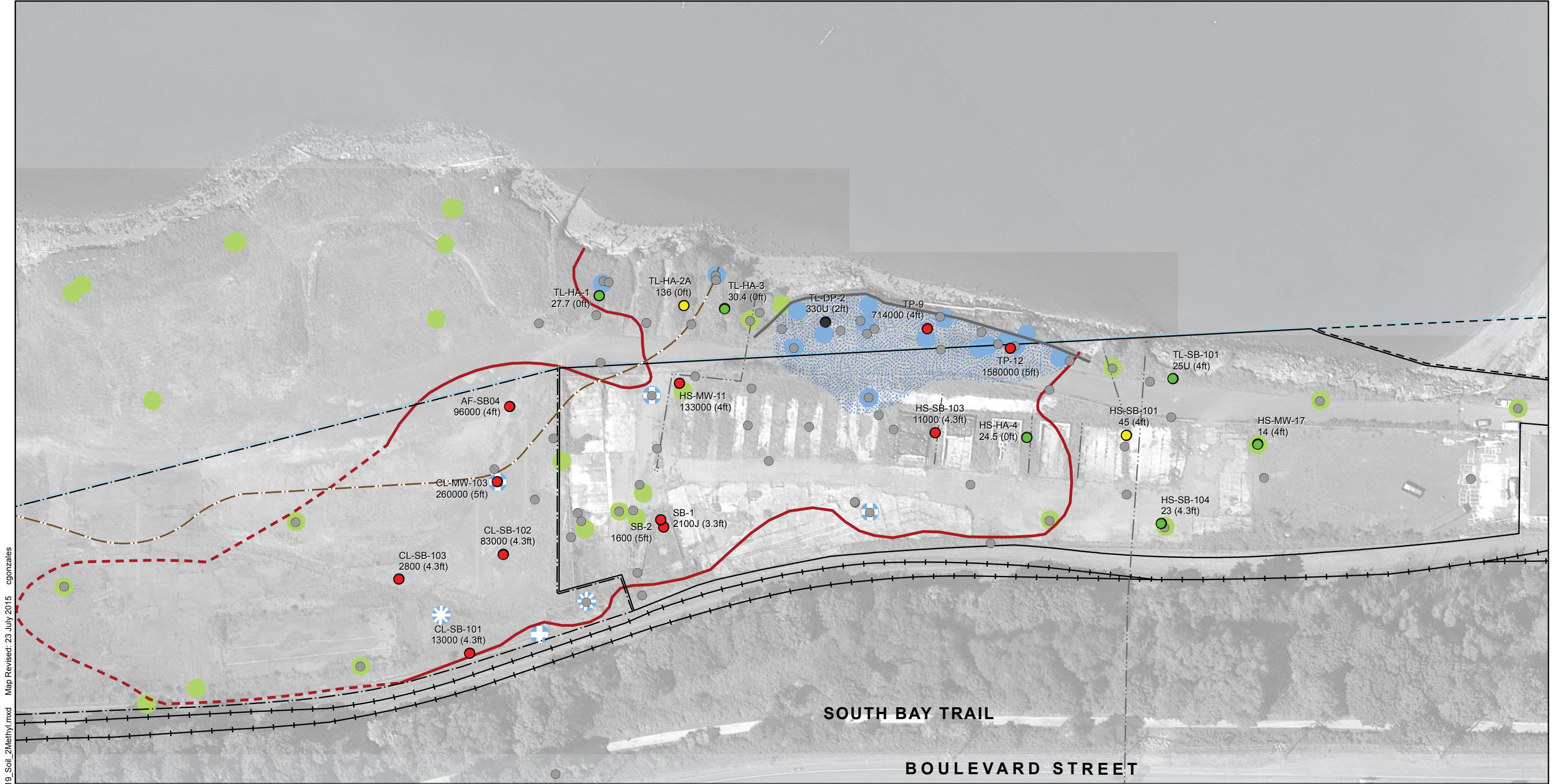
Notes:
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- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

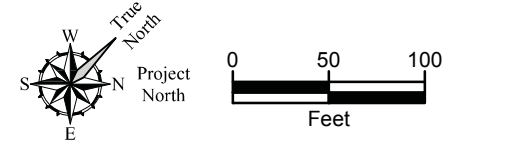
- 1-Methylnaphthalene**
Screening Level = 42 µg/kg
- Result ≥10x Screening Level
 - Result >1x and <10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- - - Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- - - Storm Drain
- - - Cornwall Approximate Landward Boundary of Landfill Refuse

1-Methylnaphthalene in Soil (>15ft)	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-15



Path: \\seaprojects\0356114\GIS\MXDs\Fig_6-16\06-19_Soil_2Methyl.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.
Projection: NAD 1983 StatePlane Washington North FIPS 4601 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.

- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - - - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

- 2-Methylnaphthalene**
Screening Level = 41 µg/kg
- Result ≥ 10x Screening Level
 - Result > 1x and < 10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

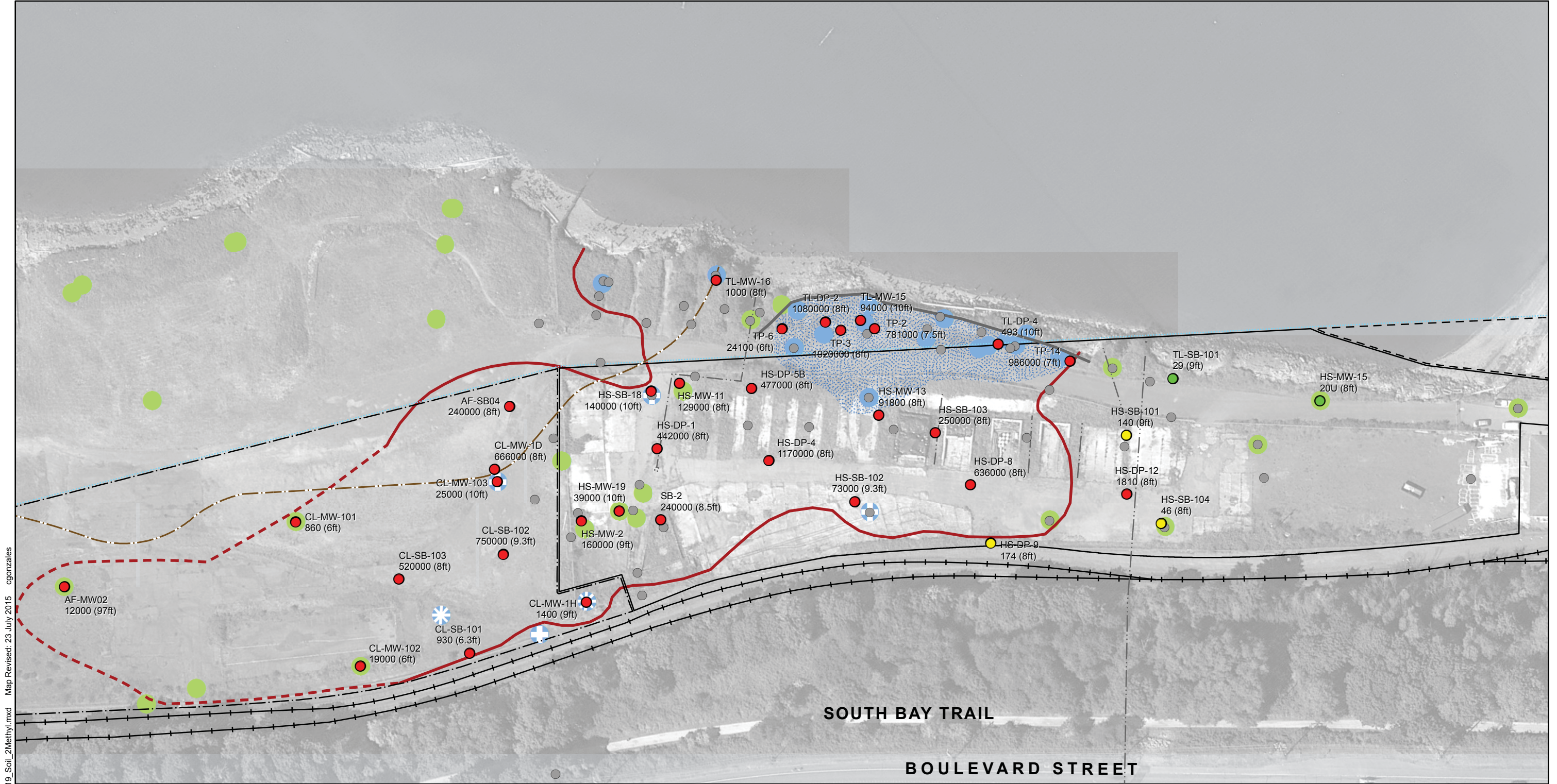
- City Owned Property, Former R.G. Haley International
- - - Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- - - Storm Drain
- - - Cornwall Approximate Landward Boundary of Landfill Refuse

2-Methylnaphthalene in Soil (0-5ft)

R.G. Haley Site
Bellingham, Washington

GEOENGINEERS

Figure 6-16



Path: \\server\projects\0356114\GIS\MXDs\Fig_6-16\06-19_Soil_2Methyl.mxd
 Map Revised: 23 July 2015
 cgonzales

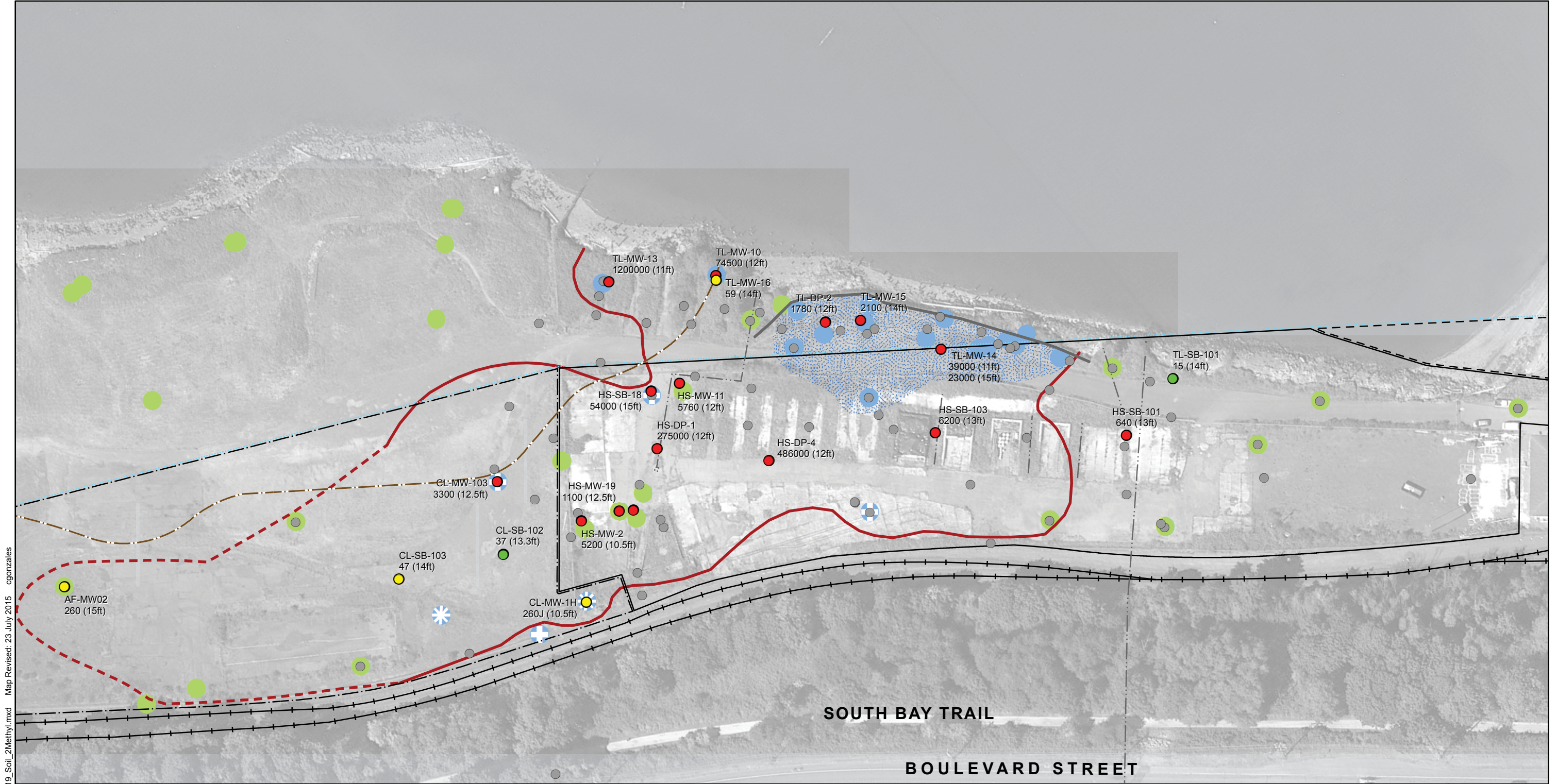
Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet
 Notes:
 1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. 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.

- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - - - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

- 2-Methylnaphthalene**
Screening Level = 41 µg/kg
- Result ≥ 10x Screening Level
 - Result > 1x and < 10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- - - Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- - - Storm Drain
- - - Cornwall Approximate Landward Boundary of Landfill Refuse

2-Methylnaphthalene in Soil (5-10ft)	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-17



Path: \\seaprojects\0356114\GIS\MXDs\Fig_6-16\06-19_Soil_2Methyl.mxd Map Revised: 23 July 2015 cgonzales

Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 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.

Legend

- Soil Exploration Location
- Current Measurable LNAPL in Well
- ⊕ Current Trace LNAPL in Well
- ⊗ Historical LNAPL (Not Currently Present)
- LNAPL Never Observed
- LNAPL Plume
- - - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

2-Methylnaphthalene

Screening Level = 41 µg/kg

- Result ≥ 10x Screening Level
- Result > 1x and < 10x Screening Level
- Result ≤ Screening Level
- Non-detect Result With PQL > Screening Level

Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

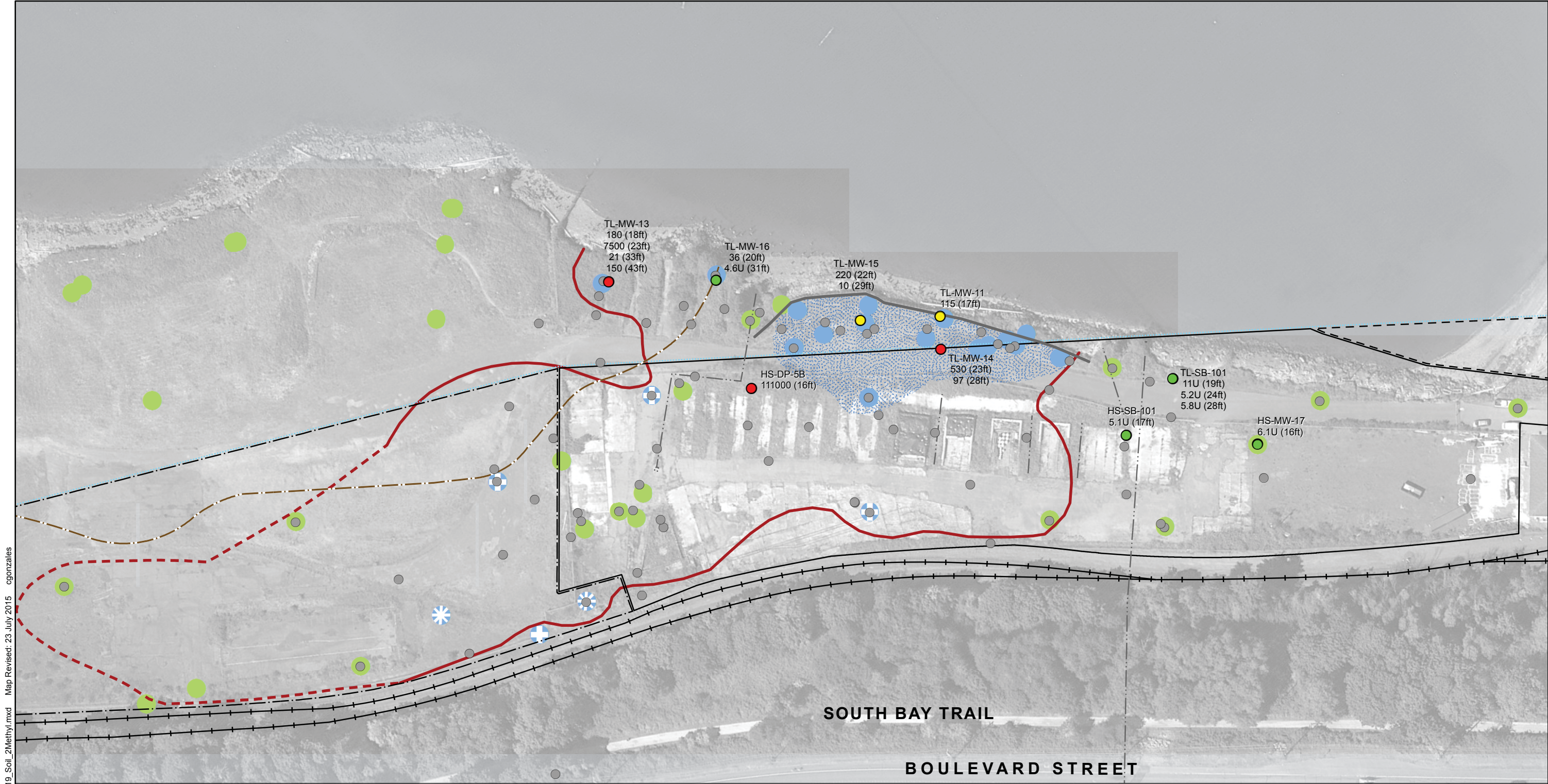
- City Owned Property, Former R.G. Haley International
- - - Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- - - Storm Drain
- - - Cornwall Approximate Landward Boundary of Landfill Refuse

2-Methylnaphthalene in Soil (10-15ft)

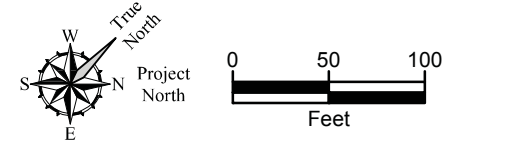
R.G. Haley Site
 Bellingham, Washington

GEOENGINEERS

Figure 6-18



Path: \\sea\projects\0356114\GIS\MXDs\Fig_6-16\06-19_Soil_2Methyl.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:
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- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - - - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

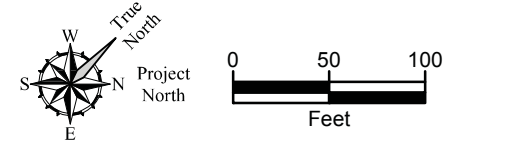
- 2-Methylnaphthalene**
Screening Level = 41 µg/kg
- Result ≥ 10x Screening Level
 - Result > 1x and < 10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- - - Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- - - Storm Drain
- - - Cornwall Approximate Landward Boundary of Landfill Refuse

2-Methylnaphthalene in Soil (>15ft)	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-19



Path: \\sea\projects\0356114\GIS\MXDs\Fig_6-20\06-23_Soil_BenzoAnthracene.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

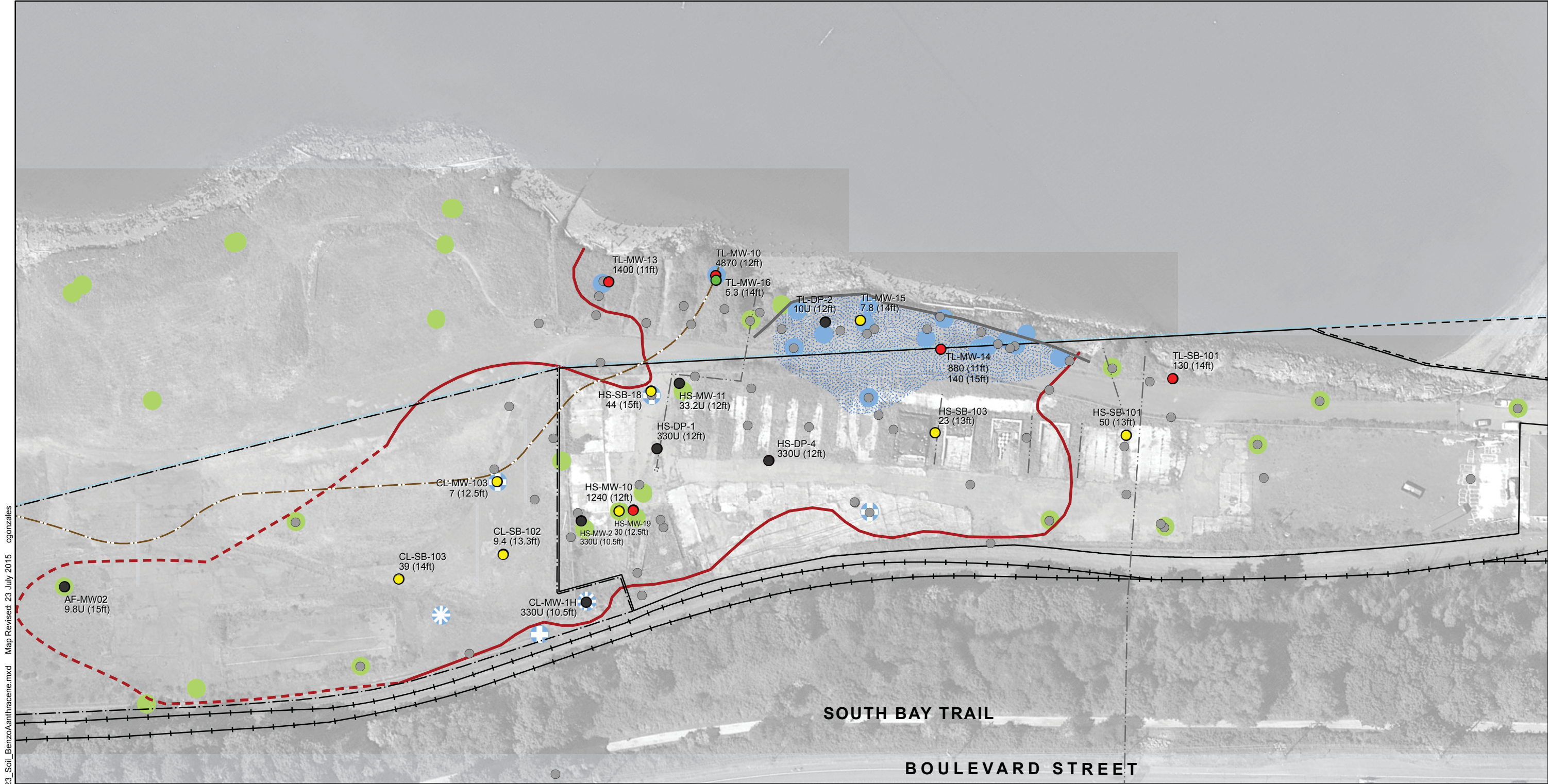
Notes:
 1. The locations of all features shown are approximate.
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- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

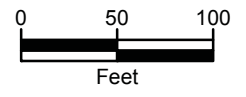
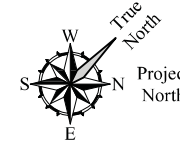
- Benzo(a)anthracene**
Screening Level = 6.5 µg/kg
- Result ≥10x Screening Level
 - Result >1x and <10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- Storm Drain
- Cornwall Approximate Landward Boundary of Landfill Refuse

Benzo(a)anthracene in Soil (0-5ft)	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-20



Path: \\sa\projects\0356114\GIS\MXDs\Fig_6-20\06-23_Soil_BenzoAnthracene.mxd Map Revised: 23 July 2015 cgonzales



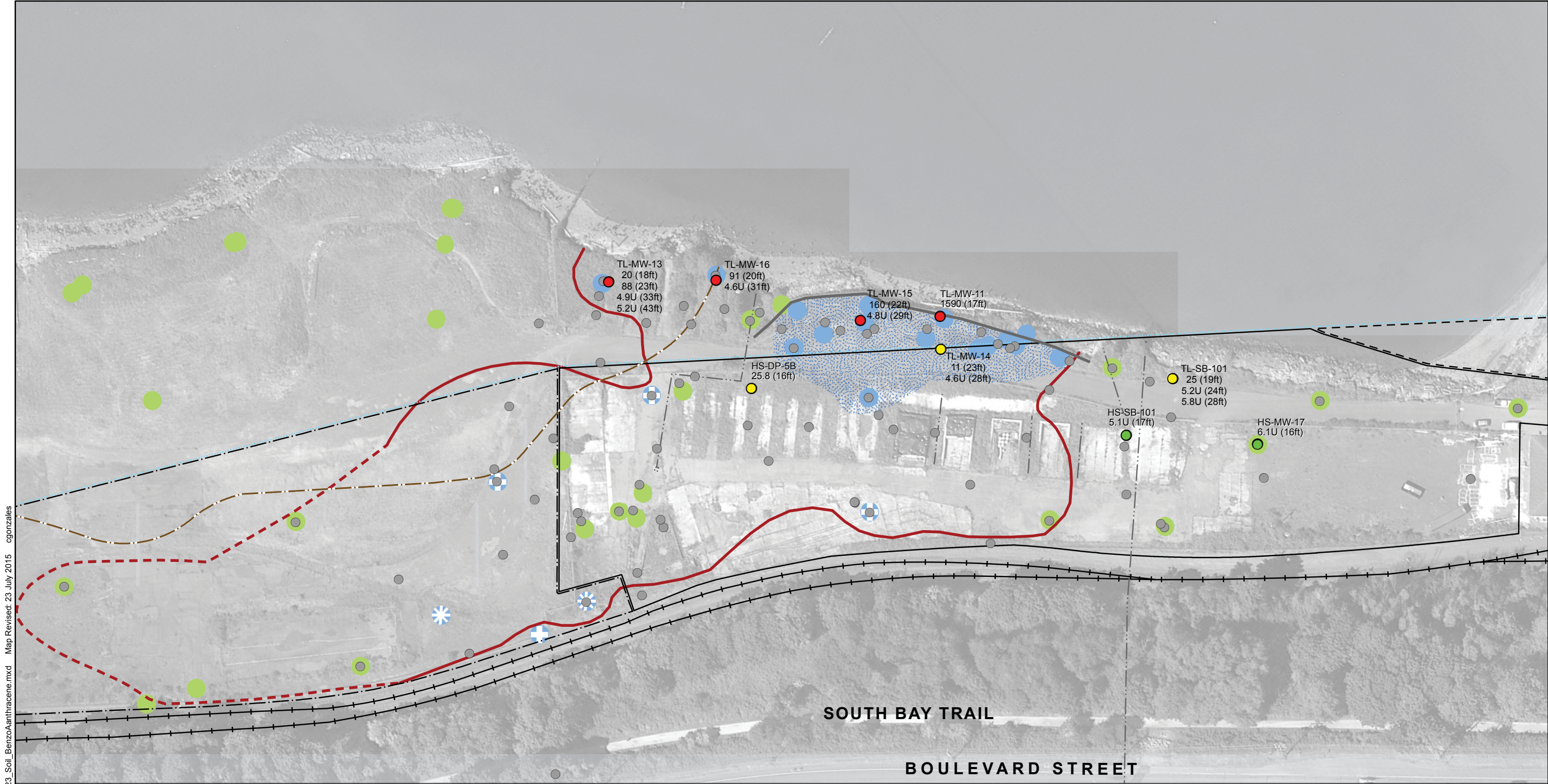
Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet
 Notes:
 1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. 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.

- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

- Benzo(a)anthracene**
Screening Level = 6.5 µg/kg
- Result ≥10x Screening Level
 - Result >1x and <10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- Storm Drain
- Cornwall Approximate Landward Boundary of Landfill Refuse

Benzo(a)anthracene in Soil (10-15ft)	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-22



Path: \\sea\projects\0356114\GIS\MXDs\Fig_6-20\06-23_Soil_BenzoAnthracene.mxd Map Revised: 23 July 2015 cgonzales

Data Source: Aerial from Google Earth, August 2011.

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:

- The locations of all features shown are approximate.
- 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.

Legend

- Soil Exploration Location
- Current Measurable LNAPL in Well
- ⊕ Current Trace LNAPL in Well
- ⊗ Historical LNAPL (Not Currently Present)
- LNAPL Never Observed
- LNAPL Plume
- Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

Benzo(a)anthracene

Screening Level = 6.5 µg/kg

- Result ≥10x Screening Level
- Result >1x and <10x Screening Level
- Result ≤ Screening Level
- Non-detect Result With PQL > Screening Level

Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

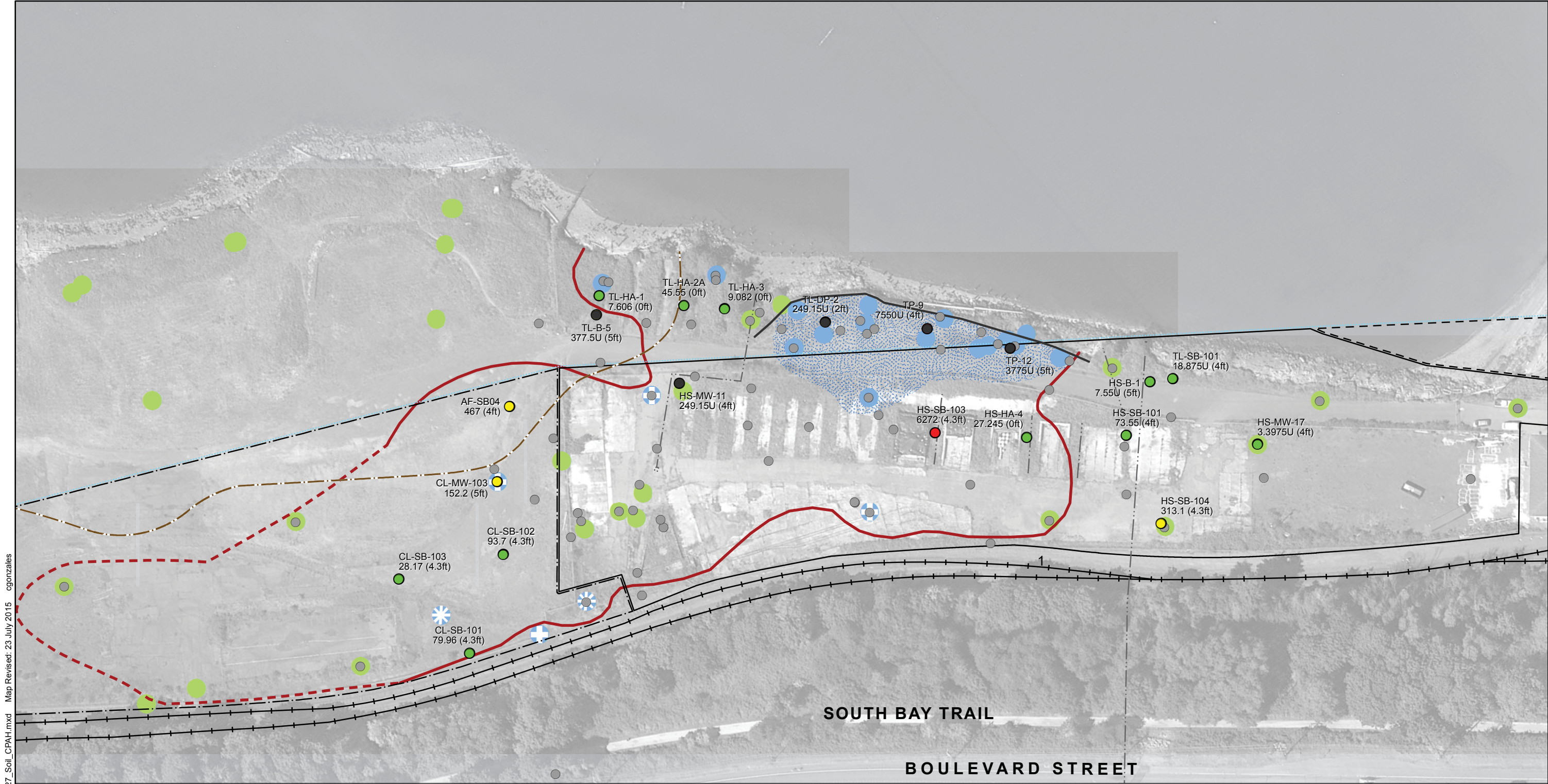
- City Owned Property, Former R.G. Haley International
- Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- Storm Drain
- Cornwall Approximate Landward Boundary of Landfill Refuse

Benzo(a)anthracene in Soil (>15ft)

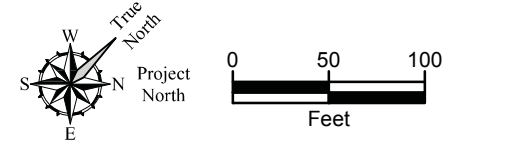
R.G. Haley Site
Bellingham, Washington

GEOENGINEERS

Figure 6-23



Path: \\sear\projects\03056114\GIS\MXDs\Fig_6-24\06-27_Soil_CPAH.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:

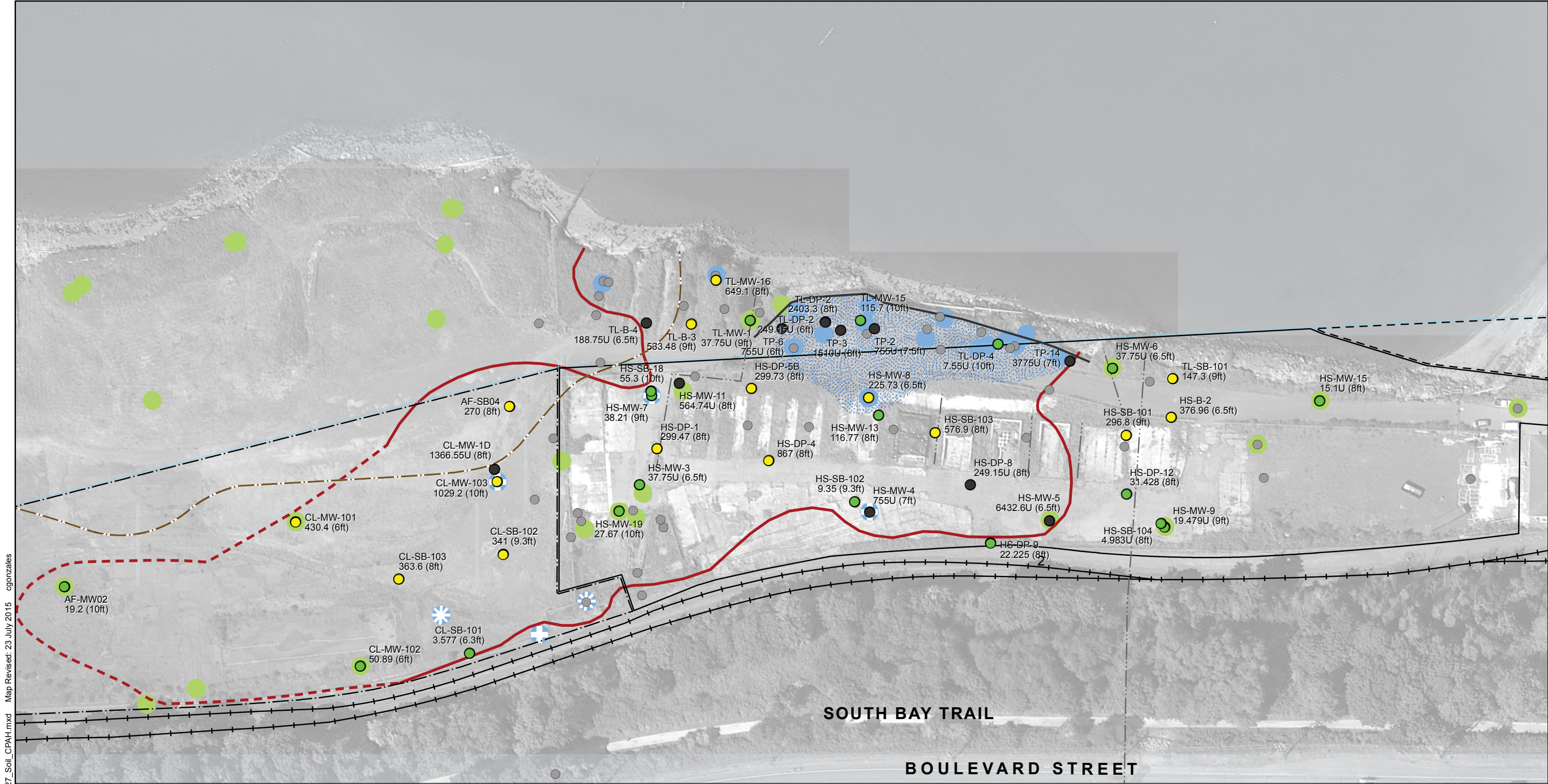
- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - ⊗ LNAPL Plume
 - ⋯ Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

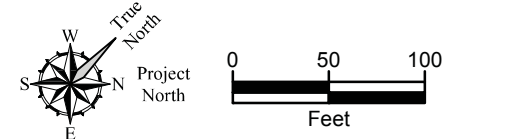
- cPAH TEQ**
- Screening Level = 137 µg/kg**
- Result ≥10x Screening Level
 - Result >1x and <10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15 ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- ⋯ Storm Drain
- ⋯ Cornwall Approximate Landward Boundary of Landfill Refuse

cPAH TEQ in Soil (0-5ft)	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-24



Path: \\sear\projects\03056114\GIS\MXDs\Fig_6-24\06-27_Soil_CPAH.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:

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- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

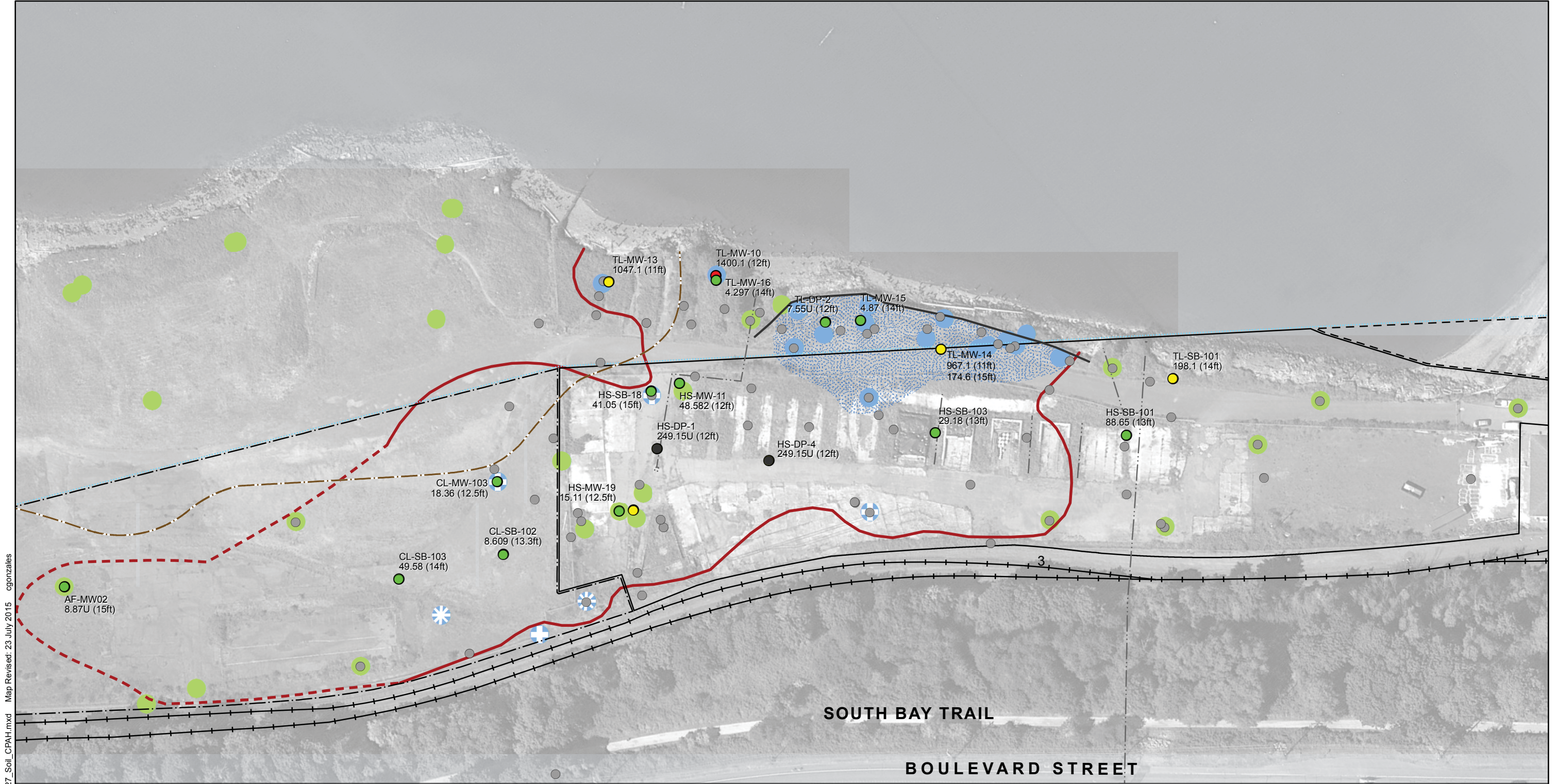
- cPAH TEQ**
- Screening Level = 137 µg/kg
- Result ≥10x Screening Level
 - Result >1x and <10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- Storm Drain
- Cornwall Approximate Landward Boundary of Landfill Refuse

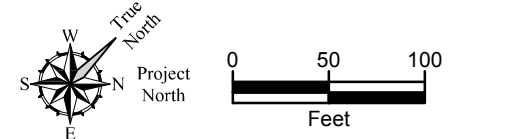
cPAH TEQ in Soil (5-10ft)

R.G. Haley Site
Bellingham, Washington

GEOENGINEERS **Figure 6-25**



Path: \\seaprojects\03056114\GIS\MXDs\Fig_6-24\06-27_Soil_CPAH.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:

- The locations of all features shown are approximate.
- 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.

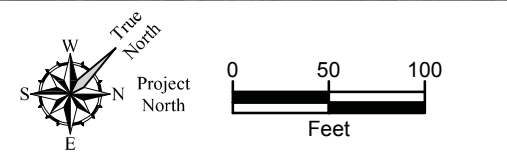
- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

- cPAH TEQ**
- Screening Level = 137 µg/kg
- Result ≥10x Screening Level
 - Result >1x and <10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- - - Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- - - Storm Drain
- - - Cornwall Approximate Landward Boundary of Landfill Refuse

cPAH TEQ in Soil (10-15ft)	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-26

Path: \\seaprojects\0356114\GIS\MXDs\Fig_6-24\6-27_Soil_CPAH.mxd Map Revised: 23 July 2015 cgonzales



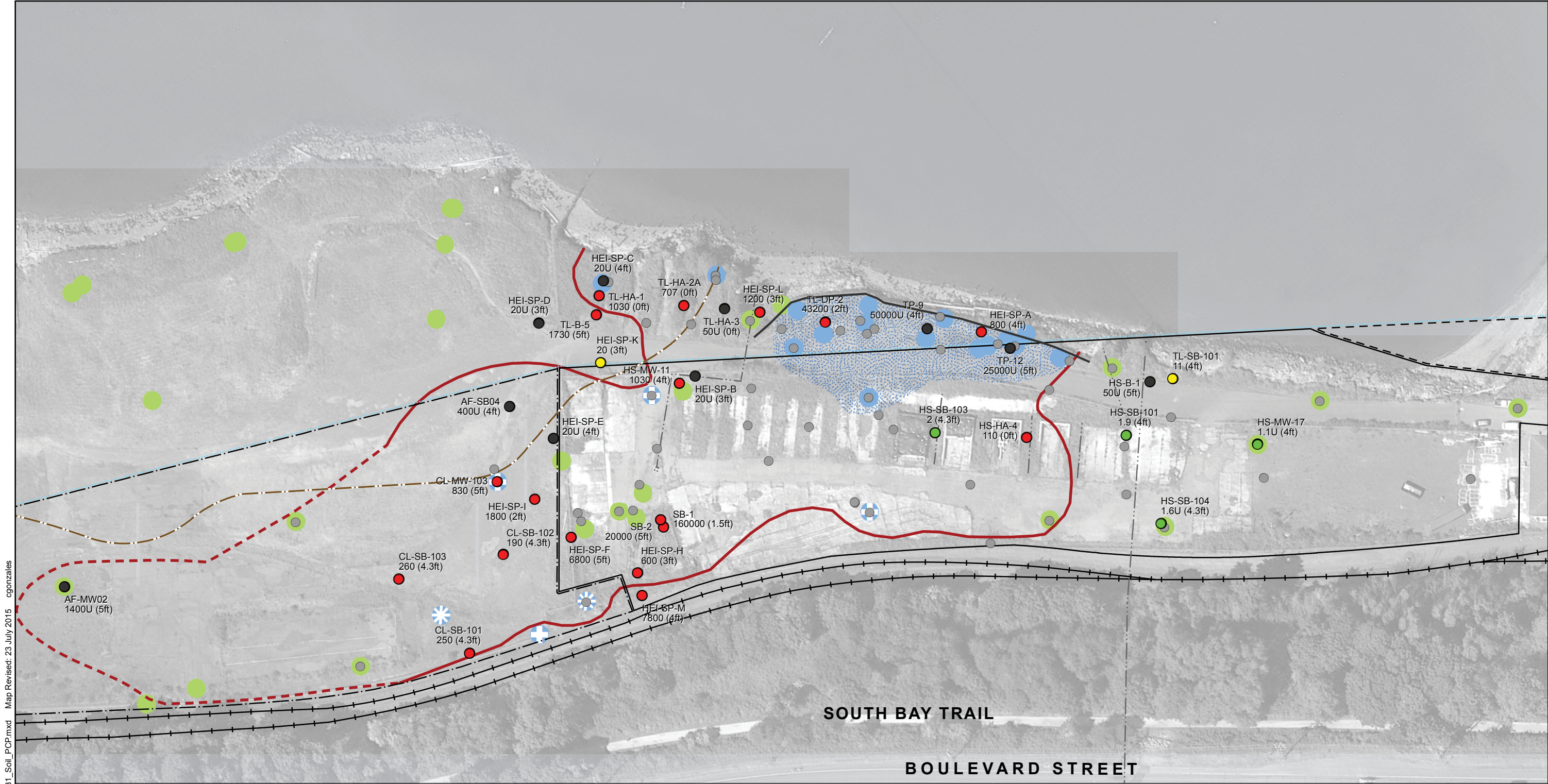
Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet
 Notes:
 1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. 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.

- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - ⊗ LNAPL Plume
 - ⋯ Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

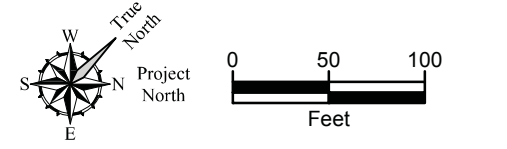
- cPAH TEQ**
Screening Level = 137 µg/kg
- Result ≥10x Screening Level
 - Result >1x and <10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- - - Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- ⋯ Storm Drain
- ⋯ Cornwall Approximate Landward Boundary of Landfill Refuse

cPAH TEQ in Soil (>15ft)	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-27



Path: \\sear\projects\0356114\GIS\MXDs\Fig_6-28\06-31_Soil_PCP.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 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.

- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

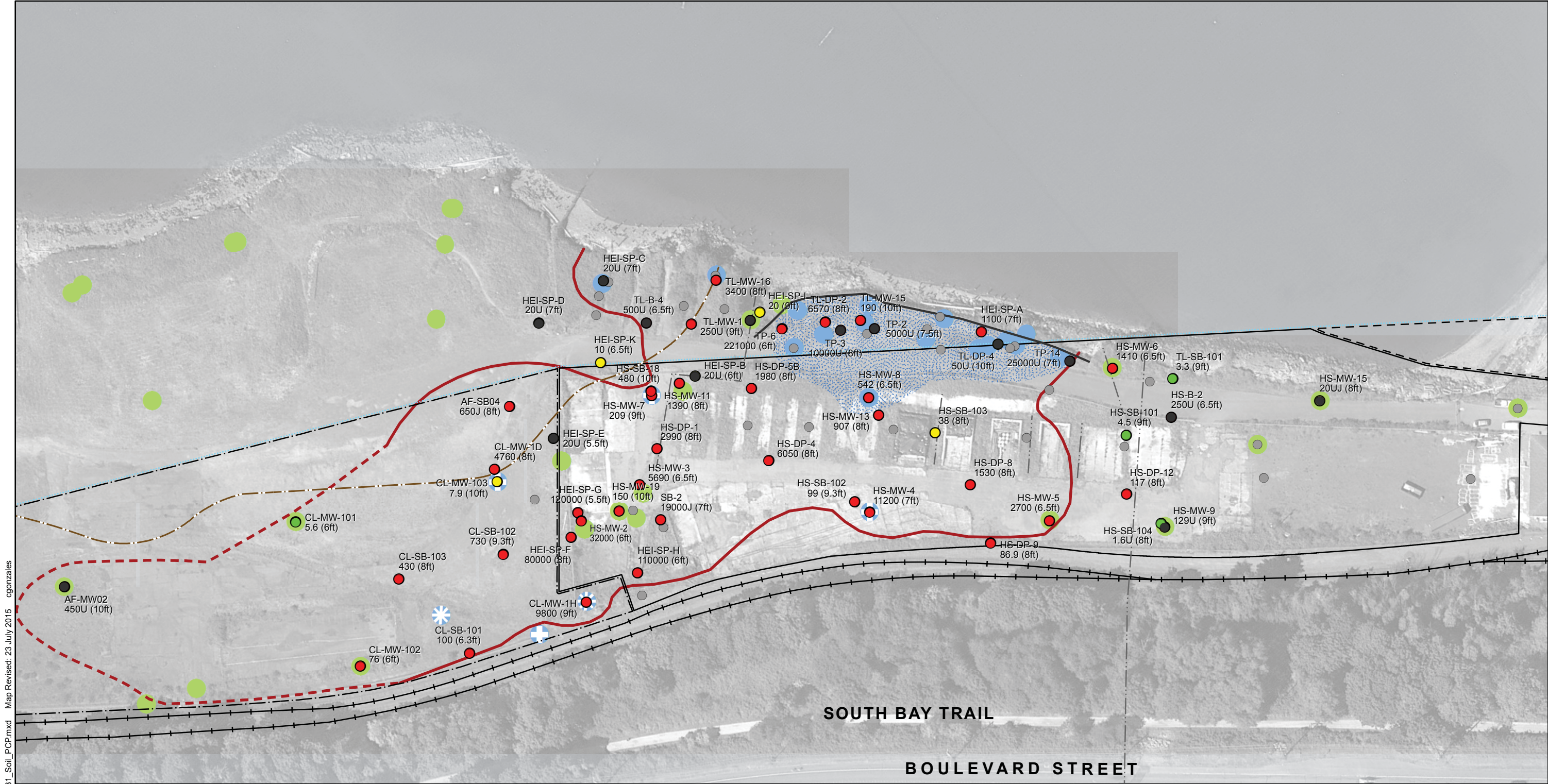
- Pentachlorophenol**
Screening Level = 6.3 µg/kg
- Result ≥10x Screening Level
 - Result >1x and <10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- Port of Bellingham Property
- ⋯ Inner Harbor Line
- Sheet Pile Wall
- Storm Drain
- Cornwall Approximate Landward Boundary of Landfill Refuse
- Non Detect and PQL > SL

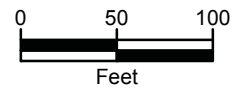
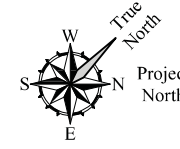
Pentachlorophenol in Soil (0-5ft)

R.G. Haley Site
Bellingham, Washington

Figure 6-28



Path: \\sear\projects\0356114\GIS\MXDs\Fig_6-28\06-31_Soil_PCP.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 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.

- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

- Pentachlorophenol**
Screening Level = 6.3 µg/kg
- Result ≥10x Screening Level
 - Result >1x and <10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- Port of Bellingham Property
- Inner Harbor Line
- Sheet Pile Wall
- Storm Drain
- Cornwall Approximate Landward Boundary of Landfill Refuse
- Non Detect and PQL > SL

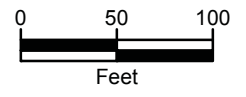
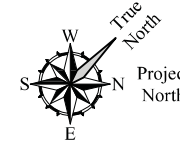
Pentachlorophenol in Soil (5-10ft)

R.G. Haley Site
Bellingham, Washington

Figure 6-29



Path: \\sear\projects\0356114\GIS\MXDs\Fig_6-28\06-31_Soil_PCP.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:
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- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

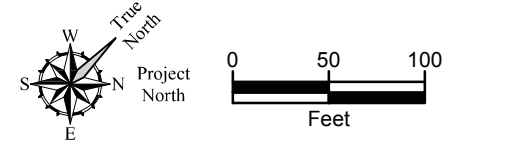
- Pentachlorophenol**
Screening Level = 6.3 µg/kg
- Result ≥10x Screening Level
 - Result >1x and <10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- Port of Bellingham Property
- Inner Harbor Line
- Sheet Pile Wall
- Storm Drain
- Cornwall Approximate Landward Boundary of Landfill Refuse
- Non Detect and PQL > SL

Pentachlorophenol in Soil (10-15ft)	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-30



Path: \\sear\projects\0356114\GIS\MXDs\Fig_6-28\06-31_Soil_PCP.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 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.

- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

- Pentachlorophenol**
 Screening Level = 6.3 µg/kg
- Result ≥10x Screening Level
 - Result >1x and <10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- Port of Bellingham Property
- Inner Harbor Line
- Sheet Pile Wall
- Storm Drain
- Cornwall Approximate Landward Boundary of Landfill Refuse
- Non Detect and PQL > SL

Pentachlorophenol in Soil (>15ft)	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-31



Path: \\seaprojects\0356114\GIS\MXDs\Fig_6-32\06-35_Soil_Dioxin\Furan.mxd Map Revised: 23 July 2015 cgonzales

Data Source: Aerial from Google Earth, August 2011.

 Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

 Notes:

 1. The locations of all features shown are approximate.

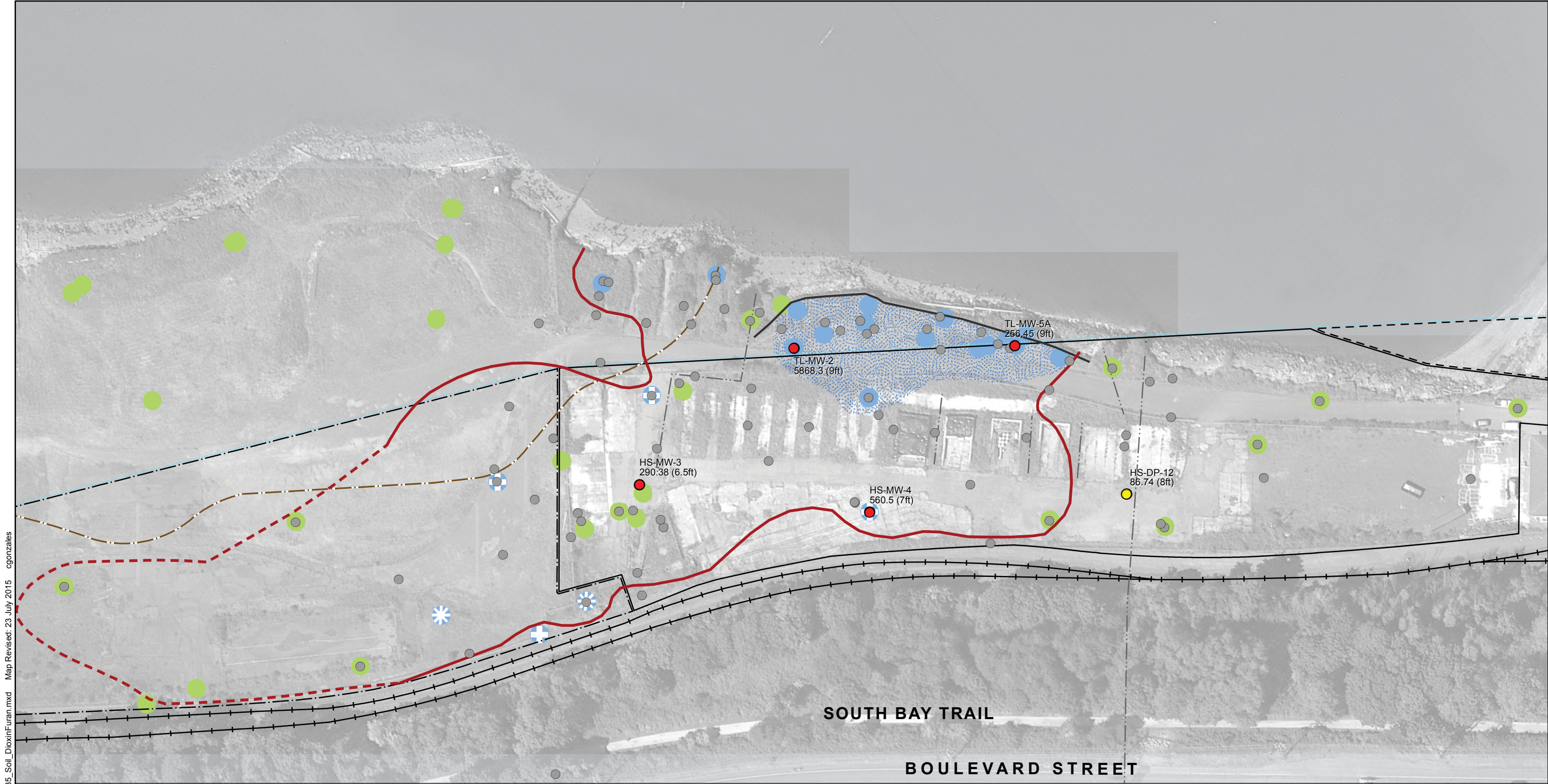
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - Current Trace LNAPL in Well
 - Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

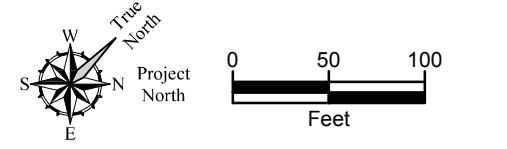
- Dioxin TEQ**
- Screening Level = 13 ng/kg**
- Result $\geq 10x$ Screening Level
 - Result $>1x$ and $<10x$ Screening Level
 - Result \leq Screening Level
 - Non-detect Result With PQL $>$ Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and $>$ 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- Port of Bellingham Property
- Inner Harbor Line
- Sheet Pile Wall
- Storm Drain
- Cornwall Approximate Landward Boundary of Landfill Refuse

Dioxin TEQ in Soil (0-5ft)	
R.G. Haley Site Bellingham, Washington	
	Figure 6-32



Path: \\sa\projects\0356114\GIS\MXDs\Fig_6-32\6-35_Soil_Dioxin\Furan.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.

Projection: NAD 1983 StatePlane Washington North FIPS 4601 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.

- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊗ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

- Dioxin TEQ**
Screening Level = 13 ng/kg
- Result ≥ 10x Screening Level
 - Result > 1x and < 10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- Port of Bellingham Property
- Inner Harbor Line
- Sheet Pile Wall
- Storm Drain
- Cornwall Approximate Landward Boundary of Landfill Refuse

Dioxin TEQ in Soil (5-10ft)	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-33



Path: \\seaprojects\0356114\GIS\MXDs\Fig_6-32\06-35_Soil_Dioxin\Furan.mxd Map Revised: 23 July 2015 cgonzales

Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 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.

Legend

- Soil Exploration Location
- Current Measurable LNAPL in Well
- ⊕ Current Trace LNAPL in Well
- ★ Historical LNAPL (Not Currently Present)
- LNAPL Never Observed
- LNAPL Plume
- Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

Dioxin TEQ

Screening Level = 13 ng/kg

- Result ≥ 10x Screening Level
- Result > 1x and < 10x Screening Level
- Result ≤ Screening Level
- Non-detect Result With PQL > Screening Level

Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and > 15ft zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- Port of Bellingham Property
- Inner Harbor Line
- Sheet Pile Wall
- Storm Drain
- Cornwall Approximate Landward Boundary of Landfill Refuse

Dioxin TEQ in Soil (10-15ft)	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-34



Path: \\sa\projects\0356114\GIS\MXDs\Fig_6-32\06-35_Soil_Dioxin\Furan.mxd Map Revised: 23 July 2015 cgonzales

Data Source: Aerial from Google Earth, August 2011.

 Projection: NAD 1983 StatePlane Washington North FIPS 4601 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.

- Legend**
- Soil Exploration Location
 - Current Measurable LNAPL in Well
 - Current Trace LNAPL in Well
 - Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

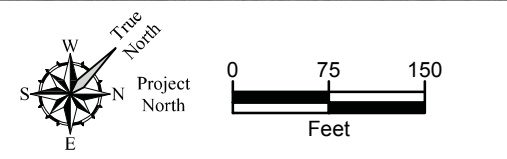
- Dioxin TEQ**
- Screening Level = 13 ng/kg**
- Result $\geq 10x$ Screening Level
 - Result $>1x$ and $<10x$ Screening Level
 - Result \leq Screening Level
 - Non-detect Result With PQL $>$ Screening Level
- Note: Sample depth shown is top of sample interval (feet bgs). If multiple samples were analyzed within 5 foot depth zone, sample with highest concentration only is shown for 0-5 ft. and 5-10 ft. zones; all results are shown for 10-15 ft. and $> 15ft$ zones, color corresponds to highest concentration. Gray (no color) used where no data for the sample depth or analyte.

- City Owned Property, Former R.G. Haley International
- Cornwall Property
- Port of Bellingham Property
- Inner Harbor Line
- Sheet Pile Wall
- Storm Drain
- Cornwall Approximate Landward Boundary of Landfill Refuse

Dioxin TEQ in Soil (>15ft)	
R.G. Haley Site Bellingham, Washington	
	Figure 6-35



Path: \\sa\projects\0356114\GIS\MXDs\Fig_6-36_GW_1Methyl.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 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.

- Legend**
- ⊕ Monitoring Well (discrete screen below groundwater table)
 - Monitoring Well (screened across groundwater table)
 - * Trace LNAPL in well at time of sampling
 - ** Measurable LNAPL in well at time of sampling
 - Monitoring Well Abandoned or Not Located as of 2012
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊕ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - LNAPL Plume

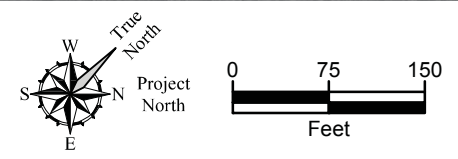
- 1-Methylnaphthalene**
Screening Level = 15.0 µg/l
- Result ≥10x Screening Level
 - Result >1x and <10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)
 Note: Gray (no color) used where no data for this analyte.

- All data shown represent 2012 groundwater samples except AF-MW01 and AF-MW02 were only sampled in July 2004 for certain analytes as noted. 2012 concentrations shown are the highest detected concentration for wells sampled more than once in 2012.
- Groundwater concentration contour color shading does not account for concentration data points at wells with deep well screens or where only 2004 data are available.
- Refer to Figure 6-1 for identification of property lines and other upland figures.

1-Methylnaphthalene in Groundwater May to September 2012	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-36



Path: \\seaprojects\03056114\GIS\MXDs\Fig_6-38_GW_Acenaphthene.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 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.

- Legend**
- ⊕ Monitoring Well (discrete screen below groundwater table)
 - Monitoring Well (screened across groundwater table)
 - * Trace LNAPL in well at time of sampling
 - ** Measurable LNAPL in well at time of sampling
 - Monitoring Well Abandoned or Not Located as of 2012
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊕ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - ⊕ LNAPL Plume

- Acenaphthene**
Screening Level = 3.3 ug/l
- Result ≥10x Screening Level
 - Result >1x and <10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)
- Note: Gray (no color) used where no data for this analyte.

- All data shown represent 2012 groundwater samples except AF-MW01 and AF-MW02 were only sampled in July 2004 for certain analytes as noted. 2012 concentrations shown are the highest detected concentration for wells sampled more than once in 2012.
- Groundwater concentration contour color shading does not account for concentration data points at wells with deep well screens or where only 2004 data are available.
- Refer to Figure 6-1 for identification of property lines and other upland figures.

**Acenaphthene in Groundwater
May to September 2012**

R.G. Haley Site
Bellingham, Washington

Figure 6-38



Path: \\seaprojects\0356114\GIS\MXDs\Fig_6-39_GW_BenzoAnthracene.mxd Map Revised: 23 July 2015 cgonzales

Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 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.

Legend

- ⊕ Monitoring Well (discrete screen below groundwater table)
- Monitoring Well (screened across groundwater table)
- * Trace LNAPL in well at time of sampling
- ** Measurable LNAPL in well at time of sampling
- Monitoring Well Abandoned or Not Located as of 2012
- Current Measurable LNAPL in Well
- ⊕ Current Trace LNAPL in Well
- ⊗ Historical LNAPL (Not Currently Present)
- LNAPL Never Observed
- LNAPL Plume

Benzo(a)anthracene
Screening Level = 0.018 ug/l

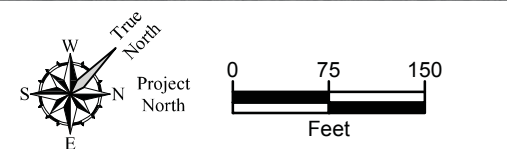
- Result ≥10x Screening Level
- Result >1x and <10x Screening Level
- Result ≤ Screening Level
- Non-detect Result With PQL > Screening Level
- Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)
 Note: Gray (no color) used where no data for this analyte.

- All data shown represent 2012 groundwater samples except AF-MW01 and AF-MW02 were only sampled in July 2004 for certain analytes as noted. 2012 concentrations shown are the highest detected concentration for wells sampled more than once in 2012.
- Groundwater concentration contour color shading does not account for concentration data points at wells with deep well screens or where only 2004 data are available.
- Refer to Figure 6-1 for identification of property lines and other upland figures.

Benzo(a)anthracene in Groundwater May to September 2012	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-39



Path: \\server\projects\10356114\GIS\MapDocs\Fig_6-40_GW_cPAH.mxd Map Revised: 23 July 2015 cgonzales



Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 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.

- Legend**
- ⊕ Monitoring Well (discrete screen below groundwater table)
 - Monitoring Well (screened across groundwater table)
 - * Trace LNAPL in well at time of sampling
 - ** Measurable LNAPL in well at time of sampling
 - Monitoring Well Abandoned or Not Located as of 2012
 - Current Measurable LNAPL in Well
 - ⊕ Current Trace LNAPL in Well
 - ⊕ Historical LNAPL (Not Currently Present)
 - LNAPL Never Observed
 - ⊕ LNAPL Plume

- cPAH TEQ**
Screening Level = 0.018 ug/l
- Result ≥ 10x Screening Level
 - Result > 1x and < 10x Screening Level
 - Result ≤ Screening Level
 - Non-detect Result With PQL > Screening Level
 - Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)
- Note: Gray (no color) used where no data for this analyte.

- All data shown represent 2012 groundwater samples except AF-MW01 and AF-MW02 were only sampled in July 2004 for certain analytes as noted. 2012 concentrations shown are the highest detected concentration for wells sampled more than once in 2012.
- Groundwater concentration contour color shading does not account for concentration data points at wells with deep well screens or where only 2004 data are available.
- Refer to Figure 6-1 for identification of property lines and other upland figures.

**cPAH TEQ in Groundwater
May to September 2012**

R.G. Haley Site
Bellingham, Washington

Figure 6-40



Path: \\server\projects\10356114\GIS\MXDs\Fig_6-41_GW_PCP.mxd Map Revised: 23 July 2015 cgonzales

Legend

- ⊕ Monitoring Well (discrete screen below groundwater table)
- Monitoring Well (screened across groundwater table)
- * Trace LNAPL in well at time of sampling
- ** Measurable LNAPL in well at time of sampling
- Monitoring Well Abandoned or Not Located as of 2012
- Current Measurable LNAPL in Well
- ⊕ Current Trace LNAPL in Well
- ⊗ Historical LNAPL (Not Currently Present)
- LNAPL Never Observed
- ⊗ LNAPL Plume

Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 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.

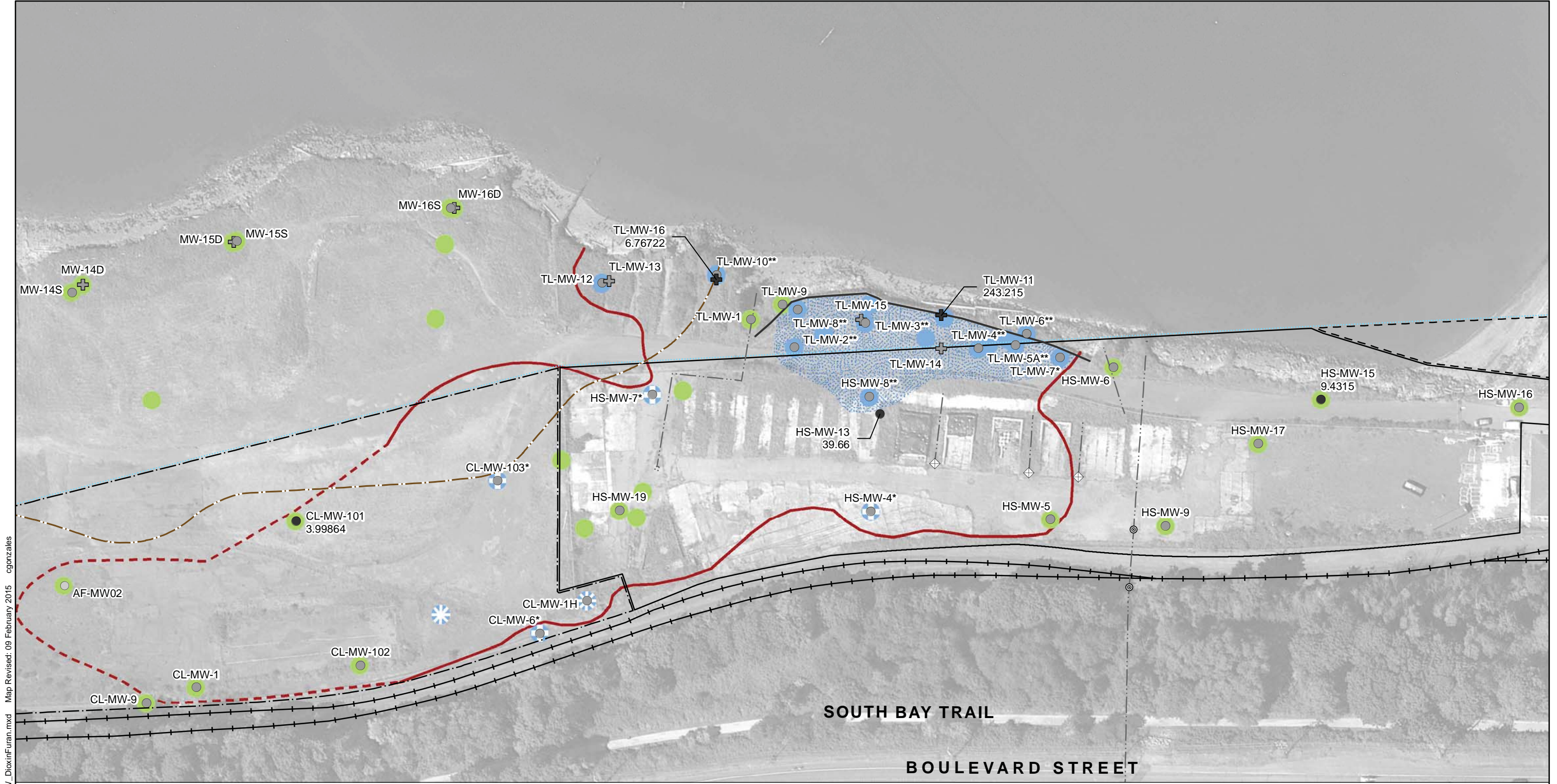
Pentachlorophenol
Screening Level = 3.0 ug/l

- Result ≥10x Screening Level
- Result >1x and <10x Screening Level
- Result ≤ Screening Level
- Non-detect Result With PQL > Screening Level

Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)
 Note: Gray (no color) used where no data for this analyte.

- All data shown represent 2012 groundwater samples except AF-MW01 and AF-MW02 were only sampled in July 2004 for certain analytes as noted. 2012 concentrations shown are the highest detected concentration for wells sampled more than once in 2012.
- Groundwater concentration contour color shading does not account for concentration data points at wells with deep well screens or where only 2004 data are available.
- Refer to Figure 6-1 for identification of property lines and other upland figures.

Pentachlorophenol in Groundwater May to September 2012	
R.G. Haley Site Bellingham, Washington	
GEOENGINEERS	Figure 6-41



Path: \\seaprojects\010356114\GIS\MXDs\Fig_6-42_GW_Dioxin\Furan.mxd Map Revised: 09 February 2015 cgonzales

Data Source: Aerial from Google Earth, August 2011.
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 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.

Legend

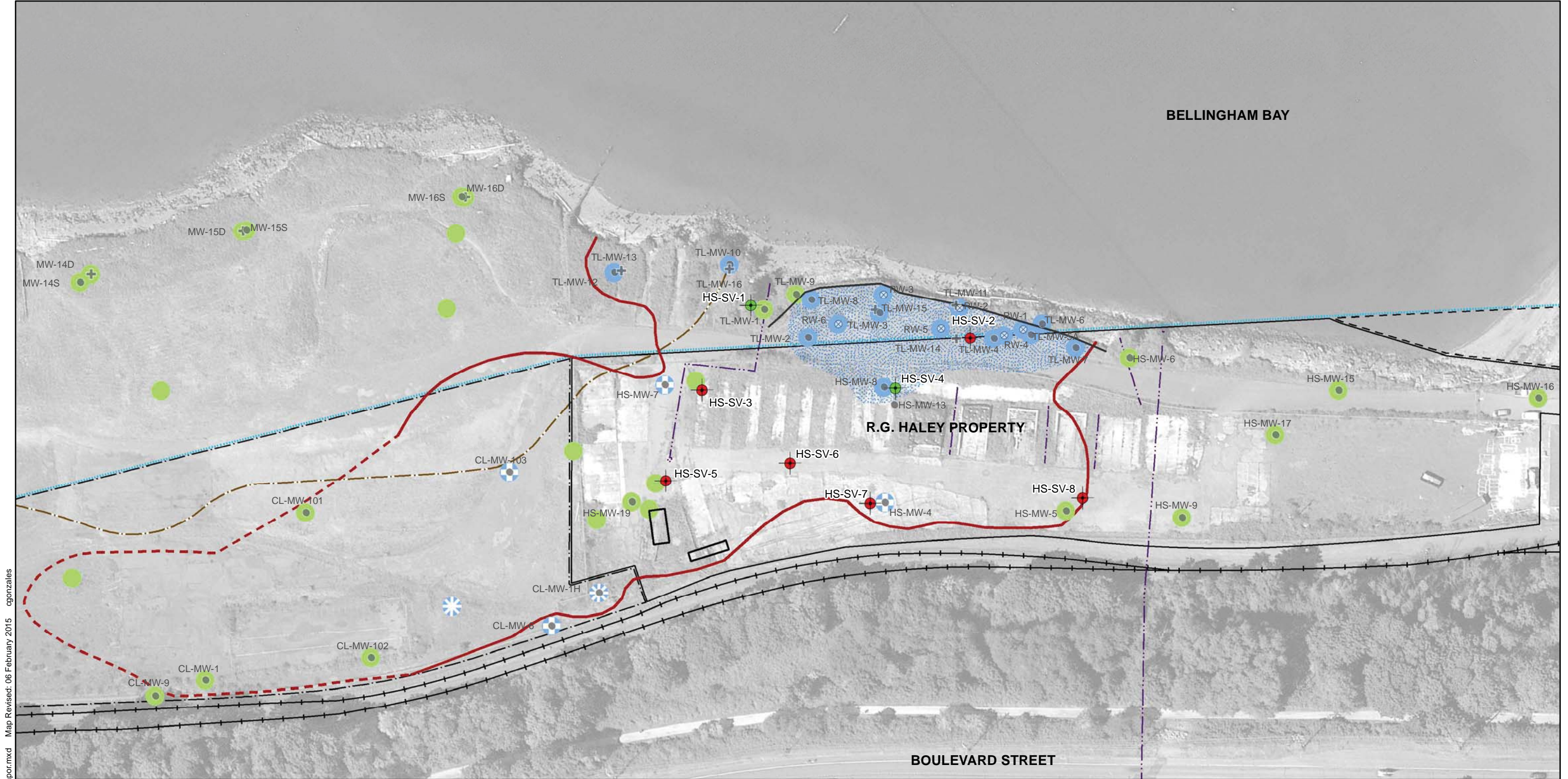
- Monitoring Well (discrete screen below groundwater table)
- Monitoring Well (screened across groundwater table)
- * Trace LNAPL in well at time of sampling
- ** Measurable LNAPL in well at time of sampling
- Current Measurable LNAPL in Well
- Current Trace LNAPL in Well
- Historical LNAPL (Not Currently Present)
- LNAPL Never Observed
- LNAPL Plume
- City Owned Property, Former R.G. Haley International
- Cornwall Property
- Port of Bellingham Property
- Inner Harbor Line
- Cornwall Approximate Landward Boundary of Landfill Refuse
- Sheet Pile Wall
- Storm Drain
- Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)

Note:
 Dioxin TEQ results in pg/l
 Gray (no color) used where no data for this analyte.

Dioxin TEQ in Groundwater
May to July 2012

R.G. Haley Site
 Bellingham, Washington

GEOENGINEERS **Figure 6-42**



Path: \\seaprojects\010356114\GIS\MXDs\Fig_6-43_SoilVapor.mxd Map Revised: 06 February 2015 cgonzales

Reference: Aerial from Google Earth, August 2011.

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.

Legend

	Monitoring Well (discrete screen below groundwater table)		City Owned Property, Former R.G. Haley International		Current Measurable LNAPL in Well
	Monitoring Well (screened across groundwater table)		Cornwall Property		Current Trace LNAPL in Well
	* Trace LNAPL at time of sampling		Port of Bellingham Property		Historical LNAPL (Not Currently Present)
	** Measurable LNAPL at time of sampling		Inner Harbor Line		LNAPL Never Observed
	Existing Recovery Well		Storm Drain Pipe		LNAPL Plume
	Petroleum-related compounds not detected or detected in soil vapor at concentrations less than MTCA Method B Soil Gas Screening Levels		Sheet Pile Wall		Note: Gray (no color) used where no data for this analyte.
	Petroleum-related compounds detected in soil vapor at concentrations greater than MTCA Method B Soil Gas screening levels		Cornwall Approximate Landward Boundary of Landfill Refuse		
			Estimated extent of petroleum smear zone (Dashed portion based on Cornwall RI)		

Soil Vapor Samples

R.G. Haley Site
Bellingham, Washington

GEOENGINEERS

Figure 6-43