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Source: AutoCAD figure provided by Landau Associates, dated September 2006. Base map source: Port of Anacortes, June 2004.

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120 Scale in Feet

Soil Explorations - Port Parcel 3 Uplands Area RI and Previous Investigations

> Scott Paper Mill Anacortes, Washington





Figure 6





Source: AutoCAD figure provided by Landau Associates, dated September 2006. Base map source: Port of Anacortes, June 2004.



2





Figure 9



Figure 10

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Reference Information







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- Landau Associates. Base map source: Port of Anacortes, June 2004.



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Landau Associates. Base map source: Port of Anacortes, June 2004.





Reference Information

- 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. can not 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.

Source: AutoCAD drawing entitled "ES-7, Port Uplands Area Preliminary Soil Cleanup and Remediation Level Exceedance Locations (10-15 ft BGS)", dated 9/18/2006, provided by Landau Associates. Base map source: Port of Anacortes, June 2004.



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| ahwater | Marine Area | | | Inner Harbor Line |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Fidalgo B | ay e | | | n (Dro 2004) |
| | Aarii | \oplus | Soil Boring Locatio | · · · · |
| | 2 | | Test Pit Location (F | Pre 2004) |
| LSB-2 Motor | Oil 4,200 | • | Uplands Area RI So (2004) | oil Boring Location |
| 257 D/F 200 Coppo | 37 er 145 | 0 | Uplands Area RI M Location (2004) | onitoring Well |
| Diese 00 Dm Fb | 670 20 51 | LSB-4 D/F 15 | Sample Location Ic Constituent, and Co Exceeds Preliminat | oncentration that |
| arers' orial | Color Coding for Locations Sampled Within Designated Depth Interval: | | | |
| 3 (NS) | = 🤍 | Location Do | es Not Exceed PCLs | 5 |
| 1S) | = | Location Exe | ceeds MTCA TE Crit | eria Only |
| Dock | = | | ceeds MTCA TE and (if no TE Criteria E H Criteria) | |
| P12 (NS) (NS) 7 (NS) ce hent Wall RTP-39 | D/F = Dm = Fb = PCLs = | Total Dioxin Total Furan | s/Furans - Human H s - Mammals s - Birds Cleanup Levels cological | ealth |
| Copper 181 RTP-42 Copper 158 RTP-43 Copper 166 | Notes 1. All concentrations in mg/kg except cPAHs and dioxins/furans. 2. cPAH concentrations in μg/kg TEQ. | | | |
| 359 629 | the hig birds) 5. Not al In acc were | ghest recepto is shown. I locations we ordance with | or-specific TEQ value ere tested for the sar the investigation wo d on site history, field | e (mammals or me set of analytes. ork plans, analytes |
| | - | | Preliminary Locations (1 | - 11 |
| | Level Exceedance Locations (10-15 ft BGS) | | | |
| | Scott Paper Mill Anacortes, Washington | | | |
| 240 | GeoEn | IGINE | | Figure 16 |



Plot Date: 03/14/08 - 4:33pm, Plotted by: astenberg

| / | EXPLANATION |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | O Monitoring Well Location |
| | Push Probe Soil Sample Location |
| / | Test Pit Sample Location |
| | ▲ Soil Sample Location |
| | ⊕ Soil Boring Location |
| | Shore Line (approximate) |
| 12 | Property Line |
| | Parcel Line |
| | |
| | — × — Proposed Security Fence |
| | Parking or Tree Area |
| | Color Coding for Locations Sampled Within Designated |
| | Location Does Not Exceed PCLs (4 or More Constituents analyzed) |
| | Location Exceeds MTCA TE Criteria Only |
| | Location Exceeds MTCA TE and HH Criteria, or HH Criteria Only (if no TE Criteria Established or if TE > HH Criteria) |
| | Notes: 1. Soil Samples not highlighted were below PCL's and fewer than 4 constituent analytes. |
| | Not all locations were tested for the same set of analytes. In accordance with the investigation work plans, analytes were chosen based on site history, field screening, and investigation objectives. |
| | 3. Results shown in mg/kg. |
| | 4. Aerial photograph from City of Anacortes (2003) |
| | |
| | 0 60 120 |
| | PRELIMINARY SOIL CLEANUP LEVEL EXCEEDANCE LOCATIONS (0-2 ft BGS) MJB North Area Anacortes, Washington |
| | By: APS Date: 03/14/08 Project No. 10131 |
| 1000 | Geomatrix Figure 17 |



lot Date: 03/14/08 - 4:35pm, Plotted by: astenberg

| 1 | |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | EXPLANATION ○ Monitoring Well Location |
| | Push Probe Soil Sample Location |
| | ♦ Test Pit Sample Location |
| | Soil Sample Location |
| | Soil Boring Location |
| | Shore Line (approximate) |
| | Property Line |
| | Parcel Line |
| | |
| | — × — Proposed Security Fence |
| | Parking or Tree Area |
| | Color Coding for Locations Sampled Within Designated |
| | Depth Interval: |
| | Location Does Not Exceed PCLs (4 or More Constituents analyzed) |
| | Location Exceeds MTCA TE Criteria Only |
| | Location Exceeds MTCA TE and HH Criteria, or HH Criteria Only (if no TE Criteria Established or if TE > HH Criteria) |
| | Notes: |
| | Soil Samples not highlighted were below PCL's and fewer than 4 constituent analytes. |
| | Not all locations were tested for the same set of analytes. In accordance with the investigation work plans, analytes were chosen based on site history, field screening, and investigation objectives. |
| | 3. Results shown in mg/kg. |
| | 4. Aerial photograph from City of Anacortes (2003) |
| | |
| | |
| | 0 60 120 APPROXIMATE SCALE IN FEET |
| | PRELIMINARY SOIL CLEANUP LEVEL EXCEEDANCE LOCATIONS (2-6 ft BGS) MJB North Area Anacortes, Washington |
| | By: APS Date: 03/14/08 Project No. 10131 |
| | Geomatrix Figure 18 |



ot Date: 03/14/08 - 4:43pm, Plotted by: astenberg

| 1 | |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | EXPLANATION ○ Monitoring Well Location |
| | Push Probe Soil Sample Location |
| | ♦ Test Pit Sample Location |
| | Soil Sample Location |
| | ⊕ Soil Boring Location |
| | Shore Line (approximate) |
| | Property Line |
| | Parcel Line |
| | |
| | — x — Proposed Security Fence |
| | Parking or Tree Area |
| | Color Coding for Locations Sampled Within Designated |
| | Depth Interval: |
| | Location Does Not Exceed PCLs (4 or More Constituents analyzed) |
| | Location Exceeds MTCA TE Criteria Only |
| | Location Exceeds MTCA TE and HH Criteria, or HH Criteria Only (if no TE Criteria Established or if TE > HH Criteria) |
| | Notes: |
| | 1. Soil Samples not highlighted were below PCL's and fewer than 4 constituent analytes. |
| | Not all locations were tested for the same set of analytes. In accordance with the investigation work plans, analytes were chosen based on site history, field screening, and investigation objectives. |
| | 3. Results shown in mg/kg. |
| | 4. Aerial photograph from City of Anacortes (2003) |
| | |
| | 0 60 120 |
| | |
| | PRELIMINARY SOIL CLEANUP LEVEL EXCEEDANCE LOCATIONS (6-15 ft BGS) MJB North Area Anacortes, Washington |
| | By: APS Date: 03/14/08 Project No. 10131 |
| | Geomatrix Figure 19 |



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Legend



Buildings

| MW-103 | Monitoring Well with Designation and Groundwater Elevation |
|---------|------------------------------------------------------------------|
| 0.45 ft | Groundwater Level Fluctuation between High and Low Tide |
| (4.9%) | Calculated Tidal Efficiency |
| NM | Water Levels Not Monitored During Tidal Study |

Tidal Influence on Groundwater Levels

Scott Paper Mill Anacortes, Washington



Figure 26

300





Groundwater and Surface Water Elevations vs. Time

Scott Paper Mill Anacortes, Washington

GEOENGINEERS

Figure 27



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<u>Legend</u>



Buildings

MW-101 8.03 Monitoring Well with Designation and Groundwater Elevation

NM Not Measured

(a) Surface Water Elevation Dec 2, 2004

Groundwater Elevations at High Tide December 2, 2004

> Scott Paper Mill Anacortes, Washington



Figure 30

300





Scale in Feet



MHHW 🔍

Mean Higher High Water Bathymetric Contour

Figure 32 Bathymetric Contours - Marine Area Former Scott Paper Mill



LEGEND





Home Range Area (2,000 acres)



Figure 33 Estimated Area of Sediment Deposition and Crab Tissue Sampling Stations FORMER SCOTT PAPER MILL SITE









150

Scale in Feet

Figure 36 Areal Extent of SQS and CSL Exceedances, Marine Area



05-01 00010501-35.dwg FIG 35

SOURCE: Bathymetry shown is from survey provided by David Evans and Associates dated April 16, 2004.

| AN-RI-SEDC-02 | Sediment Core Location and Designation |
|---------------|----------------------------------------|
| AN-RI-TP-07 🖪 | Testpit Location and Designation |
| MW-1 🛇 | Boring Location and Designation |
| AN-RI-WP-01⊕ | Well Point Location and Designation |



Cross Section Location and Designation



Figure 37 Geologic Cross Sections MJB North Area and Site-Wide Marine Area Former Scott Paper Mill





Horizontal Scale in Feet Vertical Exaggeration x10



Exploration with Offset and Direction from Cross Section

- Screened Section
- WD: Fill Containing Wood Debris
- GM: Silty Gravel
- SP: Poorly Graded Sand
- SM: Silty Sand
- ML: Silt and Fine Sand
- Approximate Geologic Contact
- Approximate Groundwater Elevation at Time of Drilling (ATD)







Exploration with Offset and Direction from Cross Section

Screened Section

WD: Fill Containing Wood Debris

ML/WD: Silt and Fine Sand/Fill Containing Wood Debris

- GM: Silty Gravel
- SP: Poorly Graded Sand
- SM: Silty Sand
- ML: Silt and Fine Sand
- CL: Clay

Approximate Geologic Contact

Approximate Groundwater Elevation at Time of Drilling (ATD)

* AN-RI-WP-02 Depicted at approximate elevation. Offset is to the NW, see Figure 1 for confirmed location.



ANCHOR ENVIRONMENTAL, L.L.C.







Exploration with Offset and Direction from Cross Section

Screened Section

- WD: Fill Containing Wood Debris
- GM: Silty Gravel
- SP: Poorly Graded Sand
- SM: Silty Sand
- ML: Silt and Fine Sand
- CL: Clay
- OL: Organic SIIt
- PT: Peat
- Approximate Geologic Contact

Approximate Groundwater Elevation at Time of Drilling (ATD)





- lead to incorrect interpretation. 2. The locations of all features shown are approximate.
- 3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not 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.

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