Lower Duwamish Waterway
Slip 4 Early Action Area

Appendix C
Approximate Post-Construction Elevations and Habitat Areas for Alternatives 1–4

Map Document: (FG-Cross Sections.dwg) - Layout: Existing Conditions - Area Calcs
1/23/2006 - 5:56:29 PM

LEGEND

- MAJOR OUTFALL
- POWER POLE
- SANITARY MANHOLE
- LUMINARE
- IRRIGATION CONTROL VALVE
- GUY WIRE
- 19.41WALL — SPOT ELEVATION
- 5-FOOT CONTOUR INTERVAL
- 1-FOOT CONTOUR INTERVAL
- FINAL REMOVAL BOUNDARY
- APPROXIMATE PROPERTY LINE
- APPROXIMATE HISTORICAL (1981) DREDGE LIMITS
- 1+00 — PROJECT BASELINE
- 4 — SHORELINE ZONE
- SEEP SAMPLE LOCATION
- SURFACE/SUBSURFACE SAMPLE LOCATION – ECOLOGY (2005)
- SUBSURFACE SAMPLE LOCATION – INTEGRAL (2004)
- SUBSURFACE SAMPLE LOCATION – LANDAU (1990)

9,328 sf	BETWEEN +12 EXISTING CONTOUR AND TOP-OF-BANK
14,306 sf	BETWEEN +4 EXISTING CONTOUR AND +12 EXISTING CONTOUR
67,174 sf	BETWEEN –4 EXISTING CONTOUR AND +4 EXISTING CONTOUR
34,577 sf	BETWEEN –10 EXISTING CONTOUR AND –4 EXISTING CONTOUR
31,066 sf	BELOW –10 EXISTING CONTOUR

N

NAD 83/91 WSPC NZ

0 50 100 Feet

AREA CALCS

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Figure C-1
Area Calculation Worksheet
Existing Conditions
Slip 4 EE/CA

Map Document: (FG-Cross Sections.dwg) - Layout: Alt 1 - Area Calcs
1/23/2006 - 5:57:09 PM

LEGEND

- MAJOR OUTFALL
- POWER POLE
- SANITARY MANHOLE
- LUMINARE
- IRRIGATION CONTROL VALVE
- GUY WIRE
- 19.41WALL — SPOT ELEVATION
- 5-FOOT CONTOUR INTERVAL
- 1-FOOT CONTOUR INTERVAL
- FINAL REMOVAL BOUNDARY
- APPROXIMATE PROPERTY LINE
- APPROXIMATE HISTORICAL (1981) DREDGE LIMITS
- 1+00 — PROJECT BASELINE
- 4 — SHORELINE ZONE
- SEEP SAMPLE LOCATION
- SURFACE/SUBSURFACE SAMPLE LOCATION – ECOLOGY (2005)
- SUBSURFACE SAMPLE LOCATION – INTEGRAL (2004)
- SUBSURFACE SAMPLE LOCATION – LANDAU (1990)

9,852 sf	BETWEEN +12 DESIGN CONTOUR AND TOP-OF-BANK
50,224 sf	BETWEEN +4 DESIGN CONTOUR AND +12 DESIGN CONTOUR
49,308 sf	BETWEEN −4 DESIGN CONTOUR AND +4 DESIGN CONTOUR
50,024 sf	BELOW −4 DESIGN CONTOUR

N

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0 50 100 Feet

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Figure C-2
Area Calculation Worksheet
Alternative 1 - Capping and Habitat Enhancement
Slip 4 EE/CA

Map Document: (FG-Cross Sections.dwg) - Layout: Alt 2 - Area Calcs
1/23/2006 - 5:57:37 PM

LEGEND

- MAJOR OUTFALL
- POWER POLE
- SANITARY MANHOLE
- LUMINARE
- IRRIGATION CONTROL VALVE
- GUY WIRE
- 19.41WALL — SPOT ELEVATION
- 5-FOOT CONTOUR INTERVAL
- 1-FOOT CONTOUR INTERVAL
- FINAL REMOVAL BOUNDARY
- APPROXIMATE PROPERTY LINE
- APPROXIMATE HISTORICAL (1981) DREDGE LIMITS
- 1+00 — PROJECT BASELINE
- 4 — SHORELINE ZONE
- SEEP SAMPLE LOCATION
- SURFACE/SUBSURFACE SAMPLE LOCATION – ECOLOGY (2005)
- SUBSURFACE SAMPLE LOCATION – INTEGRAL (2004)
- SUBSURFACE SAMPLE LOCATION – LANDAU (1990)

9,127 sf	BETWEEN +12 DESIGN CONTOUR AND TOP-OF-BANK
35,446 sf	BETWEEN +4 DESIGN CONTOUR AND +12 DESIGN CONTOUR
69,354 sf	BETWEEN -4 DESIGN CONTOUR AND +4 DESIGN CONTOUR
45,780 sf	BELOW -4 DESIGN CONTOUR

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0 50 100 Feet

AREA CALCS

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Figure C-3
Area Calculation Worksheet
Alternative 2 - Capping, Targeted Sediment Removal, and Habitat Enhancement
Slip 4 EE/CA

Map Document: (FG-Cross Sections.dwg) - Layout: Alt 3 - Area Calcs
1/23/2006 - 5:58:03 PM

LEGEND

- MAJOR OUTFALL
- POWER POLE
- SANITARY MANHOLE
- LUMINARE
- IRRIGATION CONTROL VALVE
- GUY WIRE
- 19.41WALL — SPOT ELEVATION
- 5-FOOT CONTOUR INTERVAL
- 1-FOOT CONTOUR INTERVAL
- FINAL REMOVAL BOUNDARY
- APPROXIMATE PROPERTY LINE
- APPROXIMATE HISTORICAL (1981) DREDGE LIMITS
- 1+00 — PROJECT BASELINE
- 4 — SHORELINE ZONE
- SEEP SAMPLE LOCATION
- SURFACE/SUBSURFACE SAMPLE LOCATION – ECOLOGY (2005)
- SUBSURFACE SAMPLE LOCATION – INTEGRAL (2004)
- SUBSURFACE SAMPLE LOCATION – LANDAU (1990)

8,805 sf	BETWEEN +12 DESIGN CONTOUR AND TOP-OF-BANK
27,289 sf	BETWEEN +4 DESIGN CONTOUR AND +12 DESIGN CONTOUR
54,720 sf	BETWEEN -4 DESIGN CONTOUR AND +4 DESIGN CONTOUR
18,589 sf	BETWEEN -10 DESIGN CONTOUR AND -4 DESIGN CONTOUR
46,708 sf	BELOW -10 DESIGN CONTOUR

N

NAD 83/91 WSPC NZ

0 50 100 Feet

AREA CALCS

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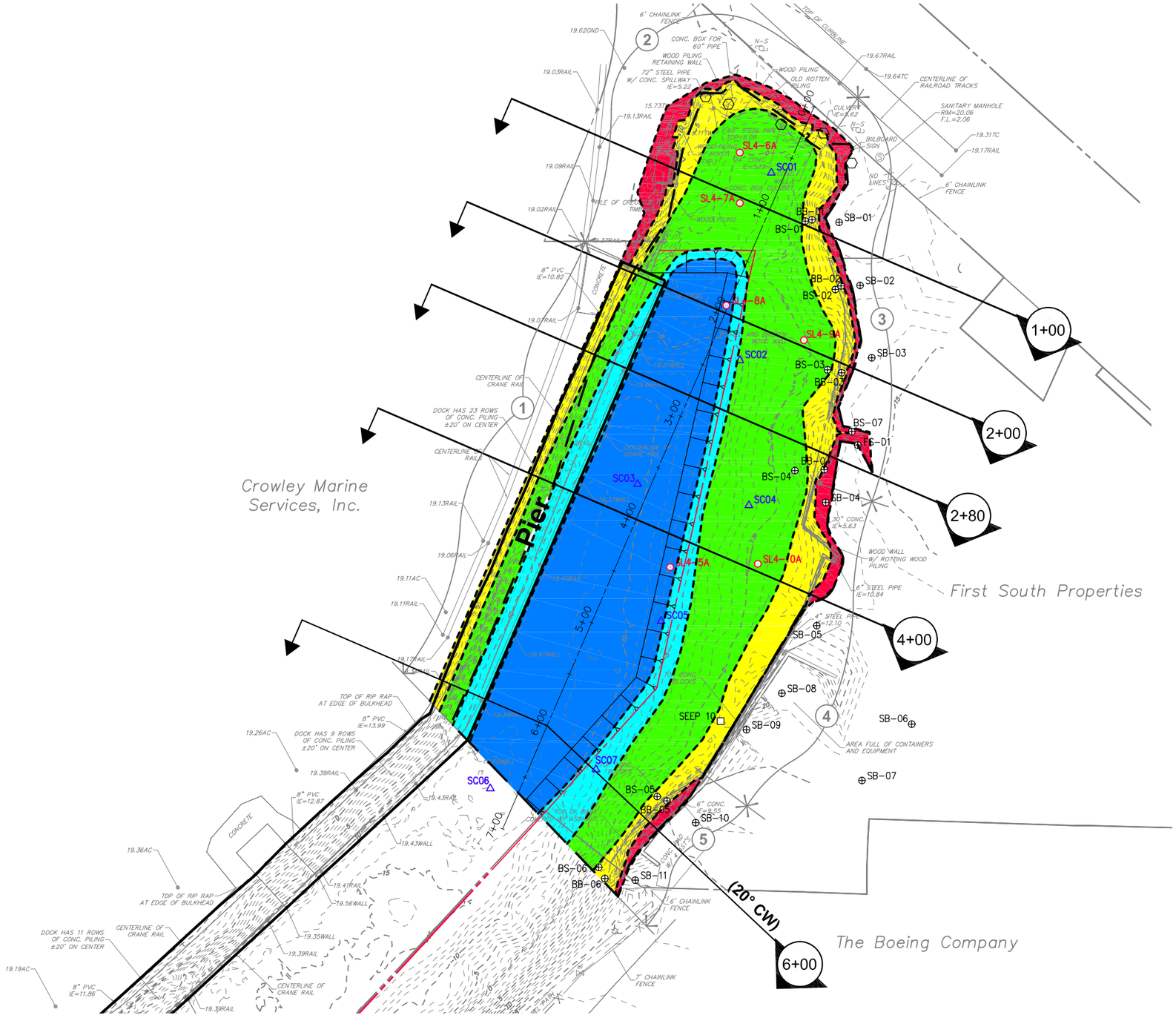
Figure C-4
Area Calculation Worksheet
Alternative 3 - Inner Berth Sediment Removal and Capping
Slip 4 EE/CA

Map Document: (FG-Cross Sections.dwg) - Layout: Alt 4 - Area Calcs
1/23/2006 - 5:58:29 PM



LEGEND

- MAJOR OUTFALL
- POWER POLE
- SANITARY MANHOLE
- LUMINARE
- IRRIGATION CONTROL VALVE
- GUY WIRE
- 19.41WALL — SPOT ELEVATION
- 5-FOOT CONTOUR INTERVAL
- 1-FOOT CONTOUR INTERVAL
- FINAL REMOVAL BOUNDARY
- APPROXIMATE PROPERTY LINE
- APPROXIMATE HISTORICAL (1981) DREDGE LIMITS
- 1+00 — PROJECT BASELINE
- 4 — SHORELINE ZONE
- SEEP SAMPLE LOCATION
- SURFACE/SUBSURFACE SAMPLE LOCATION – ECOLOGY (2005)
- SUBSURFACE SAMPLE LOCATION – INTEGRAL (2004)
- SUBSURFACE SAMPLE LOCATION – LANDAU (1990)

8,805 sf	BETWEEN +12 DESIGN CONTOUR AND TOP-OF-BANK
24,926 sf	BETWEEN +4 DESIGN CONTOUR AND +12 DESIGN CONTOUR
56,037 sf	BETWEEN -4 DESIGN CONTOUR AND +4 DESIGN CONTOUR
18,382 sf	BETWEEN -10 DESIGN CONTOUR AND -4 DESIGN CONTOUR
47,958 sf	BELOW -10 DESIGN CONTOUR

AREA CALCS

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Figure C-5
Area Calculation Worksheet
Alternative 4 - Maximum Reasonable Sediment Removal and Capping
Slip 4 EE/CA