WEEKLY SUMMARY REPORT

PROJECT NO.: 130388-01.02

REPORT PERIOD: December 12 to December 17, 2016

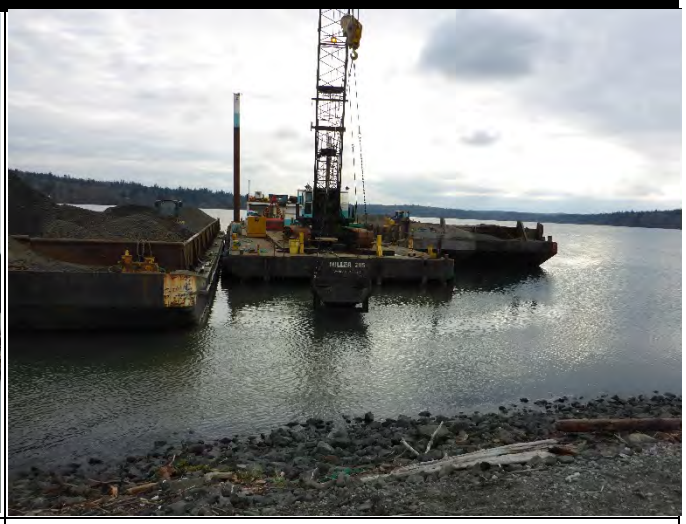
REPORT NO.: 044

PREPARED BY: Jason Cornetta

PROJECT NAME/LOCATION: Port Gamble Bay Cleanup

PHOTOGRAPHS

Comment: Removing decking and crane mats from transload



Comment: Placing 3" minus backfill in SMA-2 with rock box

Comment: Placing 3" minus backfill in SMA-2 with rock box

Comment: Pulling temporary piles at transload facility

WEEKLY SUMMARY REPORT

PROJECT NO.: 130388-01.02

REPORT PERIOD: December 19 to December 23, 2016

REPORT NO.: 045

PREPARED BY: Jason Cornetta

PROJECT NAME/LOCATION: Port Gamble Bay Cleanup

Report Submitted to:		Contractor Name and Contact:	
To:	Arthur Kapell, Celina Abercrombie, WA Dept. of Ecology	General:	Orion Marine Contractors Inc. (OMCI)
cc:	Linda Berry-Maraist, PR/OPG John Laplante, PE, Clay Patmont, Ross Pickering, PE, Jason Cornetta, Anchor QEA, LLC	Subcontractors:	Zimmer Sand Pit New Shine Quarry Pyramid Materials MJ Trucking Harbor Offshore

1. **Structure Demolition and Pile Extraction**
   - No Activity

2. **Creosote Processing and off Site Disposal**
   - Piling extracted during dredging were processed in the creosote processing area for off-site disposal

3. **Former Landfill Shoreline Debris Removal**
   - No Activity

4. **Intertidal Excavation and Capping**
   - No Activity

5. **Stockpile Management**
   - No Activity

6. **Subtidal Capping, EMNR , and RMC Placement**
   - Subtidal capping (armor and habitat substrate layer placement) in SMA-1 with 1201 spud barge and 9260 American Crane using 4 CY re-handle bucket.
   - Placement of EMNR material in SMA-1 with the 1201 spud barge and 9260 American Crane using 4 CY re-handle bucket.
   - Placement of the SMA-2 4-foot subtidal contingency cap with the 1201 spud barge and 9260 American Crane.
   - Placement of the SMA-2 perimeter tie-in cap (between revised dredge prism and original SMA-2 subtidal cap limits) with the 1201 spud barge and 9260 American Crane.
   - Placement of 3” minus backfill and habitat substrate in SMA-2, 2:1 slope areas, with the 1901 spud barge and 9299 American Crane using 10 CY rock box. Areas above -10 MLLW are receiving 12” of habitat substrate and areas below -10 MLLW are receiving 6” of habitat substrate.

7. **Subtidal Dredging**
   - No Activity – Subtidal dredging is complete.

8. Environmental Controls

- Water quality monitoring: Water quality monitoring was performed in accordance with the Ecology-approved Water Quality Monitoring Plan (Appendix E 401 Water Quality Memorandum) and the Water Quality Monitoring Plan (Attachment 2 of Appendix E to the BODR). Water quality monitoring was performed for:
  - Limited monitoring was conducted for capping in SMA-2 on 12/23/16.
  - No confirmed turbidity exceedances were measured during monitoring activities.
- The final round of mussel cage retrieval is scheduled for the week of 1/9/17.
- The final round of archeological monitoring is scheduled for the week of 1/9/17, for the remaining intertidal excavation in SMA-1.

9. Problems Encountered and Corrective Actions

- None.

10. Health and Safety Observations

- Daily health and safety tool box talks performed.
- No health and safety incidents.

11. Other on Site Activities

- Subtidal and Intertidal Capping, EMNR, RMC, and backfill materials were imported and stockpiled on Site.

12. Anticipated Work for Next Week

- Continue capping and backfill material importing and stockpiling.
- Continue placing 3” minus backfill in 2h:1v slope areas in SMA-2
- Continue removal of transload facility
- Continue placing habitat substrate on completed 3” minus backfill areas
- Begin low-tide nighttime capping in the Pier 4 cap area.
- Begin armor placement in the erosion areas.

13. Changes and Modifications

- No Changes or Modifications required

14. Quantities (See Attached Tracking Tables)

15. Photos

WEEKLY SUMMARY REPORT

PROJECT NO.: 130388-01.02

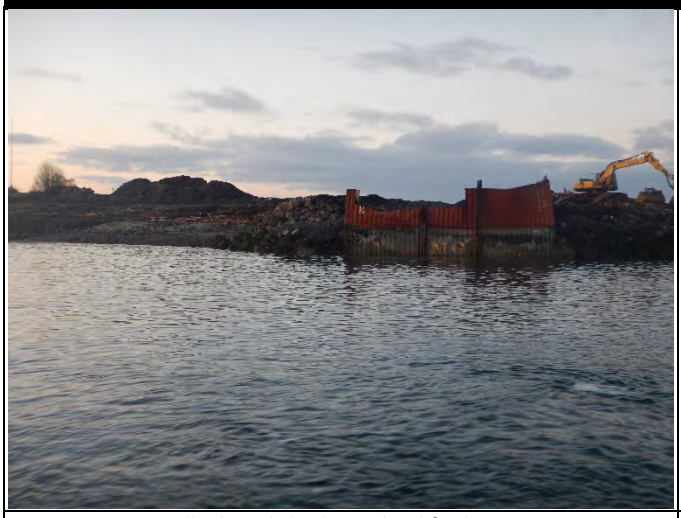
REPORT PERIOD: December 19 to December 23, 2016

REPORT NO.: 045

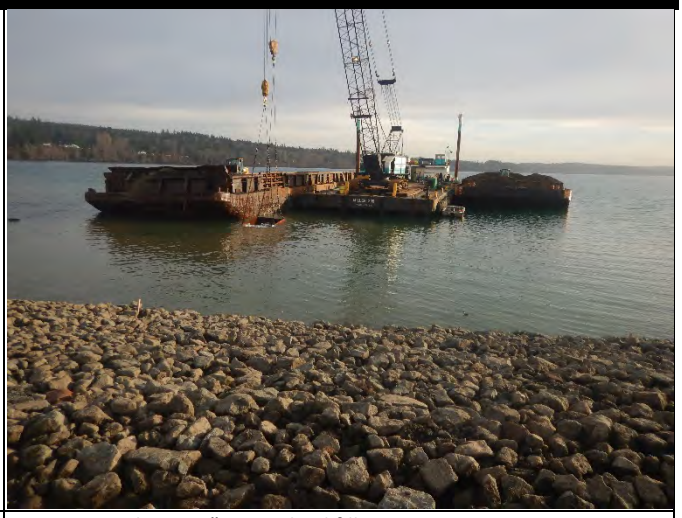
PREPARED BY: Jason Cornetta

PROJECT NAME/LOCATION: Port Gamble Bay Cleanup

PHOTOGRAPHS



Comment: Partially demolished transload facility



Comment: Placing 3" minus backfill in SMA-2

Comment: Barge loading

Comment: Placing 3" minus backfill in SMA-2

WEEKLY SUMMARY REPORT

PROJECT NO.: 130388-01.02

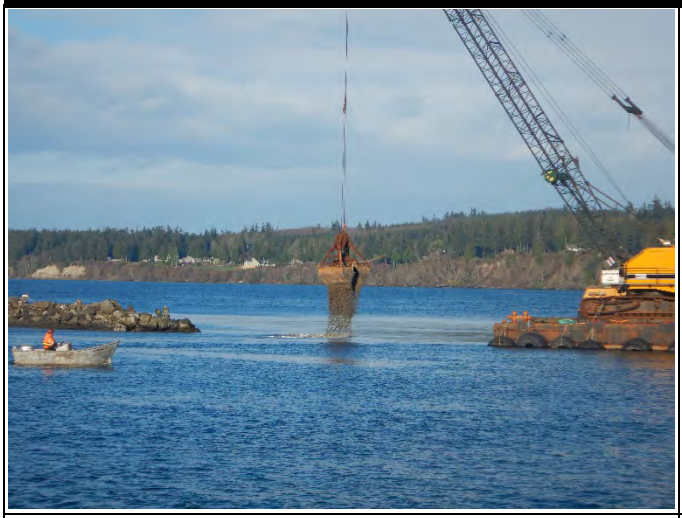
REPORT PERIOD: December 19 to December 23, 2016

REPORT NO.: 045

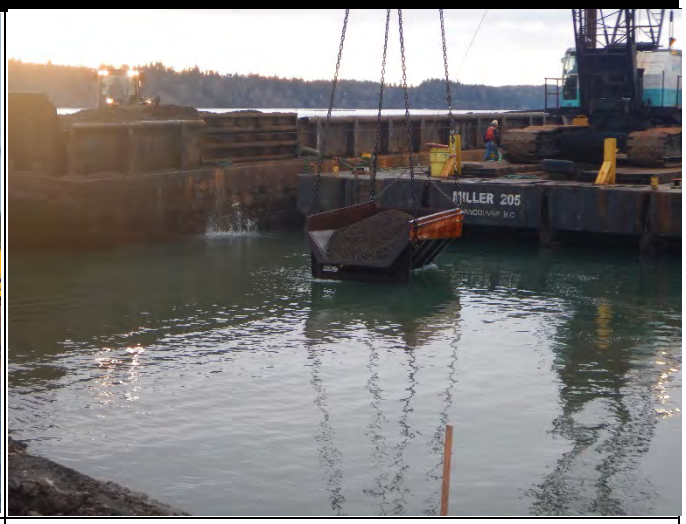
PREPARED BY: Jason Cornetta

PROJECT NAME/LOCATION: Port Gamble Bay Cleanup

PHOTOGRAPHS



Comment: Placing EMNR material in SMA-1



Comment: Placing 3" minus backfill in SMA-2 with rock box

Comment: Placing 3" minus backfill in SMA-2 with rock box

Comment: SMA-1 intertidal cap slope

WEEKLY SUMMARY REPORT

PROJECT NO.: 130388-01.02

REPORT PERIOD: December 26 to December 30, 2016

REPORT NO.: 046

PREPARED BY: Jason Cornetta

PROJECT NAME/LOCATION: Port Gamble Bay Cleanup

Report Submitted to:		Contractor Name and Contact:	
To:	Arthur Kapell, Celina Abercrombie, WA Dept. of Ecology	General:	Orion Marine Contractors Inc. (OMCI)
cc:	Linda Berry-Maraist, PR/OPG John Laplante, PE, Clay Patmont, Ross Pickering, PE, Jason Cornetta, Anchor QEA, LLC	Subcontractors:	Zimmer Sand Pit New Shine Quarry Pyramid Materials MJ Trucking Harbor Offshore

1. **Structure Demolition and Pile Extraction**
   - Demolition and removal of conex boxes at the transload area bulkhead and restoring area to pre-construction conditions

2. **Creosote Processing and off Site Disposal**
   - Extracted piling were processed in the creosote processing area for off-site disposal

3. **Former Landfill Shoreline Debris Removal**
   - No Activity

4. **Intertidal Excavation and Capping**
   - Pier 4 area capping with high fines 3” minus material and type 2 armor

5. **Stockpile Management**
   - No Activity

6. **Subtidal Capping, EMNR, RMC Placement, and 2:1 slope backfill in SMA-2**
   - Placement of 3” minus backfill and habitat substrate in SMA-2 (2:1 slope areas) with the 1901 spud barge and 9299 American Crane, and the 1201 spud barge and 9260 American Crane. Areas above -10 MLLW are receiving 12” of habitat substrate and areas below -10 MLLW are receiving 6” of habitat substrate.
   - Placement of high fines content 3” minus backfill at the Pier 4 cap area (from -10 to +5 MLLW), with the 1901 spud barge and 9299 American Crane, and land-based equipment.
   - Placement of type 2 armor in the SMA-2 intertidal cap area to touch-up and tie-in the toe of slope and the 3” minus backfill.
   - Placement of type 2 armor in the Pier 4 capping and backfill area.

7. **Subtidal Dredging**
   - No Activity – Subtidal dredging is complete.

8. **Environmental Controls**

- Water quality monitoring: No water quality monitoring was performed this week. Monitoring was scheduled for 12/30/16 since there were high winds and small craft advisories on Monday 12/26/16 through Thursday 12/29/16. On Friday 12/30/16 the water quality team attempted to monitor in lighter winds but encountered large waves upon reaching open water and could not perform the monitoring.
- The final round of mussel cage retrieval is scheduled for the week of 1/3/17, weather dependent.
- The final round of archeological monitoring is scheduled for the week of 1/9/17, for the remaining intertidal excavation in SMA-1.

9. Problems Encountered and Corrective Actions

- None.

10. Health and Safety Observations

- Daily health and safety tool box talks performed.
- No health and safety incidents.

11. Other on Site Activities

- Subtidal and Intertidal Capping, EMNR, RMC, and backfill materials were imported and stockpiled on Site.
- Armoring erosion areas in accordance with the Revised Coastal Engineering Evaluation of Shoreline Erosion Memorandum

12. Anticipated Work for Next Week

- Continue capping and backfill material importing and stockpiling.
- Continue placing 3” minus backfill in 2h:1v slope areas in SMA-2
- Continue placing habitat substrate on completed 3” minus backfill areas in SMA-2
- Begin placing 3” minus backfill and armor in intertidal cap repair area of SMA-1
- Begin conveyor removal and demolition of log transfer dock
- Begin shoreline debris removal in Area 1

13. Changes and Modifications

- No Changes or Modifications required

14. Quantities (See Attached Tracking Tables)

15. Photos

WEEKLY SUMMARY REPORT

PROJECT NO.: 130388-01.02

REPORT PERIOD: December 26 to December 30, 2016

REPORT NO.: 046

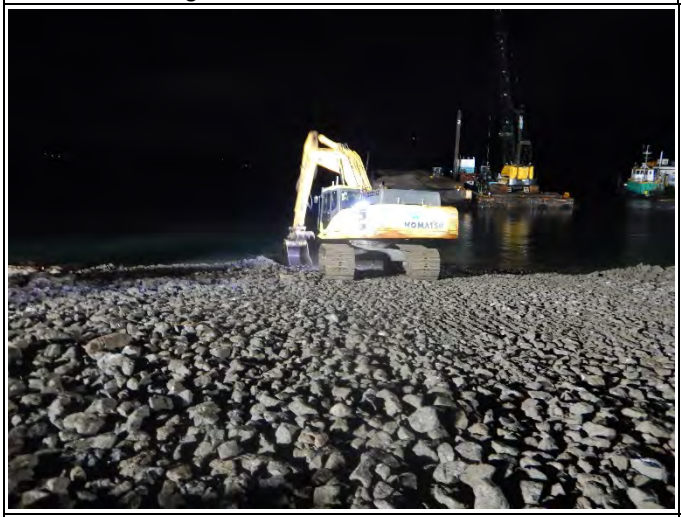
PREPARED BY: Jason Cornetta

PROJECT NAME/LOCATION: Port Gamble Bay Cleanup

PHOTOGRAPHS

Comment: Placing 3" minus backfill in SMA-2

Comment: Placing armor rock in erosion area 1 (pocket beach)



Comment: Placing armor rock in erosion area 3 (pocket beach)

Comment: Pier 4 capping

WEEKLY SUMMARY REPORT

PROJECT NO.: 130388-01.02

REPORT PERIOD: December 26 to December 30, 2016

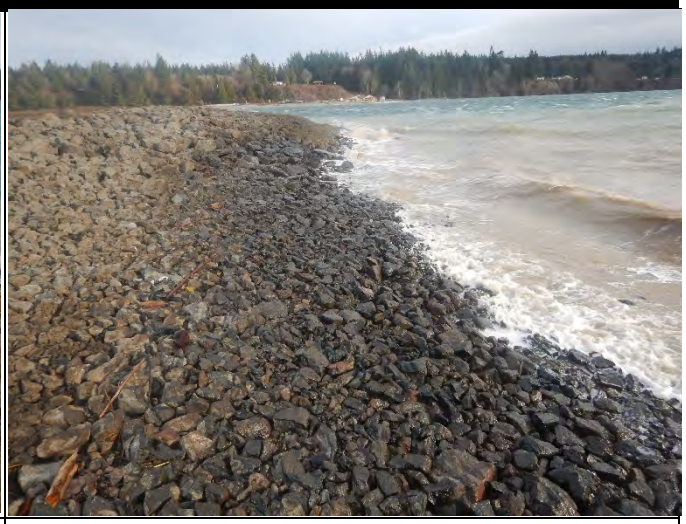
REPORT NO.: 046

PREPARED BY: Jason Cornetta

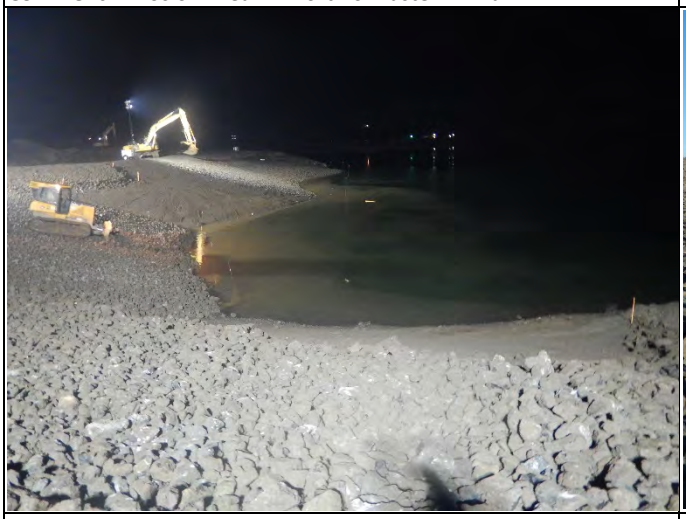
PROJECT NAME/LOCATION: Port Gamble Bay Cleanup

PHOTOGRAPHS

Comment: Erosion Area 1 – north of Eastern Wharf



Comment: Erosion Area 3 – west of transload area



Comment: Pier 4 capping area

Comment: Completed Pier 4 cap area

WEEKLY SUMMARY REPORT

PROJECT NO.: 130388-01.02

REPORT PERIOD: January 2 to January 7, 2016

REPORT NO.: 047

PREPARED BY: Jason Cornetta

PROJECT NAME/LOCATION: Port Gamble Bay Cleanup

Report Submitted to:		Contractor Name and Contact:	
To:	Arthur Kapell, Celina Abercrombie, WA Dept. of Ecology	General:	Orion Marine Contractors Inc. (OMCI)
cc:	Linda Berry-Maraist, PR/OPG John Laplante, PE, Clay Patmont, Ross Pickering, PE, Jason Cornetta, Anchor QEA, LLC	Subcontractors:	Zimmer Sand Pit New Shine Quarry Pyramid Materials MJ Trucking Harbor Offshore

1. **Structure Demolition and Pile Extraction**
   - Completed removal of capping material barge loading conveyor and demolition of log transfer dock, removal of pilings associated with the log transfer dock

2. **Creosote Processing and off Site Disposal**
   - Extracted piling were processed in the creosote processing area for off-site disposal

3. **Former Landfill Shoreline Debris Removal**
   - Completed debris removal at Area 1

4. **Intertidal Excavation and Capping**
   - Completed Pier 4 area capping with type 2 armor

5. **Stockpile Management**
   - No Activity

6. **Subtidal Capping, EMNR, RMC Placement, and 2:1 slope backfill in SMA-2**
   - Placement of 3” minus backfill and habitat substrate in SMA-2 (2:1 slope areas) with the 1201 spud barge and 9260 American Crane. Areas above -10 MLLW are receiving 12” of habitat substrate and areas below -10 MLLW are receiving 6” of habitat substrate.
   - Placement of 3” minus backfill SMA-1 (intertidal cap and slope repair area) with the 1901 spud barge and 9299 American Crane.
   - Placement of type 2 armor in the SMA-2 intertidal cap area to touch-up and tie-in the toe of slope and the 3” minus backfill.
   - Placement of type 2 armor in the Pier 4 capping and backfill area.

7. **Subtidal Dredging**
   - No Activity – Subtidal dredging is complete.

8. **Environmental Controls**

- Water quality monitoring: Water quality monitoring was performed in accordance with the Ecology-approved Water Quality Monitoring Plan (Appendix E 401 Water Quality Memorandum) and the Water Quality Monitoring Plan (Attachment 2 of Appendix E to the BODR). Water quality monitoring was performed for:
  - Limited monitoring was conducted for capping in SMA-2 on January 5, 2017.
  - No confirmed turbidity exceedances were measured during monitoring activities.
- The final round of mussel cage retrieval was conducted on January 5, 2017. Mussel cages were retrieved from SMA-1, SMA-2, and reference areas (21 cages), plus 3 additional cages from the August deployment.
- The final round of archeological monitoring is scheduled for the week of January 8, 2017, for the remaining intertidal excavation in SMA-1.

9. Problems Encountered and Corrective Actions

- None.

10. Health and Safety Observations

- Daily health and safety tool box talks performed.
- No health and safety incidents.

11. Other on Site Activities

- Subtidal and Intertidal Capping, EMNR, RMC, and backfill materials were imported and stockpiled on Site.
- Continued armoring erosion areas in accordance with the Revised Coastal Engineering Evaluation of Shoreline Erosion Memorandum. Lower elevation portions of Area 1 and Area 3 were armored the using water-based crane and spud barge to place armor at elevations not accessible with the land-based equipment.

12. Anticipated Work for Next Week

- Continue capping and backfill material importing and stockpiling.
- Continue placing habitat substrate on completed 3” minus backfill areas in SMA-2
- Continue placing type 2 armor in intertidal cap repair area of SMA-1
- Final removal of remaining pilings and driver inspection/sweep
- Final SMA-1 intertidal excavation and capping at the log transfer dock demolition area.

13. Changes and Modifications

- No Changes or Modifications required

14. Quantities (See Attached Tracking Tables)

15. Photos

WEEKLY SUMMARY REPORT

PROJECT NO.: 130388-01.02

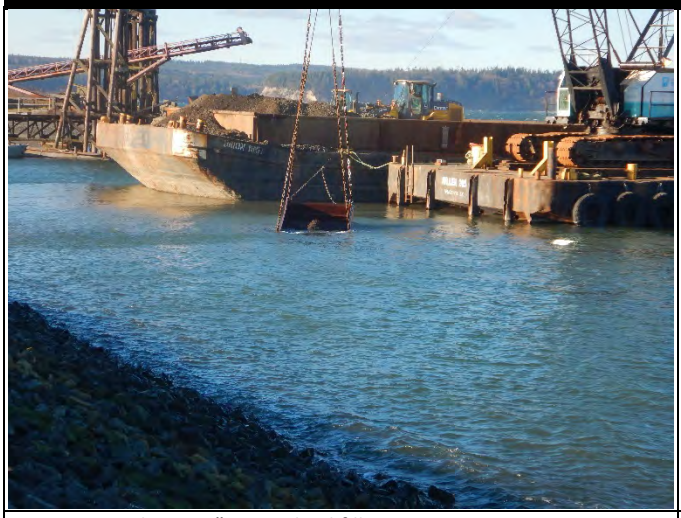
REPORT PERIOD: January 2 to January 7, 2016

REPORT NO.: 047

PREPARED BY: Jason Cornetta

PROJECT NAME/LOCATION: Port Gamble Bay Cleanup

PHOTOGRAPHS



Comment: Placing 3" minus backfill in SMA-1

Comment: Area 1 beach cleanup

Comment: Placing habitat substrate in Pier 4 cap and 3" minus backfill areas

Comment: Area 1 beach cleanup

WEEKLY SUMMARY REPORT

PROJECT NO.: 130388-01.02

REPORT PERIOD: January 2 to January 7, 2016

REPORT NO.: 047

PREPARED BY: Jason Cornetta

PROJECT NAME/LOCATION: Port Gamble Bay Cleanup

PHOTOGRAPHS

Comment: Debris pile from beach cleanup Area 1

Comment: Removal of asphalt debris in Area 1

WEEKLY SUMMARY REPORT

PROJECT NO.: 130388-01.02

REPORT PERIOD: January 9 to January 13, 2016

REPORT NO.: 048

PREPARED BY: Jason Cornetta

PROJECT NAME/LOCATION: Port Gamble Bay Cleanup

Report Submitted to:		Contractor Name and Contact:	
To:	Arthur Kapell, Celina Abercrombie, WA Dept. of Ecology	General:	Orion Marine Contractors Inc. (OMCI)
cc:	Linda Berry-Maraist, PR/OPG John Laplante, PE, Clay Patmont, Ross Pickering, PE, Jason Cornetta, Anchor QEA, LLC	Subcontractors:	Zimmer Sand Pit New Shine Quarry Pyramid Materials MJ Trucking Harbor Offshore

1. **Structure Demolition and Pile Extraction**
   - Removal of remaining pilings associated with the log transfer dock and diver assisted removal of remaining pilings in SMA-1, SMA-2, and SMA-3.

2. **Creosote Processing and off Site Disposal**
   - Extracted piling were processed in the creosote processing area for off-site disposal.

3. **Former Landfill Shoreline Debris Removal**
   - All activities complete, Ecology approved remaining lower portion of Area 1 cleanup on 1/10/17.

4. **Intertidal Excavation and Capping**
   - Completed SMA-1 intertidal excavation and capping at the former log transfer dock area. There was additional excavation in this area to remove wood waste encountered below the planned excavation limits.

5. **Stockpile Management**
   - No Activity

6. **Subtidal Capping, EMNR, RMC Placement, and 2:1 slope backfill in SMA-2**
   - Placement of type 2 armor in SMA-1 (intertidal cap and slope repair area) with the 1901 spud barge and 9299 American Crane.
   - Placement of habitat substrate in the Pier 4 capping and backfill area.

7. **Subtidal Dredging**
   - No Activity – Subtidal dredging is complete.

8. **Environmental Controls**
   - Water quality monitoring: Water quality monitoring was performed in accordance with the Ecology-approved Water Quality Monitoring Plan (Appendix E 401 Water Quality Memorandum) and the Water Quality Monitoring Plan (Attachment 2 of Appendix E to the BODR). Water quality monitoring was performed for:

  - Limited monitoring was conducted for pile pulling in SMA-2, intertidal excavation and capping in SMA-1, and subtidal capping in SMA-1 on January 12, 2017.
  - No confirmed turbidity exceedances were measured during monitoring activities for pile pulling in SMA-2 or intertidal excavation and capping in SMA-1.
  - A confirmed turbidity exceedance was measured during monitoring activities for subtidal capping in SMA-1 on January 12, 2016.
  - No confirmed turbidity exceedances were measured during subsequent monitoring for SMA-1 subtidal or intertidal capping conducted on January 12, 2017 and January 13, 2017.
- In-water work activities ended on January 14, 2017.
- The final round of archeological monitoring was conducted on January 16, 2017, no items of significance were observed.

9. Problems Encountered and Corrective Actions

- Additional intertidal excavation was conducted in SMA-1 to remove wood waste encountered below the planned excavation limits. The encountered wood waste material was removed within the remaining SMA-1 intertidal excavation area. A layer of wood waste was observed extending to the north beneath the previously completed intertidal excavation and cap area (approximately 8 feet or greater below the existing cap). This layer is isolated by sand backfill and/or an existing sand deposit, both vertically and horizontally. Following consultation with Ecology this material was left in place. Additional information regarding the location of the wood waste layer remaining below the SMA-1 intertidal cap will be provided in a follow-up memorandum and included as part of the Season 2 Cleanup Action Report.

10. Health and Safety Observations

- Daily health and safety tool box talks performed.
- No health and safety incidents.

11. Other on Site Activities

- Subtidal and Intertidal Capping, EMNR, RMC, and backfill materials were imported and stockpiled on Site.
- Intertidal cap repairs at end of SMA-1 Jetty area.

12. Anticipated Work for Next Week

- Demobilize construction equipment
- Processing and off-site disposal of creosote
- Processing and off-site recycling of concrete

13. Changes and Modifications

- No Changes or Modifications required

14. Quantities (See Attached Tracking Tables)

15. Photos

WEEKLY SUMMARY REPORT

PROJECT NO.: 130388-01.02

REPORT PERIOD: January 9 to January 13, 2016

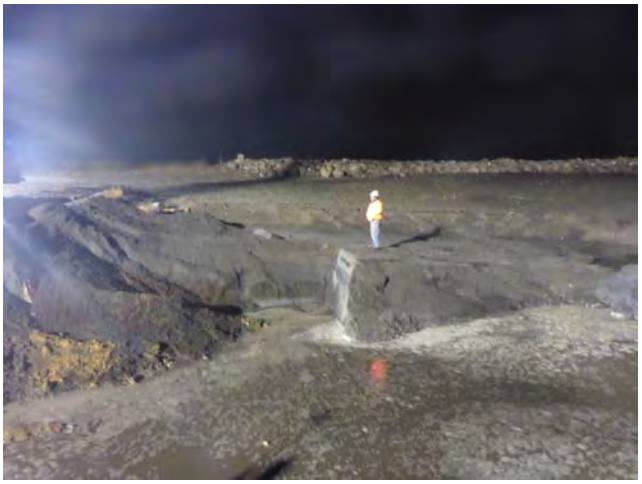
REPORT NO.: 048

PREPARED BY: Jason Cornetta

PROJECT NAME/LOCATION: Port Gamble Bay Cleanup

PHOTOGRAPHS

Comment: Over-excavation of wood waste in SMA-1



Comment: Wood waste chasing in SMA-1 intertidal excavation

Comment: Processing creosote pilings for off-site disposal

Comment: Removal of remaining pilings (diver-assisted)

WEEKLY SUMMARY REPORT

PROJECT NO.: 130388-01.02

REPORT PERIOD: January 9 to January 13, 2016

REPORT NO.: 048

PREPARED BY: Jason Cornetta

PROJECT NAME/LOCATION: Port Gamble Bay Cleanup

PHOTOGRAPHS

Comment: Placing armor in final section of SMA-1 intertidal cap

Comment: Placing habitat substrate in final section of SMA-1 intertidal cap

Appendix G
Archaeological Monitoring Report – Season 2

March 2017
Port Gamble Bay Cleanup Project

ANCHOR QEA

Archaeological Monitoring Report, Season 2

Pope Resources, LP/OPG Properties, LLC

March 2017
Port Gamble Bay Cleanup Project

Archaeological Monitoring Report, Season 2

Prepared for
Pope Resources, LP/OPG Properties, LLC
19950 7th Avenue NE, Suite 200
Poulsbo, Washington 98370

Prepared by
Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, Washington 98101

Project Number: 160388-01.01
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TABLES

FIGURES

ABBREVIATIONS

APE	Area of Potential Effects
Ecology	Washington State Department of Ecology
MTCA	Model Toxics Control Act
NRHP	National Register of Historic Places
PR/OPG	Pope Resources, LP/Olympic Property Group, LLC
Project	Port Gamble Bay Cleanup Project
SMA	Sediment Management Area
USACE	U.S. Army Corps of Engineers
WAC	Washington Administrative Code

1 Introduction

The Washington State Department of Ecology (Ecology) required that Pope Resources, LP/Olympic Property Group, LLC (PR/OPG), undertake environmental cleanup of Port Gamble Bay (Figure 1) in accordance with the requirements of Consent Decree 13-2-02720-0 between Ecology and PR/OPG, entered in December 2013. Cleanup of the site was performed from 2015 to 2017, consistent with the requirements of the Model Toxics Control Act (MTCA), Chapter 70.105D of the Revised Code of Washington (as administered by Ecology under the MTCA Cleanup Regulation), and Chapter 173 340 of the Washington Administrative Code (WAC). Cleanup actions also complied with the WAC Sediment Management Standards, Chapter 173-204.

Dredging, capping, removing creosote-treated piles and remnant creosote-treated structures, and other actions were performed within the Area of Potential Effects (APE) to accomplish the Port Gamble Bay Cleanup Project (Project; Figure 2). Project activities that required archaeological monitoring occurred in two Sediment Management Areas (SMAs) and two existing upland landfill locations. The Project was constructed in two seasons: Season 1 (June 2015 through January 2016) and Season 2 (June 2016 through January 2017). For a detailed description of the Project, see the *Cultural Resources Survey Report* (Bundy 2014) and *Archaeological Monitoring Plan and Inadvertent Discovery Plan* (Bundy 2015). For a report of monitoring during Season 1, see the *Archaeological Monitoring Report, Port Gamble Bay Cleanup Project (NWS-2013-1270), Season 1* (Bundy 2016).

The Project required a Nationwide Permit 38 from the U.S. Army Corps of Engineers (USACE), which was issued in 2015 with subsequent modifications (NWS-2013-1270). USACE must comply with Section 106 of the National Historic Preservation Act. Section 106 requires federal agencies to consider the effects of their undertakings on historic properties. A historic property is a prehistoric or historic building, site, object, structure, or district that is eligible for listing in the National Register of Historic Places (NRHP).

Several NRHP-eligible archaeological sites and built environment properties are located within the Project's APE. None is within the area of ground disturbance, and USACE has determined that none will be adversely affected by the Project. Two sites that have been determined not eligible for the NRHP are located within the area of ground disturbance. One site within SMA-1 and SMA-2, 45KP274, consisted of eight clusters of piles (many of which were removed during construction). The second site, located south of SMA-2, 45KP275, contains a widespread scatter of historic debris in the intertidal zone.

USACE required archaeological monitoring of some of the cleanup activities—intertidal and subtidal dredging, and upland debris removal. This report describes archaeological monitoring activities conducted during Season 2.

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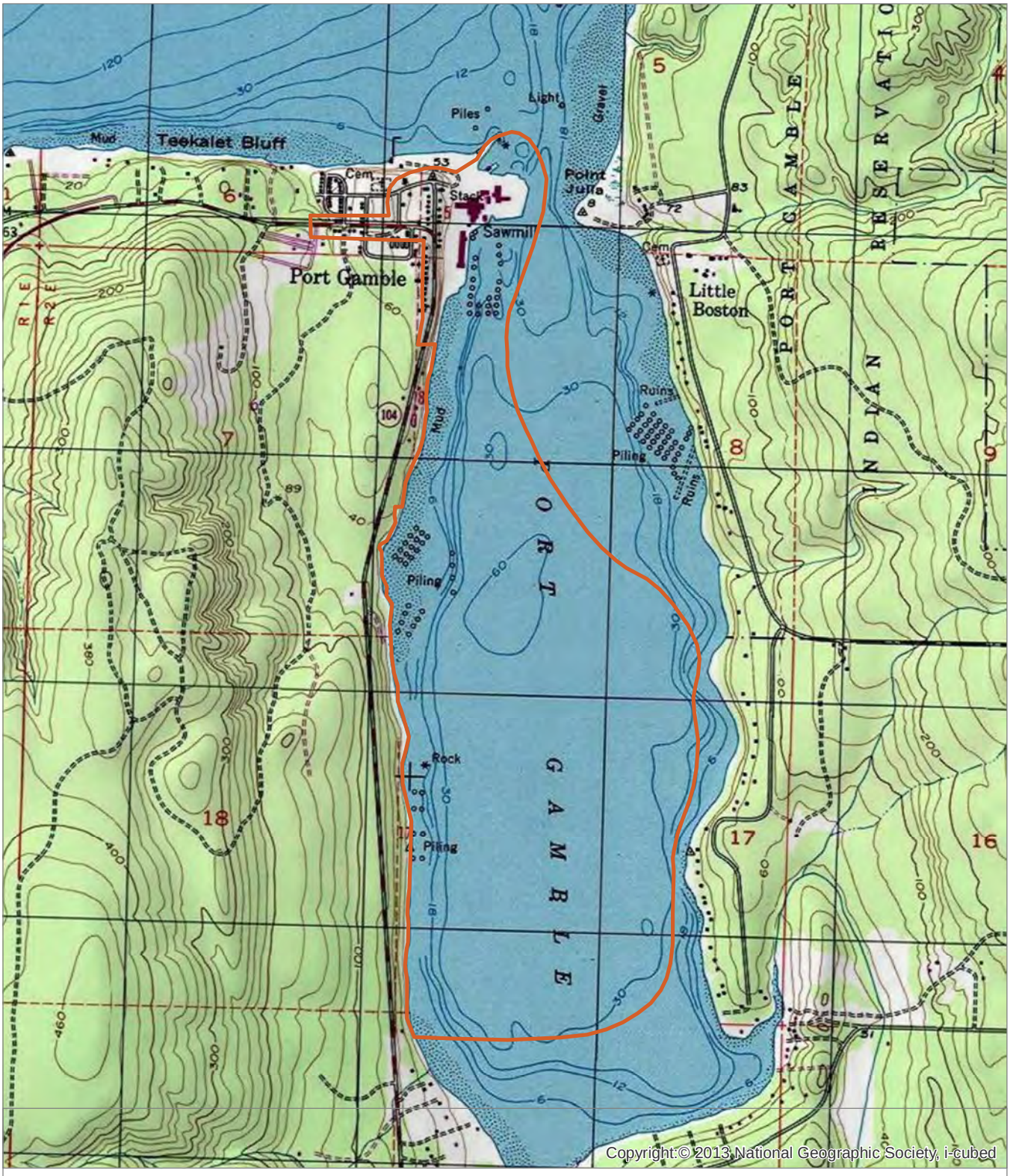
Filepath: K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Port Gamble Sediment Cleanup RI-FS\Archaeological Monitoring Plan\0388-RP-001 (VMAP).dwg F1

ANCHOR QEA

Figure 1
Vicinity Map

Archaeological Monitoring Report, Season 2
Port Gamble Bay Cleanup Project



Publish Date: 2017/02/16, 2:08 PM | User: bbundy
Filepath: C:\Users\bbundy\Documents\GIS\Projects\PortGamble\PtGamble_ArchMonReportS2_Fig2.mxd

ANCHOR QEA

Figure 2
Area of Potential Effects
Archaeological Monitoring Report, Season 2
Port Gamble Bay Cleanup Project

2 Archaeological Monitoring Methods

Methods used for archaeological monitoring are described in detail in the *Archaeological Monitoring Plan and Inadvertent Discovery Plan* (Bundy 2015), and are briefly summarized here.

Archaeological monitoring was directly supervised by Dr. Barbara Bundy, who meets the Secretary of Interior's Professional Qualifications Standards for archaeology. Dr. Bundy and field technicians Alicia Toney and Lindsey Hudson conducted the monitoring.

Intertidal excavation and subtidal dredging in SMA-1 and SMA-2, and debris removal at Landfill 4, were monitored. Monitoring of subtidal and intertidal dredging was phased, with an intensive monitoring phase, followed by a routine monitoring phase if no significant cultural materials were observed during excavation activities.

For intensive monitoring, all sediments in the upland portion of the site that could be safely observed were visually inspected by the archaeological monitor on the first 3 days of each of the following two events: intertidal excavation in SMA-1 and subtidal dredging in SMA-1. For subtidal dredging, this meant examining 3 days of stockpiles from work in 1 day, because excavated materials were stockpiled on the barge during the first 3 days of dredging, preventing access until they were transferred to the upland portion of the site. Debris removal at Landfill 4 was completely monitored.

Because no significant cultural materials were encountered during intensive monitoring of either event in SMA-1, routine monitoring began for both events and continued to the end of the construction season. Intensive monitoring of intertidal excavation in SMA-2 and subtidal dredging in SMA-2 had been completed in Season 1 and was not repeated.

For routine monitoring, all sediments in the upland portion of the site that could be safely observed were visually inspected by the archaeological monitor 1 day per week (once every 7 days).

Due to tides, construction sequencing, and the holidays, work was often not continuous. For example, 5 days of intertidal excavation might occur over 2 calendar weeks. Intertidal excavation and subtidal dredging sometimes occurred simultaneously, in which case they were monitored on the same days. Monitored days were selected by coordinating with the construction team to determine maximum visibility of sediments during each 7-day period. Table 1 shows the days where monitoring occurred in both seasons.

Field notes were maintained and are on file at Anchor QEA. Status updates were provided by email to USACE, Department of Archaeology and Historic Preservation, Ecology, Department of Natural Resources, and affected tribes during monitoring.

Table 1
Archaeological Monitoring Activity, Seasons 1 and 2

Event	Date Completed	Related Email Update
SEASON 1		
Contractor Training	October 7, 2015	October 12, 2015
SMA-2: Intertidal Excavation, Intensive Monitoring	October 7 – 9, 2015	October 12, 2015
SMA-2: Intertidal Excavation, Routine Monitoring	October 30, 2015	November 5, 2015
	November 5, 2015	November 16, 2015
	November 19, 2015	November 23, 2015
	December 3, 2015	December 9, 2015
	December 10, 2015	December 15, 2015
	December 17, 2015	December 22, 2015
	December 28, 2015	December 29, 2015
	January 6, 2016	January 7, 2016
SMA-2: Subtidal Dredging, Intensive Monitoring	November 10, 2015	November 16, 2015
SMA-2: Subtidal Dredging, Routine Monitoring	November 19, 2015	November 23, 2015
	December 3, 2015	December 9, 2015
	December 10, 2015	December 15, 2015
	December 17, 2015	December 22, 2015
	December 28, 2015	December 29, 2015
	January 6, 2016	January 7, 2016
SEASON 2		
Landfill 4: Debris Removal	July 22, 25, 26, and 27, 2016	July 28, 2016
SMA-1: Intertidal Excavation, Intensive Monitoring	July 28, 2016	July 28, 2016
	August 1 and 2, 2016	August 8, 2016
SMA-1: Intertidal Excavation, Routine Monitoring	August 24, 2016	August 29, 2016
	September 8, 2016	September 19, 2016
SMA-1: Subtidal Dredging, Intensive Monitoring	October 18 and 19, 2016	October 25, 2016
SMA-1: Subtidal Dredging, Routine Monitoring	October 27, 2016	November 2, 2016
	October 31, 2016	November 2, 2016
	November 7, 2016	November 23, 2016
	November 17, 2016	November 23, 2016
SMA-2: Subtidal Dredging, Routine Monitoring	October 18, 2016	October 25, 2016
	October 27, 2016	November 2, 2016
	October 31, 2016	November 2, 2016
	November 7, 2016	November 23, 2016
	November 17, 2016	November 23, 2016
	December 2, 2016	December 6, 2016
SMA-2: Intertidal Excavation, Routine Monitoring	January 16, 2017	January 23, 2017

3 Results

No significant archaeological materials were identified during monitoring, and no intact features were identified. Many historic and modern artifacts were observed. Unlike in Season 1, very few diagnostic items were observed, and most were modern. This is probably because much of the work was in SMA-1, which contained mostly engineered fill (unlike SMA-2, which contained some areas where domestic demolition debris had been deposited in the mid-20th century). No precontact archaeological materials were observed.

3.1 Debris Removal at Landfill 4

Landfills 4a and 4b are within the boundary of the non-NRHP-eligible site 45KP275. The entire removal of debris was observed on July 22, 25, 26, and 27, 2016 (Figure 3). Materials observed included the remains of a barge (previously recorded and determined not NRHP-eligible), sparse bricks, small concrete chunks, and occasional small pieces of bottle glass. Bricks appeared to be structural. One partial brick read "CLAYBU" and possibly originally read "CLAYBURN," which is the name of a company that produced bricks from 1901 to 1931 in Clayburn Village near Abbotsford, British Columbia (Figure 4). Bricks were reportedly used for ballast in ships arriving at the mill. A few pieces of heavily rusted metal were also observed. Debris appeared to have been deposited on the beach from the water. No additional debris was observed in the sloping bluff above the site to the west between the beach and State Route 104.

Figure 3
Overview of Landfills 4a and 4b

Figure 4
Brick from Landfill 4b

3.2 Intertidal Excavation in SMA-1

During the cultural resources survey for the Project in 2014 (Bundy 2014), historic-age clusters of piles were noted in the SMA-1 intertidal area, and were included in 45KP275. The site has been determined not eligible for listing in the NRHP. The location of the SMA-2 shoreline is shown as intertidal and subtidal on early historic maps, and was gradually filled to its current position beginning in the late 19th century (Bundy 2014).

Monitoring revealed that the fill in this portion of the mill site appears to be primarily construction or engineered fill, rather than the demolition debris found in some portions of SMA-2 (Figure 5). Very few items were observed, and they were primarily either modern debris or non-diagnostic materials such as wire, rebar, and lumber. A deposit of firebrick was observed (visible in Figure 5, behind the cluster of piles), but was determined not NRHP-eligible.

Figure 5
Conditions in SMA-1

3.3 Remaining Intertidal Excavation in SMA-2

Intertidal excavation in SMA-2 was primarily conducted in Season 1, but a remaining portion was completed in Season 2. Routine monitoring resumed, which consisted of examining excavated sediments. Sediments were consistent with those observed toward the end of Season 1 in that historic and modern debris was sparse, essentially limited to pieces of milled lumber and occasional small fragments of plastic or metal. No significant artifacts or features were observed.

3.4 Subtidal Dredging in SMA-1

Subtidal sediments from dredging in SMA-1 were observed as they were stockpiled on the mill site, because it was not possible to observe directly from the dredging barge due to health and safety considerations. Observed sediments were of two types: subtidal silty sand with fragments of modern shell, and wood waste mixed with sandy silt. The latter was notable for the degree to which wood chips appeared intact, with a landscaping mulch-like appearance. Both types of sediments contained sparse evidence of historic activity such as metal cable, PVC pipe, glass, fabric, and metal fragments. Figure 6 shows both types of sediments.

Figure 6
Typical Sediments from Subtidal Dredging in SMA-1

3.5 Remaining Subtidal Dredging in SMA-2

Subtidal dredging in SMA-2 was primarily conducted in Season 1, but a remaining portion was completed in Season 2. Sediments were the same as described for the Season 1 dredge materials and for SMA-1: a mix of subtidal silty sands, and sediments dominated by wood waste.

4 Recommendations

It is recommended that USACE determine that no historic properties were observed during archaeological monitoring in Season 2.

For future projects, archaeological monitoring is not recommended at the following locations on the mill site:

- Along the shoreline (intertidal zone) of the mill site
- In water in SMA-1 and SMA-2
- Outside of a 50-meter buffer around the site boundary of 45KP252

Season 1 and Season 2 archaeological monitoring, as well as previous cultural resources research and archaeological monitoring, has indicated that there is little potential for significant archaeological sites in these locations.

5 References

Bundy, B.E., 2016. *Archaeological Monitoring Report*, *Port Gamble Bay Cleanup Project (NWS-2013-1270), Season 1*. Report on file at the Department of Archaeology and Historic Preservation, Olympia, Washington.

Bundy, B.E., 2015. *Archaeological Monitoring Plan and Inadvertent Discovery Plan*. Port Gamble Bay Cleanup. Report on file at the Department of Archaeology and Historic Preservation, Olympia, Washington.

Bundy, B.E., 2014. *Cultural Resources Survey Report*. Port Gamble Bay Cleanup. Report on file at the Department of Archaeology and Historic Preservation, Olympia, Washington.

Appendix H
As-built Construction Drawings

RECORD DRAWINGS

PORT GAMBLE BAY CLEANUP

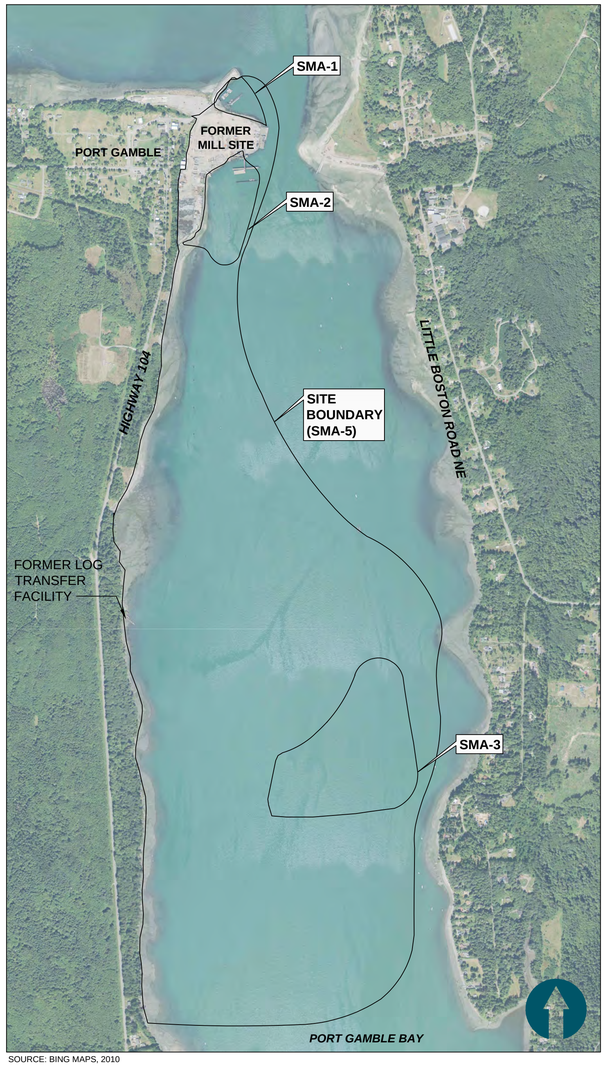
POPE RESOURCES LP / OPG PROPERTIES LLC

VICINITY MAP

SOURCE: ESRI

0 5 10
SCALE IN MILES

LOCATION MAP



SOURCE: BING MAPS, 2010

0 1000 2000
SCALE IN FEET

DRAWING INDEX		
SHEET	SHEET TITLE	SHEET DESCRIPTION
1	T-01	COVER SHEET
2	T-02	GENERAL NOTES AND ABBREVIATIONS
3	G-01	SITE LAYOUT AND SHEET INDEX
4	G-02	PRE-CONSTRUCTION CONDITIONS (1 OF 2)
5	G-03	PRE-CONSTRUCTION CONDITIONS (2 OF 2)
6	G-04	SITE STAGING AND ACCESS
7	G-05	STAGING AND STOCKPILING
8	G-06	VESSEL NAVIGATION LANES
9	D-01	DEMOLITION PLAN (1 OF 2) STRUCTURES AND PILING
10	D-02	DEMOLITION PLAN (2 OF 2) STRUCTURES AND PILING
11	C-01	POST-DREDGE/EXCAVATION PLAN (SMA-1)
12	C-02	POST-DREDGE/EXCAVATION CROSS SECTIONS (SMA-1)
13	C-03	POST-DREDGE/EXCAVATION PLAN (SMA-2)
14	C-04	POST-DREDGE/EXCAVATION CROSS SECTIONS (SMA-2) 1 OF 2
15	C-05	POST-DREDGE/EXCAVATION CROSS SECTIONS (SMA-2) 2 OF 2
16	C-06	POST-RESIDUALS COVER AND CAPPING CONDITIONS (SMA-1)
17	C-07	POST-RESIDUALS COVER AND CAPPING CROSS SECTIONS (SMA-1)
18	C-08	POST-CAPPING CONDITIONS (SMA-2)
19	C-09	POST-CAPPING CROSS SECTIONS (SMA-2) 1 OF 2
20	C-10	POST-CAPPING CROSS SECTIONS (SMA-2) 2 OF 2
21	C-11	POST-CONSTRUCTION CONDITIONS (SMA-3)
22	C-12	TESC DETAILS
23	C-13	MISCELLANEOUS DETAILS
24	C-14	CAP DETAILS

ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

RECORD DRAWINGS

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN C. LAPLANTE
STATE OF WASHINGTON
18792
REGISTERED
PROFESSIONAL ENGINEER
10/5/17

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS NOTED
DATE: OCTOBER 2017

PORT GAMBLE BAY CLEANUP
RECORD DRAWINGS

COVER SHEET

T-01

SHEET NO. 1 OF 24

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-T-01 (Cover).dwg T-01
Jan 04, 2018 9:48am chewett

SMA-1 DREDGE CONTROL POINTS

SMA-1 DREDGE CONTROL POINTS			SMA-1 DREDGE CONTROL POINTS		
POINT #	NORTHING	EASTING	POINT #	NORTHING	EASTING
1	317099.68	1211886.63	46	317270.21	1211534.74
2	317115.89	1211839.81	47	317330.04	1211474.92
3	317159.34	1211769.01	48	317380.49	1211525.37
4	317176.75	1211721.62	49	317374.13	1211531.74
5	317213.02	1211597.43	50	317381.22	1211538.83
6	317208.44	1211560.17	51	317377.96	1211542.08
7	317298.13	1211277.63	52	317349.81	1211522.77
8	317328.17	1211269.57	53	317303.22	1211529.71
9	317357.24	1211247.88	54	317284.37	1211548.91
10	317427.43	1211252.42	55	317333.22	1211471.74
11	317514.41	1211283.07	56	317389.86	1211415.09
12	317545.36	1211312.18	57	317437.14	1211462.37
13	317576.31	1211341.28	58	317380.49	1211519.01
14	317589.39	1211343.73	59	317386.86	1211531.74
15	317636.94	1211390.35	60	317446.68	1211471.91
16	317640.39	1211402.29	61	317528.62	1211573.80
17	317699.26	1211462.31	62	317478.77	1211623.65
18	317728.82	1211493.48	63	317287.63	1211552.17
19	317758.99	1211524.87	64	317305.38	1211533.94
20	317718.25	1211557.57	65	317348.72	1211527.48
21	317695.97	1211587.68	66	317375.98	1211546.18
22	317707.17	1211608.83	67	317360.84	1211561.32
23	317706.50	1211613.95	68	317358.72	1211565.57
24	317704.25	1211613.93	69	317329.57	1211594.12
25	317682.55	1211588.88	70	317362.96	1211563.44
26	317665.04	1211545.22	71	317385.46	1211540.95
27	317609.68	1211473.38	72	317473.47	1211628.96
28	317585.05	1211448.63	73	317418.93	1211683.50
29	317543.83	1211397.68	74	317392.03	1211656.59
30	317506.28	1211370.44	75	317424.07	1211624.56
31	317464.34	1211348.66	76	317330.93	1211595.48
32	317434.83	1211340.84	77	317359.78	1211566.63
33	317417.08	1211342.25	78	317417.71	1211624.56
34	317395.08	1211353.17	79	317388.85	1211653.41
35	317367.32	1211383.29	80	317421.05	1211685.62
36	317364.24	1211389.47	81	317475.59	1211631.08
37	317362.90	1211402.10	82	317486.20	1211631.08
38	317312.82	1211450.50	83	317535.24	1211582.03
39	317305.69	1211450.95	84	317551.82	1211603.13
40	317248.50	1211509.70	85	317432.38	1211696.95
41	317245.43	1211509.96	86	317436.65	1211701.23
42	317202.06	1211697.23	87	317555.83	1211607.61
43	317194.73	1211751.87	88	317581.97	1211640.09
44	317169.80	1211812.59	89	317495.80	1211728.34
45	317136.80	1211852.81	90	317449.56	1211714.15

SMA-2 DREDGE CONTROL POINTS

SMA-2 DREDGE CONTROL POINTS			SMA-2 DREDGE CONTROL POINTS			SMA-2 DREDGE CONTROL POINTS		
POINT #	NORTHING	EASTING	POINT #	NORTHING	EASTING	POINT #	NORTHING	EASTING
1001	316669.16	1211637.49	1055	316027.55	1211292.89	1108	316419.83	1211240.69
1002	316671.08	1211620.32	1056	316027.55	1211309.89	1109	316411.09	1211233.91
1003	316669.50	1211611.47	1057	315960.43	1211309.89	1110	316391.04	1211225.08
1004	316662.07	1211598.15	1058	315960.43	1211241.10	1111	316376.95	1211225.08
1005	316658.98	1211590.07	1059	316003.21	1211234.39	1112	316357.03	1211230.35
1006	316666.90	1211557.76	1060	316030.55	1211231.73	1113	316245.88	1211277.96
1007	316665.23	1211551.48	1061	316089.55	1211232.06	1114	316221.19	1211280.68
1008	316636.84	1211500.79	1062	316089.55	1211266.89	1115	316203.48	1211276.52
1009	316627.07	1211489.69	1063	316240.47	1211280.28	1116	316180.61	1211277.79
1010	316614.24	1211465.80	1064	316170.23	1211310.20	1117	316183.99	1211260.89
1011	316610.77	1211461.61	1065	316160.52	1211315.78	1118	316192.09	1211260.89
1012	316615.01	1211458.97	1066	316142.65	1211331.89	1119	316204.12	1211207.39
1013	316618.49	1211463.16	1067	316050.01	1211331.89	1120	316202.81	1211190.00
1014	316623.87	1211472.43	1068	316050.01	1211320.39	1121	316191.00	1211174.46
1015	316631.31	1211487.05	1069	316036.55	1211309.89	1122	316174.74	1211166.62
1016	316641.09	1211498.14	1070	316036.55	1211301.89	1123	316094.24	1211166.76
1017	316669.47	1211548.84	1071	316177.55	1211301.89	1124	316080.00	1211169.85
1018	316671.14	1211555.12	1072	316177.55	1211281.59	1125	316067.95	1211178.05
1019	316663.23	1211587.43	1073	316132.74	1211340.89	1126	316062.85	1211187.85
1020	316666.32	1211595.51	1074	316132.88	1211367.89	1127	316066.84	1211195.38
1021	316673.74	1211608.83	1075	316041.04	1211367.89	1128	316071.47	1211201.82
1022	316675.32	1211617.68	1076	316041.60	1211340.89	1129	316072.40	1211214.54
1024	316609.14	1211644.89	1077	316132.89	1211373.89	1130	316059.69	1211219.31
1025	316606.92	1211645.76	1078	316035.03	1211373.89	1131	316043.07	1211221.76
1026	316595.74	1211626.95	1079	316030.51	1211329.91	1132	316030.60	1211222.23
1027	316598.29	1211625.44	1080	316030.51	1211407.41	1133	316032.29	1211210.70
1028	316585.86	1211603.17	1081	315880.68	1211403.97	1134	315968.68	1211215.02
1029	316582.71	1211605.03	1082	315883.01	1211320.39	1135	315999.63	1211160.78
1030	316549.81	1211549.68	1083	316018.31	1211320.39	1136	315963.03	1211156.24
1031	316554.45	1211547.07	1084	315957.43	1211238.33	1137	315842.10	1211177.10
1032	316552.09	1211543.06	1085	315957.43	1211306.89	1138	315811.81	1211174.87
1033	316547.48	1211545.77	1086	315883.18	1211306.89	1139	315788.16	1211161.40
1034	316541.77	1211538.69	1087	315884.56	1211267.55	1140	315758.71	1211153.38
1035	316501.97	1211534.30	1088	315919.75	1211249.38	1141	315717.98	1211150.78
1036	316535.25	1211508.59	1089	315872.13	1211333.70	1142	315694.34	1211142.83
1037	316548.49	1211529.92	1090	315871.33	1211362.69	1143	315671.24	1211129.30
1038	316523.33	1211489.37	1091	315773.87	1211359.98	1144	315633.06	1211095.68
1039	316469.76	1211530.75	1092	315774.67	1211330.99	1145	315578.97	1211065.42
1040	316428.64	1211469.49	1093	315877.16	1211368.85	1146	315566.48	1211060.03
1041	316489.97	1211435.60	1094	315876.19	1211403.84	1147	315495.89	1211045.40
1042	316486.01	1211429.22	1095	315772.73	1211400.96	1148	315476.00	1211034.74
1043	316424.43	1211463.24	1096	315773.70	1211365.98	1149	315467.32	1211026.62
1044	316371.57	1211384.48	1097	316627.20	1211446.53	1150	315487.68	1210871.32
1045	316383.08	1211322.17	1098	316593.86	1211431.10	1151	315488.52	1210864.96
1046	316396.71	1211306.10	1099	316553.58	1211396.37	1152	315587.33	1210968.37
1047	316436.40	1211375.54	1100	316540.53	1211395.39	1153	315638.91	1211046.90
1048	316447.32	1211366.86	1101	316508.67	1211333.88	1154	315583.37	1210971.46
1049	316168.55	1211217.59	1102	316493.17	1211316.15	1155	315631.97	1211047.38
1050	316168.55	1211260.89	1103	316470.55	1211308.70	1156	315717.62	1211104.54
1051	316095.55	1211260.89	1104	316453.80	1211273.07	1157	316391.60	1211153.25
1052	316095.34	1211217.96	1105	316446.32	1211262.18	1158	316423.33	1211169.35
1053	316168.55	1211266.89	1106	316435.28	1211253.29	1159	316598.19	1211391.70
1054	316168.55	1211292.89	1107	316424.99	1211249.17			

SMA-1 CAPPING CONTROL POINTS

SMA-1 CAPPING CONTROL POINTS			SMA-1 CAPPING CONTROL POINTS		
POINT #	NORTHING	EASTING	POINT #	NORTHING	EASTING
2001	317058.09	1211948.93	2037	317161.43	1211842.57
2002	317079.63	1211911.05	2038	317182.83	1211808.00
2003	317073.23	1211907.76	2039	317202.80	1211747.20
2004	317101.05	1211827.46	2040	317205.28	1211709.28
2005	317078.82	1211817.39	2041	317220.51	1211668.36
2006	317178.42	1211539.74	2042	317221.35	1211626.65
2007	317206.50	1211432.00	2043	317241.16	1211557.46
2008	317244.01	1211345.44	2044	317245.81	1211542.71
2009	317271.73	1211291.09	2045	317246.34	1211516.66
2010	317291.43	1211269.06	2046	317243.99	1211513.13
2011	317323.68	1211259.88	2047	317364.17	1211389.40
2012	317354.77	1211238.28	2048	317372.34	1211385.66
2013	317428.97	1211242.06	2049	317395.68	1211358.12
2014	317519.90	1211272.86	2050	317415.63	1211347.17
2015	317579.63	1211327.93	2051	317429.50	1211344.38
2016	317596.96	1211335.55	2052	317452.46	1211348.50
2017	317647.97	1211380.92	2053	317504.50	1211373.01
2018	317649.58	1211396.07	2054	317543.25	1211401.50
2019	317696.09	1211442.49	2055	317575.69	1211439.16
2020	317762.72	1211509.05	2056	317663.87	1211545.49
2021	317770.34	1211525.71	2057	317681.84	1211589.57
2022	317725.70	1211562.31	2058	317702.85	1211623.05
2023	317704.30	1211586.64	2059	317277.92	1211550.08
2024	317716.53	1211605.12	2060	317384.22	1211655.78
2025	317710.57	1211616.94	2061	317446.13	1211716.87
2026	317565.28	1211739.46	2062	317496.17	1211730.73
2027	317454.60	1211811.04	2063	317586.32	1211641.20
2028	317336.29	1211869.16	2064	317558.71	1211602.29
2029	317161.49	1211928.06	2065	317553.57	1211601.73
2030	317079.01	1211891.07	2066	317538.51	1211582.50
2031	317087.06	1211894.10	2067	317537.71	1211567.29
2032	317164.60	1211772.04	2068	317458.67	1211462.50
2033	317225.01	1211552.77	2069	317437.35	1211460.26
2034	317077.94	1211915.22	2070	317413.42	1211438.00
2035	317108.35	1211897.35	2071	317398.15	1211414.85
2036	317135.15	1211874.75	2072	317375.12	1211393.88

SIGNIFICANT REVISIONS WERE MADE TO THE DREDGING AND CAPPING AREAS DURING CONSTRUCTION. SEE DRAWINGS C-01, C-03, C-06, AND C-08 FOR FINAL CONFIGURATION OF DREDGING AND CAPPING AREAS

SMA-2 CAPPING CONTROL POINTS

SMA-2 CAPPING CONTROL POINTS			SMA-2 CAPPING CONTROL POINTS			SMA-2 CAPPING CONTROL POINTS		
POINT #	NORTHING	EASTING	POINT #	NORTHING	EASTING	POINT #	NORTHING	EASTING
3001	316654.26	1211695.74	3056	315565.76	1210879.14	3111	316139.49	1211437.75
3002	316612.04	1211669.29	3057	315574.39	1210882.60	3112	316133.08	1211421.01
3003	316591.26	1211635.15	3058	315649.95	1210984.70	3113	315861.90	1211258.35
3004	316565.23	1211616.00	3059	315672.46	1211004.87	3114	315864.08	1211303.01
3005	316523.91	1211565.03	3060	315673.14	1211015.78	3115	315854.96	1211313.80
3006	316499.32	1211561.93	3061	315732.85	1211059.57	3116	315771.88	1211310.68
3007	316461.45	1211539.63	3062	315924.23	1211072.04	3117	315761.68	1211316.24
3008	316438.22	1211503.78	3063	315929.17	1211067.11	3118	315756.98	1211325.34
3009	316406.55	1211479.33	3064	315954.75	1211066.69	3119	315690.47	1211340.40
3010	316410.64	1211469.25	3065	315962.79	1211073.34	3120	315636.67	1211336.90
3011	316357.27	1211387.26	3066	316265.73	1211095.75	3121	315528.09	1211308.75
3012	316359.91	1211312.09	3067	316402.79	1211105.34	3122	315493.35	1211273.72
3013	316377.00	1211276.74	3068	316449.05	1211130.19	3123	315481.52	1211236.82
3014	316396.77	1211263.77	3069	316722.77	1211519.49	3124	315535.02	1211253.10
3015	316397.86	1211246.05	3070	316719.31	1211533.60	3125	315564.03	1211263.05
3016	316410.07	1211238.76	3071	316713.19	1211541.38	3126	315619.18	1211285.18
3017	316388.85	1211229.33	3072	316734.54	1211604.29	3127	315667.09	1211292.23
3018	316145.10	1211334.74	3073	316721.66	1211608.48	3128	315697.05	1211292.08
3019	316132.99	1211404.44	3074	316729.07	1211633.22	3129	315789.80	1211270.39
3020	316097.84	1211395.75	3075	316680.59	1211650.64	3130	315825.86	1211265.15
3021	316030.44	1211410.69	3076	316672.03	1211637.14	3131	315846.37	1211260.21
3022	315880.13	1211408.29	3077	316635.00	1211641.70	3132	316517.88	1211737.25
3023	315876.17	1211404.53	3078	316654.50	1211686.50	3133	316433.69	1211740.41
3024	315771.79	1211402.00	3079	316676.66	1211644.43	3134	316421.33	1211737.00
3025	315766.54	1211365.78	3080	316623.18	1211453.74	3135	316355.96	1211691.40
3026	315771.65	1211359.92	3081	316593.08	1211394.88	3136	316260.28	1211673.70
3027	315766.96	1211326.64	3082	316419.03	1211173.90	3137	316194.04	1211701.17
3028	315772.72	1211320.75	3083	316389.61	1211159.13	3138	316164.74	1211708.00
3029	315865.28	1211323.98	3084	315717.07	1211110.76	3139	315708.53	1211583.39
3030	315865.16	1211316.73	3085	315642.41	1211056.37	3140	315583.16	1211498.49
3031	315874.27	1211306.78	3086	315631.97	1211047.38	3141	316554.05	1211733.22
3032	315871.04	1211264.50	3087	315583.01	1210971.10	3142	316514.05	1211789.11
3033	315876.53	1211253.53	3088	315540.49	1210926.59	3143	316476.64	1211821.08
3034	315911.95	1211227.31	3089	315483.95	1210860.53	3144	316412.15	1211855.43
3035	315930.59	1211218.74	3090	315476.83	1210912.01	3145	316301.59	1211855.66
3036	315962.77	1211215.53	3091	316670.92	1211617.69	3146	316219.56	1211833.10
3037	315990.72	1211164.56	3092	316658.54	1211591.82	3147	316050.31	1211798.34
3038	315962.44	1211160.82	3093	316667.27	1211555.68	3148	315838.81	1211744.48
3039	315842.97	1211182.28	3094	316636.84	1211500.79	3149	315330.05	1211581.94
3040	315810.28	1211179.68	3095	316610.77	1211461.61	3150	315286.75	1211556.20
3041	315786.03	1211166.19	3096	316547.33	1211400.02	3151	315238.04	1211479.00
3042	315753.22	1211157.96	3097	316536.99	1211397.59	3152	315219.09	1211399.08
3043	315715.21	1211153.62	3098	316488.32	1211323.06	3153	315239.39	1211302.92
3044	315692.99	1211146.83	3099	316468.45	1211310.71	3154	315298.92	1211237.90
3045	315667.33	1211132.01	3100	316440.01	1211264.56	3155	315377.09	1211190.97
3046	315626.64	1211097.39	3101	316410.38	1211248.24	3156	315363.93	1211158.18
3047	315589.07	1211076.52	3102	316357.98	1211203.02	3157	315425.74	1211165.86
3048	315565.75	1211065.23	3103	316335.00	1211194.92	3158	315435.19	1211176.11
3049	315494.15	1211050.11	3104	316200.77	1211186.18	3159	315450.79	1211216.77
3050	315472.56	1211038.42	3105	316182.91	1211174.98	3160	316204.27	1211627.00
3051	315462.70	1211028.55	3106	316084.44	1211174.35	3161	316143.42	1211566.16
3052	315488.53	1210830.45	3107	316062.77	1211187.13	3162	316143.42	1211687.84
3053	315492.89	1210830.98	3108	315976.75	1211190.04	3163	316082.58	1211627.00
3054	315499.08	1210817.99	3109	316381.54	1211485.59			
3055	315509.96	1210818.57	3110	316170.47	1211451.40			

1

ABBREVIATIONS

ABBRV	ABBREVIATION
APPROX.	APPROXIMATE/APPROXIMATELY
BLDG	BUILDING
BMP	BEST MANAGEMENT PRACTICES
CONC	CONCRETE
CONT	CONTINUED OR CONTINUOUS
CP	CONTROL POINT (SURVEYED)
CY	CUBIC YARD
DWG	DRAWING
E	EAST
EL, ELEV	ELEVATION
EX	EXISTING
FT	FOOT OR FEET
IN	INCH OR INCHES
MAX	MAXIMUM
MH	MANHOLE, MAINTENANCE HOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MHHW	MEAN HIGHER HIGH WATER
MLLW	MEAN LOWER LOW WATER
N	NORTH
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NO.	NUMBER
OC	ON CENTER
OHP	OVERHEAD POWER
PR/OPG	POPE RESOURCES/OPG PROPERTIES LLC
ROW	RIGHT OF WAY
S	SOUTH
SD	STORM DRAIN
SF	SQUARE FOOT OR FEET
SHT	SHEET
SMA	SEDIMENT MANAGEMENT AREA
SPEC	SPECIFICATION
STA	STATION
STD	STANDARD
STRUCT	STRUCTURE, STRUCTURAL
TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
TYP	TYPICAL
W	WEST
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

DETAIL AND SECTION REFERENCING:

DETAIL REFERENCE NUMBER — 1
DRAWING ON WHICH DETAIL APPEARS — C-01
"-" INDICATES TYPICAL OR ON SAME DRAWING

DETAIL REFERENCE NUMBER — 1 / - DETAIL
SCALE:1" = 10'

INDICATES DIRECTION OF CUTTING PLANE

SECTION "A" IS SHOWN ON DRAWING "C-02" — A / C-02

SECTION REFERENCE NUMBER — A / - SECTION
SCALE:1" = 10'

GENERAL SURVEY NOTES

1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
2. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).
3. PRE-CONSTRUCTION UPLAND SURVEY BY TRIAD ASSOCIATES, DATED JULY, 2012. DATUM CHANGED FROM NAVD88 TO MLLW WITH THE FOLLOWING EQUATION, NAVD88 + 2.12 FEET = MLLW. PRE-CONSTRUCTION BATHYMETRY BY ETRAC, DATED AUGUST 27, 2014, AND ECOLOGY, DATED 2014.
4. POST-DREDGE BATHYMETRY FROM ORION, DATED NOVEMBER, 2016, TO JANUARY, 2017. 1
5. POST-CONSTRUCTION BATHYMETRY FROM ETRAC, DATED JANUARY 19, 2017.
6. THE ABOVE SURVEYS WERE MERGED BY ANCHOR QEA TO PROVIDE A CONTINUOUS EXISTING ELEVATIONS DATA SET.
7. MEAN HIGHER HIGH WATER IS AT ELEVATION 10.30 FEET MLLW

RECORD DRAWINGS

ONE INCH

AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-T-01 (Cover).dwg T-02

Jan 04, 2018 9:48am chewett

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN P. LAPLANTE STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER 10/31/17

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: N/A
DATE: OCTOBER 2017

PORT GAMBLE BAY CLEANUP RECORD DRAWINGS

GENERAL NOTES AND ABBREVIATIONS

T-02

SHEET NO. 2 OF 24

NOTES:

1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.

RECORD DRAWINGS

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-G-01 (Precon Conditions).dwg G-01

Jan 04, 2018 9:49am chewett

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN P. LAPLANTE, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER, 10/31/17

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = 600'
DATE: OCTOBER 2017

PORT GAMBLE BAY CLEANUP RECORD DRAWINGS

SITE LAYOUT AND SHEET INDEX

G-01

SHEET NO. 3 OF 24

SIGNIFICANT QUANTITIES OF INTERTIDAL AND SUBTIDAL PILES WERE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THESE DRAWINGS

BASELINE CONTROL POINTS		
POINT #	NORTHING	EASTING
BL1	315542.8	1210833.3
BL2	315740.4	1211040.6
BL3	316483.1	1211055.2
BL4	316775.8	1211543.0
BL5	316824.6	1211819.4
BL6	317019.7	1211863.4
BL7	317133.1	1211356.2
BL8	317290.9	1211230.8
BL9	317483.9	1211180.3
BL10	317799.5	1211526.9

EASTERN WHARF
ALDER CHIP MILL
BREAKWATER
PORT GAMBLE BAY
CONVEYOR/ PIER
NO EELGRASS ENCOUNTERED IN THIS AREA
ROCK MOUND
MISCELLANEOUS CONCRETE SHORELINE BULKHEADS
PIER 4
FORMER MILL SITE
LOG TRANSFER DOCK
PILE REMOVAL IN SENSITIVE HABITAT
HOOD CANAL
PIER 5
EXISTING CONCRETE BULKHEAD
PROPOSED PROJECT BASELINE
APPROXIMATE LOCATION OF WATER SOURCE
FUEL STATION (PROTECT)
MISC. WOOD DEBRIS AND SOIL (CONTRACTOR TO STOCKPILE FOR OFF-SITE DISPOSAL OR RECYCLING)
HIGHWAY 104
PORT GAMBLE

LEGEND:
- APPROXIMATE PILE LOCATION
- PRE-CONSTRUCTION CONTOUR (1' AND 5' INTERVAL)
- CONTROL POINT (TRIAD)
- EXISTING CONCRETE BULKHEAD
- PROJECT BASELINE
- PROJECT BASELINE CONTROL POINT
- MONITORING WELL (PROTECT)
- EXISTING EELGRASS BED
- EELGRASS BED TRANSPLANTED BY OTHERS

NOTE:
1. PILE LOCATIONS ARE APPROXIMATE AND WERE DEVELOPED FROM BATHYMETRIC SURVEYS, AERIAL PHOTOGRAPHS, VISUAL OBSERVATIONS AND TEST PITS, AND PRIOR DREDGING EXPERIENCE AT THE SITE, AND MAY NOT REPRESENT THE TOTAL PILING ENCOUNTERED DURING THE CLEANUP WORK.
2. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
3. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

NORTH
0 100 200
SCALE IN FEET
ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

RECORD DRAWINGS

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-G-01 (Precon Conditions).dwg G-02
Jan 04, 2018 9:49am chewett

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN P. LAPLANTE, STATE OF WASHINGTON, 38792, REGISTERED PROFESSIONAL ENGINEER, 10/5/17

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = 100'
DATE: OCTOBER 2017

PORT GAMBLE BAY CLEANUP RECORD DRAWINGS

PRE-CONSTRUCTION CONDITIONS (1 OF 2)

G-02

SHEET NO. 4 OF 24

SIGNIFICANT QUANTITIES OF INTERTIDAL AND SUBTIDAL PILES WERE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THESE DRAWINGS. REVISION CLOUDS AROUND PILES INDICATES ADDITIONAL PILING TARGET LOCATIONS ADDED BY DEPARTMENT OF ECOLOGY.

PORT GAMBLE BAY

FORMER LANDFILLS 4A AND 4B

FORMER LOG TRANSFER FACILITY (FLTF)

EXISTING MODEL AIRPLANE FIELD

UPLAND CONTAINMENT SITE

HIGHWAY 104

-60
-50
-40
-30
-20
-10
0

E:1,211,000
N:314,000
E:1,211,000
N:312,000
E:1,211,000
N:310,000
E:1,209,000
N:314,000
E:1,209,000
N:312,000
E:1,209,000
N:310,000

LEGEND:

- APPROXIMATE PILE LOCATION

PRE-CONSTRUCTION CONTOUR (2' AND 10' INTERVAL)

NOTE:

1. PILE LOCATIONS ARE APPROXIMATE AND WERE DEVELOPED FROM BATHYMETRIC SURVEYS, AERIAL PHOTOGRAPHS, VISUAL OBSERVATIONS AND TEST PITS, AND PRIOR DREDGING EXPERIENCE AT THE SITE, AND MAY NOT REPRESENT THE TOTAL PILING ENCOUNTERED DURING THE CLEANUP WORK.
2. BATHYMETRY FROM ETRAC, DATED AUGUST 27, 2014, AND ECOLOGY, DATED MARCH 2015.
3. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
4. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW). VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) FOR WORK PERFORMED AT THE MODEL AIRPLANE FIELD.

NORTH

0 200 400
SCALE IN FEET

ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

RECORD DRAWINGS

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-G-01 (Precon Conditions).dwg G-03

Jan 04, 2018 9:50am chewett

ANCHOR QEA

POPE RESOURCES LP / OPG PROFERTIES LLC

JOHN P. LAPLANTE STATE OF WASHINGTON 38792 REGISTERED PROFESSIONAL ENGINEER

10/5/17

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

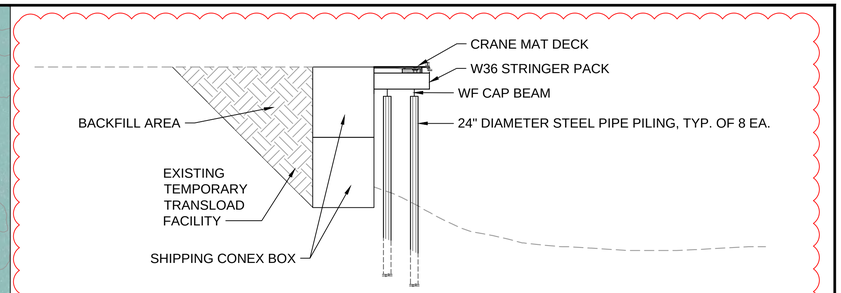
DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = 200'
DATE: OCTOBER 2017

PORT GAMBLE BAY CLEANUP
RECORD DRAWINGS

PRE-CONSTRUCTION CONDITIONS (2 OF 2)

G-03

SHEET NO. **5** OF **24**



1 / - TEMPORARY TRANSLOAD FACILITY

SCALE:NTS

NOTE: TEMPORARY TRANSLOAD FACILITY REMOVED DURING DEMOBILIZATION

CLEAN MATERIAL BARGE LOADING CONVEYOR (REMOVED DURING DEMOBILIZATION) ⚠1

TEMPORARY TRANSLOAD FACILITY SEE DETAIL 1, THIS SHEET

PORT GAMBLE BAY

APPROXIMATE LOCATION OF PERIMETER BERM (PERIMETER BERM REMAINS ON SITE)

PIER 4

PIER 5

FORMER MILL SITE

HOOD CANAL

TEMPORARY SECURITY FENCE

RAINIER AVENUE

WALKER STREET

KITSAP AVENUE

HIGHWAY 104

UPLAND CONTAINMENT SITE ⚠1

NOTES:
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
2. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW). VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) FOR WORK PERFORMED AT THE MODEL AIRPLANE FIELD.

LEGEND:

- STAGING AND STOCKPILING AREA
- POTENTIAL HAUL ROUTE
- PRE-CONSTRUCTION CONTOUR (2' AND 10' INTERVAL)
- TEMPORARY SECURITY FENCE
- PERIMETER BERM

NORTH

0 200 400

SCALE IN FEET

ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

RECORD DRAWINGS

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN P. LAPLANTE, STATE OF WASHINGTON, 18792, REGISTERED PROFESSIONAL ENGINEER, 12/5/17

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = X'
DATE: OCTOBER 2017

PORT GAMBLE BAY CLEANUP RECORD DRAWINGS

SITE STAGING AND ACCESS

G-04

SHEET NO. 6 OF 24

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-G-04 (Staging and access).dwg G-04
Jan 04, 2018 9:50am chewett

THE PRECONSTRUCTION SURFACE WITHIN STOCKPILE AREAS CONTAINED EXPOSED HARDSCAPE. FOLLOWING REMOVAL OF THE STOCKPILES, ADDITIONAL AREAS OF UNDERLYING HARDSCAPE WERE IDENTIFIED AND ADDITIONAL UNKNOWN AREAS OF HARDSCAPE MAY EXIST.

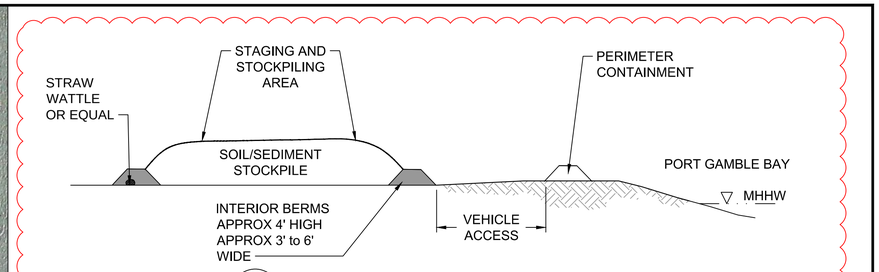
PORT GAMBLE BAY

PERIMETER CONTAINMENT (TYP.)

FORMER MILL SITE

-30 -20 -10 -20 -20 -10 0 10 -20 -10 0 10

A



A - STOCKPILE CONTAINMENT SCHEMATIC

SCALE:NTS

NOTE: SOIL/SEDIMENT STOCKPILES WERE REMOVED DURING DEMOBILIZATION

1

LEGEND:

- STAGING AND STOCKPILING AREA
- PERIMETER CONTAINMENT
- POST-CONSTRUCTION CONTOUR (2' AND 10' INTERVAL)

NOTES:

1. SEE ADDITIONAL TESC DETAILS ON DRAWING C-12.
2. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
3. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

NORTH

0 80 160

SCALE IN FEET

ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

RECORD DRAWINGS

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-G-04 (Staging and access).dwg G-05

Jan 04, 2018 9:51am chewett

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN P. LAPLANTE STATE OF WASHINGTON 18792 REGISTERED PROFESSIONAL ENGINEER 10/5/17

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = X'
DATE: OCTOBER 2017

PORT GAMBLE BAY CLEANUP
RECORD DRAWINGS

STAGING AND STOCKPILING

G-05

SHEET NO. 7 OF 24

NO CHANGES TO THIS DRAWING

POINT JULIA

N=317941.2
E=1212300.7

N=318169.0
E=1212088.8

TO OFF-SITE FACILITIES

SMA-1

SMA-2

FORMER MILL SITE

N=316812.8
E=1212089.6

N=315122.5
E=1212679.9

N=315254.8
E=1211291.3

N=312269.7
E=1213764.6

N=312587.6
E=1210855.4

SMA-3

LEGEND:

- APPROXIMATE NAVIGATION LANE
- USACE NAVIGATION CHANNEL
- POTENTIAL MOORAGE AREAS
- NO ANCHORAGE OR SPUDDING AREA
- EELGRASS BED TO BE TRANSPLANTED BY OTHERS (NO DREDGING, SPUDDING, OR MATERIAL PLACEMENT PRIOR TO EELGRASS REMOVAL BY OTHERS)
- NO VESSELS PERMITTED DURING ACTIVE FISHING/SHELLFISHING HARVESTS
- SEDIMENT MANAGEMENT AREAS

NOTES:
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
2. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

NORTH

0 400 800
SCALE IN FEET

ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

RECORD DRAWINGS

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-G-06 (Nav Lanes).dwg G-06
Jan 04, 2018 9:51am dhewett

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN P. LAPLANTE STATE OF WASHINGTON 36792 REGISTERED PROFESSIONAL ENGINEER 10/5/17

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = 400'
DATE: OCTOBER 2017

PORT GAMBLE BAY CLEANUP
RECORD DRAWINGS

VESSEL NAVIGATION LANES

G-06

SHEET NO. 8 OF 24

PHOTO 1: LOG TRANSFER DOCK

PHOTO 2: EASTERN WHARF

PHOTO 3: CONVEYOR/PIER
(FROM BING MAPS IMAGERY)

PHOTO 4: ALDER CHIP MILL

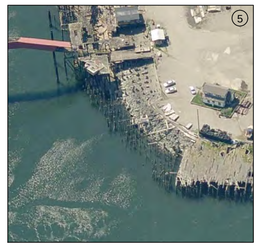


PHOTO 5: SHORELINE BETWEEN WHARF AND ALDER CHIP MILL

PHOTO 6: PIER 4

PHOTO 7: PIER 5 AND SHORELINE BULKHEADS

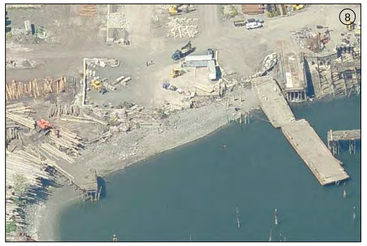


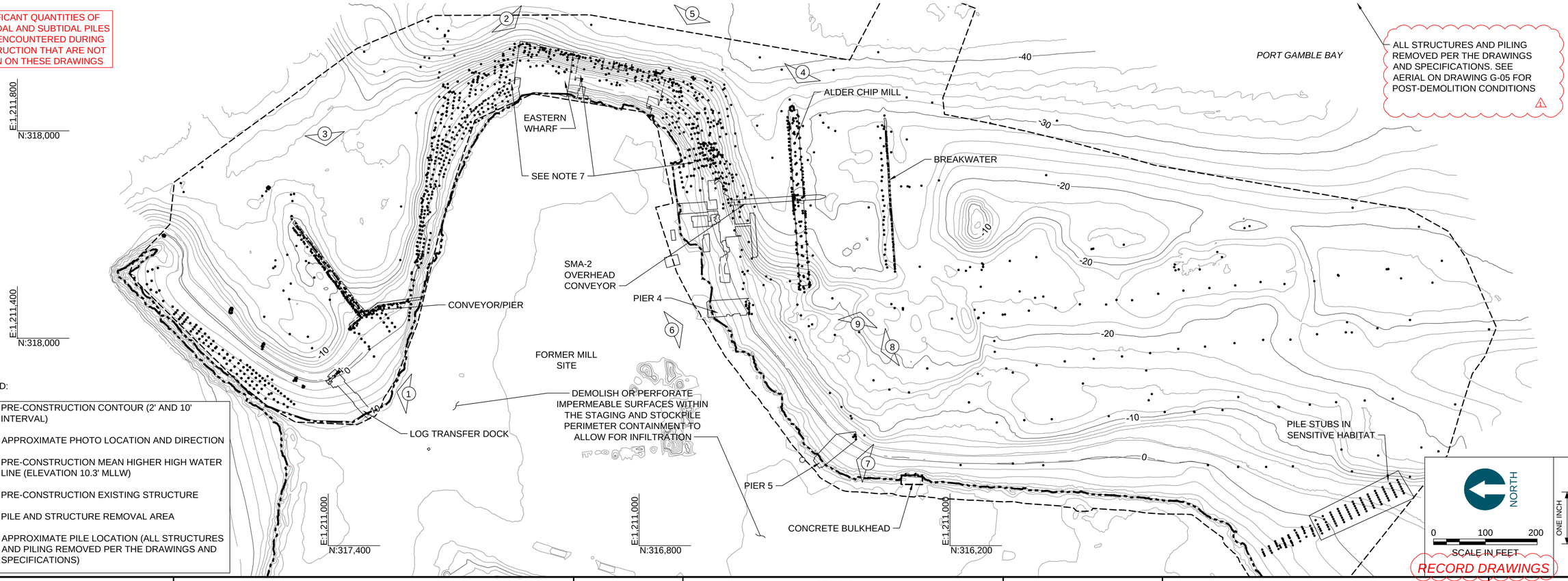
PHOTO 8: PIER 4 AND PIER 5

NOTES:

1. DEMOLISH AND DISPOSE ALL CREOSOTE DECKING, TIMBER STRUCTURES AND BULKHEADS. CONCRETE AND METAL MATERIAL MAY BE SALVAGED AND REUSED PER THE SPECIFICATIONS.
2. EXTRACT ALL CREOSOTE PILING PER THE SPECIFICATIONS OR AS APPROVED BY ECOLOGY.
3. PILE LOCATIONS ARE APPROXIMATE AND WERE DEVELOPED FROM BATHYMETRIC SURVEYS, AERIAL PHOTOGRAPHS, VISUAL OBSERVATIONS AND TEST PITS, AND PRIOR DREDGING EXPERIENCE AT THE SITE, AND MAY NOT REPRESENT THE TOTAL PILING ENCOUNTERED DURING THE CLEANUP WORK.
4. CONTAIN ALL DEBRIS DURING DEMOLITION WITH A FLOATING BOOM.
5. DO NOT CUT PILES WHILE ON THE WATER. PILES THAT NEED TO BE RE-SIZED AFTER PULLING SHALL ONLY BE CUT ON THE UPLAND PROPERTY.
6. DEMOLISH OR PERFORATE IMPERMEABLE SURFACES WITHIN THE STAGING AND STOCKPILE PERIMETER CONTAINMENT TO ALLOW FOR INFILTRATION OF INTERSTITIAL WATER FROM SEDIMENTS AND RAINFALL.
7. REMOVE SURFICIAL CONCRETE AND ASPHALT DEBRIS FROM INTERTIDAL AREAS DURING PILE DEMOLITION.
8. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
9. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

PHOTO 9: BREAKWATER

SIGNIFICANT QUANTITIES OF INTERTIDAL AND SUBTIDAL PILES WERE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THESE DRAWINGS



LEGEND:

- PRE-CONSTRUCTION CONTOUR (2' AND 10' INTERVAL)
- APPROXIMATE PHOTO LOCATION AND DIRECTION
- PRE-CONSTRUCTION MEAN HIGHER HIGH WATER LINE (ELEVATION 10.3' MLLW)
- PRE-CONSTRUCTION EXISTING STRUCTURE
- PILE AND STRUCTURE REMOVAL AREA
- APPROXIMATE PILE LOCATION (ALL STRUCTURES AND PILING REMOVED PER THE DRAWINGS AND SPECIFICATIONS)

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN P. LAPLANTE — STATE OF WASHINGTON — 36792 — REGISTERED PROFESSIONAL ENGINEER — 10/5/17

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = 100'
DATE: OCTOBER 2017

PORT GAMBLE BAY CLEANUP
RECORD DRAWINGS

DEMOLITION PLAN (1 OF 2)
STRUCTURES AND PILING

D-01

SHEET NO. 9 OF 24

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-D-01 (Demolition Plan).dwg D-01
Jan 04, 2018 9:52am chewett

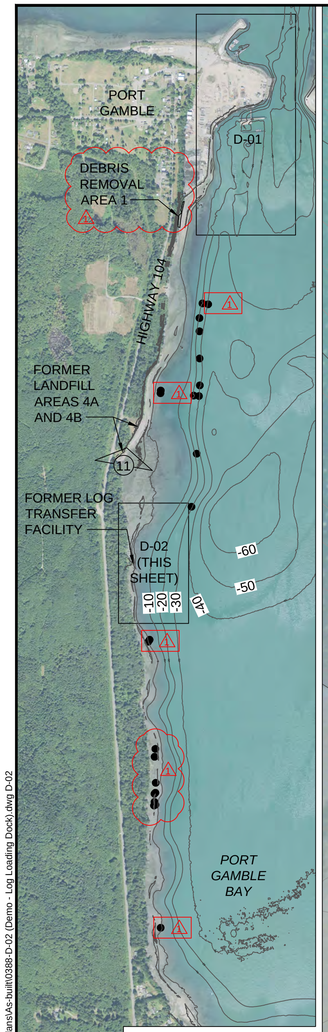


PHOTO 10: FORMER LOG TRANSFER FACILITY (FROM BING MAPS IMAGERY)

PHOTO 11: LANDFILL 4A AND 4B SURFICIAL BEACH DEBRIS

CREOSOTE PILES AND BULKHEAD

STRUCTURAL AND MISCELLANEOUS BEACH DEBRIS

-30

-20

-10

0

PORT GAMBLE BAY

10

ALL STRUCTURES, PILING, AND SURFACE DEBRIS REMOVED PER THE DRAWINGS AND SPECIFICATIONS.

E:1,210,500
N:310,000

FORMER LOG TRANSFER FACILITY

APPROXIMATE LOCATION OF SUNKEN SHIP AND DEBRIS ADJACENT TO FLTF

E:1,210,000
N:311,000

SIGNIFICANT QUANTITIES OF INTERTIDAL AND SUBTIDAL PILES WERE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THESE DRAWINGS. REVISION CLOUD AROUND PILES INDICATES ADDITIONAL PILING TARGET LOCATIONS ADDED BY DEPARTMENT OF ECOLOGY.

LEGEND:

- PILE AND STRUCTURE REMOVAL AREA
- APPROXIMATE PILE LOCATION (ALL STRUCTURES AND PILING REMOVED PER THE PLANS AND SPECIFICATIONS)
- PRE-CONSTRUCTION CONTOUR (2' AND 10' INTERVAL)

NOTES:

1. DEMOLISH AND DISPOSE ALL CREOSOTE DECKING, TIMBER STRUCTURES AND BULKHEADS. CONCRETE AND METAL MATERIAL MAY BE SALVAGED AND REUSED PER THE SPECIFICATIONS.
2. EXTRACT ALL CREOSOTE PILING PER THE SPECIFICATIONS OR AS APPROVED BY ECOLOGY.
3. PILE LOCATIONS ARE APPROXIMATE AND WERE DEVELOPED FROM BATHYMETRIC SURVEYS, AERIAL PHOTOGRAPHS, VISUAL OBSERVATIONS AND TEST PITS, AND PRIOR DREDGING EXPERIENCE AT THE SITE, AND MAY NOT REPRESENT THE TOTAL PILING ENCOUNTERED DURING THE CLEANUP WORK.
4. CONTAIN ALL DEBRIS DURING DEMOLITION WITH A FLOATING BOOM.
5. DO NOT CUT PILES WHILE ON THE WATER. PILES THAT NEED TO BE RE-SIZED AFTER PULLING SHALL ONLY BE CUT ON THE UPLAND PROPERTY.
6. REMOVE AND DISPOSE SUNKEN SHIP AND RELATED DEBRIS ADJACENT TO THE FORMER LOG TRANSFER FACILITY.
7. REMOVE AND DISPOSE ALL SURFICIAL BEACH DEBRIS, CREOSOTE TIMBER, AND PILING WITHIN FORMER LANDFILL 4A AND 4B BEACH AREAS.
8. BATHYMETRY FROM ETRAC, DATED AUGUST 27, 2014, AND ECOLOGY, DATED MARCH 2015.
9. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
10. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

NORTH
0 50 100
SCALE IN FEET

ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

RECORD DRAWINGS

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN P. LAPLANTE STATE OF WASHINGTON 19792 REGISTERED PROFESSIONAL ENGINEER 10/5/17

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = 50'
DATE: OCTOBER 2017

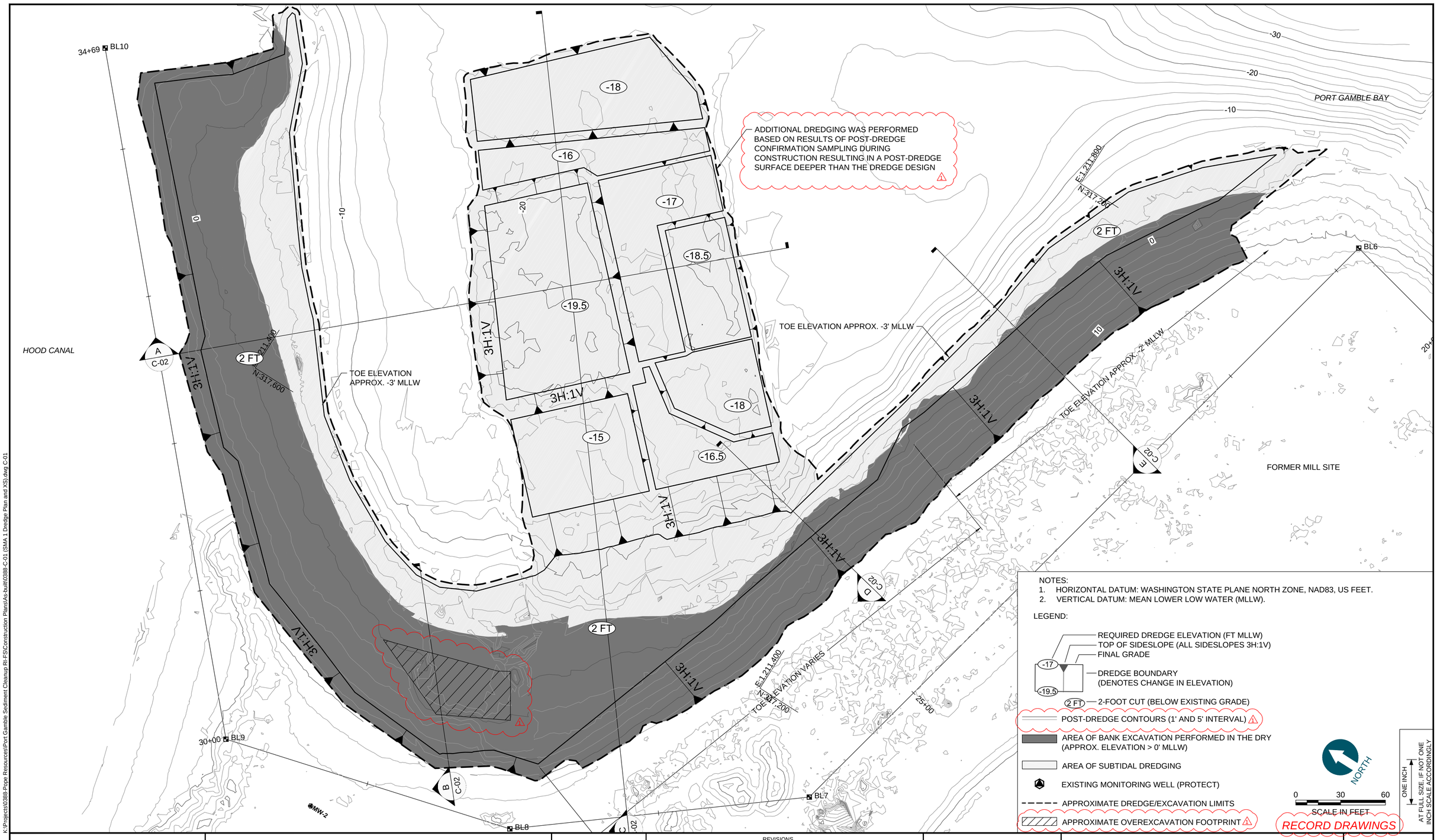
PORT GAMBLE BAY CLEANUP RECORD DRAWINGS

DEMOLITION PLAN (2 OF 2) STRUCTURES AND PILING

D-02

SHEET NO. 10 OF 24

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-D-02 (Demo - Log Loading Dock).dwg D-02
Jan 04, 2018 9:52am chewett



NOTES:
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
2. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

LEGEND:

- REQUIRED DREDGE ELEVATION (FT MLLW)
- TOP OF SIDESLOPE (ALL SIDESLOPES 3H:1V)
- FINAL GRADE
- DREDGE BOUNDARY (DENOTES CHANGE IN ELEVATION)
- 2 FT — 2-FOOT CUT (BELOW EXISTING GRADE)
- POST-DREDGE CONTOURS (1' AND 5' INTERVAL) ⚠
- AREA OF BANK EXCAVATION PERFORMED IN THE DRY (APPROX. ELEVATION > 0' MLLW)
- AREA OF SUBTIDAL DREDGING
- EXISTING MONITORING WELL (PROTECT)
- APPROXIMATE DREDGE/EXCAVATION LIMITS
- APPROXIMATE OVEREXCAVATION FOOTPRINT ⚠

NORTH

0 30 60
SCALE IN FEET

ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

RECORD DRAWINGS

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN P. LAPLANTE — STATE OF WASHINGTON — 38792 — REGISTERED PROFESSIONAL ENGINEER — 10/5/17

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = 30'
DATE: OCTOBER 2017

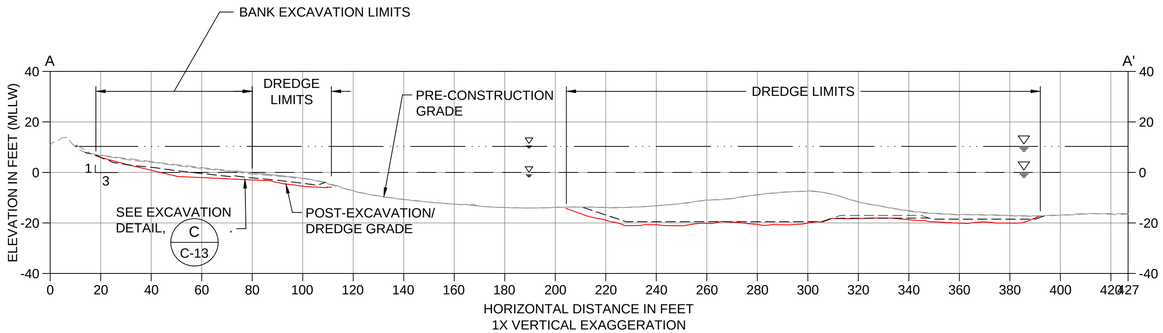
PORT GAMBLE BAY CLEANUP RECORD DRAWINGS

POST-DREDGE/EXCAVATION PLAN (SMA-1)

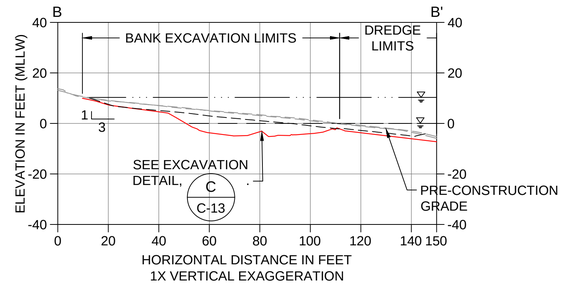
C-01

SHEET NO. 11 OF 24

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-C-01 (SMA 1 Dredge Plan and XS).dwg C-01
Jan 04, 2018 9:53am chewett



A / C-01 DREDGE/EXCAVATION SECTION
SCALE:1" = 30'



B / C-01 DREDGE/EXCAVATION SECTION
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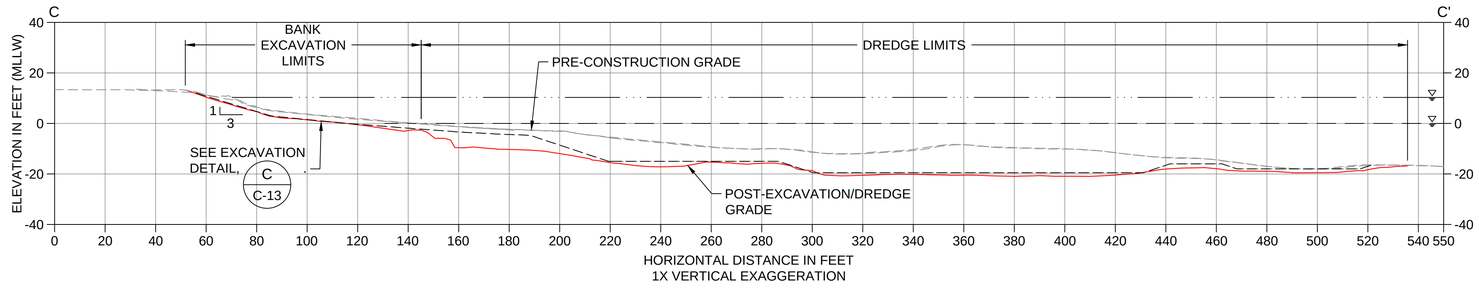

C / C-01 DREDGE/EXCAVATION SECTION
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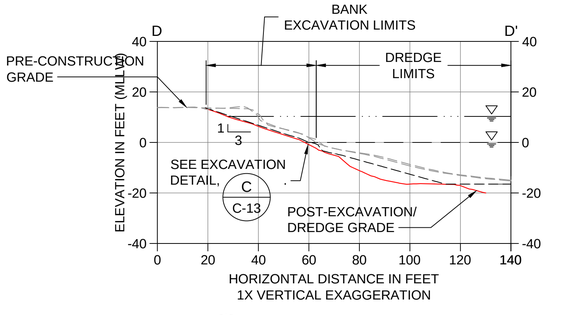
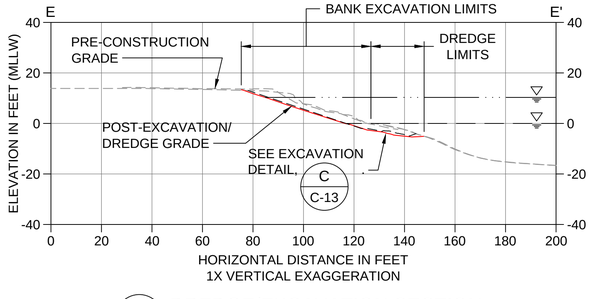
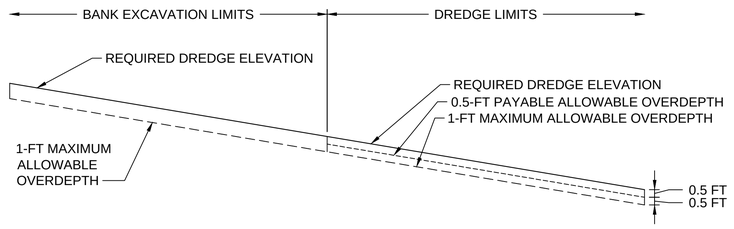


D / C-01 DREDGE/EXCAVATION SECTION
SCALE:1" = 30'



E / C-01 DREDGE/EXCAVATION SECTION
SCALE:1" = 30'



1 / - PAYABLE AND MAXIMUM ALLOWABLE OVERDEPTH DETAIL
SCALE:NTS

LEGEND:

- PRE-CONSTRUCTION GRADE
- REQUIRED DREDGE ELEVATION
- POST-EXCAVATION AND -DREDGE CONDITIONS ⚠1
- MEAN HIGHER HIGH WATER LINE (ELEVATION 10.3' MLLW)
- MEAN LOWER LOW WATER LINE (ELEVATION 0.0' MLLW)

0 30 60
SCALE IN FEET

ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

RECORD DRAWINGS

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-C-01 (SMA 1 Dredge Plan and XS).dwg C-02
Jan 04, 2018 9:53am chewett

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN C. LAPLANTE — STATE OF WASHINGTON — 18792 — REGISTERED PROFESSIONAL ENGINEER — 10/5/17

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = 30'
DATE: OCTOBER 2017

PORT GAMBLE BAY CLEANUP
RECORD DRAWINGS

POST-DREDGE/EXCAVATION CROSS SECTIONS (SMA-1)

C-02

SHEET NO. 12 OF 24

SUBSTANTIAL CHANGES WERE MADE TO THIS DRAWING INCLUDING REVISIONS TO THE EXCAVATION/DREDGE AREAS AND INCREASED REMOVAL VOLUMES COMPARED TO THE FINAL DESIGN (BID SET)

ADDITIONAL DREDGING WAS PERFORMED BASED ON RESULTS OF POST-DREDGE CONFIRMATION SAMPLING DURING CONSTRUCTION RESULTING IN A POST-DREDGE SURFACE DEEPER THAN THE DESIGN SURFACE

LEGEND:

- POST-DREDGE CONTOURS (2' AND 10' INTERVAL)
- BANK EXCAVATION AREA PERFORMED IN THE DRY (> APPROX. ELEVATION 0' MLLW)
- AREA OF SUBTIDAL DREDGING
- MONITORING WELL
- APPROX. DREDGE/EXCAVATION LIMITS
- EELGRASS BEDS
- EELGRASS BEDS TRANSPLANTED BY OTHERS

NOTES:
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
2. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

- REQUIRED DREDGE ELEVATION (FT MLLW)
- TOP OF SIDESLOPE (SLOPES VARY)
- FINAL GRADE
- DREDGE BOUNDARY (DENOTES CHANGE IN ELEVATION)
- 2-FOOT CUT BELOW EXISTING GRADE

NORTH

0 50 100
SCALE IN FEET

ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

RECORD DRAWINGS

PORT GAMBLE

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-C-03 (SMA 2 Dredge Plan and XS).dwg C-03

Jan 04, 2018 9:54am chewett

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN C. LAPLANTE — STATE OF WASHINGTON — 18792 — REGISTERED PROFESSIONAL ENGINEER — 12/5/17

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

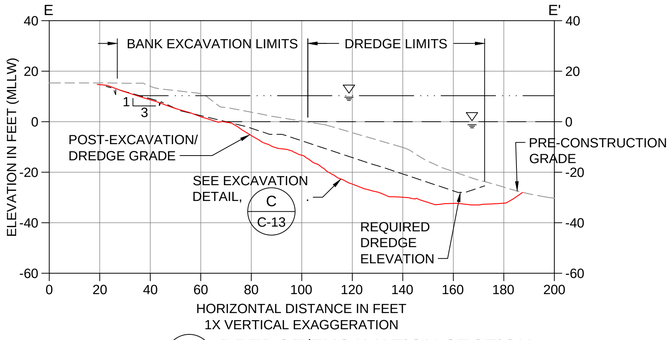
DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = 50'
DATE: OCTOBER 2017

PORT GAMBLE BAY CLEANUP RECORD DRAWINGS

POST-DREDGE/EXCAVATION PLAN (SMA-2)

C-03

SHEET NO. 13 OF 24



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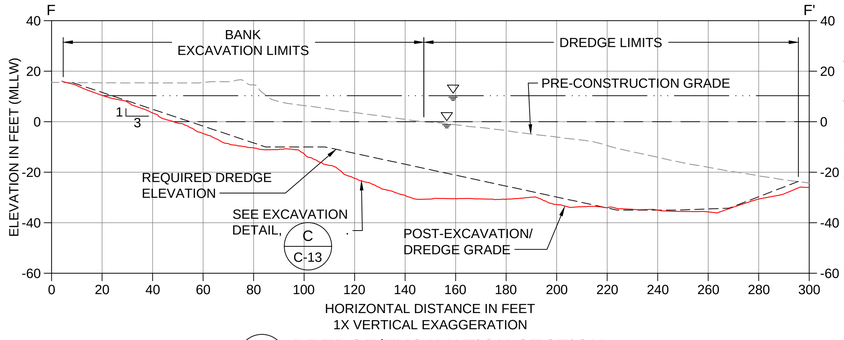
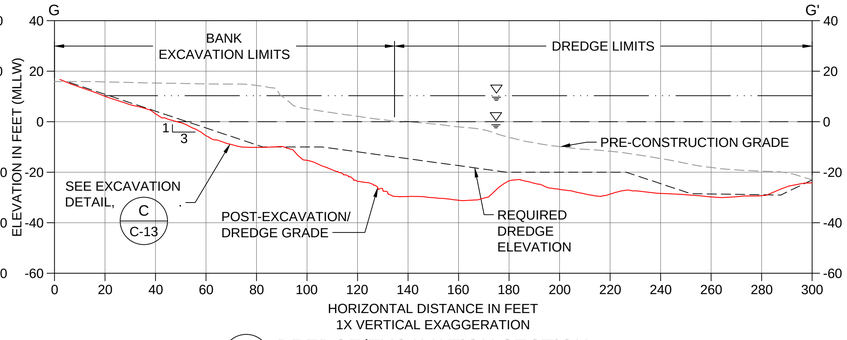
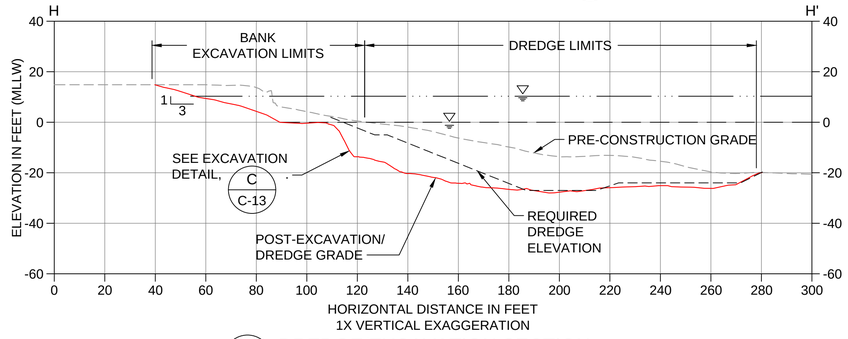


F C-03 DREDGE/EXCAVATION SECTION
SCALE:1" = 30'



G C-03 DREDGE/EXCAVATION SECTION
SCALE:1" = 30'



H C-03 DREDGE/EXCAVATION SECTION
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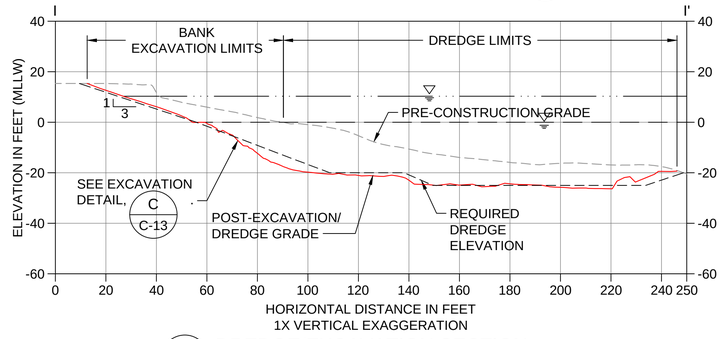

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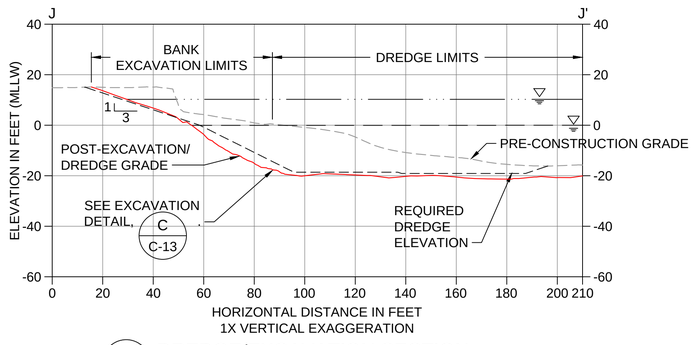
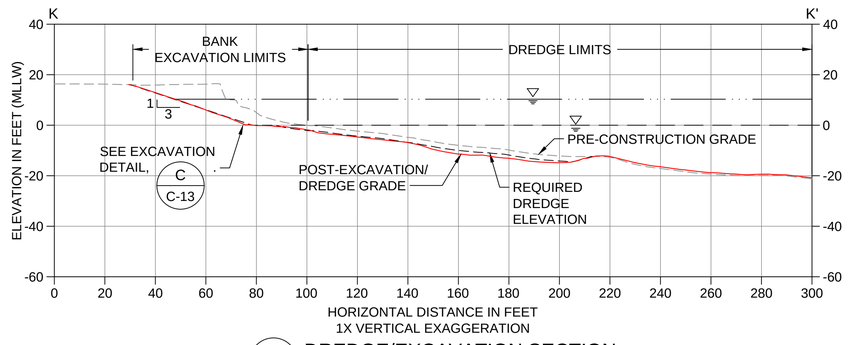


J C-03 DREDGE/EXCAVATION SECTION
SCALE:1" = 30'

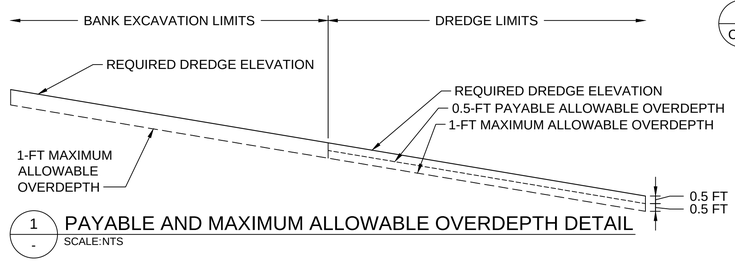


K C-03 DREDGE/EXCAVATION SECTION
SCALE:1" = 30'

SUBSTANTIAL CHANGES WERE MADE TO THIS DRAWING INCLUDING REVISIONS TO THE EXCAVATION/DREDGE AREAS AND INCREASED REMOVAL VOLUMES COMPARED TO THE FINAL DESIGN (BID SET)

LEGEND:

- PRE-CONSTRUCTION GRADE
- REQUIRED DREDGE ELEVATION
- POST-DREDGE AND -EXCAVATION CONDITIONS ⚠
- MEAN HIGHER HIGH WATER LINE (ELEVATION 10.3' MLLW)
- MEAN LOWER LOW WATER LINE (ELEVATION 0.0' MLLW)



1 - PAYABLE AND MAXIMUM ALLOWABLE OVERDEPTH DETAIL
SCALE:NTS

0 30 60
SCALE IN FEET

ONE INCH
AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

RECORD DRAWINGS

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-C-03 (SMA 2 Dredge Plan and XS).dwg C-04
Jan 04, 2018 9:54am chewett

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN C. LAPLANTE — STATE OF WASHINGTON — 38792 — REGISTERED PROFESSIONAL ENGINEER — 10/5/17

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

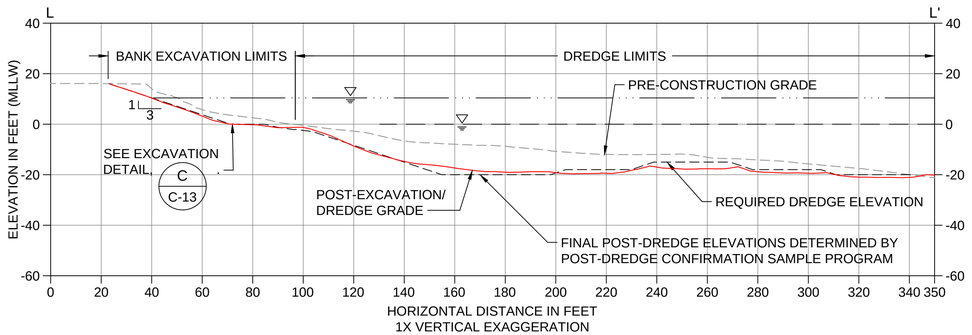
DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = 30'
DATE: OCTOBER 2017

PORT GAMBLE BAY CLEANUP
RECORD DRAWINGS

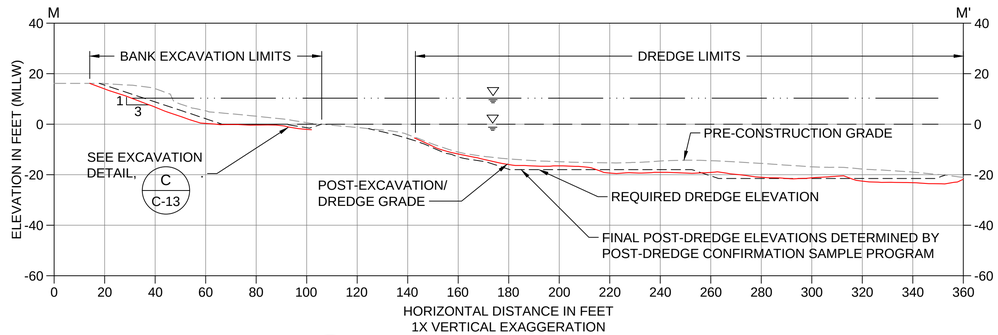
POST-DREDGE/EXCAVATION CROSS SECTIONS (SMA-2) 1 OF 2

C-04

SHEET NO. 14 OF 24



L / C-03 DREDGE/EXCAVATION SECTION
SCALE:1" = 30'



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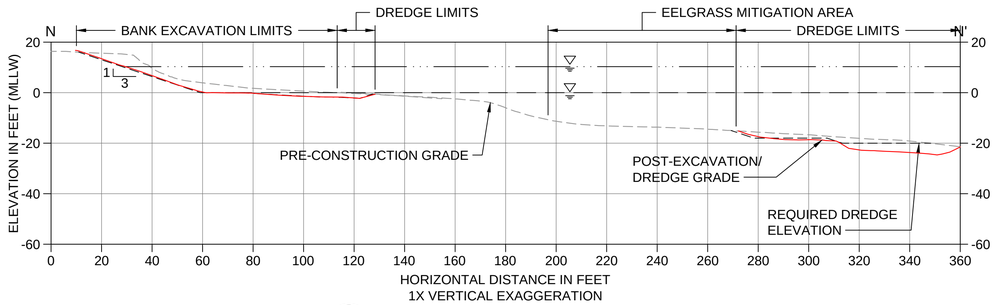

N / C-03 DREDGE/EXCAVATION SECTION
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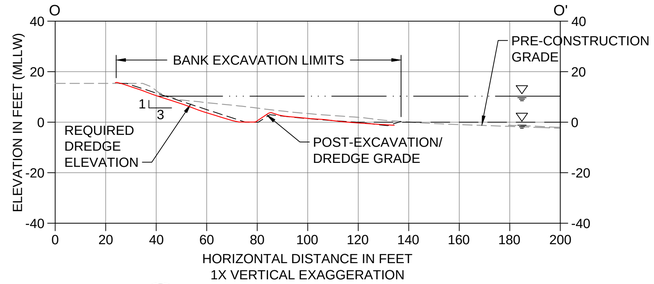
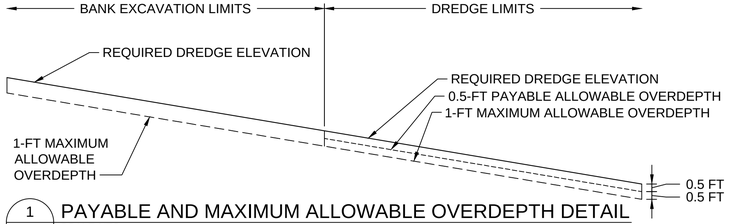


O / C-03 DREDGE/EXCAVATION SECTION
SCALE:1" = 30'

LEGEND:

- PRE-CONSTRUCTION GRADE
- REQUIRED DREDGE ELEVATION
- POST-DREDGE AND -EXCAVATION CONDITIONS ⚠1
- MEAN HIGHER HIGH WATER LINE (ELEVATION 10.3' MLLW)
- MEAN LOWER LOW WATER LINE (ELEVATION 0.0' MLLW)



1 / - PAYABLE AND MAXIMUM ALLOWABLE OVERDEPTH DETAIL
SCALE:NTS

0 30 60
SCALE IN FEET

ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

RECORD DRAWINGS

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN C. LAPLANTE — STATE OF WASHINGTON — 18792 — REGISTERED PROFESSIONAL ENGINEER — 10/5/17

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = 30'
DATE: OCTOBER 2017

PORT GAMBLE BAY CLEANUP
RECORD DRAWINGS

POST-DREDGE/EXCAVATION CROSS SECTIONS (SMA-2) 2 OF 2

C-05

SHEET NO. 15 OF 24

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-C-03 (SMA 2 Dredge Plan and XS).dwg C-05
Jan 04, 2018 9:54am chewett

PORT GAMBLE BAY

HOOD CANAL

34+69 BL10

30+00 BL9

BL8

BL7

BL6

BL5

20+00

25+00

A C-08

B C-08

C C-08

D C-08

E C-08

E:1,211,200

N:317,400

FORMER MILL SITE UPLANDS

MW-2

MW-4

MW-10R

MW-11

MW-14

-30 -20 -10 0 10 -20 -10 0 10 -20 -10 0 10 -20

SUBSTANTIAL CHANGES WERE MADE TO THIS DRAWING INCLUDING REVISIONS TO THE CAPPING AND BACKFILL AREAS AND INCREASED MATERIAL PLACEMENT VOLUMES COMPARED TO THE FINAL DESIGN (BID SET)

LEGEND

- POST-WORK CONTOURS (1' AND 5' INTERVAL)
- MONITORING WELL (PROTECT)
- INTERTIDAL CAP AREA, TYPE 1 (SEE DETAIL F ON SHEET C-17)
- INTERTIDAL CAP AREA, TYPE 2 (SEE DETAIL G ON SHEET C-17)
- INTERTIDAL CAP AREA, TYPE 3 (SEE DETAIL H ON SHEET C-17)
- ANGULAR BACKFILL AREA
- EMNR PLACEMENT AREA
- POST-DREDGE RESIDUALS COVER MANAGEMENT AREA
- SUBTIDAL CAP AREA (SEE DETAIL I ON SHEET C-17)
- EROSION AREA ARMORING
- POST-PILE REMOVAL HABITAT SUBSTRATE COVER

NOTES:
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
2. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

NORTH

0 40 80

SCALE IN FEET

ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

RECORD DRAWINGS

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-C-07 (SMA 1 Capping Plan).dwg C-07

Jan 04, 2018 9:55am chewett

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN P. LAPLANTE STATE OF WASHINGTON 19792 REGISTERED PROFESSIONAL ENGINEER 12/5/17

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = 40'
DATE: OCTOBER 2017

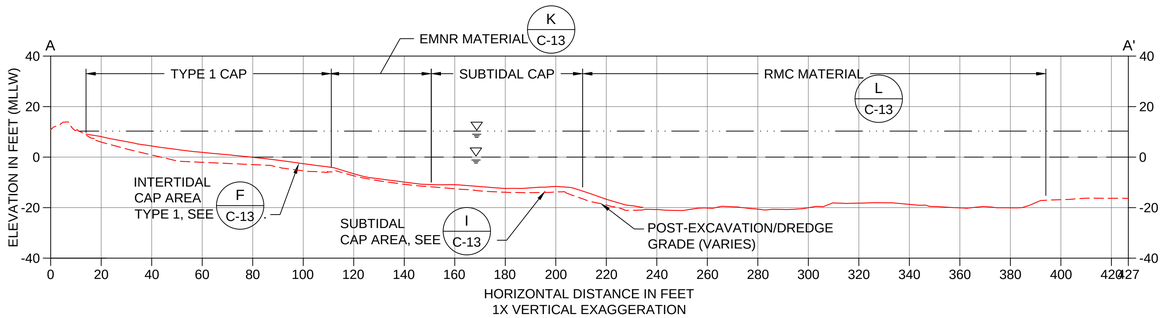
PORT GAMBLE BAY CLEANUP RECORD DRAWINGS

POST-RESIDUALS COVER AND CAPPING CONDITIONS (SMA-1)

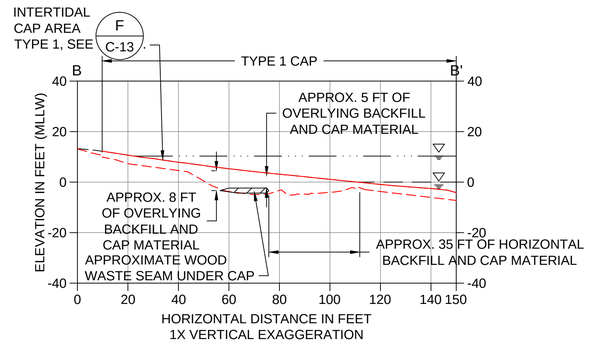
C-06

SHEET NO. 16 OF 24

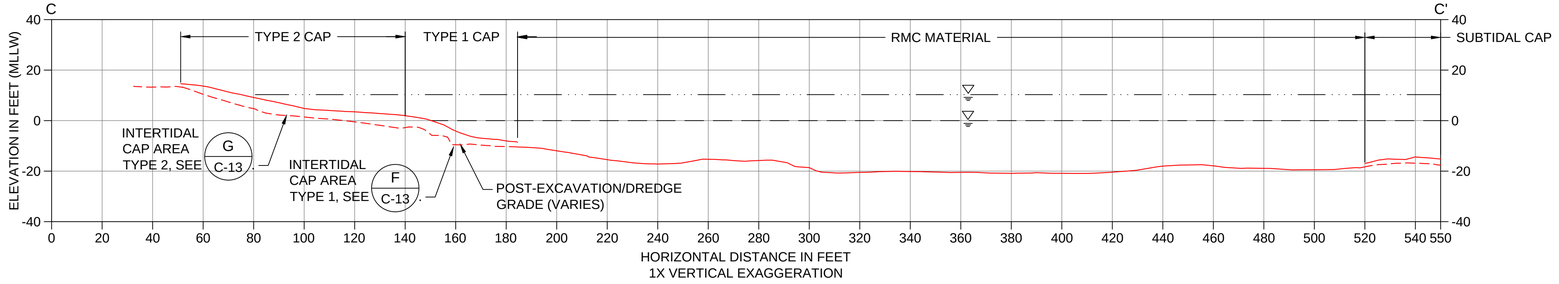
SUBSTANTIAL CHANGES WERE MADE TO THIS DRAWING INCLUDING REVISIONS TO THE CAPPING AND BACKFILL AREAS AND INCREASED MATERIAL PLACEMENT VOLUMES COMPARED TO THE FINAL DESIGN (BID SET)



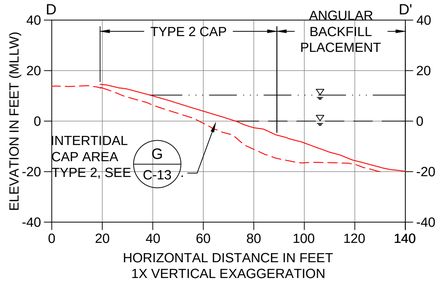
A C-07 CAPPING SECTION
SCALE:1" = 30'



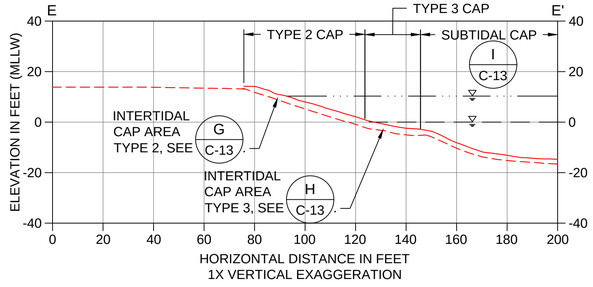
B C-07 CAPPING SECTION
SCALE:1" = 30'



C C-07 CAPPING SECTION
SCALE:1" = 30'



D C-07 CAPPING SECTION
SCALE:1" = 30'



E C-07 CAPPING SECTION
SCALE:1" = 30'

LEGEND:

1. POST-DREDGE AND -EXCAVATION AS-BUILT SURVEY
2. INTERTIDAL AND SUBTIDAL CAP/RMC AS-BUILT SURVEY
3. MEAN HIGHER HIGH WATER LINE (ELEVATION 10.3' MLLW)
4. MEAN LOWER LOW WATER LINE (ELEVATION 0.0' MLLW)

0 30 60
SCALE IN FEET

ONE INCH
AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

RECORD DRAWINGS

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RI-FS\Construction Plans\As-built\0388-C-07 (SMA 1 Capping Plan).dwg C-08
Jan 04, 2018 9:55am chewett

ANCHOR QEA

POPE RESOURCES LP / OPG PROPERTIES LLC

JOHN P. LAPLANTE — STATE OF WASHINGTON — 36792 — REGISTERED PROFESSIONAL ENGINEER — 10/5/17

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	11/6/2017	CH	JL	RECORD DRAWINGS

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = 30'
DATE: OCTOBER 2017

PORT GAMBLE BAY CLEANUP RECORD DRAWINGS

POST-RESIDUALS COVER AND CAPPING CROSS SECTIONS (SMA-1)

C-07

SHEET NO. 17 OF 24