NOTES:

1. VERTICAL ELEVATIONS ARE SHOWN IN FEET RELATIVE TO COLUMBIA RIVER DATUM (CRD).
2. THE BATHYMETRIC SURFACE WAS CREATED BASED ON DATA FROM A MULTIBEAM HYDROGRAPHIC SURVEY CONDUCTED BY SOLMAR HYDRO, INC., NOVEMBER 12, 2019.
3. TARGET DREDGE ELEVATION -40 FEET CRD WITHIN DREDGE MATERIAL MANAGEMENT UNITS (DMMUS).
4. ESTIMATED ANGLE OF REPOSE OF 2H:1V FOR SHORELINE FACING PERIMETER.
5. ESTIMATED ANGLE OF REPOSE OF 3H:1V FOR RIVER FACING PERIMETER.
6. MINIMUM TARGET REMOVAL THICKNESS OF 6 INCHES.
7. TOTAL DREDGE VOLUME TO TARGET ELEVATION OF -40 FEET CRD APPROXIMATELY 10,825 CUBIC YARDS.
8. TOTAL DREDGE VOLUME FOR MAXIMUM PERMITTED ELEVATION OF -42 FEET CRD APPROXIMATELY 19,540 CUBIC YARDS.

LEGAL

-45
NWP-2012-302-4
NWP-2012-302-4

50% DESIGN PACKAGE
PERMIT DRAWINGS NOT ISSUED FOR CONSTRUCTION

TERMINAL FACILITY

DREDGE PLAN

PORTLAND IN-RIVER DREDGING

SHORE TERMINALS P2 DOCK
NOTES:
1. VERTICAL ELEVATIONS ARE SHOWN IN FEET RELATIVE TO COLUMBIA RIVER DATUM (CRD).
2. THE BATHYMETRIC SURFACE WAS CREATED BASED ON DATA FROM A MULTIBEAM HYDROGRAPHIC SURVEY CONDUCTED BY SOLMAR HYDRO, INC., NOVEMBER 12, 2019.
3. TARGET DREDGE ELEVATION -40 FEET CRD WITHIN DREDGE MATERIAL MANAGEMENT UNITS (DMMUs).
4. ESTIMATED ANGLE OF REPOSE OF 2H:1V FOR SHORELINE FACING PERIMETER.
5. ESTIMATED ANGLE OF REPOSE OF 3H:1V FOR RIVER FACING PERIMETER.
6. MINIMUM TARGET REMOVAL THICKNESS OF 6 INCHES.
NOTES:
1. VERTICAL ELEVATIONS ARE SHOWN IN FEET RELATIVE TO COLUMBIA RIVER DATUM (CRD).
2. THE BATHYMETRIC SURFACE WAS CREATED BASED ON DATA FROM A MULTIBEAM HYDROGRAPHIC SURVEY CONDUCTED BY SOLMAR HYDRO, INC., NOVEMBER 12, 2019.
3. TARGET DREDGE ELEVATION -40 FEET CRD WITHIN DREDGE MATERIAL MANAGEMENT UNITS (DMMUs).
4. ESTIMATED ANGLE OF REPOSE OF 2H:1V FOR SHORELINE FACING PERIMETER.
5. ESTIMATED ANGLE OF REPOSE OF 3H:1V FOR RIVER FACING PERIMETER.
6. MINIMUM TARGET REMOVAL THICKNESS 6 INCHES.
7. SECTION LOCATIONS ARE SHOWN ON PLAN VIEW IN DRAWING 4.

LIMITS OF DMMU 1
EXISTING SURFACE
MAXIMUM PERMITTED ELEVATION (EL. -42.0)
TARGET REMOVAL (EL. -40.0)

LIMITS OF DMMU 2/3
EXISTING SURFACE
MAXIMUM PERMITTED ELEVATION (EL. -42.0)
TARGET REMOVAL (EL. -40.0)

LIMITS OF DMMU 4/5
EXISTING SURFACE
MAXIMUM PERMITTED ELEVATION (EL. -42.0)
TARGET REMOVAL (EL. -40.0)

LIMITS OF DMMU 6/7
EXISTING SURFACE
MAXIMUM PERMITTED ELEVATION (EL. -42.0)
TARGET REMOVAL (EL. -40.0)

DMMU LIMIT (EL. -38.0)
NOTES:
1. VERTICAL ELEVATIONS ARE SHOWN IN FEET RELATIVE TO COLUMBIA RIVER DATUM (CRD).
2. THE BATHYMETRIC SURFACE WAS CREATED BASED ON DATA FROM A MULTIBEAM HYDROGRAPHIC SURVEY CONDUCTED BY SOLMAR HYDRO, INC., NOVEMBER 12, 2019. GEOSYNTEC RECEIVED THE SURVEY DATA IN MAP FORMAT FROM SHORE TERMINALS LLP. WHICH WAS DIGITIZED INTO XYZ BATHYMETRIC DATA AND CONVERTED TO A DIGITAL TERRAIN MODEL IN AUTOCAD CIVIL 3D TO REPRESENT THE BATHYMETRIC SURFACE, WHICH WILL BE PROVIDED TO THE CONTRACTOR.
3. 2018 SURFACE AND CORE SAMPLE LOCATIONS OBTAINED FROM PRE-REMEDIAL DESIGN INVESTIGATION.
NOTES:
1. VERTICAL ELEVATIONS ARE SHOWN IN FEET RELATIVE TO COLUMBIA RIVER DATUM (CRD).
2. THE BATHYMETRIC SURFACE WAS CREATED BASED ON DATA FROM A MULTIBEAM HYDROGRAPHIC SURVEY CONDUCTED BY SOLMAR HYDRO, INC., NOVEMBER 12, 2019. GEOSYNTEC RECEIVED THE SURVEY DATA IN MAP FORMAT FROM SHORE TERMINALS LLP. WHICH WAS DIGITIZED INTO XYZ BATHYMETRIC DATA AND CONVERTED TO A DIGITAL TERRAIN MODEL IN AUTOCAD CIVIL 3D TO REPRESENT THE BATHYMETRIC SURFACE, WHICH WILL BE PROVIDED TO THE CONTRACTOR.
3. WATER QUALITY MONITORING POINT LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS ARE SUBJECT TO CHANGE AND WILL BASED ON THE 401 WATER QUALITY CERTIFICATE ISSUED BY THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY.

WATER QUALITY MONITORING PLAN

PERMIT DRAWINGS - NOT ISSUED FOR CONSTRUCTION