Summary of Plan Revisions (April 8, 2015):

Amesbury Phase IV Remedy Implementation

Amendment to Order of Conditions – Revised Permit Drawing Set

Water Street, Amesbury, Massachusetts

Description of plan revisions to the September 2014 plan set with associated area and volume calculations.

Updates:

Figure 1 – Cover Sheet	No Change except the date
Figure 2 – Existing Conditions Plan	Revised Note 1 – includes GEI drawing set on base plan reference.
Figure 3 – Access and Materials Layout Plan	• Revised Note 1 – includes GEI drawing set on base plan reference. • This drawing also depicts the reduced Area of Total Disturbance resulting from removing the sheeting from the island in the southern part of the site, where existing grade is above El 8.5. Area of Total Project Disturbance is reduced by approximately 3,048 square feet (SF).
Figure 4 – Site Preparation and Erosion Control Plan	• Addition of temporary haul road (20ft wide crest, minimum elevation: EL 8.5) to provide additional flood protection to excavation area and allow for vehicle traffic during excavation and backfilling operations. Road comprised of approximately 480CY of granular compacted fill over filter fabric, and covering an area of approximately 5,700 SF. All materials to be removed at completion of project. • If dewatering flows are to be collected, treated, and discharged, then addition of temporary earthen berm (5ft wide crest, crest elevation: EL 8.5) to be installed. If dewatering flows are to be collected and disposed of off-site, then temporary earthen berm will not be installed. Temporary earthen berm replaces the "inner sheeting" and is comprised of approximately 160 CY of granular compacted fill over filter fabric and covering an area of approximately 1,700 SF. Note 5 and Detail 5 have been added to address temporary earthen berm. • Sheet pile alignment and top elevation modifications: ○ Tying sheeting to existing grade at or below El 8.5, removed section in southern area where existing grade is above El 8.5. • Additional and realigned erosion control :

	○ Added "fortified" erosion controls outside sheeting alignment to protect site during sheet pile installation. Added Detail 6 depicting the fortified erosion controls. ○ Modified erosion control alignment in the southern area around the island to account for new sheetpile alignment. ○ Added erosion controls between upland and wetlands area to provide an additional level of protection within the work area as the installation of the loading and temporary stockpile area will be performed prior to the work within the wetland area. ○ Added erosion controls south of earthen berm. • Revised Note 1 – includes GEI drawing set on base plan reference.
Figure 5 – Excavation and Dredging Plan	• Addition of temporary haul road and temporary earthen berm (see comments for Figure 4). • Revised sheeting and erosion controls alignment (see comments for Figure 4). • Revised sheetpile elevation to 8.5 feet. • Revised Note 1 – includes GEI drawing set on base plan reference. • Addition of Notes 4 and 5 – describes that excavations will be backfilled, and covered with erosion control blankets immediately, and that the sheeting will not be pulled until erosion control blankets are installed to the extent practical. Note 5 describes that areas adjacent to the sheeting (within 20 +/- feet of the sheeting) will require the erosion control blankets to be installed in sections coinciding with sheeting getting removed. CONCEPT is that excavation will be performed in relatively "small" sections while backfilling and installing blanket to minimize potential erosion and sedimentation. Once the blankets are in-place, the sheeting will be removed while leaving the perimeter erosion controls in-place for protection prior to planting and plant establishment.
Figure 6 – Dredging and Dewatering Details	• Addition of temporary earthen berm to be installed in the event treatment and discharge of dewatering flow is required. • Revised sheeting alignment. • Revised sheeting top elevation to El 8.5. • Added Note 1 – discharge area will only be prepared if water is treated and discharged and not transported and disposed off-site.
Figure 7 – Finish Grading and Drainage Plan	No Change except the date

Figure 8 – Planting Plan	Upland Restoration Area reduced by approximately 3,048 SF in area of "island" in south part of site because of corresponding reduction in Total Area of Disturbance
Figure 9 – Planting Plan Details	• Modifications to Note 9 – calling out sequencing for excavation, backfilling, and erosion control blanket installation, removal of sheeting and planting work tying in to Figure 5 – Excavation and Dredging Plan. • Revision to Upland Restoration Area as described above.
Figure 10 – Restoration Details	No Change except the date

Areas and Volumes:

Description:	*Approximate Quantity:*
Total Area of Project Disturbance:	72,528 square feet
Reduction in Total Area of Project Disturbance as compared to Sep.2014 version:	3,048 square feet (reduction)
Reduction of impact to Bordering Land Subject to Flooding (BLSF) as compared to Sep. 2014 version:	2,332 square feet (reduction)
Reduction to Riverfront Area Impact as compared to Sep. 2014 version:	3,048 square feet (reduction)
Reduction in Upland Area Restoration as compared to Sep.2014 version:	3,048 square feet (reduction)
Permanent Excavation / dredging / backfill:	Unchanged from Sep. 2014 version
Temporary Haul Road – Area:	5,700 square feet
Temporary Haul Road – Volume:	480 Cubic Yards
Temporary Earthen Berm – Area:	1,700 square feet
Temporary Earthen Berm – Volume:	160 Cubic Yards
Total Area – Temporary Haul Road + Earthen Berm	7,400 square feet
Total Volume – Temporary Haul Road + Earthen Berm	640 Cubic Yards