

(E.G. FOAM, WATER SPRAY); AND CONTAINMENT OF EXCAVATED SEDIMENT/SOILS.

FOLLOWING THE INSTALLATION OF EROSION CONTROL STRUCTURES, CLEARING AND GRUBBING WILL BE PERFORMED ON THE DENSELY VEGETATED PARTS OF THE MIDDLE MARSH OPERABLE UNIT OF ONLY THOSE AREAS NECESSARY FOR IMPLEMENTATION AND CONSTRUCTION OF THE SELECTED REMEDY. CLEARED DEBRIS SUCH AS TREES AND SHRUBS WILL BE DISPOSED OF ON-SITE OR OFF-SITE AFTER INITIAL PROCESSING (E.G. CHIPPING). EPA ANTICIPATES THAT DECONTAMINATION OF SUCH DEBRIS WILL NOT BE REQUIRED. IN ORDER TO MINIMIZE THE POSSIBILITY OF RESIDUAL CONTAMINATION OF DEBRIS, SPECIAL PRECAUTIONS WILL BE TAKEN DURING CLEARING AND GRUBBING ACTIVITIES SUCH AS TEMPORARY COVERING OF CONTAMINATED SEDIMENT/SOILS. STUMPS AND OTHER CONTAMINATED MATERIALS SHALL BE SHREDDED AND/OR DISPOSED OF WITH THE CONTAMINATED SEDIMENT/SOIL. ANY RUBBLE UNEARTHED FROM FILL MATERIAL DURING SITE PREPARATION WORK, OR SURFACE OBSTRUCTIONS (E.G. CINDER BLOCK, METAL SCRAP) SHALL BE DECONTAMINATED PRIOR TO OFF-SITE DISPOSAL IN AN APPROVED FACILITY. AFTER AREAS HAVE BEEN CLEARED, GRADING WILL BE PERFORMED TO PROVIDE A LEVEL SURFACE FOR THE OPERATIONAL AREAS.

A CONCRETE PAD FOR STOCKPILING AND DEWATERING WILL BE CONSTRUCTED AS THE FINAL STEP TO PREPARE FOR CONSTRUCTION OF THE SEDIMENT/SOIL TREATMENT FACILITY.

B. EXCAVATION

FOUR AREAS WITHIN THE NEW BEDFORD MUNICIPAL GOLF COURSE PROPERTY SHALL BE EXCAVATED. AREAS 1, 2, AND 3 ARE LOCATED WITHIN MIDDLE MARSH, WHEREAS AREA 4 IS LOCATED SOUTHEAST OF MIDDLE MARSH IN THE ADJACENT WETLAND (SEE FIGURE 9). THE APPROXIMATE SURFACE AREAS OF AREAS 1, 2, 3 AND 4 ARE 0.4, 1.0, 0.1, AND 0.4 ACRES, RESPECTIVELY. OF THE 1.9 ACRES TO BE REMEDIATED, APPROXIMATELY 0.75 ACRES ARE FORESTED WETLAND.

AREAS 1, 2, 3 AND 4, AS DELINEATED IN FIGURE 9, SHALL BE EXCAVATED BY CONVENTIONAL MECHANICAL MEANS TO AN INITIAL DEPTH OF ONE AND ONE-HALF FEET TO REMOVE SEDIMENT/SOILS WITH PCBs IN EXCESS OF THE CLEANUP LEVELS OUTLINED IN SECTION X.A. A TOTAL OF APPROXIMATELY 5,200 CUBIC YARDS OF CONTAMINATED SEDIMENT/SOILS SHALL BE EXCAVATED. ADDITIONAL SEDIMENT EXCAVATION SHALL BE CONDUCTED AS NECESSARY TO REMOVE ALL CONTAMINATED SEDIMENT/SOILS WITH PCB CONCENTRATIONS EXCEEDING SEDIMENT/SOIL CLEANUP LEVELS.

A COMBINATION OF CONVENTIONAL MECHANICAL MEANS SHALL BE UTILIZED INCLUDING THE FOLLOWING: CRAWLER-MOUNTED DRAGLINE; BACKHOE; FRONT-END LOADER; BOBCAT; HAND SHOVELS; AND OTHER SMALL LIGHTWEIGHT EXCAVATORS. HOWEVER, DUE TO THE LIMITED SIZE OF AREA 3 (APPROXIMATELY 5,600 SQUARE FEET), A DRAGLINE SHALL NOT BE USED FOR THIS AREA. ALTERNATIVELY, ALTHOUGH MORE LABOR INTENSIVE, A COMBINATION OF LIGHT EXCAVATORS SUCH AS BOBCATS AND HAND SHOVELS SHALL BE USED TO EXCAVATE AREA 3 WHILE MINIMIZING TREE REMOVAL AND FILL PLACEMENT. EXCAVATED MATERIAL FROM AREA 3 SHALL BE REMOVED BY WHEEL BARROWS OR BY CONVEYOR BELTS.

TO IMPLEMENT THIS COMPONENT, A PROCESSING AREA WILL BE SET UP AT THE MIDDLE MARSH OPERABLE UNIT PRIOR TO SOIL EXCAVATION. THE PROCESSING AREA WILL BE CONSTRUCTED SO AS TO PREVENT, TO THE EXTENT POSSIBLE, ANY MIGRATION OF THE EXCAVATED SOILS.

AS DESCRIBED IN COMPONENT A OF THE SELECTED REMEDY, MEASURES WILL BE IMPLEMENTED TO LIMIT POTENTIAL AIR EMISSIONS FROM EXCAVATION, TREATMENT AND ANCILLARY ACTIVITIES. AN AIR MONITORING PROGRAM SHALL BE IMPLEMENTED DURING THE PERFORMANCE OF THE ON-SITE SEDIMENT/SOIL EXCAVATION AND TREATMENT COMPONENTS OF THE REMEDY TO DETERMINE RISKS TO ON-SITE WORKERS, GOLFERS AND NEARBY RESIDENTS. AIR SAMPLING STATIONS WILL BE LOCATED AT REPRESENTATIVE POINTS THROUGHOUT THE GOLF COURSE AND AT THE PERIMETER OF THE WORK ZONE FOR THE MIDDLE MARSH OPERABLE UNIT. SAMPLES WILL BE ANALYZED, AT A MINIMUM, FOR PCBs IN VAPOR PHASE AND PCB PARTICULATES.

EPA ANTICIPATES THAT SOME AMOUNT OF ON-SITE WETLAND AREAS WILL BE IMPACTED BY SEDIMENT/SOIL EXCAVATION. FOR THOSE AREAS, STEPS WILL BE TAKEN AS DESCRIBED IN COMPONENT D OF THE SELECTED REMEDY, TO MINIMIZE POTENTIAL DESTRUCTION OR LOSS OF WETLANDS OR ADVERSE IMPACTS TO ORGANISMS.

UPON COMPLETION OF THE INITIAL EXCAVATION OF ON-SITE CONTAMINATED SEDIMENT/SOILS, SAMPLES WILL BE COLLECTED AND CONTAMINANT LEVELS WILL BE EVALUATED AGAINST THE CLEANUP LEVELS FOR SEDIMENT/SOILS (SEE SECTION X.A.L). SEDIMENT SAMPLES WILL BE ANALYZED, AT A MINIMUM, FOR PCBs AND TOC. ALL SAMPLES WILL BE EVALUATED TO ENSURE THAT RESPONSE OBJECTIVES AND PERFORMANCE STANDARDS ARE ACHIEVED. BASED ON THE SAMPLING RESULTS, ADDITIONAL EXCAVATION AT ONE FOOT DEPTH INTERVALS WILL BE PERFORMED IN ANY AREA WHERE SEDIMENT CONTAMINANT LEVELS ARE GREATER THAN THE RESPECTIVE SEDIMENT/SOIL CLEANUP LEVEL.

APPROPRIATE PRETREATMENT AND MATERIALS HANDLING (BLENDING), SUCH AS FEED SIZE PREPARATION AND OPTIMUM SEDIMENT/SOIL FEED CRITERIA WILL BE EVALUATED DURING REMEDIAL DESIGN FOR THE EXCAVATION PHASE OF THE SELECTED REMEDY.

EXCAVATION ACTIVITIES SHALL BE SCHEDULED SO THAT DISTURBANCES TO MASSACHUSETTS SPECIES OF SPECIAL CONCERN ARE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE. EPA WILL EVALUATE THE FOLLOWING FACTORS IN DETERMINING PRACTICABILITY: PUBLIC ACCESS, WEATHER CONDITIONS, STREAM FLOW, SCHEDULING CONSTRAINTS.

**EPA Superfund
Record of Decision:**

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