ATTACHMENT E

POST CONSTRUCTION BATHYMETRY
POST CONSTRUCTION BATHYMETRY

Following placement of the final habitat/erosion protection layer in an area, achievement of the specified habitat elevation objectives was demonstrated as part of the construction Quality Assurance/Quality Control (QA/QC) program by surveying the cap surface. Survey data were used to verify that target elevations and the horizontal limits and extents of capping required by the design were achieved for each Cap Management Unit (CMU). For areas with sufficient water depth, single-beam dual-frequency bathymetric survey data were collected along track lines spaced 15 ft. apart. If the survey area was sloped, the track lines were oriented perpendicular to the slope. Manual pole survey measurements were used in areas of shallow water depth that could not be accessed by the single-beam survey vessel. Surveying methods were consistent with those specified in the Construction Quality Assurance Plan (Anchor QEA and Parsons, 2012).

Post-construction cap surface bathymetry for each remediation area is provided in Figures 1 through 6. Figures 7 through 12 include CMU boundaries and final bathymetric survey dates for each. These comprehensive baseline maps were generated using CMU approval survey data collected following the construction of each individual CMU, as discussed above. This was done by compiling all the CMU bathymetry data into a small number of manageable data files, which were then imported into geographic information system (GIS). Once in GIS, the data were clipped based on the CMU boundaries. Clipping the data set to their respective CMU boundaries ensured that there was no data overlap and that the data being used to represent each individual CMU were the data collected at the time of completion and approval for each individual CMU.

REFERENCES

Notes:
Elevation Based On Compilation Of Individual Cap Management Unit Final Post-Capping Bathymetric Surveys Completed As Part Of Construction QA/QC Verification.
Notes:
Elevation Based On Compilation Of Individual
Cap Management Unit Final Post-Capping
Bathymetric Surveys Completed As Part Of
Construction QA/QC Verification.

Vertical Datum: North American Vertical Datum of 1988
(NAVD88), U.S. Survey Feet.

Horizontal Datum: New York State Plane, Central Zone,

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5 ft Contours
1 ft Contours
Pre-Remediation Shoreline (Elev. 362.5)
Notes:
Elevation Based On Compilation Of Individual Cap Management Unit Final Post-Capping Bathymetric Surveys Completed As Part Of Construction QA/QC Verification.


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5 ft Contours
1 ft Contours
Pre-Remediation Shoreline (Elev. 362.5)
Notes:
Elevation Based On Compilation Of Individual Cap Management Unit Final Post-Capping Bathymetric Surveys Completed As Part Of Construction QA/QC Verification.


5 ft Contours
1 ft Contours
Pre-Remediation Shoreline (Elev. 362.5)
Notes:
Elevation Based On Compilation Of Individual Cap Management Unit Final Post-Capping Bathymetric Surveys Completed As Part Of Construction QA/QC Verification.


Pre-Remediation Shoreline (Elev. 362.5)
5 ft Contours
1 ft Contours
Elevation Based On Compilation Of Individual Cap Management Unit Final Post-Capping Bathymetric Surveys Completed As Part Of Construction QA/QC Verification.


Notes:

FIGURE 6
RA-F Post-Capping Final Bathymetry

Honeywell

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Pre-Remediation Shoreline (Elev. 362.5)