Memorandum

To: *Stephanie Vaughn, EPA Region 2*
Elizabeth Franklin, USACE

From: *David A. Marabello and Scott Kirchner, CDM Smith*

Date: *June 16, 2015*

Subject: *Summary of Field Oversight*
River Mile 10.9 Post-Construction Monitoring Bathymetry Survey, June 8-9, 2015
Lower Passaic River Restoration Project

On behalf of the United States Environmental Protection Agency (EPA) and the United States Army Corps of Engineers (USACE), Kansas City District, CDM Federal Programs Corporation (CDM Smith) traveled to the River Mile (RM) 10.9 site on June 8, 2015 and provided oversight of the June 8 and 9, 2015 post-construction monitoring bathymetry survey performed by the Cooperating Parties Group (CPG). This field activity is in preparation of developing the post-construction baseline survey for the RM 10.9 sediment cap. This performance monitoring will document the evaluation of the cap surface at approximately 1 year after completion of the cap construction to establish a baseline for future surveys.

CDM Smith oversaw a single beam bathymetry survey conducted for the 4.3-acre RM 10.9 cap, located approximately between RM 10.75 and RM 11.13, including the No Dredge/Cap (Utility) Area. All activities were conducted in accordance with the CPG's *Quality Assurance Project Plan, River Mile 10.9 Post-Construction Monitoring, Appendix A – Bathymetry Survey, June 2015*.

Photographs of field activities are provided in Attachment 1, and copies of logbook notes are provided in Attachment 2.

<u>Personnel in Attendance</u>
June 8, 2015
Meredith Passaro – CDM Smith
John Rolfe – de maximis, inc. (DMI)
Matt Joyce – Gahagan & Bryant Associates, Inc. (GBA)

June 9, 2015
Meredith Passaro – CDM Smith
Lindsay Otts – DMI

620419

General Summary

Oversight consisted of observing field activities related to the task identified above. Field activities were conducted by CPG subcontractor GBA, and CPG oversight was provided by DMI. Meredith Passaro of CDM Smith provided oversight for EPA.

All survey work was conducted within the river; no land work was necessary for this field effort. The CPG field crew completed the single beam bathymetry survey to the extents described above. The bathymetry survey was conducted in order to document the cap surface 1 year after the construction of the cap was completed.

In addition to the extents described above, the survey extended approximately 100 feet from the edge of the cap into the river channel and was conducted within ±2 hours of high tide each day to ensure that the survey lines were as close to the high water line as possible and to maintain the safe navigation of the survey vessel. Single beam cross sections were taken at 25-foot intervals, perpendicular to the channel centerline, and with three tie lines running parallel to the shore.

The bathymetry survey data will need to be compared to prior surveys to evaluate the changes that have occurred in the cap surface over the last year before establishing the post-construction baseline survey.

Attachment 1
Photographs of Field Activities

Photo 1 – Bathymetry Survey
(6/8/2015)

Photo 2 – Bathymetry Survey
(6/9/2015)

Attachment 2
Logbook Notes

Location E. RUTHERFORD, NJ Date 06/08/15

Project / Client LPR RM 10.9 ~~SURVE~~ MR BATHY SURVEY

CLIENT: USEPA NOTES BY: M. PASSARO

WEATHER: PARTLY CLOUDY, 80°F

TIDE: HIGH TIDE 1:58 PM

9:00 M. PASSARO ONSITE.

1000 J. ROLFE OF DE MAXIMIS ONSITE

1200 BATHY SURVEY HAS NOT STARTED.

1250 M. JOYCE FROM GBA IS ONSITE TO CONFIRM THE BOAT WAS LAUNCHED TO BEGIN THE SURVEY.

- SPOKE WITH ~~MATTE~~ MATT WHO SAID TIDE ELEVATIONS ARE TIME-STAMPED INTO THE DATA AND THIS SHOULD BE RECORDED.

1320 SURVEY BOAT IS HAVING TECHNICAL ISSUES AND HAS GONE BACK TO DOCK TO ADDRESS.

1310 SURVEY BOAT IS FIXED AND CONDUCTING THE SURVEY.

1600 CREW IS FINISHED FOR THE DAY AND WILL START AGAIN AT NOON TOMORROW

06/08/15

Location E. RUTHERFORD, NJ Date 06/09/15

Project / Client LPR RM 10.9 BATHY SURVEY

CLIENT: USEPA NOTES BY: M. PASSARO

WEATHER: SUNNY, 75°F

TIDE: HIGH TIDE 1:50 PM

1045 M. PASSARO ONSITE WITH LINDSAY OTTS OF de maximis

1215 SURVEY BOAT IS IN THE WATER.

1250 SURVEY BOAT HAS STARTED TO CONDUCT BATHY SURVEY.

- GOOD EDGE TO EDGE COVERAGE IS OBSERVED.
- SURVEY IS CONDUCTED UPSTREAM TO DOWNSTREAM TODAY TO MEET BACK AT FINISH LOCATION FROM YESTERDAY.

1600 SURVEY IS COMPLETED. CREW CHECKED FOR DATA GAPS.

1615 M. PASSARO & LINDSAY ARE BOTH OFFSITE.

06/09/15