July 16, 2019

Mr. Eugene Melnyk
NYS Department of Environmental Conservation
270 Michigan Avenue
Buffalo NY 14203

Subject: **In-Situ Sample Collection**
Operational Unit 2
Buffalo, New York
Wood E&IS Project No. 7773180380

Dear Mr. Melnyk:

One quality control measure for the OU 2 Remedial Action includes collection of in-situ stabilized/solidified soils for unconsolidated strength (UCS) testing. The method for collection of samples consisted of collecting tubes of newly mixed, wet, soils. The tubes are stored in a controlled environment and shipped to a laboratory to undergo UCS testing. Recently, some samples from Cells R84, R87 and Q86 were collected using an alternate method. The alternate method utilized a handheld core drill equipped with a 3-inch diameter diamond core barrel measuring approximately 15 inches in overall length to collect samples from stabilized soils cured in-situ. For all cores retrieved, the stabilized material located above the sampling depth was removed using the excavator bucket and placed to the side. Once the sampling was complete, the excavated material was placed back into the excavation and compacted using the excavator bucket. The following is a listing of the cores submitted to the laboratory and the depths in which they were retrieved;

- R84 – 2 to 3 ft.
- Q86 – 4 to 5 ft.
- R87 – 4 to 5 ft.

Once retrieved, the samples were wrapped in plastic and stored in a controlled environment similar to how molded cylinders are handled.

Amec E&E, PC approves of this alternate approach. By collecting samples that cured in-situ, accurate measurement of the in-situ strength can be determined.

Please contact me at 207-828-3405 if you have any questions or require any additional information.

Sincerely,

AMEC E&E PC

Richard Egan, PE
Associate Geotechnical Engineer

John W Peterson
Associate Project Manager

AMEC E&E PC
Clifton Park NY
518 372 0905