October 29, 2010

Mr. Tracy Smith
Project Manager
Division of Environmental Remediation
New York State Department of Environmental Conservation
Remedial Bureau D
625 Broadway – 12th Floor
Albany, New York 12233-7016

SUBJECT: Geddes Brook IRM (Site # NYD986913580) Order on Consent: Index # D7-0003-01-09 Temporary Construction Water Treatment Plant Site Preparation Work Plan

Dear Mr. Smith:

A Construction Water Treatment Plant (CWTP) will be required to treat construction water from the Geddes Brook remediation activities prior to discharge. Remediation activities, which will generate construction water requiring treatment, are scheduled to begin in April 2011. Therefore, construction and commissioning of the CWTP are scheduled for completion by April 2011. To maintain this schedule, the following actions are proposed for the Fall/Winter of 2010:

- Construction of the work platform for the components of the CWTP
- Installation of the conveyance piping to the CWTP site
- Supply of electrical power to CWTP

The proposed location of the CWTP is directly east of the LCP OU-1 containment area (Figure 1). Details of these proposed actions are provided below. Site work will be completed in accordance with the Construction Health and Safety Plan (HASP) (Parsons, 2004).

**Work Platform Construction**

As indicated in the LCP OU-1 Supplemental Sampling Data, Proposed Soil Removal and Additional Sampling Work Plan (Parsons 2010), a remedial excavation described as the East Ditch Area Soil Removal will have occurred prior to construction of the CWTP. The work platform area will have been cleared of trees, shrubs, and other vegetation. In addition, temporary facilities, fencing, stormwater/erosion and sediment controls will have been installed and will remain in place throughout the project. Further information regarding stormwater, erosion and sediment controls are detailed in the Stormwater Pollution Prevention Plan for the CWTP at LCP Portion of the Geddes Brook IRM (Parsons, 2010).

Following completion of the remedial work, which will generally consist of 2-foot removals (deeper in isolated areas), the excavation will have been backfilled to existing grades with a 1.5 inch minus bank run gravel material and compacted to 90 percent standard proctor using conventional construction equipment. The site will have been
graded to maintain positive drainage to the West Flume. Excavation areas outside the limits of the CWTP work platform will have been covered with 6 inches of topsoil, mulched and seeded.

Following completion of the LCP OU-1 East Ditch Area soil removal, the Geddes Brook CWTP work platform construction will commence. The work platform will be surfaced with a Hot Mixed Asphalt pavement (1 in. wearing course over a 2 in. binding course) on a 6 in. thick layer of bank run gravel, in those areas where gravel is not already in place. The pavement will be constructed according to the New York State Department of Transportation (NYSDOT) Standard Specifications. A 4 in. high asphalt curb will be constructed around the limits of the paving to contain runoff within the work platform as well as prevent runoff from entering the work platform from adjacent areas.

The asphalt will provide a low-permeability surface and will be contoured towards a collection sump and pump. The collection sump and pump will transfer the collected run-off into holding tanks. Figure 1 indicates the footprint and contours of the work platform.

**Conveyance Piping Installation**

Construction water from the Geddes Brook IRM excavation area will be collected, temporarily stored in settling tanks, and then conveyed to the CWTP adjacent to LCP. The construction water will be conveyed through a SDR 11 HDPE single-walled pipe, 4 to 6 in. OD which crosses beneath the railroad through an existing pipe conduit and then will run adjacent to the haul road as indicated on Figure 2. Pressure testing will be performed in accordance with the manufacturer’s recommendations. The pipe will be protected from truck traffic and excessive lateral movement will be prevented where required.

**Power Supply Installation**

An electric 4-wire power service (600 amps, 480/277 volt, 60 Hz) will be obtained from the Solvay Electric Department. A utility pole will be erected close to the CWTP work platform on which Solvay Electric will install transformers in order to step down from the 13,800 volt supply which traverses the site. An outdoor power distribution panel will be supplied and installed.

**Schedule**

Construction of the work platform will begin immediately following completion of the LCP OU-1 East Ditch Area soil removal and is anticipated to take place in November. Conveyance piping and power supply installation are anticipated in December 2010. Prior to initiation of any installation activities, NYSDEC will be notified.

Please contact Shane Blauvelt at (315) 552-9675 or me if you would like to discuss further.

Sincerely,

John P. McAuliffe, P.E.
Program Director, Syracuse

Attachments
cc:  Tara Blum, NYSDEC, Region 7 (1 hard copy, 1 electronic)
  Robert Nunes, USEPA (3 hard copies, 1 electronic)
  Mark Sergott, NYSDOH (1 hard copy, 1 electronic)
  Mike Spera, AECOM (1 hard copy, 2 electronic)
  Joseph Heath, Esq. (1 hard copy, 1 electronic)
  Jeanne Shenandoah, HETF/Onondaga Nation (1 electronic copy)
  Curtis Waterman, HETF/Onondaga Nation (1 electronic copy)
  Thane Joyal, Onondaga Nation (ec cover letter only)
  Heidi Kuhl, Onondaga Nation (ec cover letter only)
  Fred Kirschner, AESE, Inc. (1 electronic)
  Bill Hague, Honeywell (1 electronic copy)
  Jim O’Loughlin, Parsons (1 electronic copy)
  Ray D’Hollander, Parsons (1 hard copy)
  Michael Broschart, Parsons (1 hard copy)
  Shane Blauvelt, Parsons (1 hard copy)