



EA Engineering, P.C.
EA Science and Technology

6712 Brooklawn Parkway, Suite 104
Syracuse, NY 13211-2158
Telephone: 315-431-4610
Fax: 315-431-4280
www.eaest.com

7 March 2008

MEMORANDUM

TO: Will Welling – NYSDEC

FROM: James Hayward, P.E. – EA Engineering, P.C.

SUBJECT: Air Stripper Off-Gas Stack Installation and Catalytic Oxidizer Repairs– Chem Core Site (Site No. 915176), Buffalo, N.Y.

The New York State Department of Environmental Conservation (NYSDEC) tasked EA Engineering, P.C. and its affiliate EA Science and Technology (EA), to perform site management, and operations and maintenance activities at the Chem Core site in the City of Buffalo, Erie County, New York. The purpose of this memo is to describe activities completed at the site from 3 to 5 March 2008 as part of the Operation and Maintenance Transition (Task 2), which included the following:

- Installation of air stripper discharge stack (Task 2a)
- Repair of catalytic oxidizer (catox) control panel (Task 2b).

A brief summary of each activity is provided below, and photographs of the discharge stack and catox control panel are attached.

Air Stripper Discharge Stack Installation

An air stripper off-gas discharge stack was installed in the existing piping between the air stripper and catox unit from 3 to 5 March 2008. The stack is equipped with a butterfly valve which can be opened to allow for the catox to be bypassed during periods where off-gas treatment is not required. The stack was installed to a height of approximately 25 ft and constructed of 6-in. diameter Schedule 80 polyvinyl chloride. An air sampling port was installed on the discharge stack and configured to facilitate collection of samples at ground level. The stack was secured to the side of the building using a combination of metal struts (with anchors) and 1/8-in. steel cables, and supported at the base using a prefabricated concrete block.

Catalytic Oxidizer Control Panel Repairs

The existing Multi Media Interface (MMI) on the catox control panel was replaced with a new Allen Bradley Microview 300 MMI display on 4 March 2008. A representative for the catox manufacturer (Enhancement, Inc. on behalf of Anguil Environmental Systems, Inc.) was on-site to provide technical services for the control panel repairs. Enhancement, Inc. also programmed



the new MMI while on-site and tested the component to verify proper operation. In addition, EA inspected and identified several minor gas leaks in the fuel supply piping where it connects to the catox unit, which were corrected during the site visit.

The groundwater pump and treat system was not operated during the site visit, nor was any process flow from the air stripper unit directed to the catox unit at that time. However, EA and Anguil ran the catox continuously for a period of several hours to bring the unit up to normal operating temperature (approximately 800°F). The catox was turned off prior to departure.



Photo 1: Completed Air Stripper Off-Gas Discharge Stack



Photo 2: View of Air Stripper Off-Gas Discharge Stack from Niagara Street



Photo 3: Butterfly Valve in Air Stripper Off-Gas Discharge Stack



Photo 4: Base of Air Stripper Off-Gas Discharge Stack



Photo 5: Completed Air-Stripper Off-Gas Discharge Stack



Photo 6: New MMI Display (Catox control panel)

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: Joe Von Uderitz, Dave Crandall, Chris Salvas

(Name of Subcontractor) personnel:

(Name of contractor) equipment:

*(*Indicates active equipment)*

Other Subcontractors: None

VISITORS TO SITE:

1. Craig Pawlewski, PE-URS

PROJECT SCHEDULE ISSUES:

None.

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

None

COMMENTS:

None

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE: Joseph Von Uderitz-Geologist EA Engineering, Science, Tech.

Name: *(signature)*

cc:

DAILY PHOTOLOG

See Attached Photos

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: Joe Von Uderitz, Dave Crandall, Chris Salvas, Mike Valvo

(Name of Subcontractor) personnel: Don_Enhancement Inc

(Name of contractor) equipment:

*(*Indicates active equipment)*

Other Subcontractors: None

VISITORS TO SITE:

1. Craig Pawlewski, PE-URS

PROJECT SCHEDULE ISSUES:

None.

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

None

COMMENTS:

None

ATTACHMENT(S) TO THIS REPORT: Attached Photos

SITE REPRESENTATIVE: Joseph Von Uderitz-Geologist EA Engineering, Science, Tech.

Name: *(signature)*

cc:

DAILY PHOTOLOG

See Attached Photos

DAILY OBSERVATION REPORT

Day: Wednesday

Date: March 5, 2008



NYSDEC

Temperature: (F) 25 (am) 30 (pm)

Wind Direction: 5W (am) 5W (pm)

Weather: (am) Windy, Icy
(pm) Windy, Icy

Project Name
Chem-Core
NYSDEC Site # 9-15-176

Contract #
Location: Buffalo, New York

Arrive at site 700 (am)
Leave site: 1000 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes (X) No ()
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels? Soil Yes (X) n/a () * No ()
Waters Yes (X) n/a () * No ()
Air Yes (X) n/a () * No ()

- If No, provide comments

OTHER ITEMS:

Site Sketch Attached: Yes () No (X)
Photos Taken: Yes (X) No ()

DESCRIPTION OF DAILY WORK PERFORMED:

Adjusted cable lengths on emission stack to straighten up stack. Disassembled scaffold and cleaned up process building. Returned all rental equipment.

SAMPLING (Soil/Water/Air) Collected

Contractor Sample ID:

ANALYSIS

Description:

NONE

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

DAILY OBSERVATION REPORT

Day: Wednesday

Date: March 5, 2008

(Name of contractor) personnel: Joe Von Uderitz, Dave Crandall, Chris Salvas, Mike Valvo

(Name of Subcontractor) personnel:

(Name of contractor) equipment:

(*Indicates active equipment)

Other Subcontractors: None

VISITORS TO SITE:

1. None.

PROJECT SCHEDULE ISSUES:

None.

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

None

COMMENTS:

None

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE: Joseph Von Uderitz-Geologist EA Engineering, Science, Tech.

Name: (signature)

cc:

DAILY PHOTOLOG

See Attached Photos