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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

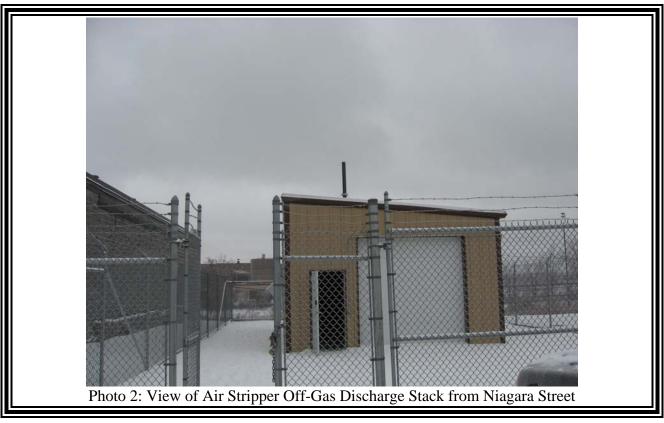




the new MMI while on-site and tested the component to verify proper operation. In addition, EA inspected and identified several minor gas leaks in the fuel supply piping where it connects to the catox unit, which were corrected during the site visit.

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.

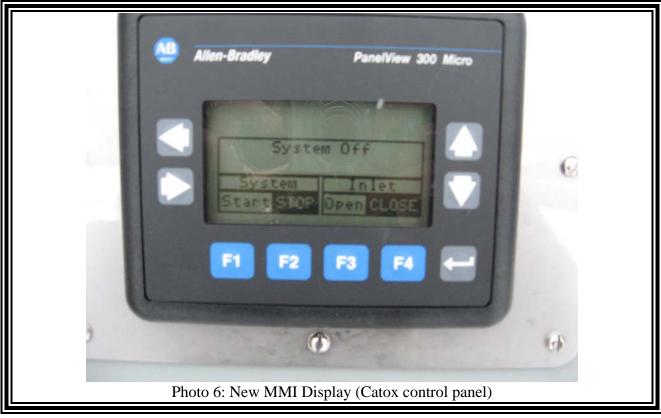












DAILY OBSERVATION	Day: Monday Date: March 3, 2						
®	NYSDEC		Temperature: (F)	45	(am)	60	(pm)
			Wind Direction:	5W	(am)	5W	(pm)
Project Name			Weather:	(am) Sur	nny		
Chem-Core NYSDEC Site # 9-15-1	76			(pm) Sur	nny		
Contract #			Arrive at site	930	(am)		
Location: Buffalo, New Y	ork		Leave site:	1700	(pm)		
HEALTH & SAFETY:							
Are there any changes to the (If yes, list the deviation und		Yes (X)	No ()				
Are monitoring results at ac	ceptable levels?	Soil	Yes (X)	n/a ()	* No	()	
		Waters Air	Yes (X) Yes (X)	n/a () n/a ()	* No * No	` '	
OTHER ITEMS:		7 111	•		ide comme	` '	
Site Sketch Attached: Photos Taken:	Yes () Yes (X)	No (X) No ()					
DESCRIPTION OF DAILY Picked up uni-strut supplies building. Inside of building uni-strut on the inside to un	on the way to the ran uni-strut from t	site. Picked the floor to the	e ceiling. Drilled fo				

SAMPLING (Soil/Water/Air) Collected

Contractor Sample ID:	_	ANALYSIS	_	Description:
NONE				

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CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

Day: Monday

Date: March 3, 2008

(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:

<u>SITE REPRESENTATIVE:</u> Joseph Von Uderitz-Geologist EA Engineering, Science, Tech.

Name: (signature)

CC:

DAILY PHOTOLOG

See Attached Photos

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DAILY OBSERVATION REPORT Day: Monday Date: March 3, 2008

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DAILY OBSERVATION REPORT			Day: Tuesday Date: March 4, 2				
₽ A ®	NYSDEC		Temperature: (F)	20	(am)	30	(pm)
			Wind Direction:	5W	(am)	5W	(pm)
Project Name			Weather:	(am) Su	nny		
Chem-Core NYSDEC Site # 9-15	-176			(pm) Wii	ndy, freezi	ng rain	
Contract #			Arrive at site	700	(am)		
Location: Buffalo, New	York		Leave site:	1800	(pm)		
HEALTH & SAFETY:							
Are there any changes to (If yes, list the deviation u		Yes (X)	No ()				
Are monitoring results at a	acceptable levels?	Soil	Yes (X)	n/a ()	* No	()	
		Waters Air	Yes (X) Yes (X)	n/a() n/a()	* No * No		
OTHER ITEMS:		All	•	` ,	ide comme	` '	
Site Sketch Attached: Photos Taken:	Yes () Yes (X)	No (X) No ()					
DESCRIPTION OF DAIL' Don from Enhancement is electrical schematic upda the process building and	nc. onsite to install r te. Constructed nev	new Allen Brad					
SAMPLING (Soil/Water/A		ALYSIS		Des	scription:		
NONE				200	p		
INOINE							

-		

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CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

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

Day: Tuesday

Date: March 4, 2008

(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

<u>SITE REPRESENTATIVE:</u> Joseph Von Uderitz-Geologist EA Engineering, Science, Tech.

Name: (signature)

CC:

DAILY PHOTOLOG

See Attached Photos

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Day: Tuesday Date: March 4, 2008 **DAILY OBSERVATION REPORT**

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DAILY OBSERVAT	Day: Wednesday Date: March 5,					3		
	NYSDEC		Temperature: (F)	25	(am)	30	(pm)	
			Wind Direction:	5W	(am)	5W	(pm)	
Project Name			Weather:	(am) Wir	ndy, Icy			
Chem-Core NYSDEC Site # 9-15-176				(pm) Windy, Icy				
Contract #			Arrive at site	700	(am)			
Location: Buffalo, Ne	w York		Leave site:	1000	(pm)			
HEALTH & SAFETY:								
Are there any changes (If yes, list the deviation			Yes (X)	No ()				
Are monitoring results a	at acceptable levels?	Soil	Yes (X)	n/a ()	* No (()		
		Waters	` ,	n/a ()	* No (
OTHER ITEMS:		Air	Yes (X)	n/a () If No, prov	* No(ide commen	` '		
Site Sketch Attached: Photos Taken:	Yes() Yes(X)	No (X) No ()						
DESCRIPTION OF DAI Adjusted cable lengths building. Returned all r	on emission stack to s		stack. Disassembl	ed scaffold	I and clean	ed up p	rocess	

SAMPLING (Soil/Water/Air) Collected Contractor Sample ID:

Contractor Sample ID:	ANALYSIS	Description:
NONE		

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

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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

Daily Observation Report Page 2 of 2