



engineering and constructing a better tomorrow

December 3, 2010

Mr. Frank Sowers  
Project Manager  
New York State Department of Environmental Conservation  
Region 8 – Division of Environmental Remediation  
6274 East Avon-Lima Road  
Avon, NY 14414

Subject: **VCA Index # B8-0508-97-02**  
**Former Taylor Instrument Facility**  
**November 2010 Progress Report**  
**MACTEC Project 3031-05-2006**

Dear Mr. Sowers:

In accordance with Section II of the Taylor VCA, attached please find the November 2010 progress report.

Should you have any questions, please contact me at (865) 588-8544 or RARyan@mactec.com.

Sincerely,

MACTEC Engineering and Consulting, Inc.

A handwritten signature in black ink, appearing to read "R. Ryan".

Ricky A. Ryan, P.E.  
Senior Principal Project Manager

[1028]

A handwritten signature in black ink, appearing to read "K. Joe Deatherage".

K. Joe Deatherage  
Senior Environmental Engineer

cc: James D. Charles, NYSDEC (electronic)  
Katherine Comerford, NYSDOH (electronic)  
Jeffrey Kosmala, MCHD  
Jean McCreary, Nixon Peabody LLP (electronic)  
David McAdams, Thermo Fisher Scientific (electronic)  
Nelson Walter, MACTEC (electronic)  
John Conant, ABB (electronic)

Enclosure

## **Progress Report – November 2010**

### **Voluntary Cleanup of Former Taylor Instruments Facility**

---

#### **I. Introduction**

In accordance with Section II of the Voluntary Cleanup Agreement (the Agreement) between Combustion Engineering (C-E) and the New York State Department of Environmental Conservation (NYSDEC), Agreement Index Number B8-0508-97-02, MACTEC Engineering and Consulting, Inc. (MACTEC), on behalf of C-E, has prepared this monthly progress report. The progress report is intended to supply information described in Items A.1 through A.5 of Section II of the Agreement. It should also be noted that the successor company to C-E is ABB Inc.

As the department is aware, C-E and Thermo Fisher Scientific Company (formerly Fisher Scientific LLC) have reached an agreement through which C-E will take the lead on all on-site activities, while Thermo Fisher Scientific will take the lead on all off-site activities.

#### **II. Description of Actions Taken Toward Compliance with Agreement [A.1]**

During the reporting period, C-E undertook the following actions towards achieving compliance with the Agreement:

- MACTEC provided a *Site Management Plan for Sub-Slab Vapor Mitigation System Operation and Maintenance* to the owner of the residential duplex at 80 Ames Street and 215 Danforth Street. Additional copies were also provided to NYSDEC and NYSDOH.
- MACTEC conducted fieldwork to collect indoor air and sub-slab vapor samples from the residence at 7 Lynchford Park B, as detailed in the addendum to the *Work Plan for Sub-Slab Vapor and Indoor Air Investigation*. The samples were collected during November 15-16, 2010.
- The preliminary results for the sub-slab vapor and indoor air sampling performed at 7 Lynchford Park B were received on November 24, 2010, and are being provided to NYSDEC and New York State Department of Health (NYSDOH) as an attachment to this progress report. The results indicate that no further action is necessary.
- Associated with the implementation of the *Revised Work Plan for Accelerated Bioremediation and Permanent Decommissioning of the Remedial Treatment System*, MACTEC began preparation of the Construction Completion Report (CCR) and revised Operations, Maintenance, and Monitoring (OM&M) Manual.

Thermo Fisher Scientific's activities related to off-site activities in November are listed below.

- None.

#### **III. Summary of Sampling and Testing Results [A.2]**

- Preliminary results for the sub-slab vapor and indoor air sampling performed at 7 Lynchford Park B are attached.

#### **IV. Required Deliverables Submitted [A.3]**

- None.

**Progress Report – November 2010**  
**Voluntary Cleanup of Former Taylor Instruments Facility**

---

**V. Scheduled Future Actions [A.4]**

- Subsequent to the implementation of the *Revised Work Plan for Accelerated Bioremediation and Permanent Decommissioning of the Remedial Treatment System*, MACTEC will prepare post-implementation deliverables, to include a CCR and revised OM&M Manual.
- Following receipt of validated results, ABB will issue a notification letter of results to the owner/tenant of 7 Lynchford Park B. The notification letter will provide a summary of the results from the sub-slab vapor and indoor air investigation conducted in November 2010.
- MACTEC will submit the CCR and OM&M Manual to NYSDEC in late December 2010.

**VI. Percentage Completion/Delays [A.5]**

The following table summarizes percentage completion, expected delays, and mitigative measures for items specified in the Agreement and other major actions. For items prior to calendar year 2003, see monthly progress reports dated June 2003 or earlier.

Item	Status	Delays Anticipated or Encountered	Mitigative Measures, Comments
Final Engineering Report (Final), Mercury and VOC Remediation	100%	Completed.	Document was approved, assignable release, and covenant not to sue issued by NYSDEC via letter dated September 2, 2005.
Periodic Groundwater Monitoring Reports	NA	Ongoing.	Quarterly (2003), Semi-Annually (2004), Annually (2005-present)
DPVE Remedial System Operation	100%	Completed.	Based on NYSDEC approval of the aforementioned Revised Work Plan, the system was decommissioned.
Accelerated Bioremediation Pilot Test	100%	Completed.	None.
2009 Soil Vapor Investigation	100%	Completed.	None.
2010 Vapor Mitigation Measure at 80 Ames/215 Danforth	100%	Completed.	None.
2010 Accelerated Bioremediation and Permanent Decommissioning of the Remedial Treatment System	100%	Completed.	None.

**VII. Proposed Investigative/Remedial Work Plan Modifications [A.6]**

None.



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

---

November 24, 2010

Joe Deatherage  
Mactec, Inc - TN  
9725 Cogdill Road  
Knoxville, TN 37932

Project Location: Rochester, NY  
Client Job Number:  
Project Number: 3031052006.12  
Laboratory Work Order Number: 10K0616

Enclosed are results of analyses for samples received by the laboratory on November 17, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Holly L. Folsom". The signature is written in a cursive, flowing style.

Holly L. Folsom  
Project Manager



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Mactec, Inc - TN  
9725 Cogdill Road  
Knoxville, TN 37932  
ATTN: Joe Deatherage

REPORT DATE: 11/24/2010

PURCHASE ORDER NUMBER: 201015552

PROJECT NUMBER: 3031052006.12

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10K0616

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Rochester, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SS-08	10K0616-01	Air		EPA TO-15	
1A-08	10K0616-02	Air		EPA TO-15	
1A-08 DUP	10K0616-03	Air		EPA TO-15	
AA-06	10K0616-04	Air		EPA TO-15	



---

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

#### CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Daren J. Damboragian". The signature is fluid and cursive, with a long horizontal stroke at the end.

Daren J. Damboragian  
Laboratory Manager



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

#### ANALYTICAL RESULTS

Project Location: Rochester, NY  
Date Received: 11/17/2010  
Field Sample #: SS-08  
Sample ID: 10K0616-01  
Sample Matrix: Air  
Sampled: 11/16/2010 00:00

Sample Description/Location:  
Sub Description/Location:  
Canister ID: 1259  
Canister Size: 6 liter  
Flow Controller ID: 3352  
Sample Type: 24 hr

Work Order: 10K0616  
Initial Vacuum(in Hg): -30  
Final Vacuum(in Hg): -10  
Receipt Vacuum(in Hg): -10  
Flow Controller Type: Fixed-Orifice  
Flow Controller Calibration  
RPD Pre and Post-Sampling:

#### EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	11/22/10 9:34		WSD
Tetrachloroethylene	0.15	0.10		1.0	0.68	2	11/22/10 9:34		WSD
Trichloroethylene	0.55	0.10		2.9	0.54	2	11/22/10 9:34		WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	11/22/10 9:34		WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.1	70-130	11/22/10 9:34



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

# ANALYTICAL RESULTS

Project Location: Rochester, NY  
Date Received: 11/17/2010  
Field Sample #: 1A-08  
Sample ID: 10K0616-02  
Sample Matrix: Air  
Sampled: 11/16/2010 00:00

Sample Description/Location:  
Sub Description/Location:  
Canister ID: 1661  
Canister Size: 6 liter  
Flow Controller ID: 3079  
Sample Type: 24 hr

Work Order: 10K0616  
Initial Vacuum(in Hg): -29  
Final Vacuum(in Hg): -10  
Receipt Vacuum(in Hg): -11  
Flow Controller Type: Fixed-Orifice  
Flow Controller Calibration  
RPD Pre and Post-Sampling:

## EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	11/22/10 2:45	WSD	
Tetrachloroethylene	0.035	0.035		0.24	0.24	0.702	11/22/10 2:45	WSD	
Trichloroethylene	ND	0.035		ND	0.19	0.702	11/22/10 2:45	WSD	
Vinyl Chloride	ND	0.035		ND	0.090	0.702	11/22/10 2:45	WSD	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	92.2	70-130	11/22/10 2:45



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

#### ANALYTICAL RESULTS

Project Location: Rochester, NY  
Date Received: 11/17/2010  
Field Sample #: 1A-08 DUP  
Sample ID: 10K0616-03  
Sample Matrix: Air  
Sampled: 11/16/2010 00:00

Sample Description/Location:  
Sub Description/Location:  
Canister ID: 1036  
Canister Size: 6 liter  
Flow Controller ID: 3417  
Sample Type: 24 hr

Work Order: 10K0616  
Initial Vacuum(in Hg): -30  
Final Vacuum(in Hg): -11  
Receipt Vacuum(in Hg): -11  
Flow Controller Type: Fixed-Orifice  
Flow Controller Calibration  
RPD Pre and Post-Sampling:

#### EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	11/22/10	1:56	WSD
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	11/22/10	1:56	WSD
Trichloroethylene	0.039	0.035		0.21	0.19	0.702	11/22/10	1:56	WSD
Vinyl Chloride	ND	0.035		ND	0.090	0.702	11/22/10	1:56	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.0	70-130	11/22/10 1:56



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

#### ANALYTICAL RESULTS

Project Location: Rochester, NY  
Date Received: 11/17/2010  
Field Sample #: AA-06  
Sample ID: 10K0616-04  
Sample Matrix: Air  
Sampled: 11/16/2010 00:00

Sample Description/Location:  
Sub Description/Location:  
Canister ID: 1283  
Canister Size: 6 liter  
Flow Controller ID: 3433  
Sample Type: 24 hr

Work Order: 10K0616  
Initial Vacuum(in Hg): -30  
Final Vacuum(in Hg): -11  
Receipt Vacuum(in Hg): -10  
Flow Controller Type: Fixed-Orifice  
Flow Controller Calibration  
RPD Pre and Post-Sampling:

#### EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	11/22/10	1:09	WSD
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	11/22/10	1:09	WSD
Trichloroethylene	0.16	0.035		0.88	0.19	0.702	11/22/10	1:09	WSD
Vinyl Chloride	ND	0.035		ND	0.090	0.702	11/22/10	1:09	WSD

Surrogates	% Recovery		% REC Limits		Date/Time	
4-Bromofluorobenzene (1)	91.9		70-130		11/22/10 1:09	



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

### Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
10K0616-01 [SS-08]	B022792	1.5	1	N/A	1000	400	300	11/21/10
10K0616-02 [IA-08]	B022792	1.5	1	N/A	1000	400	855	11/21/10
10K0616-03 [IA-08 DUP]	B022792	1.5	1	N/A	1000	400	855	11/21/10
10K0616-04 [AA-06]	B022792	1.5	1	N/A	1000	400	855	11/21/10



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

# QUALITY CONTROL

## Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
	Results	RL	Results	RL							
Batch B022792 - TO-15 Prep											
Blank (B022792-BLK1)					Prepared & Analyzed: 11/21/10						
cis-1,2-Dichloroethylene	ND	0.025									
Tetrachloroethylene	ND	0.025									
Trichloroethylene	ND	0.025									
Vinyl Chloride	ND	0.025									
Surrogate: 4-Bromofluorobenzene (1)	7.33				8.00		91.6	70-130			
LCS (B022792-BS1)					Prepared & Analyzed: 11/21/10						
cis-1,2-Dichloroethylene	4.64				5.00		92.8	70-130			
Tetrachloroethylene	4.32				5.00		86.5	70-130			
Trichloroethylene	4.69				5.00		93.8	70-130			
Vinyl Chloride	4.01				5.00		80.3	70-130			
Surrogate: 4-Bromofluorobenzene (1)	7.59				8.00		94.8	70-130			

**FLAG/QUALIFIER SUMMARY**

- \* QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

#### CERTIFICATIONS

#### Certified Analyses included in this Report

Analyte	Certifications
---------	----------------

#### EPA TO-15 in Air

cis-1,2-Dichloroethylene	AIHA,FL,NY
Tetrachloroethylene	AIHA,FL,NJ,NY
Trichloroethylene	AIHA,FL,NJ,NY
Vinyl Chloride	AIHA,FL,NJ,NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011



Email: [info@contestlabs.com](mailto:info@contestlabs.com)

## AIR SAMPLE CHAIN OF CUSTODY RECORD

EAST LONGMEADOW, MA 01028

Page 1 of 1

[www.contestlabs.com](http://www.contestlabs.com)

Sampled By: Brandon Smith

Client PO # contact T. Deatherage

**DATA DELIVERY (check one):**

Format: ☐ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER

Date Sampled	<u>ONLY USE WHEN USING PUMPS</u>
--------------	----------------------------------

Laboratory Comments: 5 Day test in 1 m<sup>3</sup>  
PCE-TEF-CIS 12 DCE & VC

CLIENT COMMENTS:

Received by: (signature)	Date/Time:
--------------------------	------------

Date/Time:

Turnaround \*\*

**Approval Required**

### Special Requirements

Other: \_\_\_\_\_

RM IS NOT FILE

C=cassette

Approval Required ☐ O = other ☐ O = Other

\*\*\* TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP &amp; WBE/DBE Certified