RCRA FACILITY INVESTIGATION AND CERCLA REMOVAL ACTION

QUARTERLY PROGRESS REPORT #46 THIRD QUARTER 2012

GM CETC - BEDFORD FACILITY 105 GM DRIVE BEDFORD, INDIANA

EPA ID# IND006036099 AOC DOCKET NO. V-W-'03-C-747

Prepared For: General Motors LLC

OCTOBER 12, 2012 REF. NO. 013968 (361) This report is printed on recycled paper.



Real Estate & Facilities Remediation Team

October 12, 2012 Reference No. 013968

Mr. Peter Ramanauskas
Project Manager for IND 0060306099
Land and Chemicals Division
U.S. EPA Region 5
77 West Jackson Blvd. (LU-9J)
Chicago, IL 60604-3507

Dear Mr. Ramanauskas:

Re: GM CETC – Bedford Facility, IND 006036099 Performance-Based RCRA Corrective Action

Quarterly Progress Report #46, Third Quarter 2012

GM CETC - Bedford Facility

Bedford, Indiana

Please find enclosed the Quarterly Progress Report #46 (Third Quarter 2012) for the Performance-Based RCRA Corrective Action project and the CERCLA Removal Action (RA) at the GM Castings, Engines, Transmissions, and Components (CETC; formerly Powertrain) - Bedford Facility (Facility) select surrounding properties (Site), 105 GM Drive Bedford, Indiana. This report is being submitted in accordance with the Performance-Based RCRA Corrective Action Agreement, signed March 20, 2001 and amended October 1, 2002, March 29, 2007, and May 9, 2008.

The next RCRA/CERCLA quarterly progress report covering the fourth Quarter of 2012 will be submitted on or before January 15, 2013.

Should you have any questions regarding this document, please do not hesitate to contact me at (313) 510-4328.

Yours truly,

General Motors LLC

Cheryl R. Hiatt Project Manager

PG/142 Encl.

c.c.: See Attached Distribution List

Shend R. Healt

• 30009 Van Dyke, P.O. Box 9026 • Mail Code 480-206-1E0 • Warren, MI 48090 • FAX (586) 986-2281 •

October 12, 2012 Mr. Peter Ramanauskas Page 2

GM Bedford Distribution List

Peter Ramanauskas U.S. EPA, Region 5

Brad Stimple U.S. EPA, OSC

Gerald O'Callaghan IDEM Management

Jim Smith IDEM

Carl Wodrich Indiana Department of Natural Resources

Cheryl Hiatt/Ed Peterson GM WFG Remediation

James McGuigan CRA Project Manager

Bill Steinmann CRA Project Geologist

Katie Kamm CRA Oversight Engineer

Stephen Song ENVIRON International Corporation, Inc.

Page: 1 of 11

TABLE OF CONTENTS

		<u>Page</u>
1.0	<u>INTRODUCTION</u>	3
2.0	LIST OF COMPLETED ACTIVITIES.	4
3.0	SUMMARIES OF ALL ANTICIPATED PROBLEMS AND PLANNED RESOLUTIONS	6
4.0	SUMMARIES OF ALL CHANGES MADE IN THE CORRECTIVE ACTION (CA) DURING THE REPORTING PERIOD	7
5.0	COMMUNITY RELATIONS	8
6.0	CHANGES IN PERSONNEL DURING THE REPORTING PERIOD	9
7.0	PROJECTED WORK FOR THE NEXT REPORTING PERIOD	10
8.0	COPIES OF DAILY REPORTS, INSPECTION REPORTS, LABORATORY/MONITORING DATA	11
	LIST OF TABLES	
TABL	2.1 SES #1 TREATMENT SYSTEM SAMPLING RESULTS	
TABL	2.2 SPRING 018 SAMPLING RESULTS	

Section: Quarterly Progress Report #46

Page: 2 of 11

QUARTERLY PROGRESS REPORT DISTRIBUTION LIST

U.S. EPA - Waste, Pesticide and Toxins Division,

Project Manager

Peter Ramanauskas (via e-mail)

U.S. EPA - Emergency Response Branch,

On-Scene Coordinator

Brad Stimple

Indiana Department of Environmental Management Gerald O'Callaghan (via e-mail)

Indiana Department of Natural Resources Carl Wodrich

GM WFG Remediation Cheryl Hiatt /Ed Peterson

CRA, Project Coordinator James McGuigan (via e-mail)

CRA, Project Geologist Bill Steinmann (via e-mail)

CRA, Oversight Engineer Katie Kamm (via e-mail)

ENVIRON Steve Song (via e-mail)

Section: Quarterly Progress Report #46

Page: 3 of 11

1.0 INTRODUCTION

This Quarterly Progress Report is submitted by General Motors LLC (GM) in accordance with the Bedford Performance-Based Corrective Action Agreement (Agreement), executed on March 20, 2001, and modified on October 1, 2002, March 29, 2007, and May 9, 2008; and in accordance with the Administrative Order on Consent (AOC) for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. SS 9604, 9606(a), 9607, and 9622 (United States Environmental Protection Agency (U.S. EPA) Docket No.: V-W-'03-C-747) effective July 31, 2003, as amended for quarterly reporting by U.S. EPA approval, September 14, 2012. This report covers the period of the third calendar quarter of 2012 for the Resource Conservation and Recovery Act (RCRA) Corrective Action (CA) Project and the CERCLA Removal Action (RA) at the GM Castings, Engines, Transmissions, and Components (CETC; formerly Powertrain) – Bedford Facility (Facility) and select surrounding properties (Site), Bedford, Indiana.

The next RCRA/CERCLA quarterly progress report covering the fourth Quarter of 2012 will be submitted on or before January 15, 2013.

2.0 <u>LIST OF COMPLETED ACTIVITIES</u>

The following activities took place and the following documents were prepared and distributed during this quarter:

- Maintenance of storm water and erosion controls continued on an as-needed basis.
- Development of the remedial strategy for the Spring 018 area has continued into this quarter.
 - o Spring 018 water continues to be collected and treated by SES's on-Site water treatment system. Bimonthly sampling of the treatment system was completed in August during this period and the next sample will be collected in October 2012. Sample results from SES's water treatment system during July/August 2012 are provided in Table 2.1.
 - o Three additional dye trace studies were conducted in September to check connectivity of the creek to Spring 018 effluent and to assist with the remedial design for this area.
 - o Remedial and restoration design for the area surrounding Spring 018 continued through the quarter in consultation with U.S. EPA and IDEM.
 - o Results for samples collected from Spring 018 during the quarter are presented in Table 2.2
- Removal of certain log habitat features from the Parcel 30 farm field area, per the property owner's request, was completed in August 2012.
- The Annual Compliance Report of the East Plant Area TSCA Vault for Calendar Year 2011 was submitted on July 11, 2012.
- Fact Sheet 34 was published on July 18, 2012.
- Public and Community Liaison Panel (CLP) meetings were held on July 25, 2012 to provide an update of the project and address questions and concerns from local residents.
- Coreholes were completed along the new proposed trench alignment.
- The second Environmental Indicator (EI) CA750 static groundwater levels and the first yearly groundwater samples were collected in July and August of 2012.
- Conference calls were held with U.S. EPA and the Indiana Department of Environmental Management (IDEM) on July 20, August 7 and 23, and September 6 and 18, 2012, to discuss items related to the RA and the design and construction of the East Plant Area Interim Measures (IM).
- On-Site construction meetings for the reporting period have been held informally daily and formally as needed. During this maintenance period, formal SES

Section: Quarterly Progress Report #46 $\,$

Page: 5 of 11

construction meetings were held on July 10, August 14 and September 11. Tailgate safety meetings are held daily for both the consultant and the contractor.

- The RCRA Facility Investigation Quarterly Report #45, Second Quarter of 2012, was submitted to the U.S. EPA and IDEM on July 11, 2012.
- The CERCLA RA Progress Reports covering May/June 2012 and July/August 2012 were submitted to U.S. EPA and IDEM on July 11, 2012 and September 14, 2012, respectively. Per approval by U.S. EPA on September 14, 2012, CERCLA reporting will now be combined with the RCRA quarterly reporting.

Section: Quarterly Progress Report #46

Page: 6 of 11

3.0 SUMMARIES OF ALL ANTICIPATED PROBLEMS AND PLANNED RESOLUTIONS

• GM is reviewing additional evaluation steps and design alternatives for Spring 018 with U.S. EPA and IDEM. GM submitted a conceptual remediation plan to U.S. EPA and IDEM on June 26, 2012, and continued work on restoration design through this reporting period. GM also conducted additional temperature monitoring and new dye-trace studies to more fully understand the Spring 018 hydrogeologic system in support of the design.

GM CETC Bedford Facility Date: October 12, 2012 Section: Quarterly Progress Report #46

Page: 7 of 11

4.0 SUMMARIES OF ALL CHANGES MADE IN THE CORRECTIVE ACTION (CA) DURING THE REPORTING PERIOD

The following changes were made to the CA during the reporting period:

- The Annual Compliance Report of the East Plant Area TSCA Vault for Calendar Year 2011 was submitted on July 11, 2012.
- Fact Sheet 34 was published on July 18, 2012.
- Completion of installation of the coreholes along the East Plant Area Groundwater Collection Trench newly proposed alignment.

GM CETC Bedford Facility Date: October 12, 2012 Section: Quarterly Progress Report #46

Page: 8 of 11

5.0 <u>COMMUNITY RELATIONS</u>

The telephone number for public contact is 812-277-8954 (Katie Kamm, CRA). Individual meetings can also be arranged to discuss sampling results with residents as requested.

The next neighborhood and public meeting, and CLP meeting are anticipated to be scheduled in December 2012. Presentations for past meetings are posted on the GM website at www.bedfordpowertraincorrectiveaction.com.

The document repository has been restored at the Bedford Public Library, with relevant project related documents available on compact disc (CD) in PDF format. Information will be updated periodically, as new documents become available. All data located in the Library repository can also be found on the aforementioned website.

GM CETC Bedford Facility Date: October 12, 2012 Section: Quarterly Progress Report #46 Page: 9 of 11

6.0 CHANGES IN PERSONNEL DURING THE REPORTING PERIOD

Primary oversight personnel for CRA and Sevenson Environmental Services (SES) remain unchanged. The majority of remaining workers were demobilized during the first quarter once Cover System construction activities were completed. Some personnel remain on-site for routine site monitoring and maintenance and other site related projects as they occur.

Section: Quarterly Progress Report #46

Page: 10 of 11

7.0 PROJECTED WORK FOR THE NEXT REPORTING PERIOD

Work anticipated for the next reporting period includes:

- Continue maintenance of erosion controls as needed.
- Sample SES's on-Site water treatment plant in October in accordance with the monitoring schedule.
- Submit the restoration design for the two remaining properties west of Peerless Road that GM LLC is responsible for restoring.
- Submit the report outlining the results of the 2012 inspection of the Parcel 22 restoration south of Broomsage Road.
- Continue maintenance of the East Plant Area Cover System.
- Complete downhole geophysical testing of coreholes along the proposed alignment for the East Plant Area Groundwater Collection Trench.
- Submit the EI CA750 results from the first 2012 monitoring event and respond to comments from the second 2011 monitoring event.
- Submit the results for the recovery pump tests completed at CH-5 and CH-2A as part of the AOI 8 investigation, and removal of the waste from the Facility generated during the test.
- Submit Spring 018 creek sealing and restoration design.
- Submit a response to USEPA comments on the proposed cleanup plan for Parcels 400/430/431, received on September 28, 2012.
- Submit the East Plant Area Vault Construction Certification Report.
- Submit the West Plant Area Construction Certification Report.

Section: Quarterly Progress Report #46

Page: 11 of 11

8.0 <u>COPIES OF DAILY REPORTS, INSPECTION REPORTS, LABORATORY/MONITORING DATA</u>

Tables 2.1 and 2.2 present results from the SES on-Site water treatment plant and Spring 018, respectively. Additional packages of analytical data have been submitted to U.S. EPA once the validated data became available. Validated data will continue to be submitted as it becomes available.

TABLE 2.1

SES TREATMENT SYSTEM #1 SAMPLING RESULTS - JULY/AUGUST/SEMTEMBER 2012 GM CETC BEDFORD FACILITY BEDFORD, INDIANA

Sample Date	Analysis	Influent	After Sand Filter 1	After Sand Filter 2	Between Carbons 1 & 3	Between Carbons 2 & 4	Effluent
8/14/2012	PCB (ug/L)	0.071 J	0.073 J	0.063 J	ND (0.20)	ND (0.19)	ND (0.20)
	Turbidity (NTU)	1.73	0.26	0.55	0.06	0.41	0.09

Note:

J - Estimated Value

ND - Non detect

"--" - Not Sampled

TABLE 2.2

SPRING 18 SAMPLING RESULTS - JULY/AUGUST/SEPTEMBER 2012 GM CETC BEDFORD FACILITY BEDFORD, INDIANA

Sample Location Sample Identification Sample Date Sample Type PCBs	Units	Spring 018C SW-015-071112-GS-39868 7/11/2012	Spring 018C SW-015-071812-KMV-39869 7/18/2012	Spring 018C SW-015-080812-GS-39870 8/8/2012	Spring 018C SW-015-080812-GS-39871 8/8/2012 Duplicate	Spring 018C SW-015-091212-GS-39881 9/12/2012	
Aroclor-1016 (PCB-1016)	ug/L	0.19 U	0.20 U	0.19 U	0.20 U	0.20 U	
Aroclor-1010 (PCB-1010) Aroclor-1232 (PCB-1232)		0.19 U	0.20 U	0.19 U	0.20 U	0.20 U	
` ,	ug/L						
Aroclor-1242 (PCB-1242)	ug/L	0.63	0.20 U	0.34	0.35	0.46	
Aroclor-1248 (PCB-1248)	ug/L	0.19 U	0.53	0.19 U	0.20 U	0.20 U	
Aroclor-1254 (PCB-1254)	ug/L	0.19 U	0.20 U	0.19 U	0.20 U	0.20 U	
Aroclor-1260 (PCB-1260)	ug/L	0.19 U	0.20 U	0.19 U	0.20 U	0.20 U	
Total PCBs	ug/L	0.63	0.53	0.34	0.35	0.46	
General Chemistry							
Total suspended solids (TSS	s) ug/L	3000 J	4000	4000 U	4000 U	16000	

Notes:

U - Not present at or above the associated value.

DRAFT - Unvalidated

TestAmerica Laboratory Qualifier:

J - Result is less than the RL (reporting limit) but greater than or equal to the MDL (method detection limit) and the concentration is an approximate value.