

# **RCRA FACILITY INVESTIGATION**

## **QUARTERLY PROGRESS REPORT #4**

**GM POWERTRAIN – BEDFORD PLANT  
105 GM DRIVE  
BEDFORD, INDIANA**

**EPA ID# IND006036099**

**Prepared for:  
GENERAL MOTORS CORPORATION**

**APRIL 15, 2002**

**REF. NO. 013968**

This report is printed on recycled paper.

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& Associates

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**QUARTERLY PROGRESS REPORT**

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## **Quarterly Progress Report #4 –First Quarter 2002**

GM Powertrain Bedford Plant  
Revision: 0  
Date: April 15, 2002  
Section: Quarterly Progress Report #4  
Page: II of V

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**ENVIRON International Corporation, Inc.**

Stephen Song/  
C.Y. Jeng

## **1.0 INTRODUCTION**

This Quarterly Progress Report is submitted in accordance with the Bedford Voluntary Corrective Action Agreement (Agreement) between the U.S. EPA and GM, executed on March 20, 2001. This report covers the period of the first calendar quarter of 2002 for the GM-Powertrain – Bedford Plant (Facility).

The next quarterly progress report will be submitted on or before July 15, 2002.

## **2.0 LIST OF COMPLETED ACTIVITIES**

The following documents were prepared and distributed during this quarter:

- Project Fact Sheet #3 – February 10, 2002
- Bedford RFI Technical Memorandum 1, 2001 Stream Investigation Data Summary, March 19, 2002.

On-site investigation activities from the RFI Work Plan, which commenced on December 17, 2001, continued during this reporting period. Approximately 85 soil borings, 15 of which were surface samples only, 5 wipe samples, 2 groundwater (sumps), and 10 outer casings were completed during this reporting period. At two of the ten outer casing locations, deep bedrock cores were completed to approximately 190 feet below ground surface each. Validation of these samples is currently being completed. It is anticipated that the borings within AOI 9 (Service Tunnels) will be completed during the next reporting period. Also, bedrock coring will continue during the next reporting period.

Additional off-site stream sampling activities commenced on January 7, 2002, and will continue into the next reporting period. Approximately 2,000 samples were collected and analyzed during this reporting period. As the validated analytical results from the stream sampling event along with a corresponding table summary and drawing showing sample locations have been received, they have been distributed to the applicable residents, the U.S. EPA, IDEM and the USFWS. This will continue for samples collected during the next reporting period.

GM also completed specific sampling requests made by residents in this quarter. This included sampling yards, springs, crops, cattle, and garden produce. These analytical results (once validated) have been included in the stream project data packages distributed to the residents and agencies. GM will continue sampling additional areas requested by residents, on a case-by-case basis, during the next reporting period. Blood testing has been made available to residents in affected areas. Residents can get their blood sampled at the two local hospitals, which will then prepare and send the samples to the laboratory. GM does not receive any results from community resident blood testing. The hospitals will distribute the results to the residents directly.

Three residential wells and one cistern were identified and sampled during this reporting period. One additional well was resampled at the request of the property owner (this well was originally sampled during the Off-Site Well Survey and Sampling event and did not contain detectable concentrations of PCBs).

Conference calls between representatives from GM, EPA and IDEM occurred this quarter on the following dates:

- January 9, 2002;
- February 6, 2002;
- March 22, 2002; and
- March 29, 2002.

### **3.0 SUMMARIES OF ALL FINDINGS**

Summaries of any findings, which occur after submission of this progress report, will be included in subsequent quarterly progress reports.

### **4.0 SUMMARIES OF ALL CHANGES MADE IN THE RFI DURING THE REPORTING PERIOD**

During the on-site investigation, one additional bedrock monitoring well location was chosen and drilled during this reporting period. This additional location was chosen based on observed springs near the current National Pollution Discharge Elimination System (NPDES) Outfall 002. Two overburden monitoring wells were also installed due to the presence of saturated conditions above

the bedrock surface (one is located adjacent to monitoring well MW-X085Y070 in Area of Investigation (AOI) 1; and one is located adjacent to soil boring B-X193Y251 in AOI 4).

Twenty-two additional soil borings were advanced across the site. Eighteen of these were advanced in AOIs 5 and 6. These eighteen were chosen based on the results of the surface geophysics and from samples collected from the original boreholes advanced in this area. Three of the 22 additional soil borings were advanced in the north parking lot to investigate the possible disposal of foundry sand at that location. The last added soil boring was advanced inside of the Piston Building after the removal of manufacturing equipment in the south end of this building.

Refer to **Attachment 1** for the locations of all additional soil borings and monitoring wells. These changes to the RFI will be documented in an Addendum to the RFI Work Plan, which will be prepared during the next reporting period. No other changes were made to the GM Bedford Facility RFI Work Plan during this reporting period. Any changes made to the Work Plan during the next reporting period will be included in the next Quarterly Progress Report.

## **5.0 COMMUNITY RELATIONS**

Representatives from GM have met individually with property owners to discuss the results of sampling activities on their property. GM also held a meeting with invited property owners in the affected area on March 19, 2002. This meeting covered technical, health, property and communications information.

On January 9, 2002, GM met with the Bedford City Council to update them on the project. GM conducted an interview regarding the site with WTIU TV on January 10, 2002. In addition, the local newspapers have published several articles on the environmental activities at the site.

Ongoing community relations are conducted by GM by maintaining the toll free information telephone number. Additional information meetings will be held with residents in the future and individual meetings continue to be arranged to discuss sampling results with individual residents. GM has also been providing updates on the status of the project to its employees and to local, state and federal officials.

## **6.0 CHANGES IN PERSONNEL DURING THE REPORTING PERIOD**

Mr. Edward Peterson was added to the project team during the last reporting period replacing Ms. Jean Caufield. This change was due to re-assignments of responsibilities within GM. **Attachment 2** presents the revised Project Team matrix.

A summary of key project personnel was included in the Community Relations Plan submitted June 6, 2001. Any changes in personnel during the next reporting period will be presented in the next Quarterly Progress Report.

## **7.0 PROJECTED WORK FOR THE NEXT REPORTING PERIOD**

Site investigation activities from the RFI Work Plan and additional stream field sampling activities are expected to continue during the next reporting period. Potential interim measures will continue to be evaluated.

**8.0 COPIES OF DAILY REPORTS, INSPECTION REPORTS,  
LABORATORY/MONITORING DATA**

**Attachment 3** presents laboratory report from Severn Trent Laboratories containing analytical results from one of the residential wells sampled during this reporting period. Final analytical results have not been received for the remaining wells, and will be included in the next progress report.

Packages of analytical data from the stream sampling have been sent under separate cover, and will continue to be sent during the next reporting period. All data will be summarized in tables and sent to the agencies once completed.



**Attachment 1**  
**Proposed Sample Locations Figure**



**Attachment 2**  
**Project Team Organization**

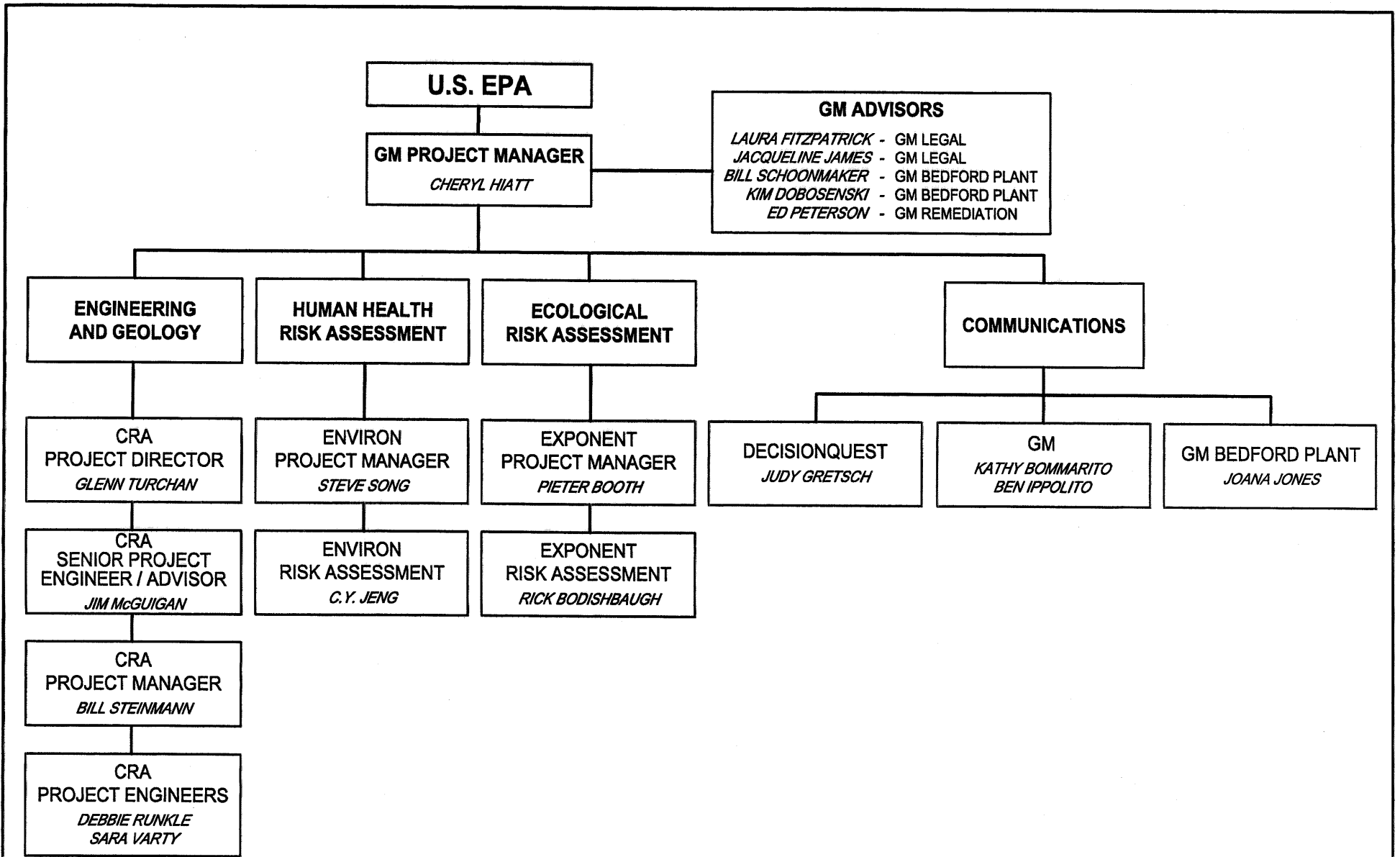


figure 1.2

PROJECT TEAM ORGANIZATION  
GM POWERTRAIN BEDFORD FACILITY  
Bedford, Indiana



**Attachment 3**  
**Severn Trent Laboratory Report**

REC'D CBA  
MAR 27 2002  
CBA SDG 18



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

## ANALYTICAL REPORT

PROJECT NO. 013968

GMPT BEDFORD

Lot #: A2B130106

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2B130106

SEVERN TRENT LABORATORIES, INC.

Name: Bedford

Description

Event: GW Sampling

Samples: I-W (2/12-001)

Analysis: PCB

T: 2 wk

Lab: STL

Checked Against Reference Data:

Date: 3/27/02 Init: mc

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

March 26, 2002

# CASE NARRATIVE

A2B130106

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received February 13, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on March 22, 2002.

## Sample ID Cross Reference

CRA  
GW-021202-314012-JK-001

STL  
A2B130106-001

Aqua Tech  
MEL02-01700



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 11-Mar-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-01700

Your Sample ID: A2B130106-1

Date Logged In: 2/14/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 2/14/2002

PO#: SR036496

## - COLLECTION INFORMATION -

Date/Time/By: 2/12/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	2/18/02	2/21/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l 45	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l 45	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l 45	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l 45	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l 45	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l 45	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l 45	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01700	508	Decachlorobiphenyl (Surr)	10 %R *	70	130
		Low surrogate recovery.			
MEL02-01700	508	Tetrachloro-m-xylene (Surr)	48 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2B130106-1

Lab Number MEL02-01700



Laboratory: Aqua Tech Environmental Labs  
PO BOX 436

Severn Trent Laboratories, Inc  
SAMPLE ANALYSIS REQUISITION  
Lab Request SR036496

Report Package: Expanded Deliverables  
Need Analytical Report 2002-02-27

MARION, OH 43301-0436

Client Code: 57787

Project Manager: AMY MCCORMICK 330-966-9787

<u>Sample I.D.</u>	<u>Work Order Number</u>	<u>Client Sample ID</u>
A2B130106-1	ET2H7	GW-021202-314012-JK-001

<u>Sampling Date</u>	<u>Analysis Required</u>
2002-02-12	<u>508 DRINKING WATER PCB</u>

01700 (AB)

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: [Signature] Date/Time: 2-13-02 0930

Relinquished by: [Signature] Date/Time: 2-14-02 11:00

Received by: S. Loach Date/Time: 2-14-02 11:00

Shipping Method: COURIER

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

A.T.E.L. (IN CARE OF S.T.L. NORTH CANTON)

PAGE 1/1  
COOLER: H158

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

013968

PROJECT NAME:

GMPT BEDFORD

SAMPLER'S SIGNATURE: *Jeff Kolodziejcki*

PRINTED NAME: JEFF KOLODZIEJSKI

No. OF CONTAINERS

PARAMETERS

PCB's

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
	2/12/02	1150	<del>GW-16-021202-JK-001-2/12/02</del> GW-021202-314012-JK-001	WATER	2	X	
(The rest of the table is crossed out with a diagonal line.)							

TOTAL NUMBER OF CONTAINERS 2

RELINQUISHED BY: *Jeff Kolodziejcki*

DATE: 2/12/02  
TIME: 1700

RECEIVED BY:

DATE:  
TIME:

RELINQUISHED BY:

DATE:  
TIME:

RECEIVED BY:

DATE:  
TIME:

RELINQUISHED BY:

DATE:  
TIME:

RECEIVED BY:

DATE:  
TIME:

METHOD OF SHIPMENT: COURIER

AIR BILL No.

White - Fully Executed Copy  
 Yellow - Receiving Laboratory Copy  
 Pink - Shipper Copy  
 Goldenrod - Sampler Copy

SAMPLE TEAM:  
J.K., M.D.

RECEIVED FOR LABORATORY BY:

*[Signature]*

DATE: 2-13-02 TIME: 0800

07593