

# RCRA CORRECTIVE ACTION

## GM POWERTRAIN BEDFORD FACILITY, BEDFORD, INDIANA

### September 30, 2005

#### INTRODUCTION

General Motors Corporation (GM) is undertaking Resource Conservation and Recovery Act (RCRA) Corrective Action at the GM Powertrain – Bedford Facility (Site) in Bedford, Lawrence County, Indiana under a Performance Based Agreement (Agreement) with U.S. EPA Region V, signed on March 20, 2001 and amended October 1, 2002. Removal Actions along Bailey's Branch and Pleasant Run Creek are being completed under an Administrative Order on Consent (AOC) with the U.S. EPA Region V. The effective date of the AOC is July 31, 2003. The AOC is being utilized to expedite the implementation of the cleanup of areas off of the Facility property. This is the twelfth Project Fact Sheet that has been prepared to provide the community with information regarding activities being performed at the Site.

#### SITE BACKGROUND

The Site is located at 105 GM Drive in Bedford, Indiana, on approximately 152.5 acres of land. The Site currently produces aluminum casting products, such as transmission casings, pistons, and engine blocks, within approximately one million square feet of operating floor space. The Bedford Site was originally constructed in the early 1900's as a limestone milling operation. The U.S. Government purchased the mill in 1942, converting the Site to an aluminum aircraft engine foundry, which was operated by GM. GM purchased the property after World War II and has continued to operate the Site as an aluminum foundry as part of various GM operating divisions. Project Fact Sheets will be issued periodically by GM during the implementation of the Corrective Action program to keep the community informed of ongoing activities at the Site.

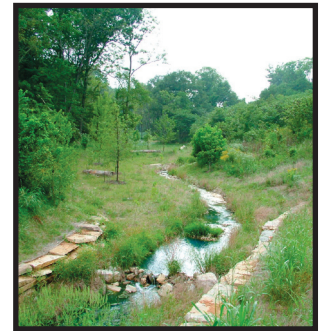
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Creek Bed Power Washing



East Plant Vault Excavation



Restoration West of Bailey Scales Road

THE FOLLOWING DOCUMENTS HAVE BEEN SUBMITTED TO THE U.S. EPA AND IDEM AND ARE AVAILABLE FOR REVIEW IN THE PUBLIC REPOSITORIES AND ONLINE

#### VOLUNTARY CORRECTIVE ACTION AGREEMENT

- Agreement for Corrective Action – March 20, 2001

#### FACILITY INVESTIGATION (RFI) REPORTS

- Current Conditions Report (CCR) - May 25, 2001
- Community Relations Plan - June 6, 2001
- Health and Safety Plan (HASP) – November 16, 2004
- Quality Assurance Project Plan (QAPP), Preliminary RFI Activities - July 18, 2001
- RCRA Facility Investigation (RFI) Work Plan - October 29, 2001
- QAPP, RFI Work Plan - November 5, 2001
- RFI Work Plan Addendum No. 1 - November 18, 2002
- RFI Work Plan Addendum No. 2 - May 22, 2003
- RFI Work Plan Addendum No. 3 - March 23, 2004
- RFI Work Plan Addendum No. 4 - May 6, 2004
- RFI Work Plan Addendum No. 5 - July 26, 2004
- RFI Work Plan Addendum No. 6 - September 27, 2004
- RFI Work Plan Addendum No. 7 - November 23, 2004
- RFI Work Plan Addendum No. 8 - March 11, 2005
- RFI Work Plan Addendum No. 9 - July 5, 2005
- RFI Work Plan Addendum No. 10 - August 19, 2005
- RFI Work Plan Addendum No. 11 - August 17, 2005
- Environmental Indicator CA 725 Report - January 24, 2005
- Technical Memorandum RCRA Facility Investigation (RFI) Soil; Sediment; Surface Water; Wipe Sampling - April 18, 2005

#### INTERIM MEASURE WORK PLANS

- Western Tributary Interim Measure Work Plan - December 15, 2004
  - Interim Measures Alternatives Review Report - East Plant Area - April 13, 2005
  - Final Design - Grading Areas 1& 2 - June 10, 2005
- #### STREAM INVESTIGATION REPORTS
- Stream Investigation Work Plan - June 6, 2001
  - Stream Investigation Field Sampling Plan - September 21, 2001
  - Bedford RFI Technical Memorandum No. 1 - March 19, 2002
  - Stream Investigation High Flow Sampling Memorandum - May 12, 2002
  - Bedford RFI Technical Memorandum No. 1 Addendum - March 27, 2003
  - Technical Memorandum Phase II Stream Investigation - February 11, 2003

#### OFF-SITE WELL INVESTIGATION REPORTS

- Off-Site Well Survey and Sampling Work Plan - June 6, 2001
- Technical Memorandum Off-Site Residential Well Survey and Sampling - December 9, 2002

#### QUARTERLY PROGRESS REPORTS

- 1 through 17

#### PROJECT FACT SHEETS

- Project Fact Sheets 1 through 12

#### PUBLIC PRESENTATIONS

- January 28, 2004 through June 2, 2005

#### ADMINISTRATIVE ORDER ON CONSENT

- AOC for Removal Action - July 31, 2003

#### REMOVAL ACTION WORK PLANS

- Parcel 22 Removal Action Work Plan - July 18, 2003
  - Parcel 22 and Downstream Parcels Removal Action Work Plans: Addendum No. 1 - April 26, 2005
  - Upstream Parcels Removal Action Work Plan - July 18, 2003
  - Upstream Parcels Removal Action Work Plan: Addendum No. 1 - November 25, 2003
  - Upstream Parcels Removal Action Work Plan: Addendum No. 2 - March 23, 2004
  - Upstream Parcels Removal Action Work Plan: Addendum No. 3 - May 11, 2004
  - Upstream Parcels Removal Action Work Plan: Addendum No. 4 - June 30, 2004
  - Upstream Parcels Removal Action Work Plan: Addendum No. 5 - October 2, 2004
  - Downstream Parcels Removal Action Work Plan - May 25, 2004
  - Site Source Control (SSC) Work Plan - November 5, 2003
  - SSC Work Plan: Addendum No. 1 - April 21, 2004
  - SSC Work Plan: Addendum No. 2 - October 1, 2004
  - SSC Work Plan: Addendum No. 3 - November 17, 2004
  - Final Proposed Modification to the Ambient Air Quality Monitoring Plan - November 23, 2004
  - Master Creek Channel, Vegetation, and Habitat Restoration Plan - November 26, 2004
- #### CERCLA MONTHLY PROGRESS REPORTS
- July 2003 through August 2005
- #### MAPS
- Pleasant Run and Bailey's Branch Creek Areas - June 14, 2002
  - Stream Investigation Summary Maps (Study Areas 1 through 10) - August 9, 2002

Please direct any questions about this project to Ms. Becki Akers of GM by phone (toll free) at 1-866-223-0856 or by e-mail at [becki.akers@gm.com](mailto:becki.akers@gm.com). U.S. EPA and IDEM contact information is provided on the next page.



## RCRA CORRECTIVE ACTION UPDATE

GM has continued discussions with U.S. EPA and IDEM regarding a cleanup remedy for the plant property east of GM Drive. This area was historically used for plant waste management activities. GM has developed an Interim Measure, which the U.S. EPA sent out for a Public Comment from May 31 to July 14, 2005. This Interim Measure has been approved in concept by the U.S. EPA (each component's detailed design will also be reviewed and approved by U.S. EPA). Components of the proposed Interim Measure include soil removal of areas with greater than 50ppm PCBs (the soil to be placed in an on-site vault), a cover system to prevent people from contacting the remaining soil materials and limit rain water infiltration, the use of select low-level PCB soil from the off-site removal work as grading soil below the low permeability cover system, a groundwater collection trench installed into the bedrock around the northern, eastern, and southern perimeter of this area, and a groundwater source removal system in the former process lagoon 4 area. Long-term maintenance and monitoring would also be performed to ensure the selected remedy remains protective into the future.

GM has also been conducting additional on-site investigations in support of the East Plant Area remedy. These investigations have involved further delineation of the fill materials, bedrock coring, and geophysical surveys. Dye trace testing of the groundwater in the East Plant Area is also being conducted in order to determine potential contaminant migration pathways from historical waste management areas. Additional dye trace tests will also be completed in the near future, and the results will be incorporated into the final design of the groundwater collector trench.

## OFF-SITE ACTIVITIES

The U.S. EPA and GM signed an Administrative Order on Consent (AOC), which became effective July 31, 2003. The AOC has been entered jointly and voluntarily by the U.S. EPA and GM for the Removal Action to expedite the implementation of the cleanup work in the creeks.

The Removal Action has been undertaken to clean up PCB-contaminated sediment and floodplain soil within Bailey's Branch and the Pleasant Run Creek watershed. This area includes approximately 5 miles of creek that runs from the GM Bedford Facility Outfall downstream to approximately the Old Murdoch railroad trestle. Both the creek bed and the adjacent floodplain areas are a part of the Removal Action activities. The objectives of the AOC are to control any potential ongoing releases to the creek, and to remove sediment and soil present at levels above the cleanup criteria. The soil cleanup criteria is the State default residential standard of 1.8 part per million (ppm). The sediment cleanup criteria is 1 ppm.

The first components of the cleanup activities began in April 2003, with the cutting of larger trees on several of the upstream properties. Soil and sediment removal activities began in the upstream areas, on and adjacent to the GM Bedford Facility, in September 2003, and have continued throughout 2004 and 2005. The upstream removal contractor, Severson, has advanced removal of soil and sediment, along the creek channel and floodplain, to approximately 5,500 feet downstream of the Outfall 002 and continues to excavate downstream north toward Broomsage Road. ENTACT, the contractor for the cleanup in the

downstream section (north of Broomsage Road) has advanced removal of soil and sediment, along the creek channel and floodplain, to approximately 4,400 feet and will continue in a northerly and westerly direction. ENTACT has also begun construction of Diversion Channel No. 2. The diversion channel is constructed to temporarily re-route creek water around the work areas so that excavation activities can occur under dry conditions. The creek channel will be returned to its original course once cleanup and restoration have been completed.



**DIVERSION CHANNEL**

To date, over 326,500 tons of soil and sediment exceeding the cleanup criteria have been removed, tested, and disposed off-site to permitted landfills, or transferred into the East Plant Area as part of the Interim Measure. Two initial grading areas have been constructed in the East Plant Area to manage this material until the cover system is constructed. Air monitoring is conducted around all the removal activities required by the approved work plans. Restoration activities are following behind these removal activities as work progresses downstream.

In addition to soil and sediment removal an activity, GM has installed seep and spring controls to collect groundwater on GM's property east of GM Drive. These systems collect water that has been impacted by PCBs to prevent the potential for recontamination of the creek.

Maintenance of local truck traffic routes is an important aspect of the ongoing project. GM continues to monitor and repair and/or replace roadway surfaces when necessary. GM has met with residents along the truck traffic routes and will continue to meet with the residents to address their concerns. A local hot-line has been established for residents to call if they have any truck traffic concerns. Please contact the truck traffic issues coordinator, Shelly Gould at 812-279-0977.

PCB warning signs have been posted at various locations along the creek. These signs will remain in those areas until the cleanup has been completed in those areas. GM continues to caution the public to avoid the creek and floodplain areas and to keep animals and pets away from the creek until the cleanup has been completed.

## UPCOMING FIELD ACTIVITIES

The Removal Action will continue downstream throughout the remainder of 2005 and into 2006. The approved Site Source Control Work Plan (which includes spring and seep monitoring) is being implemented and will be amended if new seeps and springs impacted with PCBs are encountered. Work on the East Plant Area will continue through the year.

GM is continuing to address specific requests from residents for additional sampling based on location of the property relative to the Facility and/or creek

contamination. Analytical results from these requests are included in project data packages and are distributed to the property owners and agencies as the results are obtained.

## GENERAL UPDATE

A meeting was held with owners of property on and adjacent to the creek on June 1, 2005, and a general community meeting was held the next evening. These meetings provided information on the status of the cleanup and on the East Plant Area proposed remedy. The presentations for these meetings, as well as past meetings are posted to the project website at: [www.BedfordPowertrainCorrectiveAction.com](http://www.BedfordPowertrainCorrectiveAction.com)

The next public meeting is scheduled for October 6, 2005. An information repository has been established where project-related documents, which include the Community Relations Plan, are available for public review. A complete list of available project documents is provided on Page 1 of this Fact Sheet.

PUBLIC ACCESS WEB SITE IS AVAILABLE AT [www.BedfordPowertrainCorrectiveAction.com](http://www.BedfordPowertrainCorrectiveAction.com) (Get up-to-date project information and view project related documents.)

The Community Liaison Panel (CLP) has met periodically since September 2002 to discuss community concerns and involvement with the GM Bedford Corrective Action project. These meetings will continue during 2005. The names of members and meeting minutes have been posted on the public website and are available at the information repository.

The information repository is located at:  
Bedford Public Library  
1323 K Street  
Bedford, Indiana  
Tel: (812) 275-4471

An Information Center has also been established in the GM Powertrain lobby at the Bedford Facility on GM Drive. This Information Center can be viewed by appointment (Contact Becki Akers).

## CONTACT INFORMATION

If you would like more information about this project, please contact any of the following:

### U.S. EPA

Peter Ramanauskas  
- for general information and on-site work  
Tel: (312) 886-7890  
Brad Stimple  
- for creek cleanup work Tel: (440)250-1717

### GM

Becki Akers Tel: (866) 223-0856 (toll-free)

### IDEM

Gerald O'Callaghan Tel: (317) 233-1522

### ATSDR

Clayton G. Koher Tel: (312) 886-0840

## TRUCK TRAFFIC COORDINATOR

Shelly Gould (812) 279-0977