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ENCORE PROJECT SUMMARY FORM

Revision No. 3 Revision Date: 6/12/08

GENERAL INFORMATION

Site Name: Site No.: Site Address:	Lansing Plant 3 126 920 Townsend 9 Lansing, MI 48921	Street		
Site Type:	Superfur Operatin Other	ıd g Plant		Inactive/Sold Closed Plant
Site Program:	☑ Federal☑ Voluntar☑ Other	у		State Transaction Agreement
Regulatory Oversight:	🛛 Yes 🗌 No			
GM Program Manager:	Name: Phone No.: E-mail:	Fred Rindhage (248) 753-5790 <u>fred.w.rindhag</u>	e@gm.co	<u>om</u>
GM Project Manager:	Name: Phone No.: E-mail:	Kurt Blizzard (517) 885-1155 <u>kurt.blizzard@</u> g	<u>gm.com</u>	
Other GM Personnel Working on Project:	Name: Phone No.: E-mail: Name: Phone No.: E-mail:	Jean Caufield (248) 753-5774 jean.e.caufield@	gm.com	

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GENERAL INFORMATION (CONTINUED)

Consultant (If Any): Firm Name: ARCADIS of New York, Inc. (formerly Blasland, Bouck and Lee) 10599 Citation Drive, Suite 100 Address: Brighton, MI 48116 Contact Name: Amy Hoeksema Phone No.: 810.225.1911 (Direct), 734.604.4562 (Mobile) Firm Name: Conestoga-Rovers and Associates, Inc. 2055 Niagara Falls Blvd., Suite #3 Address: Niagara Falls, NY 14304 Contact Name: Craig Gabriel Phone No.: 716.297.6150 Firm Name: **ENVIRON** International Corporation Address: 4350 North Fairfax Drive, Suite 300 Arlington, VA 22203 Rich Kapuscinski Contact Name: 703.516.2300 Phone No.: Firm Name: Exponent, Enc. 4875 Pearl East Circle, Suite 201 Address: Boulder, CO 80301 Contact Name: Linda Ziccardi 303.544.2000 Phone No.: Contractor (If Any): Firm Name: Address: Contact Name: Phone No.: Firm Name: Address: Contact Name: Phone No.:

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GENERAL INFORMATION (CONTINUED)

Agency Contact:			
0 0	Agency Name:	MDEQ, WHMD, Lasing District Office	
	Address:	525 W. Allegan St.	
		P.O. Box 30241	
		Lansing, MI 48909-7741	
	Contact Name:	Jack Schinderle	
	Phone No.:	(517) 373-8410	
Consultant ENCORE C	<i>Contact:</i> Name: Phone No.: E-mail:	Amy Hoeksema 810.225.1911 (Direct), 734.604.4562 (Mobile) amy.hoeksema@arcadis-us.com	

END OF GENERAL INFORMATION

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SITE INFORMATION

Manufacturing/Operating History:

The oldest structures were constructed in the 1930s. Early facility operations, though not well documented, involved different aspects of automobile parts manufacturing. Between 1945 and 1985, the facility manufactured bumpers, rear axle shafts and housings, differentials, exhaust manifolds, and various pressed metal parts. Most recently the facility produced various pressed metal parts. The Plant #3 facility was taken out of operation in November 2006. Currently, the plant is undergoing decommissioning and demolition.

Current Owner/Operator:

Company Name:	General Motors Corporation			
Address:	920 Townsend St.			
	Building 66, MC 489-066-055			
	Lansing, MI 48921			
Contact Name:	Kurt Blizzard	Phone No.:	517-885-1155	
		-		

ENCORE Contractual Responsibilities: (if not owned by GM/ENCORE)

Property Description:

Size: 104 Acres Zoning: Industrial

Surrounding Landuse/Zoning: (Attach Map, if available)

North:	Commercial / Industrial
South:	Industrial (GM, Lansing, Plant 2)
East:	Residential / Commercial / Industrial
West:	Residential / Commercial

END OF SITE INFORMATION

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REGIONAL INFORMATION

Topographic Description:

The surface topography of the greater Lansing area is generally described as a flat-lying to gently rolling glacial till (or drift) plain. Surface elevations near the Plant 3 facility are in the range of 830 to 890 feet above sea level. The lower elevations coincide with the local Grand River drainage basin.

Geologic Description:

Overburden:	 The overburden is predominantly composed of; a silty clay unit with discontinuous lenses of silt, sand and gravel and is approximately 20 to 40 feet thick; and interbedded sand, silty sand, silt and clay unit approximately 50 to 60 feet thick A thin (approx. 1 foot thick) layer of clay and weathered bedrock (shale) is sometimes present at the overburden/bedrock contact.
Bedrock: (If Appropriate)	The Pennsylvanian-age Saginaw Formation underlies the overburden. The formation thickness ranges from 250 to 500 feet and is composed of sandstone with shale partings. The depth to the bedrock varies at the site from 70 to 90 feet below ground surface.

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REGIONAL INFORMATION (CONTINUED)

Hydrogeologic Description:

Overburden:	Perched groundwater in several localized areas is encountered at depths ranging from 10 to 20 feet below ground surface. Groundwater can be encountered in thin zones within the interbedded sand, silty sand, silt, and clay unit.
	The water table surface in the overburden is approximately 55 to 75 feet below ground surface.
Bedrock: (If Appropriate)	The water level in the bedrock is approximately 70 to 80 feet below ground surface.

Groundwater Usage:

Site Usage: (If Any)	None
Regional Usage: (If Any)	The Saginaw Formation supplies potable water for the Greater Lansing area. The Lansing Board of Water and Light operates over 100 municipal supply wells throughout Lansing. The closest municipal pumping wells are located approximately 200 feet from the site.

Hydrologic Description: (include Map if appropriate)

The majority of the Site is paved and storm water is controlled by sewer systems.

END OF REGIONAL INFORMATION

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OVERALL PROJECT TEAM ORGANIZATION/RESPONSIBILITIES

AREA/UNIT OF CONCERN: RCRA Corrective Action Area

Area/Unit of Concern Project Description	Team Players			
	Name	Company	Role	
(COPY FROM AREA/UNIT OF CONCERN PROJECT SUMMARY) Previous closures completed at the	Jean Caufield	GM	Program Manager	
Plant #3 UST areas rely on deed restrictions.	Kurt Blizzard	GM	Project Manager	
In general the entire site, including the	Amy Hoeksema	ARCADIS	LLC Project	
Former Plating Area currently under			Manager	
investigation and the UST areas, as	Craig Gabriel	CRA	Database Manager	
necessary, will be evaluated through a				
RCRA Corrective Action to assess	Rich Kapuscinski	ENVIRON	Human Health	
areas of interest (AOIs) related to			Risk Assessment	
potential environmental concerns.	T ' 1. 77'	Europent	Easlarial Disk	
	Linda Ziccardi	Exponent	Assossment	
			Assessment	

(COPY AND COMPLETE ABOVE FOR EACH AREA/UNIT OF CONCERN)

The former Plant 3 UST area needs to be reviewed annually to ensure compliance with the existing restrictive covenant.

During 2008 a Voluntary Corrective Action Agreement will be negotiated and signed between GM and the Michigan Department of Environmental Quality (MDEQ).

During 2008 and 2009, Current Conditions Report and RCRA Facility Investigation (RFI) Work Plan will be completed, and initial phase of RFI will be conducted.

END OF OVERALL PROJECT TEAM ORGANIZATION/RESPONSIBILITIES

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AREA/UNIT OF CONCERN (COMPLETE FOR EACH SEPARATE AREA OR UNITAT THE SITE)

NAME OF AREA/UNIT OF CONCERN: RCRA Corrective Action Area

Area/Unit Status:	 Inactive Due Diligence Investigation Remedial Design Remedial Action O&M Other 		
Area/Unit Program:	 Federal Voluntary Other 		
Specific Media of Concern	Soil (Human or Ecologic) Human Surface Water (Human or Ecologic) Ecological Sediments (Human or Ecologic) Ecological Groundwater (Human or Ecologic) Human Air (Human or Ecologic) Human		
Specific Chemicals of Con	cern: X VOCs X SVOCs		
Project Summary: (Attach Figure)Previous closures completed at the Plant #3 UST areas rely on deed restrictions because concentrations of VOCs and SVOCs remain in place above applicable criteria. In general, the entire site will be evaluated through a RCRA Corrective Action to assess areas of interest (AOIs) related to potential environmental concerns. A Voluntary Corrective Action Agreement is going to be entered into with the MDEQ.			
High Priority Issues/ Action Items:	During 2008 and 2009, the RCRA Corrective Action activities will continue with a revision of the restrictive covenant, completion of a Current Conditions Report, and completion of the RFI Work Plan. The implementation of the RFI Work Plan is anticipated to begin in Fall 2008.		

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AREA/UNIT OF CONCERN RCRA Corrective Action Area

Long-Term Summary: (to Project Completion)

Goals - Reasonable:

By January 1, 2013, all current human exposures to contamination at or from the Facility are under control.

By January 1, 2014, migration of contaminated groundwater at or from the Facility is stabilized.

- Stretch:

By October 1, 2012, all current human exposures to contamination at or from the Facility are under control.

By October 1, 2013, migration of contaminated groundwater at or from the Facility is stabilized.

Strategy to Achieve Long-Term Goals:

- Enter into a Voluntary Agreement with the MDEQ by 8/1/2008
- Prepare a Current Conditions Report to be submitted to the MDEQ by 7/15/2008
- Prepare a RFI Work Plan to be submitted to the MDEQ by 9/2/2008
- Begin the implementation of the RFI Work Plan by 10/13/08

Schedule: (attach Figure, if appropriate)

Schedule as provided in project memorandum and subsequent change orders.

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AREA/UNIT OF CONCERN RCRA Corrective Action Area

Short-Term Summary: (Next Calendar Year)

Goals - Reasonable:

Begin the implementation of the RFI Work Plan by 10/13/08

- Stretch:

Begin the implementation of the RFI Work Plan by 9/15/08

Strategy to Achieve Short-Term Goals:

Submit the RFI Work Plan to the MDEQ by 9/2/08

Schedule (attach Figure, if appropriate):

Schedule as provided in project memorandum and subsequent change orders.

Summary of Work Activities Planned for Next Year:

Continue implementing the RFI Work Plan.

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AREA/UNIT OF CONCERN RCRA Corrective Action Area

- 1. Is financial assurance required for this project? Yes No X If No, proceed to next section.
- Confirm that the detailed cost estimate associated with the financial assurance requirements was reviewed during this past year to determine whether revisions (other than adjustments for inflation made by WFG Finance) are appropriate. Yes No
 If revisions are appropriate, please refer to "Preparation of Cost Estimates for REALM and ENCORE Projects" Section in the REALM APM and ENCORE APM.
- 3. Provide the date of the most current agency approved cost estimate associated with financial assurance and the title and date of the document that contains it.

Cost estimate amount: _____ Date of cost estimate: _____ Title of document: _____ Date of document:

 Provide the title and date of the agency approval document for the above referenced cost estimate. Title of document:

Date of document:

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AREA/UNIT OF CONCERN RCRA Corrective Action Area

Potential Concerns/Factors Influencing Project Completion/Cost

An agreement has not yet been made between the MDEQ and GM that will govern the site closure. The terms of the agreement could affect the costs of the project.

An approval of the RFI Work Plan with GM's Screening based sampling approach in a timely manner will affect the schedule and cost of this project.

Other (Needs/Wants/Resources and Schedules, etc.)

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AREA/UNIT OF CONCERN RCRA Corrective Action Area

<i>Work Activities:</i> Planned for Upcoming Year	Activity	Time Period	Bid Date
1 0	Current	7/08	
	Conditions	,	
	Report		
	RFI Work Plan	9/08	
	Begin	10/08	
	Implementing		
	the RFI		
Activities Where:	Activity	Time Period	Other Site(s)
Synergies with Other Sites	RCRA	2008-2009	Plant 1, 2 & 6
, ,	Corrective		
	Action		
may Exist for Upcoming Year			

END OF AREA/UNIT OF CONCERN