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Subject:
Phase II ESA Summary Data Report
General Motors Corporation - Pittsburgh Metal Center
1451 Lebanon School Road
West Mifflin, PA 15122

Date:
October 30, 2007

Dear Mr. Rindhage:

ARCADIS BBL is pleased to present this Summary Data Report of Phase II Environmental Site Assessment (ESA) activities conducted at the General Motors Corporation (GM) Pittsburgh Metal Center located at 1451 Lebanon School Road in West Mifflin, Pennsylvania (Site; Figure 1).

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BACKGROUND AND SETTING

The Site consists of an approximate 927,000-square foot metal stamping facility situated on 72 acres of land. Development and construction of the Site occurred from 1949 to 1950, with several expansions occurring thereafter. Since that time, primary Site activities have been machining, stamping and welding of metal sheets and subassembly of various car components for shipment to other GM facilities.

Our ref:
B0064490

In April 2007, ARACADIS BBL conducted a Phase I ESA of the Site, which resulted in the identification of preliminary findings which were further described as Potential Areas of Concern (PAOCs), Potential Areas of Release (PAORs), and other environmental issues. To investigate findings of the Phase I ESA, ARCADIS BBL conducted Phase II ESA activities at the Site from June through August 2007. During the completion of Phase II ESA activities, additional PAOCs and PAORs were identified. In total, fourteen (14) PAOCs, twenty (20) PAORs, and nine (9) other environmental issues have been identified at the Site. Site features, facilities, and the locations of the PAOCs and PAORs are shown on Figure 2.

During development of the Site in 1949, a large area was carved out of the side of a hill in order to achieve a level grade. This resulted in steeply sloping erosion/cut

Imagine the result

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bedrock in the southwest and western portions of the Site. In addition, bedrock was blasted or carved in other areas to facilitate installation of the building basement, process pits and other subsurface features. The depth to bedrock ranges from a few feet below ground surface to greater than 31 feet, and generally increases from the southwest to the northeast. The bedrock is composed of inter-bedded shale, siltstone, mudstone, sandstone, and some coal. Phase II ESA investigation activities focused on overburden soil and groundwater.

Published reports indicate that the regional groundwater flow (bedrock) is north and east toward Curry Hollow Creek and the Monongahela River (~1 mile from the Site). Groundwater encountered in overburden during Phase II ESA activities does not appear to be continuous across the Site. The groundwater flow in the overburden has yet to be determined; it is assumed to be to the north and east (partial radial) based on location of surface water bodies and topography. However, a hydrogeologic investigation would be required to make a more definitive determination of the localized groundwater flow direction.

PHASE II ESA ACTIVITIES

Phase II ESA activities were conducted to screen for the presence of contaminants at the thirteen (13) of the PAOC locations and seventeen (17) of the PAOR locations. Samples were not collected from PAOR #1, as additional Phase I ESA investigation activities revealed that the suspect pipeline has been used to transport high-pressure natural gas. Supplemental Phase II/III ESA activities are being planned to investigate the remaining PAOC and two PAOR locations that were identified during the implementation of the Phase II ESA, and to further investigate the Site based on the results of initial Phase II ESA activities. Phase II ESA activities consisted of collecting soil, sediment, groundwater, and/or light non-aqueous phase liquid (LNAPL) grab samples from PAOC and PAOR locations, as well as sediment samples from Curry Hollow Creek. Table 1 of this report summarizes each PAOC/PAOR and presents a summary of the Phase II ESA sampling program.

The analytical results from Phase II ESA activities are presented in Tables 2-5. The analytical data are preliminary and will not be made final until the completion of the data validation process. Analytical results are compared to Pennsylvania and referenced federal cleanup criteria, which have been initially selected based on the Site's non-residential use in an apparent non-used aquifer area. The comparison of the data to the selected criteria tables was used as a screening tool to determine if a release had occurred and if additional investigation/reporting may be warranted.

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Comparisons to the selected criteria screening tables should not be considered final until all potential exposure pathways have been confirmed or eliminated, and concurrence on applicable criteria determinations has been received from the regulating agency. The Pennsylvania Department of Environmental Protection (PADEP) administers several remediation programs, and in most circumstances would have jurisdiction for investigation and cleanup activities at the Site.

A summary of the results of Phase II ESA activities is presented in the subsequent paragraphs.

Soil Investigation and Results

The scope of work for Phase II ESA activities included the collection of soil samples from select PAOCs/PAORs. Soil samples were collected from various depths and submitted for laboratory analysis to Test America in Pittsburgh, Pennsylvania for analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), metals, pesticides, herbicides, total petroleum hydrocarbon (TPH), and/or ethylene glycol. The depth interval selected at each soil boring and the laboratory analysis requested was dependent on the individual PAOCs or PAORs. Analytical results for soil samples were screened against selected criteria.

Selected criteria for soil samples include Soil-to-Groundwater Non-Use Aquifer Non-residential Criteria (soil-to-groundwater criteria), Direct Contact Non-Residential Criteria (direct contact criteria), and Non-Residential Soil Screening Values for Indoor Air (indoor air criteria) as referenced from Pennsylvania Act 2 Statewide Health Standards. A location where a regulated gasoline underground storage tank (UST) previously existed (PAOC-04) was also compared to the PADEP Tank Program's Closure Requirements for UST Systems, Unsaturated Soil Standards for Non-Residential Sites (UST closure criteria; April 1, 1998).

Soil boring locations and soil data which exceed selected criteria are presented on Figures 3A and 3B. TPH detections in soil are presented on Figure 4. Complete soil analytical results are presented in Table 2.

VOCs, Metals, Pesticides, Herbicides, and Ethylene Glycol

During the completion of the Phase II ESA, soil samples that were collected and analyzed for VOCs and metals did not exceed any of the selected criteria.

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SVOCs/PAHs

Soil samples collected and analyzed for SVOCs/PAHs exceeded the non-residential PADEP Act 2 soil-to-groundwater criteria at nine (9) PAOC locations (PAOC-02, -03, -04, -05, -06, -09, -10, -24, and -27) and nine (9) PAOR locations (PAOR-07, -11, -13, -15, -17, -20, -21, -26, and -31). However, with the exception of PAOCs -02, -04, 09, and -20, the corresponding groundwater grab sample at these PAOC and PAOR locations did not exceed selected criteria for SVOCs/PAHs at locations where groundwater was encountered.

PCBs

Soil samples collected and analyzed for PCBs exceeded the non-residential PADEP Act 2 soil-to-groundwater screening criteria in nine (7) PAOCs (PAOC-05, -06, -10, -22, -23, -25, and -27) and five (5) PAORs (PAOR-07, -08, -17, -20 and -21. However, except for PAOC-08 and PAOR-20, the corresponding groundwater grab sample did not exceed the selected criteria for PCBs at each of these PAOC or PAOR locations where groundwater was encountered.

PCBs (Aroclor 1254) were detected at 51 milligrams per kilogram (mg/kg) at soil boring location P06SB-05 in the sample from the 0 to 2-foot interval. This exceeds the non-residential PADEP Act 2 soil direct contact criteria for the 0 to 2-foot interval of 44 mg/kg.

TPH

Soil samples were collected and analyzed for TPH from 29 of the PAOC/PAOR locations. The detected values ranged from not-detected (concentration less than the method detection limit) to 27,400 mg/kg. TPH was detected at P20SB-05 (0-2') and P07SB-01 (8.5-9.5') at concentrations of 27,400 mg/kg and 18,900 mg/kg, respectively. TPH was detected in soil samples exceeding 1,000 mg/kg collected in 13 of the PAOCs or PAORs. There are no potentially applicable criteria for TPH. However, TPH was used as an indicator of a potential release of petroleum during this investigation, with elevated concentrations of TPH potentially indicating the presence of free product.

Groundwater Investigation and Results

The scope of work for Phase II ESA activities included the collection of overburden groundwater grab samples obtained from temporary well-points at soil boring locations, as well as from monitoring wells which were installed at select locations

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adjacent to soil borings based on observations. Groundwater grab samples were submitted for laboratory analysis to Test America in Pittsburgh, Pennsylvania for VOCs, SVOCs, metals, PCBs, pesticides, herbicides, and/or TPH. Groundwater analytical results were compared to selected criteria.

Selected criteria for groundwater samples include Non-Use Aquifer Non-residential Criteria (non-use aquifer criteria) and Non-Residential Groundwater Screening Values for the Protection of Indoor Air (indoor air criteria) as referenced from Pennsylvania Act 2 Statewide Health Standards. In addition, PADEP Tank Program's Closure Requirements for UST Systems for Non-Residential Sites (UST closure criteria) was referenced for PAOC-04 only. Groundwater grab sample locations and analytical data which exceed selected screening criteria are shown on Figure 5. Complete groundwater sample analytical results are presented in Table 3.

To the extent present in the overburden, groundwater grab samples were originally planned to be collected from 29 of the PAOCs or PAORs. However, grab samples could only be collected from eight (8) PAOCs (PAOC-02, -03, -04, -05 -09, -10, -22, and 27) and five (5) PAORs (PAOR-07, -08, -20, -26, and -29) due to shallow bedrock and/or the absence of groundwater.

VOCs

With the exception of PAOC-04, VOCs were not detected in groundwater grab samples exceeding selected criteria. PAOC-04 is the former regulated UST location where a historic release had occurred and some limited remedial activities completed. The groundwater grab sample collected from temporary well-point P04TW-02 indicated that benzene was detected at a concentration of 10 micrograms per liter (ug/L), which exceeds the UST closure criteria of 5 ug/L.

Metals, PCBs, Pesticides, and Herbicides

During the completion of the Phase II ESA, groundwater grab samples that were collected from temporary well-points and monitoring wells and analyzed for metals, PCBs, pesticides, and herbicides did not exceed any of the selected criteria.

SVOCs/PAHs

Concentrations of several SVOCs in groundwater grab samples exceeded selected criteria in PAOC-02 and PAORs-08 and -20. SVOCs did not exceed selected criteria in other PAOCs or PAORs where groundwater was sampled.

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TPH

Groundwater grab samples collected from temporary wells and monitoring wells were analyzed for TPH. TPH was detected in the sample from temporary well-point P08MW-01 at a concentration of 27,100 ug/L. TPH was not detected in any of the remaining groundwater grab samples. There are no PADEP Act 2 criteria for TPH. However, TPH was used as an indicator of a potential release of petroleum during this investigation.

Sediment Investigation and Results

Sediment samples were collected from PAOC-06 (25,000-Gallon Wastewater Buffer Tank Area), PAOC-09 (Storm Water Trench), PAOC-10 (Storm Water Retention Basin/Former Sewage Treatment Plant), and PAOR-11 (Abandoned Storm Water Culverts) during Phase II ESA activities. The three PAOCs and one PAOR are associated with either current or historical discharge of storm water to Curry Hollow Creek (sediment sampling associated with Curry Hollow Creek is presented below). Analytical results for sediment samples were screened against soil-to-groundwater criteria, direct contact criteria, and indoor air criteria.

Sediment sample locations and data which exceed selected criteria are shown on Figure 3A. TPH detections for the sediment samples are shown on Figure 4. Complete sediment sample analytical results are presented in Table 4.

VOCs, Metals, Pesticides, and Herbicides

Sediment samples collected and analyzed for VOCs, metals, pesticides, and herbicides did not exceed selected criteria.

PCBs

Sediment samples collected and analyzed for PCBs exceeded PADEP Act 2 Soil-to-Groundwater (non-residential) screening criteria in PAOCs -09 and -10. PCBs were detected at 53 mg/kg in sample P06S-01 from PAOC-06. This concentration exceeds the direct contact criteria for the 0 to 2-foot interval of 44 mg/kg.

PAHs

Sediment samples collected from PAOR-11 were submitted for PAH analysis. The results indicate that sediment samples exceed soil-to-groundwater criteria for select PAHs. Sediment samples collected from PAOCs -06, -09 and -10 were not analyzed for PAHs.

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TPH

Sediment samples collected from PAOC-11 were submitted for TPH analysis. TPH was detected in the sample from P11S-02 at a concentration of 697 mg/kg. TPH was not detected in the remaining samples from PAOR-11.

Groundwater Hillside Seep Investigation and Results

One groundwater sample was collected from PAOC-27 (P-27 SEEP), a location where white substance was identified seeping from the hillside. The sample was submitted for chemical analysis for metals, pesticides, and herbicides. Analytical results for groundwater were screened against non-use aquifer criteria and indoor air criteria.

The location of the groundwater seep grab sample P-27 SEEP is shown on Figure 5. Analytical results for the groundwater seep grab sample are presented in Table 3. The results indicate that there were no exceedances of selected criteria.

Light Non-Aqueous Liquid (LNAPL) Discovery and Investigation

During Phase II ESA activities, LNAPL was detected in four temporary well-points in the basement area, promulgating the installation of four 2-inch monitoring wells (P08TW-01, P08TW-02, P12TW-02, and P25TW-01). These monitoring well locations are shown on Figure 6. A sample of the LNAPL was collected from monitoring wells P12TW-02 and P25TW-01 and submitted for chemical analysis for VOCs, SVOCs, Metals, and PCBs. The results indicated that select VOCs, SVOCs, metals, and PCBs were all detected in the LNAPL samples. There is no criteria which applies to LNAPL.

LNAPL samples from monitoring wells P25MW-01 and P12-MW-02 were submitted to SPL Labs in Houston, Texas for analysis of TPH by EPA Method 8015B including a fuel code breakdown. Both LNAPL samples contained low levels of gasoline-range organics (GRO) and high levels of motor oil-range organics. Complete LNAPL analytical results are presented in Table 5.

Off-Site – Curry Hollow Creek Sediment Investigation and Results

A total of ten (10) sediment grab samples were collected from off-site locations in Curry Hollow Creek. Five of the samples were collected from upstream of the Site's current outfall, and five were collected downstream of the current outfall. Analytical

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results for sediment samples were screened against soil-to-groundwater criteria, direct contact criteria, and indoor air criteria. The locations of these sediment samples and analytical results that exceed applicable selected criteria are shown on Figure 3B. Complete sediment sample analytical results are presented in Table 2.

PCBs exceeded soil-to-groundwater criteria in two of the sediment samples (CH01S-04 and CH01S-10). Sediment sample CH01S-04 was collected upstream of the Site's current outfall, and sediment sample CH01S-10 was collected downstream. In addition, various SVOCs exceeded soil-to-groundwater criteria in each of the 10 sediment samples collected.

CLOSING

As described, the results of Phase II ESA subsurface screening activities identified impacts to soil, sediment, and overburden groundwater at the Site. These impacts have not yet been delineated, and the applicability of certain potential exposure pathways has not yet been determined. Additional investigation (Phase III ESA) activities are being planned to further delineate and define exceedances of various media to the Pennsylvania Department of Environmental Protection (PADEP) Act 2 criteria, per the PADEP's 25 Pennsylvania Code, Chapter 250 (*Administration of Land Recycling Program; Act 2*) Subchapter C (*Statewide Health Standards*), dated November 24, 2001.

Sincerely,

ARCADIS of New York, Inc.



Brad Saunders, P.E.
Project Manager

Copies:

Marilyn Dedyne, GM
John McKenna, ARCADIS BBL
ARCADIS BBL File

Tables

**TABLE 1
PAOC/PAOR SUMMARY TABLE
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION**

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PAOC/PAOR #	Description	Samples Locations Completed	Laboratory Analysis
PAOR 1	Underground High Pressure Natural Gas Line	NS *	NS *
PAOC 2	Former & Active UST Area	4 soil borings 2 groundwater grab samples	VOC, PAH, TPH, Lead
PAOC 3	Pump House & Loading area	2 soil borings 1 groundwater grab samples	VOC, PAH, TPH, Lead
PAOC 4	Former Gasoline Fueling Area (USTs)	3 soil borings 2 groundwater grab samples	VOC, PAH, TPH, Lead
PAOC 5	Active Gasoline/Diesel Fueling Area (ASTs); Former Incinerator Pit	2 soil borings 1 groundwater grab samples	VOCs, SVOCs, PCBs, Metals, TPH, Pesticides, Herbicides
PAOC 6	25,000-Gallon Wastewater Holding Tank Area	8 soil borings 1 sediment sample	VOC, PAH, TPH, Lead, PCBs
PAOR 7	Former Underground Hydraulic Lift Area	2 soil borings 2 groundwater grab samples	TPH, PAH, PCBs
PAOR 8	Hydraulic Bailer Pits	4 soil borings 2 groundwater grab samples	VOC, PAH, PCB, Metals, TPH
PAOC 9	Storm Water Trench	4 soil borings 1 groundwater grab sample 4 sediment samples	VOC, PAH, PCB, Metals, TPH
PAOC 10	Storm Water Retention Basin / Former Sewage Treatment Plant	5 soil borings 3 groundwater grab samples 3 sediment samples	VOC, PAH, PCB, Metals, TPH
PAOR 11	Abandoned Storm Water Culverts	1 soil boring 3 sediment samples	VOCs, PAH, PCB, Metals, TPH
PAOR 12	Main Wastewater Sump	1 soil boring 1 LNAPL sample	VOC, PAH, PCB, Metals, TPH
PAOR 13	Heat Treat Area Sump	1 soil boring	VOC, PAH, PCB, Metals, TPH
PAOR 14	Truck Repair Pit Sump	1 soil boring	VOC, PAH, PCB, Metals, TPH
PAOR 15	Blank and Shear Looping Pit	1 soil boring	VOC, PAH, PCB, Metals, TPH
PAOR 16	Former Oil Pit	1 soil boring	VOC, PAH, PCB, Metals, TPH
PAOR 17	Former Heat Treat Quench Pit	1 soil boring	VOC, PAH, PCB, Cyanide, Metals, TPH
PAOR 18	Former Waterfall Paint Booth	1 soil boring	VOC, SVOC, Metals
PAOR 19	Former Conveyor Pits	1 soil boring	VOC, SVOC, PCB, Metals, TPH
PAOR 20	Railroad Spurs	15 soil borings 4 groundwater grab samples	VOCs, PAH, PCB, Metals, TPH
PAOR 21	Oil Storage Area	3 soil borings	VOC, PAH, PCB, TPH
PAOC 22	Switchyard	4 soil borings 1 groundwater grab sample	PAH, PCB, TPH
PAOC 23	PCB Transformer Rooms	4 soil borings	TPH, PAH, PCB
PAOC 24	PCB Capacitor Leaks	4 soil borings	TPH, PAH, PCB
PAOC 25	Basement Conveyor Trench	3 soil borings 1 LNAPL sample	VOC, PAH, PCB, Metal, TPH
PAOR 26	Former Incinerator Area	3 soil borings 3 groundwater grab samples	VOC, SVOC, PCB, Metals, TPH, Pesticides, Herbicides
PAOC 27	White Hillside Seepage	1 soil boring 1 seep sample	VOC, SVOC, PCB, Metals, TPH, Pesticides, Herbicides
PAOC 28	Power House Area Ethylene Glycol Leak	1 soil boring	TPH, ethylene glycol
PAOR 29	Hydraulic Freight Elevator Hoist	2 soil borings	VOC, PAH, PCBs, TPH
PAOR 30	Truck Repair/Battery Wash Station Sump	1 soil boring	Metals
PAOR 31	Former Steam Booth	1 soil boring	VOCs, SVOCs, PCBs, Metals, TPH
PAOC 32	Power House & Wastewater Treatment Building Sumps	NS **	NS **
PAOR 33	Southwest Pressure Washing Booth Sump	NS **	NS **
PAOR 34	Central Pressure Washing Booth Sump	NS **	NS **
Off-Site	Curry Hollow Creek (Outlet, Upstream, Downstream)	10 sediment samples (5 upstream and 5 downstream)	PAH, PCB, Metals

Notes:

PAOC: potential area of concern
PAOR: potential area of release
UST: underground storage tank
AST: aboveground storage tank
VOC: volatile organic compounds
SVOC: semi-volatile organic compounds
PAH: polynuclear aromatic hydrocarbons
PCB: polychlorinated biphenyls
TPH: total petroleum hydrocarbon
LNAPL: light non-aqueous phase liquid
NS *: No samples were collected in the vicinity of PAOC-01 due to its current use as a high pressure natural gas line.
NS **: No samples were collected, PAOC/PAOR identified after initial Phase II ESA activities were completed.

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

REGULATED SUBSTANCE (All units in mg/kg)	Soil-to-Groundwater Values		Soil Direct Contact Values			Soil Screening Values for Protection of Indoor Air ²		Closure Requirements for UST Systems ³																			
	Non-Use Aquifers					Non-Residential		USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen	Unsaturation Soil Standard for UST Closure																	
	Non-Residential		Surface Soil 0-2 feet	Subsurface Soil 2-15 feet	Non-Residential Sites																						
	100 X GW MSC	Generic Value ¹																									
P02SB-01 (1-2)	P02SB-01 (3-4)	P02SB-01 (9-11)	P02SB-02 (0-2)	P02SB-02 (7-8)	P02SB-02 (10.5-11.5)	P02SB-03 (2-4)	P02SB-04 (1-3)	P03SB-01 (1.5-3.5)	P03SB-02 (0-2)	P04SB-02 (1-2)	DUP-01	P04SB-03 (2.5-3)	P04SB-04 (2-2.5)	P05SB-01 (2-3)	P05SB-01 (13.5-14.5)	DUP-06											
06-26-07	07-12-07	07-12-07	06-26-07	07-12-07	07-12-07	06-26-07	06-26-07	07-10-07	07-06-07	06-29-07	06-29-07	06-29-07	06-27-07	06-28-07	07-19-07	07-19-07											
VOCs																											
ACETONE	10,000	1,100	E	10000	C	10000	C	110,000+	110,000+	NA	0.049	<0.02	<0.019	<0.024	<0.02	<0.019	0.0058 J	<0.022	<0.027	<0.027	0.23	0.17	<0.018	<0.017	0.0079 J	<0.021	<0.021
BENZENE	50	13	E	210	N	240	N	0.63	380	0.5	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	0.001 J	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
BROMODICHLOROMETHANE	10	3.4	E	45	N	51	N	0.85	1,600+	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
BROMOFORM	1,000	440	E	1500	N	1700	N	160	1300+	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
BROMOMETHANE	100	54	E	270	N	300	N	1.3	9,600+	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
BUTANONE, 2-	NA	NA		NA		NA		NA	NA	NA	0.006	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
CARBON DISULFIDE	410	350	E	10000	C	10000	C	66	1,900+	NA	<0.0059	<0.0049	<0.0048	<0.006	0.0016 J	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	0.0014 J	<0.0041	<0.0038	<0.0052	<0.0053
CARBON TETRACHLORIDE	5.0	2.6	E	110	N	120	N	0.12	440+	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
CHLOROBENZENE	1,000	610	E	10000	C	10000	C	13	300+	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
CHLOROETHANE	9,000	1,900	E	10000	C	10000	C	1.8	1,300+	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
CHLOROFORM	100	25	E	17	N	19	N	0.074	2,100+	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
CHLOROMETHANE	NA	NA		NA		NA		NA	NA	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
CYCLOHEXANE	NA	NA		NA		NA		NA	NA	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
DIBROMO-3-CHLOROPROPANE, 1,2-	2	0.92	E	11	N	12	N	3.2	110	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
DIBROMOCHLOROMETHANE	NA	NA		NA		NA		NA	NA	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	0.5	0.12	E	1900	N	2100	N	0.29	1,000+	0.005	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
DICHLOROBENZENE, 1,2-	6,000	5,900	E	10000	C	10000	C	150+	150+	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
DICHLOROBENZENE, 1,3-	6,000	6,100	E	10000	C	10000	C	NA	NA	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
DICHLOROBENZENE, 1,4-	NA	NA		NA		NA		13	NOC	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
DICHLORODIFLUOROMETHANE (FREON 12)	10,000	10,000	C	10000	C	10000	C	2.6	480+	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
DICHLOROETHANE, 1,1-	110	27	E	1000	N	1200	N	2.7	1,200+	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
DICHLOROETHANE, 1,2-	5	1	E	63	N	73	N	0.83	1,700+	0.5	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
DICHLOROETHENE, 1,1-	NA	NA		NA		NA		NA	NA	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
DICHLOROETHENE, cis-1,2-	NA	NA		NA		NA		NA	NA	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
DICHLOROETHENE, trans-1,2-	NA	NA		NA		NA		NA	NA	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
DICHLOROPROPANE, 1,2-	5	1.1	E	160	N	180	N	0.88	630+	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
DICHLOROPROPENE, cis-1,3-	NA	NA		NA		NA		NA	NA	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
DICHLOROPROPENE, trans-1,3-	NA	NA		NA		NA		NA	NA	NA	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	<0.0068	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	<0.0038	<0.0052	<0.0053
ETHYLBENZENE	7,000	4,600	E	10000	C	10000	C	9.5	110+	70	<0.0059	<0.0049	<0.0048	<0.006	<0.0049	<0.0048	<0.0063	<0.0055	0.0017 J	<0.0067	<0.0065	<0.0053	<0.0045	<0.0041	&		

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in mg/kg)	Soil-to-Groundwater Values		Soil Direct Contact Values		Soil Screening Values for Protection of Indoor Air ²		Closure Requirements for UST Systems ³																						
	Non-Use Aquifers		Non-Residential		USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen																							
	Non-Residential		Surface Soil 0-2 feet	Subsurface Soil 2-15 feet																									
	100 X GW MSC	Generic Value ¹																											
								Non-Residential Sites	P02SB-01 (1-2) 06-26-07	P02SB-01 (3-4) 07-12-07	P02SB-01 (9-11) 07-12-07	P02SB-02 (0-2) 06-26-07	P02SB-02 (7-8) 07-12-07	P02SB-02 (10.5-11.5) 07-12-07	P02SB-03 (2-4) 06-26-07	P02SB-04 (1-3) 06-26-07	P03SB-01 (1.5-3.5) 07-10-07	P03SB-02 (0-2) 07-06-07	P04SB-02 (1-2) 06-29-07	DUP-01 06-29-07	P04SB-03 (2.5-3) 06-29-07	P04SB-04 (2-2.5) 06-27-07	P05SB-01 (2-3) 06-28-07	P05SB-01 (13.5-14.5) 07-19-07	DUP-06 07-19-07				
SVOCs (continued)																													
BIS(2-CHLOROETHOXY)METHANE	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
BIS(2-CHLOROETHYL)ETHER	5.5	1.7	E	5	N	7.1	3,100+	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0072	<0.0077	<0.008					
BIS(2-ETHYLHEXYL) PHTHALATE	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.079	<0.038	<0.039					
BROMOPHENYL PHENYL ETHER, 4-	NA	NA			NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
BUTYLBENZYL PHTHALATE	270	10,000	C	10000	C	10000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	0.0048 J	<0.039					
CAPROLACTAM	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
CARBAZOLE	120	760	E	4000	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.031	<0.0077	<0.008					
CHLOROANILINE, 4-	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
CHLORO-3-METHYLPHENOL, 4-	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
CHLORONAPHTHALENE, 2-	820	18,000	E	190000	C	190000	C	NOC	NOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0072	<0.0077	<0.008					
CHLOROPHENOL, 2-	4	4.4	E	920	N	1100	N	270	27,000+	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.036	<0.038	<0.04					
CHLOROPHENYL PHENYL ETHER, 4-	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
CHRYSENE	0.19	230	E	11000	G	190000	C	230	0.13 PG	0.22	0.011 PG	0.014	0.2	0.038	0.056 PG	0.13 JPG	<0.78	0.23	0.015	0.019	0.005 J	0.098	0.11	0.014	0.015				
DIBENZO[A,H]ANTHRACENE	0.06	270	E	11	G	190000	C	NA	NA	NA	NA	0.016 JPG	<0.07	<0.0068	<0.007	<0.038	<0.0073	<0.0082	<0.15	<0.78	<0.027	<0.009	<0.009	<0.0072	<0.0073	0.01	<0.0077	<0.008	
DIBENZOFURAN	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.066	0.057	0.061					
DICHLOROBENZIDINE, 3,3'-	310	17,000	E	180	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
DICHLOROPHENOL, 2,4-	2,000	1,000	E	8400	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0072	<0.0077	<0.008					
DIETHYL PHTHALATE	10,000	10,000	C	10000	C	10000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
DIMETHYLPHENOL, 2,4-	10,000	10,000	C	10000	C	10000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
DIMETHYL PHTHALATE	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0072	<0.0077	<0.008					
DI-N-BUTYL PHTHALATE	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.014 J	<0.038	<0.039					
DINITRO-2-METHYLPHENOL, 4,6-	NA	NA			NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.16	<0.17	<0.18					
DINITROPHENOL, 2,4-	41	4.6	E	5600	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.16	<0.17	<0.18					
DINITROTOLUENE, 2,4-	840	200	E	260	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
DINITROTOLUENE, 2,6- (2,6-DNT)	10,000	3,000	E	2800	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
DI-N-OCTYL PHTHALATE	300	10,000	C	10000	C	10000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
FLUORANTHENE	26	3,200	E	110000	G	190000	C	NA	NA	NA	NA	0.26 PG	<0.07	<0.0068	<0.007	<0.038	<0.0073	<0.0082	0.2 PG	<0.78	0.66	0.032	0.06	<0.0072	0.24 PG	0.36	0.012	0.0086	
FLUORENE	190	3,800	E	110000	G	190000	C	NOC	NOC	3,800	0.021 JPG	1.1	0.007 PG	0.0018 JPG	0.34 PG	0.032 PG	0.015 PG	<0.15	1.9 PG	0.029 PG	0.0029 JPG	0.005 JPG	0.002 JPG	0.026	0.031	<0.0077	<0.008		
HEXACHLORO BENZENE	0.6	5.8	E	50	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0072	<0.0077	<0.008					
HEXACHLOROBUTADIENE	100	1,200	E	560	G	10000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0072	<0.0077	<0.008					
HEXACHLOROCYCLOPENTADIENE	180	3,300	E	10000	C	10000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0072	<0.0077	<0.008					
HEXACHLOROETHANE	10	56	E	2800	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0072	<0.0077	<0.008					
INDENO[1,2,3-CD]PYRENE	6.2	190,000	C	110	G	190000	C	NA	NA	NA	NA	28,000	0.094 PG	0.075 PG	0.008 PG	0.0075 PG	0.047	0.013 PG	0.071 PG	0.26	<0.78	0.36	0.0076 J	0.013	<0.0072	0.067	0.075	<0.0077	<0.008
ISOPHORONE	10,000	1,900	E	10000	C	10000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
METHYLNAPHTHALENE, 1-	NA	NA		NA	NA		NA	NA	NA	NA	NA	0.16 JPG	0.13 JPG	0.035	0.022 JPG	0.19	0.032 J	<0.04	<0.74	19	<0.13	<0.044	<0.045	<0.036	<0.036	0.14	0.071	0.078	
METHYLNAPHTHALENE, 2-	200	8,000	E	10000	C	10000	C	NOC	NOC	NA	NA	0.47	0.26 JPG	0.075 PG	0.079 PG	0.25 PG	0.089	0.52 PG	0.92	27	0.21 PG	<0.044	<0.045	0.011 JPG	0.14 PG	0.16	0.1	0.12	
METHYLPHENOL, 2-	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
METHYLPHENOL, 4-	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
NAPHTHALENE	3,000	7,500	E	56000	G	190000	C	NOC	NOC	25	0.16 JPG	0.071 JPG	0.052	0.018 JPG	0.099 JPG	0.027 J	0.21	0.29 J	1.9 J	0.078 JPG	<0.044	<0.045	<0.036	0.052 PG	0.1	0.083	0.099		
NITROANILINE, 2-	0.58	0.091	E	160	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
NITROANILINE, 3-	0.58	0.1	E	160	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
NITROANILINE, 4-	0.58	0.086	E	160	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
NITROBENZENE	5,100	2,200	E	1400	G	10000	C	190	870+	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0072	<0.0077	<0.008					
NITROPHENOL, 2-	82,000	17,000	E	22000	G	190000	C	NOC	NOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.038	<0.039					
NITROPHENOL, 4-	6,000																												

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
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GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in mg/kg)	Soil-to-Groundwater Values		Soil Direct Contact Values			Soil Screening Values for Protection of Indoor Air ²		Closure Requirements for UST Systems ³																		
	Non-Use Aquifers		Non-Residential			USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen	Unsaturated Soil Standard for UST Closure	P02SB-01 (1-2)	P02SB-01 (3-4)	P02SB-01 (9-11)	P02SB-02 (0-2)	P02SB-02 (7-8)	P02SB-02 (10.5-11.5)	P02SB-03 (2-4)	P02SB-04 (1-3)	P03SB-01 (1.5-3.5)	P03SB-02 (0-2)	P04SB-02 (1-2)	DUP-01	P04SB-03 (2.5-3)	P04SB-04 (2-2.5)	P05SB-01 (2-3)	P05SB-01 (13.5-14.5)	DUP-06	
	Non-Residential		Surface Soil 0-2 feet	Subsurface Soil 2-15 feet																						
	100 X GW MSC	Generic Value ¹																								
PCBs (continued)																										
PCB-1254 (AROCOR)	0.14	280 E	44 G	10000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.018	<0.018	<0.019	<0.02	
PCB-1260 (AROCOR)	0.43	1,900 E	130 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.018	<0.018	<0.019	<0.02	
INORGANICS																										
ARSENIC	5000	150000	53 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.8	7.3	11.5	10	
BARIIUM AND COMPOUNDS	190000	190000	190000 C	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	277 J	162 J	179	97.2	
CADMIUM	500	38000	210 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.54	<0.54	0.28 B	0.40 B	
CHROMIUM (III)	10000	190000	190000 C	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.8	17.7	16.9	19.9	
COPPER	100000	190000	100000 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29	23.5	28.7	29.1	
CYANIDE	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
LEAD	500	190000	1000 S	190000 C		NA	NA	450	26.1	8.6	6.7	8.4	12.5	6.2	78	87.4	3.6 J	16.4	0.57	0.94	16.3 E	14	14.7	18.2	17.3	
MERCURY	200	10000	840 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.022 B	0.055	0.05	0.049	
NICKEL	10000	190000	56000 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.4	27	30.2	29.7	
SELENIUM	5000	26000	14000 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.1	1.1 J	0.88	1	
SILVER	10000	84000	14000 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.8	0.12 B	0.18 B	0.17 B	
ZINC	190000	190000	190000 C	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48.2 J	61.9 J	72.9	86.6	
PESTICIDES																										
ALDRIN	0.37	44 E	4.7 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
BHC, ALPHA	41	190 E	13 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
BHC, BETA-	10	59 E	44 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	0.00039 JPC	
BHC, DELTA-	800	3,900 E	1700 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
BHC, GAMMA (LINDANE)	20	72 E	61 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0013 JPC	<0.002	<0.002		
CHLORODANE, ALPHA-	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
CHLORODANE, BETA-	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
DDD, 4,4'-	16	1,800 E	330 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
DDE, 4,4'-	4	870 E	230 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
DDT, 4,4'-	0.55	330 E	230 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
DIELDRIIN	16	440 E	5 G	10000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0002 JPC	<0.002	<0.002		
ENDOSULFAN I (ALPHA)	50	260 E	17000 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
ENDOSULFAN II (BETA)	45	260 E	17000 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
ENDOSULFAN SULFATE	12	70 E	17000 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
ENDRIN	0.2	5.5 E	840 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
ENDRIN ALDEHYDE	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
ENDRIN KEYTONE	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
HEPTACHLOR	18	310 E	18 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
HEPTACHLOR EPOXIDE	20	1,100 E	8.7 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0018	<0.002	<0.002	
METHOXYCHLOR	4.5	710 E	14000 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0036	<0.0038	<0.0039	
TOXAPHENE	0.3	1.2 E	72 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.072	<0.077	<0.002	
HERBICIDES																										
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	700	180 E	28000 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.086	<0.092	<0.095	
DB, 2,4-	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.086	<0.092	<0.095	
DICHLOROPROPIONIC ACID (DALAPON), 2,2-Dicamba	2,000	530 E	5500 N	6300 N		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.097	<0.1	<0.11	
Dichlorprop	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.043	<0.046	<0.048	
DINOSEB	70	29 E	2800 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.086	<0.092	<0.095	
MCPA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.013	<0.014	<0.014	
MCPP	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<8.6	<9.2	<9.5	
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	7,000	1,500 E	28000 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.022	<0.023	<0.024	
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TPH	5	22 E	22000 G	190000 C		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.022	<0.023	<0.024	
TPH																										
HEXANE, N-OTHER	NA	NA	NA	NA		NA	NA	NA	279	1290	<169	<175	1,360	401	112	266	1620	1250	346	599	<180	181	<180	<192	<198	
OTHER																										
ETHYLENE GLYCOL	10,000	10,000 C	10000 C	10000 C		120000+	120000+	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in mg/kg)	Soil-to-Groundwater Values			Soil Direct Contact Values			Soil Screening Values for Protection of Indoor Air ²		Closure Requirements for UST Systems ³																		
	Non-Use Aquifers			Non-Residential			USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen		Unsaturated Soil Standard for UST Closure																	
	Non-Residential			Surface	Subsurface	P05SB-03 (0-2)					P06SB-01 (1-2)	P06SB-02 (1-2)	P06SB-03 (1-2)	DUP-03	P06SB-04 (0-1)	P06SB-05 (0-2)	P06SB-06 (0-1)	DUP-08	P06SB-07 (0-1)	P06SB-08 (0-1)	P07SB-01 (8.5-9.5)	P07SB-02 (11-11.5)	P07SB-03 (15-16)	P08SB-01 (8.5-9.5)	P08SB-02 (13-15)	P09SB-01 (1-1.5)	
	100 X	Generic	Soil	Soil																							
	GW MSC	Value ¹	0-2 feet	2-15 feet																							
VOCs																											
ACETONE	10,000	1,100	E	10000	C	10000	C	110,000+	110,000+	NA	<0.023	<0.022	<0.03	<0.022	<0.02	<0.022	<0.019	<0.032	<0.038	<0.023	<0.028	0.011 J	0.0083 J	0.011 J	<0.036	<0.021	0.018 J
BENZENE	50	13	E	210	N	240	N	0.63	380	0.5	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
BROMODICHLOROMETHANE	10	3.4	E	45	N	51	N	0.85	1,600+	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
BROMOFORM	1,000	440	E	1500	N	1700	N	160	1300+	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
BROMOMETHANE	100	54	E	270	N	300	N	1.3	9,600+	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
BUTANONE, 2-	NA	NA		NA		NA		NA	NA	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	0.0021 J	0.0017 J	0.0017 J	<0.0089	<0.0052	<0.0073
CARBON DISULFIDE	410	350	E	10000	C	10000	C	66	1,900+	NA	<0.0057	0.0023 J	0.0032 J	0.0021 J	0.0018 J	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	0.0036 J	0.0015 J	0.0044 J	<0.0089	<0.0052	0.018
CARBON TETRACHLORIDE	5.0	2.6	E	110	N	120	N	0.12	440+	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
CHLORO BENZENE	1,000	610	E	10000	C	10000	C	13	300+	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
CHLOROETHANE	9,000	1,900	E	10000	C	10000	C	1.8	1,300+	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
CHLOROFORM	100	25	E	17	N	19	N	0.074	2,100+	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
CHLOROMETHANE	NA	NA		NA		NA		NA	NA	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
CYCLOHEXANE	NA	NA		NA		NA		NA	NA	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
DIBROMO-3-CHLOROPROPANE, 1,2-	2	0.92	E	11	N	12	N	3.2	110	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
DIBROMOCHLOROMETHANE	NA	NA		NA		NA		NA	NA	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	0.5	0.12	E	1900	N	2100	N	0.29	1,000+	0.005	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
DICHLORO BENZENE, 1,2-	6,000	5,900	E	10000	C	10000	C	150+	150+	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
DICHLORO BENZENE, 1,3-	6,000	6,100	E	10000	C	10000	C	NA	NA	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
DICHLORO BENZENE, 1,4-	NA	NA		NA		NA		13	NOC	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	0.0013 J	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
DICHLORODIFLUOROMETHANE (FREON 12)	10,000	10,000	C	10000	C	10000	C	2.6	480+	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
DICHLOROETHANE, 1,1-	110	27	E	1000	N	1200	N	2.7	1,200+	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	0.0011 J	<0.0097	<0.0089	<0.0052	<0.0073
DICHLOROETHANE, 1,2-	5	1	E	63	N	73	N	0.83	1,700+	0.5	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
DICHLOROETHENE, 1,1-	NA	NA		NA		NA		NA	NA	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
DICHLOROETHENE, cis-1,2-	NA	NA		NA		NA		NA	NA	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
DICHLOROETHENE, trans-1,2-	NA	NA		NA		NA		NA	NA	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
DICHLOROPROPANE, 1,2-	5	1.1	E	160	N	180	N	0.88	630+	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
DICHLOROPROPENE, cis-1,3-	NA	NA		NA		NA		NA	NA	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
DICHLOROPROPENE, trans-1,3-	NA	NA		NA		NA		NA	NA	NA	<0.0057	<0.0072	<0.0074	<0.0055	<0.005	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	<0.0058	<0.0056	<0.0097	<0.0089	<0.0052	<0.0073
ETHYLBENZENE	7,000	4,600	E	10000	C	10000	C	9.5	110+	70	<0.0057	<0.0072	<0.0074	0.071	0.065	<0.0056	<0.0047	<0.0081	<0.0096	<0.0059	<0.007	0.017	0.0038 J	<0.0097	<0.0089	<0.0052	<0.0073
HEXANONE, 2-	NA	NA		NA																							

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

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TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

REGULATED SUBSTANCE (All units in mg/kg)	Soil-to-Groundwater Values		Soil Direct Contact Values			Soil Screening Values for Protection of Indoor Air ²		Closure Requirements for UST Systems ³																			
	Non-Use Aquifers		Non-Residential			USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen	Unsaturated Soil Standard for UST Closure																			
	Non-Residential		Surface	Subsurface	Non-Residential Sites																						
	100 X GW MSC	Generic Value ¹	Soil 0-2 feet	Soil 2-15 feet				P05SB-03 (0-2)	P06SB-01 (1-2)	P06SB-02 (1-2)	P06SB-03 (1-2)	DUP-03	P06SB-04 (0-1)	P06SB-05 (0-2)	P06SB-06 (0-1)	DUP-08	P06SB-07 (0-1)	P06SB-08 (0-1)	P07SB-01 (8.5-9.5)	P07SB-02 (11-11.5)	P07SB-03 (15-16)	P08SB-01 (8.5-9.5)	P08SB-02 (13-15)	P09SB-01 (1-1.5)			
PCBs (continued)																											
PCB-1254 (AROCOR)	0.14	280		44	G	10000	C	NA	NA	NA	0.39	0.12	<0.027	0.16	0.068	7.6	51	<0.021	<0.026	<0.02	<0.02	<0.098	0.3	<0.13	3.5	0.38	<0.018
PCB-1260 (AROCOR)	0.43	1,900	E	130	G	190000	C	NA	NA	NA	<0.021	<0.019	<0.027	<0.019	<0.019	<0.1	<0.95	<0.021	<0.026	<0.02	<0.02	0.12	<0.094	<0.13	<0.14	<0.018	<0.018
INORGANICS																											
ARSENIC	5000	150000		53	G	190000	C	NA	NA	NA	37.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.7	NA	3.7		
BARIUM AND COMPOUNDS	190000	190000		190000	C	190000	C	NA	NA	NA	446 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2990	NA	242 J		
CADMIUM	500	38000		210	G	190000	C	NA	NA	NA	5.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.87	NA	<0.55		
CHROMIUM (III)	10000	190000		190000	C	190000	C	NA	NA	NA	61.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	NA	29.4		
COPPER	100000	190000		100000	G	190000	C	NA	NA	NA	106	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.2	NA	15.2		
CYANIDE	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
LEAD	500	190000		1000	S	190000	C	NA	NA	NA	450	260	19.4	6.8	22.1	21.8	155	23.9	21.9 J	32.3	26.9 J	24.3 J	NA	3	NA	9.5	
MERCURY	200	10000		840	G	190000	C	NA	NA	NA	0.056	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.058	NA	<0.036		
NICKEL	10000	190000		56000	G	190000	C	NA	NA	NA	16.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	NA	12.7		
SELENIUM	5000	26000		14000	G	190000	C	NA	NA	NA	<3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<21.9	NA	<2.8		
SILVER	10000	84000		14000	G	190000	C	NA	NA	NA	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.3	NA	1.1		
ZINC	190000	190000		190000	C	190000	C	NA	NA	NA	278 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.2	NA	30.2 J		
PESTICIDES																											
ALDRIN	0.37	44	E	4.7	G	190000	C	NA	NA	NA	0.0004 JPG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BHC, ALPHA	41	190	E	13	G	190000	C	NA	NA	NA	0.0016 JPG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BHC, BETA-	10	59	E	44	G	190000	C	NA	NA	NA	0.00039 JPG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BHC, DELTA-	800	3,900	E	1700	G	190000	C	NA	NA	NA	0.00035 JPG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BHC, GAMMA (LINDANE)	20	72	E	61	G	190000	C	NA	NA	NA	0.0055	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
CHLORODANE, ALPHA-	NA	NA		NA		NA		NA	NA	NA	<0.0021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
CHLORODANE, BETA-	NA	NA		NA		NA		NA	NA	NA	0.00027 JPG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DDD, 4,4'-	16	1,800	E	330	G	190000	C	NA	NA	NA	<0.0021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DDE, 4,4'-	4	870	E	230	G	190000	C	NA	NA	NA	0.00091 JPG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DDT, 4,4'-	0.55	330	E	230	G	190000	C	NA	NA	NA	<0.0021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DIELDRIN	16	440	E	5	G	10000	C	NA	NA	NA	0.0025 PG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ENDOSULFAN I (ALPHA)	50	260	E	17000	G	190000	C	NA	NA	NA	<0.0021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ENDOSULFAN II (BETA)	45	260	E	17000	G	190000	C	NA	NA	NA	0.00076 JPG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ENDOSULFAN SULFATE	12	70	E	17000	G	190000	C	NA	NA	NA	<0.0021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ENDRIN	0.2	5.5	E	840	G	190000	C	NA	NA	NA	0.0024 PG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ENDRIN ALDEHYDE	NA	NA		NA		NA		NA	NA	NA	0.0014 JPG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ENDRIN KEYTONE	NA	NA		NA		NA		NA	NA	NA	<0.0021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
HEPTACHLOR	18	310	E	18	G	190000	C	NA	NA	NA	<0.0021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
HEPTACHLOR EPOXIDE	20	1,100	E	8.7	G	190000	C	NA	NA	NA	0.00025 JPG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
METHOXYCHLOR	4.5	710	E	14000	G	190000	C	NA	NA	NA	0.0012 PG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TOXAPHENE	0.3	1.2	E	72	G	190000	C	NA	NA	NA	<0.084	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
HERBICIDES																											
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	700	180	E	28000	G	190000	C	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DB, 2,4-	NA	NA		NA		NA		NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DICHLOROPROPIONIC ACID (DALAPON), 2,2-	2,000	530	E	5500	N	6300	N	NA	NA	NA	0.021 JPG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dicamba	NA	NA		NA		NA		NA	NA	NA	<0.051	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorprop	NA	NA		NA		NA		NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DINOSEB	70	29	E	2800	G	190000	C	NA	NA	NA	<0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MCPA	NA	NA		NA		NA		NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MCPP	NA	NA		NA		NA		NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	7,000	1,500	E	28000	G	190000	C	NA	NA	NA	<0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-T)	5	22	E	22000	G	190000	C	NA	NA	NA	<0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TPH																											
HEXANE, N-	NA	NA		NA		NA		NA	NA	NA	431	905	<272	667	<188	2660	314	1900	1730	609	<199	18,900	9,720	340	8800	1380	239
OTHER																											
ETHYLENE GLYCOL	10,000	10,000	C	10000	C	10000	C	120000+	120000+	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in mg/kg)	Soil-to-Groundwater Values		Soil Direct Contact Values			Soil Screening Values for Protection of Indoor Air ²		Closure Requirements for UST Systems ³																			
	Non-Use Aquifers					Non-Residential			USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen	Unsaturated Soil Standard for UST Closure																
	Non-Residential		Surface		Subsurface																						
	100 X GW MSC	Generic Value ¹	Soil 0-2 feet		Soil 2-15 feet																						
P09SB-02 (1-2)	P09SB-03 (4-5)	P09SB-05 (2-2.5)	P10SB-01 (6-8)	P10SB-02 (8-10)	P10SB-03 (5.5-6.5)	DUP-05	P10SB-04 (3.5-4.5)	P10SB-05 (0-1)	P11SB-01 (0-2)	P12SB-02 (7-8)	P13SB-01 (1-3)	P14SB-01 (17-19)	P15SB-01 (15-17)	P16SB-01 (7-8)	P17SB-01 (6.3-7)	DUP-02											
07-09-07	07-10-07	07-10-07	07-18-07	07-18-07	07-18-07	07-18-07	07-18-07	07-17-07	07-17-07	07-08-07	07-08-07	07-08-07	06-30-07	07-08-07	07-07-07	07-07-07											
VOCs																											
ACETONE	10,000	1,100	E	10000	C	10000	C	110,000+	110,000+	NA	<0.025	0.02 J	0.01 J	0.008 J	0.052	<0.024	0.015 J	<0.024	<0.022	<0.023	<0.027	<0.022	<0.022	<1.1	<0.021	0.017 J	0.019 J
BENZENE	50	13	E	210	N	240	N	0.63	380	0.5	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	0.0019 J	0.002 J
BROMODICHLOROMETHANE	10	3.4	E	45	N	51	N	0.85	1,600+	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
BROMOFORM	1,000	440	E	1500	N	1700	N	160	1300+	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
BROMOMETHANE	100	54	E	270	N	300	N	1.3	9,600+	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
BUTANONE, 2-	NA	NA		NA		NA		NA	NA	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	0.0014 J	0.002 J
CARBON DISULFIDE	410	350	E	10000	C	10000	C	66	1,900+	NA	0.0034 J	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	0.0036 J	0.0037 J
CARBON TETRACHLORIDE	5.0	2.6	E	110	N	120	N	0.12	440+	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
CHLOROBENZENE	1,000	610	E	10000	C	10000	C	13	300+	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
CHLOROETHANE	9,000	1,900	E	10000	C	10000	C	1.8	1,300+	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
CHLOROFORM	100	25	E	17	N	19	N	0.074	2,100+	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
CHLOROMETHANE	NA	NA		NA		NA		NA	NA	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
CYCLOHEXANE	NA	NA		NA		NA		NA	NA	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	0.0011 J
DIBROMO-3-CHLOROPROPANE, 1,2-	2	0.92	E	11	N	12	N	3.2	110	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
DIBROMOCHLOROMETHANE	NA	NA		NA		NA		NA	NA	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	0.5	0.12	E	1900	N	2100	N	0.29	1,000+	0.005	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
DICHLOROBENZENE, 1,2-	6,000	5,900	E	10000	C	10000	C	150+	150+	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
DICHLOROBENZENE, 1,3-	6,000	6,100	E	10000	C	10000	C	NA	NA	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
DICHLOROBENZENE, 1,4-	NA	NA		NA		NA		13	NOC	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
DICHLORODIFLUOROMETHANE (FREON 12)	10,000	10,000	C	10000	C	10000	C	2.6	480+	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
DICHLOROETHANE, 1,1-	110	27	E	1000	N	1200	N	2.7	1,200+	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
DICHLOROETHANE, 1,2-	5	1	E	63	N	73	N	0.83	1,700+	0.5	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
DICHLOROETHENE, 1,1-	NA	NA		NA		NA		NA	NA	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
DICHLOROETHENE, cis-1,2-	NA	NA		NA		NA		NA	NA	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
DICHLOROETHENE, trans-1,2-	NA	NA		NA		NA		NA	NA	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
DICHLOROPROPANE, 1,2-	5	1.1	E	160	N	180	N	0.88	630+	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
DICHLOROPROPENE, cis-1,3-	NA	NA		NA		NA		NA	NA	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	<0.0052
DICHLOROPROPENE, trans-1,3-	NA	NA		NA		NA		NA	NA	NA	<0.0062	<0.0065	<0.006	<0.0057	<0.0067	<0.0061	<0.0063	<0.0059	<0.0056	<0.0059	<0.0069	<0.0055	<0.0055	<0.28	<0.0051	<0.0057	

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

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TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in mg/kg)	Soil-to-Groundwater Values		Soil Direct Contact Values			Soil Screening Values for Protection of Indoor Air ²		Closure Requirements for UST Systems ³																			
	Non-Use Aquifers					Non-Residential			USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen	Unsaturated Soil Standard for UST Closure Non-Residential Sites	P09SB-02 (1-2)	P09SB-03 (4-5)	P09SB-05 (2-2.5)	P10SB-01 (6-8)	P10SB-02 (8-10)	P10SB-03 (5.5-6.5)	DUP-05	P10SB-04 (3.5-4.5)	P10SB-05 (0-1)	P11SB-01 (0-2)	P12SB-02 (7-8)	P13SB-01 (1-3)	P14SB-01 (17-19)	P15SB-01 (15-17)	P16SB-01 (7-8)	P17SB-01 (6.3-7)
	Non-Residential		Surface	Subsurface	07-09-07	07-10-07	07-10-07					07-18-07	07-18-07	07-18-07	07-18-07	07-18-07	07-17-07	07-17-07	07-08-07	07-08-07	07-08-07	06-30-07	07-08-07	07-07-07	07-07-07		
	100 X GW MSC	Generic Value ¹	Soil 0-2 feet	Soil 2-15 feet																							
PCBs (continued)																											
PCB-1254 (AROCLOR)	0.14	280	E	44	G	10000	C	NA	NA	NA	<0.022	0.0074 J	<0.02	<0.02	<0.021	<0.021	<0.023	<0.02	0.73	<0.02	<0.027	<0.019	<0.021	<0.019	<0.017	1.3	1.1
PCB-1260 (AROCLOR)	0.43	1,900	E	130	G	190000	C	NA	NA	NA	<0.022	<0.02	<0.02	<0.02	<0.021	<0.021	<0.023	<0.02	0.59	<0.02	<0.027	<0.019	<0.021	<0.019	<0.017	<0.018	<0.019
INORGANICS																											
ARSENIC	5000	150000		53	G	190000	C	NA	NA	NA	2.2	7.4	3.1	6.4	6.4	8.1	9.1	11.6	21.5	8.5	1.3 B	5.3	3.3	11	8	3	3.6
BARIUM AND COMPOUNDS	190000	190000		190000	C	190000	C	NA	NA	NA	221	134	180	116	182	90.3	111	196	148	218	548	146	200	110 J	58.7	193	93.9
CADMIUM	500	38000		210	G	190000	C	NA	NA	NA	<0.65	0.060 B	0.061 B	0.40 B	0.30 B	0.27 B	0.34 B	0.6	1.7	0.47 B	<0.8	0.076 B	0.27 B	<0.56	0.070 B	0.18 B	0.19 B
CHROMIUM (III)	10000	190000		190000	C	190000	C	NA	NA	NA	14.5 J	15.3	13	26.6	22.3	19.8	20	24.0 E	72.2	19.5	8.7 J	12.2 J	16.6 J	10.8	14.3 J	9.6 J	11.1 J
COPPER	100000	190000		100000	G	190000	C	NA	NA	NA	4.6	25.8	10.3	26	27	40.2	35.6	27.2	78.2	37.7	1.3 B	27.8	31.5	27.4	46.1	15.6	15.9
CYANIDE	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.35 BJ	0.24 BJ	
LEAD	500	190000		1000	S	190000	C	NA	NA	NA	0.66	20.7 J	7.0 J	22.8	14.2	18.1	19	25.9 E	208	17.7	0.56	15.4 E	19.1	16.7	38.4	10.3	10.1
MERCURY	200	10000		840	G	190000	C	NA	NA	NA	<0.043	0.072	0.012 B	0.035 B	0.065	0.058	31.1	0.049	0.22	0.047	<0.053	0.055	0.043	0.046	0.019 B	0.058	0.059
NICKEL	10000	190000		56000	G	190000	C	NA	NA	NA	2.4 B	27.7	10.5	33	39	21.8	0.12	31.9 E	47.2	28.5	0.76 B	28.1	45	33.4	38.8	10.3	12.4
SELENIUM	5000	26000		14000	G	190000	C	NA	NA	NA	<1.3	0.68	0.40 B	0.81	1.1	1.7	1	0.53 B	1	0.58 B	<1.6	<0.56	<0.63	0.78 J	2.4	<0.55	0.56
SILVER	10000	84000		14000	G	190000	C	NA	NA	NA	1.1 J	0.14 B	0.41 B	0.22 B	0.12 B	0.15 B	0.26 B	0.41 B	0.53 B	0.40 B	1.3 J	0.22 B J	0.22 B J	0.16 B	0.057 B J	0.32 B J	0.18 B J
ZINC	190000	190000		190000	C	190000	C	NA	NA	NA	3.6	78.7	32.5	92.2	109	62.6	78.3	93.5 E	217 J	78.5	1.5 B	62.4	81.5	56.4 J	90.9	220	208
PESTICIDES																											
ALDRIN	0.37	44	E	4.7	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BHC, ALPHA	41	190	E	13	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BHC, BETA-	10	59	E	44	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BHC, DELTA-	800	3,900	E	1700	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BHC, GAMMA (LINDANE)	20	72	E	61	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLORODANE, ALPHA-	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLORODANE, BETA-	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DDD, 4,4'-	16	1,800	E	330	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DDE, 4,4'-	4	870	E	230	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DDT, 4,4'-	0.55	330	E	230	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIELDRIN	16	440	E	5	G	10000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ENDOSULFAN I (ALPHA)	50	260	E	17000	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ENDOSULFAN II (BETA)	45	260	E	17000	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ENDOSULFAN SULFATE	12	70	E	17000	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ENDRIN	0.2	5.5	E	840	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ENDRIN ALDEHYDE	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ENDRIN KEYTONE	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEPTACHLOR	18	310	E	18	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEPTACHLOR EPOXIDE	20	1,100	E	8.7	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
METHOXYCHLOR	4.5	710	E	14000	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOXAPHENE	0.3	1.2	E	72	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HERBICIDES																											
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	700	180	E	28000	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DB, 2,4-	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DICHLOROPROPIONIC ACID (DALAPON), 2,2-	2,000	530	E	5500	N	6300	N	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dicamba	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorprop	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOSEB	70	29	E	2800	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MCPA	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MCPP	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	7,000	1,500	E	28000	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TPH)	5	22	E	22000	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OTHER																											
ETHYLENE GLYCOL	10,000	10,000	C	10000	C	10000	C	120000+	120000+	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in mg/kg)	Soil-to-Groundwater Values		Soil Direct Contact Values				Soil Screening Values for Protection of Indoor Air ²		Closure Requirements for UST Systems ³																				
	Non-Use Aquifers		Non-Residential				USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen		Unsaturated Soil Standard for UST Closure																			
	Non-Residential		Surface		Subsurface					Non-Residential Sites	P18SB-01 (9-11)	P19SB-01 (12-14)	P20SB-01 (1-2)	P20SB-01 (2-3)	P20SB-02 (1.5-2)	P20SB-02 (17-18)	P20SB-03 (2-3)	P20SB-04 (3-4)	P20SB-05 (0-2)	P20SB-06 (1-3)	P20SB-07 (2-4)	P20SB-08 (1-3)	P20SB-09 (1-3)	P20SB-10 (1.5-2.5)	P20SB-11 (0-2)	P20SB-12 (2-4)	P20SB-12 (13-14)		
	100 X GW MSC	Generic Value ¹	Soil 0-2 feet	Soil 2-15 feet	07-12-07	07-01-07					06-27-07	07-10-07	07-02-07	07-02-07	07-10-07	07-10-07	07-17-07	07-11-07	07-11-07	07-11-07	07-17-07	07-17-07	07-16-07	07-11-07	07-11-07				
VOCS																													
ACETONE	10,000	1,100	E	10000	C	10000	C	110,000+		110,000+	NA		<0.024	<0.027	<0.02	0.021 J	<0.025	<0.022	0.032	<0.024	<0.027	<0.022	<0.022	<0.02	0.0096 J	0.012 J	0.038	<0.021	<0.02
BENZENE	50	13	E	210	N	240	N	0.63		380	0.5		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
BROMODICHLOROMETHANE	10	3.4	E	45	N	51	N	0.85		1,600+	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
BROMOFORM	1,000	440	E	1500	N	1700	N	160		1300+	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
BROMOMETHANE	100	54	E	270	N	300	N	1.3		9,600+	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
BUTANONE, 2-	NA	NA		NA		NA		NA		NA	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
CARBON DISULFIDE	410	350	E	10000	C	10000	C	66		1,900+	NA		<0.006	<0.0069	<0.0049	0.0057	<0.0062	<0.0055	0.0056 J	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	0.0024 J	<0.005
CARBON TETRACHLORIDE	5.0	2.6	E	110	N	120	N	0.12		440+	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
CHLOROBENZENE	1,000	610	E	10000	C	10000	C	13		300+	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
CHLOROETHANE	9,000	1,900	E	10000	C	10000	C	1.8		1,300+	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
CHLOROFORM	100	25	E	17	N	19	N	0.074		2,100+	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
CHLOROMETHANE	NA	NA		NA		NA		NA		NA	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
CYCLOHEXANE	NA	NA		NA		NA		NA		NA	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
DIBROMO-3-CHLOROPROPANE, 1,2-	2	0.92	E	11	N	12	N	3.2		110	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
DIBROMOCHLOROMETHANE	NA	NA		NA		NA		NA		NA	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	0.5	0.12	E	1900	N	2100	N	0.29		1,000+	0.005		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
DICHLOROBENZENE, 1,2-	6,000	5,900	E	10000	C	10000	C	150+		150+	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
DICHLOROBENZENE, 1,3-	6,000	6,100	E	10000	C	10000	C	NA		NA	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
DICHLOROBENZENE, 1,4-	NA	NA		NA		NA		13		NOC	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
DICHLORODIFLUOROMETHANE (FREON 12)	10,000	10,000	C	10000	C	10000	C	2.6		480+	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
DICHLOROETHANE, 1,1-	110	27	E	1000	N	1200	N	2.7		1,200+	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
DICHLOROETHANE, 1,2-	5	1	E	63	N	73	N	0.83		1,700+	0.5		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
DICHLOROETHENE, 1,1-	NA	NA		NA		NA		NA		NA	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
DICHLOROETHENE, cis-1,2-	NA	NA		NA		NA		NA		NA	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
DICHLOROETHENE, trans-1,2-	NA	NA		NA		NA		NA		NA	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
DICHLOROPROPANE, 1,2-	5	1.1	E	160	N	180	N	0.88		630+	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
DICHLOROPROPENE, cis-1,3-	NA	NA		NA		NA		NA		NA	NA		<0.006	<0.0069	<0.0049	<0.0056	<0.0062	<0.0055	<0.0058	<0.006	<0.0067	<0.0055	<0.0055	<0.0049	<0.0062	<0.0061	<0.0053	<0.0052	<0.005
DICHLOROPROPENE, trans-1,3-	NA	NA		NA		NA	</																						

REGULATED SUBSTANCE (All units in mg/kg)	Soil-to-Groundwater Values		Soil Direct Contact Values		Soil Screening Values for Protection of Indoor Air ²		Closure Requirements for UST Systems ³																		
	Non-Use Aquifers		Non-Residential		USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen	Unsaturated Soil Standard for UST Closure																		
	Non-Residential		Surface	Subsurface			Closure																		
	100 X GW MSC	Generic Value ¹	Soil 0-2 feet	Soil 2-15 feet			Non-Residential Sites		P18SB-01 (9-11)	P19SB-01 (12-14)	P20SB-01 (1-2)	P20SB-01 (2-3)	P20SB-02 (1.5-2)	P20SB-02 (17-18)	P20SB-03 (2-3)	P20SB-04 (3-4)	P20SB-05 (0-2)	P20SB-06 (1-3)	P20SB-07 (2-4)	P20SB-08 (1-3)	P20SB-09 (1-3)	P20SB-10 (1.5-2.5)	P20SB-11 (0-2)	P20SB-12 (2-4)	P20SB-12 (13-14)
SVOCs (continued)																									
BIS(2-CHLOROETHOXY)METHANE	NA	NA		NA	NA	NA	NA	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BIS(2-CHLOROETHYL)ETHER	5.5	1.7 E		5	N	7.1	3,100+	NA	<0.0085	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BIS(2-ETHYLHEXYL) PHTHALATE	NA	NA		NA	NA	NA	NA	NA	0.029 J	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BROMOPHENYL PHENYL ETHER, 4-	NA	NA		NA	NA	NA	NA	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BUTYLBENZYL PHTHALATE	270	10,000 C		10000	C	NA	NA	NA	0.0084 J	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
CAPROLACTAM	NA	NA		NA	NA	NA	NA	NA	NA	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
CARBAZOLE	120	760 E		4000	G	190000	C	NA	<0.0085	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
CHLOROANILINE, 4-	NA	NA		NA	NA	NA	NA	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
CHLORO-3-METHYLPHENOL, 4-	NA	NA		NA	NA	NA	NA	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
CHLORONAPHTHALENE, 2-	820	18,000 E		190000	C	190000	C	NOC	<0.0085	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
CHLOROPHENOL, 2-	4	4.4 E		920	N	1100	N	270	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
CHLOROPHENYL PHENYL ETHER, 4-	NA	NA		NA	NA	NA	NA	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
CHRYSENE	0.19	230 E		11000	G	190000	C	NA	0.0032 J	0.019	1.6	0.19	0.052	0.031	0.17	0.087 PG	3.2	0.014	0.0024 J	<0.0076	0.23	0.013 PG	0.13	3.9	5.5
DIBENZO[A,H]ANTHRACENE	0.06	270 E		11	G	190000	C	NA	<0.0085	<0.0093	<0.12	<0.047	<0.0083	<0.008	<0.046	0.0082 PG	<0.2	<0.0076	<0.0076	<0.0076	<0.08	<0.0078	<0.0074	<1.1	<0.95
DIBENZOFURAN	NA	NA		NA	NA	NA	NA	NA	0.0047 J	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DICHLOROBENZIDINE, 3,3'-	310	17,000 E		180	G	190000	C	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DICHLOROPHENOL, 2,4-	2,000	1,000 E		8400	G	190000	C	NA	<0.0085	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DIETHYL PHTHALATE	10,000	10,000 C		10000	C	10000	C	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DIMETHYLPHENOL, 2,4-	10,000	10,000 C		10000	C	10000	C	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DIMETHYL PHTHALATE	NA	NA		NA	NA	NA	NA	NA	<0.0085	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DI-N-BUTYL PHTHALATE	NA	NA		NA	NA	NA	NA	NA	0.01 J	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DINITRO-2-METHYLPHENOL, 4,6-	NA	NA		NA	NA	NA	NA	NA	<0.19	<0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DINITROPHENOL, 2,4-	41	4.6 E		5600	G	190000	C	NA	<0.19	<0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DINITROTOLUENE, 2,4-	840	200 E		260	G	190000	C	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DINITROTOLUENE, 2,6- (2,6-DNT)	10,000	3,000 E		2800	G	190000	C	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DI-N-OCTYL PHTHALATE	300	10,000 C		10000	C	10000	C	NA	0.012 J	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
FLUORANTHENE	26	3,200 E		110000	G	190000	C	NA	0.0052 J	0.057	3.9 PG	0.48 JPG	<0.0083	<0.008	0.47 PG	0.13 PG	8 PG	<0.0076	<0.0076	<0.0076	0.85	<0.0078	<0.0074	18 PG	22 PG
FLUORENE	190	3,800 E		110000	G	190000	C	NOC	<0.0085	0.048	0.27	0.078	<0.0083	0.0074 JPG	0.075	<0.0076	0.0061 JPG	0.0025 J	0.0075 JPG	0.17	0.024	0.013 PG	5.3	9.1	
HEXACHLORO BENZENE	0.6	5.8 E		50	G	190000	C	NA	<0.0085	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
HEXACHLOROBUTADIENE	100	1,200 E		560	G	10000	C	NA	<0.0085	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
HEXACHLOROCYCLOPENTADIENE	180	3,300 E		10000	C	10000	C	NA	<0.0085	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
HEXACHLOROETHANE	10	56 E		2800	G	190000	C	NA	<0.0085	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
INDENO[1,2,3-CD]PYRENE	6.2	190,000 C		110	G	190000	C	NA	<0.0085	<0.0093	1.5	0.098	0.1	0.017 PG	0.1	<0.0076	2.7	<0.0076	0.0013 JPG	0.0081 PG	0.15	0.014 PG	0.12	1.5 PG	2.7
ISOPHORONE	10,000	1,900 E		10000	C	10000	C	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
METHYLNAPHTHALENE, 1-	NA	NA		NA	NA	NA	NA	NA	0.0058 J	<0.0093	<0.57	<0.23	110 PG	0.042 PG	0.031 JPG	<0.038	<0.97	0.061	0.014 J	0.2	<0.39	0.13	0.33 PG	<5.6	1.4 JPG
METHYLNAPHTHALENE, 2-	200	8,000 E		10000	C	10000	C	NOC	0.0067 J	<0.0093	0.87 PG	0.31	0.47	0.15	0.3	0.063 PG	1.4 PG	0.15	0.05	0.46	0.65	0.38	0.87	9.3 PG	17 PG
METHYLPHENOL, 2-	NA	NA		NA	NA	NA	NA	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
METHYLPHENOL, 4-	NA	NA		NA	NA	NA	NA	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
NAPHTHALENE	3,000	7,500 E		56000	G	190000	C	NOC	0.0043 J	0.0065 J	0.17 JPG	0.036 JPG	0.15	0.042	0.3	0.03 JPG	0.79 J	0.046	0.016 J	0.16	0.12 J	0.12	0.29	3 J	7.6
NITROANILINE, 2-	0.58	0.091 E		160	G	190000	C	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
NITROANILINE, 3-	0.58	0.1 E		160	G	190000	C	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
NITROANILINE, 4-	0.58	0.086 E		160	G	190000	C	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
NITROBENZENE	5,100	2,200 E		1400	G	10000	C	190	<0.0085	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
NITROPHENOL, 2-	82,000	17,000 E		22000	G	190000	C	NOC	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
NITROPHENOL, 4-	6,000	4,100 E		22000	G	190000	C	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
NITROSODI-N-PROPYLAMINE, N-	37	5.1 E		11	G	10000	C	NA	<0.0085	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
NITROSODIPHENYLAMINE, N-	3,500	5,500 E		16000	G	190000	C	NA	<0.0085	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
OXYBIS(1-CHLOROPROPANE), 2,2'-	NA	NA		NA	NA	NA	NA	NA	<0.0085	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PENTACHLOROPHENOL	100	5,000 E		660	G	190000	C	NA	<0.013	<0.014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PHENANTHRENE	110	10,000 E		190000	C	190000	C	NOC	0.0096	0.051	1.7	0.49	0.21	0.11	0.29	0.059	5.7	0.05	0.015	0.13	0.9	0.11	0.28	23	37
PHENOL	40,000	6,600 E		190000	C	190000	C	NOC	<0.0085	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PYRENE	13	2,200 E		84000	G	190000	C	NA	0.0037 J	0.033	2.8	0.36 PG	0.095 PG	<0.008	0.38 PG	0.2 PG	6.2 PG	0.02 PG	<0.0076	<0.0076	0.49 PG	0.025 PG	0.21 PG	12 PG	15 PG
TRICHLOROPHENOL, 2,4,5-	100,000	190,000 C		190000	C	190000	C	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TRICHLOROPHENOL, 2,4,6-	3,100	8,900 E		840	G	190000	C	NA	<0.042	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCBs																									
PCB-1016 (AROCLOR)	0.72	200 E		200	G	10000	C	NA	NA	<0.11	<0.019	<0.019	<0.1	<0.098	<0.019	<0.019	<0.24	<0.019	<0.019	<0.019	<0.02	<0.019	<0.018	<0.019	<0.019
PCB-1221 (AROCLOR)	0.52	2,50 E		160	G	10000	C	NA	NA	<0.11	<0.019	<0.019	<0.1	<0.098	<0.019	<0.019	<0.24	<0.019	<0.019	<0.019	<0.02	<0.019	<0.018	<0.019	<0.019
PCB-1232 (AROCLOR)	0.52	2 E		160	G	10000	C	NA	NA	<0.11	<0.019	<0.019	<0.1	<0.098	<0.019	<0.019	<0.24	<0.019	<0.019	<0.019	<0.02	<0.019	<0.018	<0.019	<0.019
PCB-1242 (AROCLOR)	0.52	62 E		160	G	10000	C	NA	NA	<0.11	<0.019	<0.019	<0.1	<0.098</											

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in mg/kg)	Soil-to-Groundwater Values		Soil Direct Contact Values			Soil Screening Values for Protection of Indoor Air ²		Closure Requirements for UST Systems ³																				
	Non-Use Aquifers		Non-Residential		USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen																						
	Non-Residential		Surface Soil 0-2 feet	Subsurface Soil 2-15 feet																								
	100 X GW MSC	Generic Value ¹																										
							Unsaturated Soil Standard for UST Closure Non-Residential Sites																					
P18SB-01 (9-11)	P19SB-01 (12-14)	P20SB-01 (1-2)	P20SB-01 (2-3)	P20SB-02 (1.5-2)	P20SB-02 (17-18)	P20SB-03 (2-3)	P20SB-04 (3-4)	P20SB-05 (0-2)	P20SB-06 (1-3)	P20SB-07 (2-4)	P20SB-08 (1-3)	P20SB-09 (1-3)	P20SB-10 (1.5-2.5)	P20SB-11 (0-2)	P20SB-12 (2-4)	P20SB-12 (13-14)												
07-12-07	07-01-07	06-27-07	07-10-07	07-02-07	07-02-07	07-10-07	07-10-07	07-17-07	07-11-07	07-11-07	07-11-07	07-17-07	07-17-07	07-16-07	07-11-07	07-11-07												
PCBs (continued)																												
PCB-1254 (AROCOR)	0.14	280	E	44	G	10000	C	NA	NA	NA	NA	<0.11	0.026	0.0038 J	<0.1	<0.098	0.38	<0.019	<0.24	<0.019	<0.019	<0.019	<0.02	<0.019	<0.018	<0.019	<0.019	
PCB-1260 (AROCOR)	0.43	1,900	E	130	G	190000	C	NA	NA	NA	NA	0.024 J	<0.019	<0.019	<0.1	<0.022	<0.019	<0.019	6	<0.019	<0.019	<0.019	0.055	<0.019	0.008 J	<0.019	<0.019	
INORGANICS																												
ARSENIC	5000	150000		53	G	190000	C	NA	NA	NA	6.5	11.6	9.1	3.3	5.7	6.9	3.5	2.4	13	5.1	3.6	5.8	8.4	10.9	19	5.4	7	
BARIIUM AND COMPOUNDS	190000	190000		190000	C	190000	C	NA	NA	NA	139	162	211 J	237	188	156	240	755	238	200	198	181	165	209	113	205	96.4	
CADMIUM	500	38000		210	G	190000	C	NA	NA	NA	0.17 B	<0.69	0.95	0.13 B	0.073 B	<0.59	0.87	0.091 B	12.2	0.085 B	<0.57	0.053 B	0.46 B	0.34 B	0.49 B	0.13 B	<0.56	
CHROMIUM (III)	10000	190000		190000	C	190000	C	NA	NA	NA	24.3	<0.69	36	22.3	16.4	17.7	30.9	28	105	17.9	15.8	16	17.3	19.3	18.7	15.5	20.3	
COPPER	100000	190000		100000	G	190000	C	NA	NA	NA	22.8	31.3	49.4	13.5	19.8	26.1	48.2	10.2	255	27.1	25.9	24.5	29.1	29.9	30.1	17.3	25.6	
CYANIDE	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
LEAD	500	190000		1000	S	190000	C	NA	NA	NA	450	14.4 J	20.7	84.3	10.8 J	15.1	17.5	96.4 J	8.2 J	504	17.7 J	18.7 J	15.2 J	22.5	19.4	27.2	10.0 J	14.6 J
MERCURY	200	10000		840	G	190000	C	NA	NA	NA	0.037 B	0.07	0.055	0.015 B	0.032 B	0.045	0.26	<0.038	0.18	0.13	0.038	0.034 B	0.074	0.076	0.06	0.04	0.028 B	
NICKEL	10000	190000		56000	G	190000	C	NA	NA	NA	24.4	37.7	15.2	12.7	25.3	29.5	13.4	5.9	43.9	32.6	31.9	29.1	23.7	31.7	30.4	15.4	34.6	
SELENIUM	5000	26000		14000	G	190000	C	NA	NA	NA	<0.64	<0.69	0.80 J	ND	<0.62	<0.59	<2.9	<5.7	0.99	0.36 B	0.33 B	0.45 B	0.9	0.82	0.59	<0.57	0.61	
SILVER	10000	84000		14000	G	190000	C	NA	NA	NA	0.61 B	<0.69	0.59	1.1	0.49 B	0.11 B	1.3	2.3	1.3	0.24 B	0.29 B	0.26 B	0.38 B	0.23 B	0.29 B	0.56 B	0.25 B	
ZINC	190000	190000		190000	C	190000	C	NA	NA	NA	72.4	63.6	136 J	30	71.8	66.1	3710	14.6	1260 J	86.2	79.8	76.4	90.6 J	84.5	90 J	44.1	84.4	
PESTICIDES																												
ALDRIN	0.37	44	E	4.7	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BHC, ALPHA	41	190	E	13	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BHC, BETA-	10	59	E	44	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BHC, DELTA-	800	3,900	E	1700	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BHC, GAMMA (LINDANE)	20	72	E	61	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
CHLORODANE, ALPHA-	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
CHLORODANE, BETA-	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DDD, 4,4'-	16	1,800	E	330	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DDE, 4,4'-	4	870	E	230	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DDT, 4,4'-	0.55	330	E	230	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DIELDRIN	16	440	E	5	G	10000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ENDOSULFAN I (ALPHA)	50	260	E	17000	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ENDOSULFAN II (BETA)	45	260	E	17000	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ENDOSULFAN SULFATE	12	70	E	17000	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ENDRIN	0.2	5.5	E	840	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ENDRIN ALDEHYDE	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ENDRIN KEYTONE	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
HEPTACHLOR	18	310	E	18	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
HEPTACHLOR EPOXIDE	20	1,100	E	8.7	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
METHOXYCHLOR	4.5	710	E	14000	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TOXAPHENE	0.3	1.2	E	72	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
HERBICIDES																												
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	700	180	E	28000	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DB, 2,4-	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DICHLOROPROPIONIC ACID (DALAPON), 2,2-	2,000	530	E	5500	N	6300	N	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dicamba	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorprop	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DINOSEB	70	29	E	2800	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MCPA	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MCPP	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	7,000	1,500	E	28000	G	190000	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-4																												

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

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TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in mg/kg)	Soil-to-Groundwater Values		Soil Direct Contact Values		Soil Screening Values for Protection of Indoor Air ²		Closure Requirements for UST Systems ³																
	Non-Use Aquifers		Non-Residential		USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen		Unsaturated Soil Standard for UST Closure															
	Non-Residential		Surface Soil 0-2 feet	Subsurface Soil 2-15 feet			Non-Residential Sites	P20SB-13 (1.5-3.5)	P20SB-14 (2-3)	P20SB-16 (1-2)	P21SB-01 (3-5)	P21SB-02 (0.5-1.5)	P21SB-03 (0.5-1.5)	P22SB-01 (1-2)	P22SB-01 (2.5-3)	P22SB-02 (0.5-1)	P22SB-03 (0.5-1)	P22SB-04 (0.5-1)	P23SB-01 (0.8-2)	P23SB-02 (0.5-1)	P23SB-03 (1-2)	P23SB-04 (0.5-1)	P24SB-01 (1-2)
	100 X GW MSC	Generic Value ¹						P20SB-13 (1.5-3.5)	P20SB-14 (2-3)	P20SB-16 (1-2)	P21SB-01 (3-5)	P21SB-02 (0.5-1.5)	P21SB-03 (0.5-1.5)	P22SB-01 (1-2)	P22SB-01 (2.5-3)	P22SB-02 (0.5-1)	P22SB-03 (0.5-1)	P22SB-04 (0.5-1)	P23SB-01 (0.8-2)	P23SB-02 (0.5-1)	P23SB-03 (1-2)	P23SB-04 (0.5-1)	P24SB-01 (1-2)
								07-11-07	07-12-07	07-12-07	07-09-07	07-11-07	07-11-07	07-02-07	07-02-07	07-02-07	07-02-07	07-02-07	07-18-07	07-18-07	07-18-07	07-18-07	07-11-07
SVOCs (continued)																							
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	5.5	1.7E	5	5.7	7.1	3,100+	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL) PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BROMOPHENYL PHENYL ETHER, 4-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BUTYLBENZYL PHTHALATE	270	10,000	10000	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CAPROLACTAM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CARBAZOLE	120	760E	4000	190000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROANILINE, 4-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLORO-3-METHYLPHENOL, 4-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLORONAPHTHALENE, 2-	820	18,000E	190000	190000	NOC	NOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROPHENOL, 2-	4	4.4E	920	1100	270	27,000+	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROPHENYL PHENYL ETHER, 4-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHRYSENE	0.19	230E	11000	190000	NA	NA	230	<0.0078	2.7	0.022	0.11	0.14	0.034	0.0023 JPG	<0.0081	0.012 PG	0.0071 PG	0.019 PG	0.0025 J	0.0024 J	0.0096	0.0026 JPG	4.2
DIBENZO[A,H]ANTHRACENE	0.06	270E	11	190000	NA	NA	NA	<0.0078	<0.74	<0.0079	<0.0085	<0.0076	<0.0082	<0.008	<0.0081	<0.007	<0.0069	<0.0069	<0.0076	<0.0085	<0.0073	<0.0073	<1.2
DIBENZOFURAN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DICHLOROBENZIDINE, 3,3'-	310	17,000E	180	190000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DICHLOROPHENOL, 2,4-	2,000	1,000E	8400	190000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIETHYL PHTHALATE	10,000	10,000	10000	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIMETHYLPHENOL, 2,4-	10,000	10,000	10000	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIMETHYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DI-N-BUTYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DINITRO-2-METHYLPHENOL, 4,6-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DINITROPHENOL, 2,4-	41	4.6E	5600	190000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DINITROTOLUENE, 2,4-	840	200E	260	190000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DINITROTOLUENE, 2,6- (2,6-DNT)	10,000	3,000E	2800	190000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	300	10,000	10000	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLUORANTHENE	26	3,200E	110000	190000	NA	NA	<0.0078	9.5	0.051 PG	0.14 PG	0.1 PG	0.063 PG	<0.008	<0.0081	<0.007	<0.0069	<0.0069	0.0027 JPG	0.042	0.02	<0.0073	12	
FLUORENE	190	3,800E	110000	190000	NOC	NOC	3,800	0.0019 J	1.2	0.0029 JPG	<0.0085	<0.0076	<0.0082	<0.008	0.049	0.0087 PG	0.0025 JPG	<0.0069	0.0012 JPG	<0.0085	0.0013 JPG	<0.0073	1.8
HEXACHLOROBENZENE	0.6	5.8E	50	190000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	100	1,200E	560	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	180	3,300E	10000	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROETHANE	10	56E	2800	190000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
INDENO[1,2,3-CD]PYRENE	6.2	190,000	110	190000	NA	NA	28,000	<0.0078	2.2	<0.0079	0.16	0.12 PG	0.042 PG	0.0013 JPG	<0.0081	<0.007	0.014	0.012 PG	0.0011 JPG	<0.0085	0.0092	0.0058 JPG	2.7
ISOPHORONE	10,000	1,900E	10000	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
METHYLNAPHTHALENE, 1-	NA	NA	NA	NA	NA	NA	NA	<0.038	<3.7	<0.039	0.037 JPG	<0.037	<0.04	<0.039	<0.04	<0.035	0.022 JPG	<0.034	<0.038	<0.042	<0.036	<0.036	<5.9
METHYLNAPHTHALENE, 2-	200	8,000E	10000	10000	NOC	NOC	NA	<0.038	2.7 JPG	0.027 J	0.15 JPG	0.074 PG	0.021 JPG	<0.039	<0.04	0.27 PG	0.081	<0.034	0.021 JPG	<0.042	0.038 PG	0.022 JPG	6.6
METHYLPHENOL, 2-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
METHYLPHENOL, 4-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NAPHTHALENE	3,000	7,500E	56000	190000	NOC	NOC	25	<0.038	<3.7	0.0061 JPG	0.076 PG	0.07 PG	<0.04	<0.039	0.0055 JPG	0.089 PG	0.021 J	0.014 JPG	0.013 J	<0.042	0.011 J	0.0053 JPG	1.6 JPG
NITROANILINE, 2-	0.58	0.091E	160	190000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NITROANILINE, 3-	0.58	0.1E	160	190000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NITROANILINE, 4-	0.58	0.086E	160	190000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NITROBENZENE	5,100	2,200E	1400	10000	190	870+	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NITROPHENOL, 2-	82,000	17,000E	22000	190000	NA	NOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NITROPHENOL, 4-	6,000	4,100E	22000	190000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NITROSODI-N-PROPYLAMINE, N-	37	5.1E	11	10000	NA>																		

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in mg/kg)	Soil-to-Groundwater Values		Soil Direct Contact Values		Soil Screening Values for Protection of Indoor Air ²		Closure Requirements for UST Systems ³																
	Non-Use Aquifers		Non-Residential		USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen	Unsaturated Soil Standard for UST Closure																
	Non-Residential		Surface	Subsurface			Non-Residential Sites	P20SB-13 (1.5-3.5)	P20SB-14 (2-3)	P20SB-16 (1-2)	P21SB-01 (3-5)	P21SB-02 (0.5-1.5)	P21SB-03 (0.5-1.5)	P22SB-01 (1-2)	P22SB-01 (2.5-3)	P22SB-02 (0.5-1)	P22SB-03 (0.5-1)	P22SB-04 (0.5-1)	P23SB-01 (0.8-2)	P23SB-02 (0.5-1)	P23SB-03 (1-2)	P23SB-04 (0.5-1)	P24SB-01 (1-2)
	100 X GW MSC	Generic Value ¹	Soil 0-2 feet	Soil 2-15 feet				07-11-07	07-12-07	07-12-07	07-09-07	07-11-07	07-11-07	07-02-07	07-02-07	07-02-07	07-02-07	07-02-07	07-18-07	07-18-07	07-18-07	07-18-07	07-11-07
PCBs (continued)																							
PCB-1254 (AROCLOR)	0.14	280 E	44 G	10000 C	NA	NA	NA	<0.019	<0.019	<0.02	0.029	0.89	0.42	<0.099	<0.1	<0.087	<0.087	<0.087	<0.019	<0.021	NA	17	0.035
PCB-1260 (AROCLOR)	0.43	1,900 E	130 G	190000 C	NA	NA	NA	<0.019	<0.019	<0.02	<0.021	<0.019	<0.02	<0.099	<0.1	3.1	<0.087	0.06 J	1.1	0.019 J	NA	<0.18	<0.02
INORGANICS																							
ARSENIC	5000	150000	53 G	190000 C	NA	NA	NA	11.6	10.6	25.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM AND COMPOUNDS	190000	190000	190000 C	190000 C	NA	NA	NA	140	83.9	147	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	500	38000	210 G	190000 C	NA	NA	NA	<0.58	0.12 B	0.16 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM (III)	10000	190000	190000 C	190000 C	NA	NA	NA	21.3	21.4	12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	100000	190000	100000 G	190000 C	NA	NA	NA	29.8	25.9	28.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CYANIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	500	190000	1000 S	190000 C	NA	NA	450	17.9 J	21.7	27.5 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY	200	10000	840 G	190000 C	NA	NA	NA	0.042	0.049	0.041	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	10000	190000	56000 G	190000 C	NA	NA	NA	38.3	19.6	16.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	5000	26000	14000 G	190000 C	NA	NA	NA	0.74	0.64	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	10000	84000	14000 G	190000 C	NA	NA	NA	0.31 B	0.33 B	0.25 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	190000	190000	190000 C	190000 C	NA	NA	NA	91.7	63.6 J	41.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PESTICIDES																							
ALDRIN	0.37	44 E	4.7 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BHC, ALPHA	41	190 E	13 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BHC, BETA-	10	59 E	44 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BHC, DELTA-	800	3,900 E	1700 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BHC, GAMMA (LINDANE)	20	72 E	61 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLORODANE, ALPHA-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLORODANE, BETA-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DDD, 4,4'-	16	1,800 E	330 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DDE, 4,4'-	4	870 E	230 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DDT, 4,4'-	0.55	330 E	230 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIELDRIN	16	440 E	5 G	10000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ENDOSULFAN I (ALPHA)	50	260 E	17000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ENDOSULFAN II (BETA)	45	260 E	17000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ENDOSULFAN SULFATE	12	70 E	17000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ENDRIN	0.2	5.5 E	840 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ENDRIN ALDEHYDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ENDRIN KEYTONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEPTACHLOR	18	310 E	18 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEPTACHLOR EPOXIDE	20	1,100 E	8.7 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
METHOXYCHLOR	4.5	710 E	14000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOXAPHENE	0.3	1.2 E	72 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HERBICIDES																							
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	700	180 E	28000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DB, 2,4-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DICHLOROPROPIONIC ACID (DALAPON), 2,2-Dicamba	2,000	530 E	5500 N	6300 N	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichloroprop	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DINOSEB	70	29 E	2800 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MCPA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MCPP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	7,000	1,500 E	28000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TPH	5	22 E	22000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OTHER																							
HEXANE, N-	NA	NA	NA	NA	NA	NA	NA	<194	<185	<196	4780	NA	NA	<201	3,370	4,070	866	6,140	<190	<213	<183	<182	<198
ETHYLENE GLYCOL	10,000	10,000 C	10000 C	10000 C	120000+	120000+	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	Non-Use Aquifers		Non-Residential			USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen		Unsaturated Soil Standard for UST Closure															
	Non-Residential		Surface Soil 0-2 feet	Subsurface Soil 2-15 feet	Non-Residential Sites																			
	100 X GW MSC	Generic Value ¹																						
										P24SB-02 (1-2)	P24SB-03 (1-2)	P24SB-04 (0.5-1.5)	P25SB-01 (7-9)	P25SB-04 (8-9)	P25SB-05 (8-9.5)	P26SB-01 (7.3-9.3)	P26SB-02 (10-11)	P26SB-03 (11-12)	P27SB-01 (0-1)	P28SB-01 (1-2)	P29SB-01 (1-2.5)	P29SB-02 (3.5-4.5)	P30SB-01 (8-10)	P31SB-01 (5-7)
									07-11-07	07-11-07	07-11-07	07-09-07	07-08-07	07-07-07	06-30-07	06-29-07	07-09-07	07-16-07	07-09-07	07-08-07	07-08-07	07-08-07	07-01-07	06-30-07
VOCs																								
ACETONE	10,000	1,100 E	10000 C	10000 C	110,000+	110,000+	NA	NA	NA	NA	NA	<0.03	<0.021	<0.023	<0.022	<0.023	<0.033	<0.038	NA	NA	<0.035	NA	<0.027	<0.027
BENZENE	50	13 E	210 N	240 N	0.63	380	0.5	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
BROMODICHLOROMETHANE	10	3.4 E	45 N	51 N	0.85	1,600+	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
BROMOFORM	1,000	440 E	1500 N	1700 N	160	1300+	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
BROMOMETHANE	100	54 E	270 N	300 N	1.3	9,600+	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
BUTANONE, 2-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
CARBON DISULFIDE	410	350 E	10000 C	10000 C	66	1,900+	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	0.0024 J	NA	<0.0066	<0.0067
CARBON TETRACHLORIDE	5.0	2.6 E	110 N	120 N	0.12	440+	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
CHLOROBENZENE	1,000	610 E	10000 C	10000 C	13	300+	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
CHLOROETHANE	9,000	1,900 E	10000 C	10000 C	1.8	1,300+	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
CHLOROFORM	100	25 E	17 N	19 N	0.074	2,100+	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
CHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
CYCLOHEXANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
DIBROMO-3-CHLOROPROPANE, 1,2-	2	0.92 E	11 N	12 N	3.2	110	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
DIBROMOCHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	0.5	0.12 E	1900 N	2100 N	0.29	1,000+	0.005	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
DICHLOROBENZENE, 1,2-	6,000	5,900 E	10000 C	10000 C	150+	150+	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
DICHLOROBENZENE, 1,3-	6,000	6,100 E	10000 C	10000 C	NA	NA	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
DICHLOROBENZENE, 1,4-	NA	NA	NA	NA	13	NOC	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
DICHLORODIFLUOROMETHANE (FREON 12)	10,000	10,000 C	10000 C	10000 C	2.6	480+	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
DICHLOROETHANE, 1,1-	110	27 E	1000 N	1200 N	2.7	1,200+	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
DICHLOROETHANE, 1,2-	5	1 E	63 N	73 N	0.83	1,700+	0.5	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
DICHLOROETHENE, 1,1-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
DICHLOROETHENE, cis-1,2-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
DICHLOROETHENE, trans-1,2-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
DICHLOROPROPANE, 1,2-	5	1.1 E	160 N	180 N	0.88	630+	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
DICHLOROPROPENE, cis-1,3-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
DICHLOROPROPENE, trans-1,3-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
ETHYLBENZENE	7,000	4,600 E	10000 C	10000 C	9.5	110+	70	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
HEXANONE, 2-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
ISOPROPYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
METHYL ACETATE	10,000	1,900 E	10000 C	10000 C	19,000	45,000+	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0023 JB	<0.0051	1.2 JB	0.0011 JB	0.0013 JB	0.0022 JB	0.0022 J	NA	NA	0.0026 JB	NA	0.0024 JB	<0.0067
METHYLCYCLOHEXANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0.0067
METHYL-2-PENTANONE, 4-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0075	<0.0051	<0.0057	<0.0056	<0.0058	<0.0082	<0.0094	NA	NA	<0.0088	NA	<0.0066	<0

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in mg/kg)	Soil-to-Groundwater Values		Soil Direct Contact Values		Soil Screening Values for Protection of Indoor Air ²		Closure Requirements for UST Systems ³	P24SB-02 (1-2) 07-11-07	P24SB-03 (1-2) 07-11-07	P24SB-04 (0.5-1.5) 07-11-07	P25SB-01 (7-9) 07-09-07	P25SB-04 (8-9) 07-08-07	P25SB-05 (8-9.5) 07-07-07	P26SB-01 (7.3-9.3) 06-30-07	P26SB-02 (10-11) 06-29-07	P26SB-03 (11-12) 07-09-07	P27SB-01 (0-1) 07-16-07	P28SB-01 (1-2) 07-09-07	P29SB-01 (1-2.5) 07-08-07	P29SB-02 (3.5-4.5) 07-08-07	P30SB-01 (8-10) 07-08-07	P31SB-01 (5-7) 07-01-07	US-01 06-30-07			
	Non-Use Aquifers		Non-Residential		USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen	Unsaturated Soil Standard for UST Closure																			
	Non-Residential		Surface Soil 0-2 feet	Subsurface Soil 2-15 feet			Non-Residential Sites																			
	100 X GW MSC	Generic Value ¹																								
SVOCs (continued)																										
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.26	0.038	<0.057	<0.062	NA	NA	NA	NA	<0.045	<0.3			
BIS(2-CHLOROETHYL)ETHER	5.5	1.7E	5	N	5.7	N	7.1	3,100+	NA	NA	NA	NA	NA	<0.053	0.0078	<0.012	<0.013	NA	NA	NA	NA	<0.0091	<0.062			
BIS(2-ETHYLHEXYL) PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.26	0.058	0.0088 J	0.067	NA	NA	NA	NA	<0.045	<0.3			
BROMOPHENYL PHENYL ETHER, 4-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.26	0.038	<0.057	<0.062	NA	NA	NA	NA	<0.045	<0.3			
BUTYLBENZYL PHTHALATE	270	10,000	C	10000	C	10000	C	NA	NA	NA	NA	NA	NA	<0.26	0.012 J	<0.057	0.023 J	NA	NA	NA	NA	<0.045	<0.3			
CAPROLACTAM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.26	<0.038	<0.057	0.11	NA	NA	NA	NA	<0.045	<0.3			
CARBAZOLE	120	760	E	4000	G	190000	C	NA	NA	NA	NA	NA	NA	0.036 J	<0.0078	<0.012	0.05	NA	NA	NA	NA	<0.0091	<0.062			
CHLOROANILINE, 4-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.26	<0.038	<0.057	<0.062	NA	NA	NA	NA	<0.045	<0.3			
CHLORO-3-METHYLPHENOL, 4-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.26	<0.038	<0.057	<0.062	NA	NA	NA	NA	<0.045	<0.3			
CHLORONAPHTHALENE, 2-	820	18,000	E	190000	C	190000	C	NOC	NOC	NA	NA	NA	NA	0.053	<0.0078	<0.012	<0.013	NA	NA	NA	NA	<0.0091	<0.062			
CHLOROPHENOL, 2-	4	4.4	E	920	N	1100	N	270	27,000+	NA	NA	NA	NA	0.26	<0.039	<0.057	<0.063	NA	NA	NA	NA	<0.045	<0.31			
CHLOROPHENYL PHENYL ETHER, 4-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.26	<0.038	ND	<0.063	NA	NA	NA	NA	<0.045	<0.3			
CHRYSENE	0.19	230	E	11000	G	190000	C	NA	NA	230	0.016	0.022	<0.0079	<0.011	0.0016 JPG	0.033 PG	0.15	0.042	0.0093 J	0.32	NA	0.015	0.0051 J	NA	<0.0091	<0.062
DIBENZO[A,H]ANTHRACENE	0.06	270	E	11	G	190000	C	NA	NA	NA	<0.0076	<0.0079	<0.0079	<0.011	<0.0075	<0.0076	<0.053	<0.0078	ND	0.48	NA	<0.011	<0.013	NA	<0.0091	<0.062
DIBENZOFURAN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.36	0.23	0.045 J	0.04 J	NA	NA	NA	NA	0.065	<0.3			
DICHLOROBENZIDINE, 3,3'-	310	17,000	E	180	G	190000	C	NA	NA	NA	NA	NA	NA	<0.26	<0.038	<0.057	<0.062	NA	NA	NA	NA	<0.045	<0.3			
DICHLOROPHENOL, 2,4-	2,000	1,000	E	8400	G	190000	C	NA	NA	NA	NA	NA	NA	<0.053	<0.0078	<0.012	<0.013	NA	NA	NA	NA	<0.0091	<0.062			
DIETHYL PHTHALATE	10,000	10,000	C	10000	C	10000	C	NA	NA	NA	NA	NA	NA	<0.26	<0.038	<0.057	0.0088 J	NA	NA	NA	NA	<0.045	<0.3			
DIMETHYLPHENOL, 2,4-	10,000	10,000	C	10000	C	10000	C	NA	NA	NA	NA	NA	NA	<0.26	<0.038	<0.057	<0.062	NA	NA	NA	NA	<0.045	<0.3			
DIMETHYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.053	<0.0078	<0.012	<0.013	NA	NA	NA	NA	<0.0091	<0.062			
DI-N-BUTYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.26	<0.038	<0.057	0.017 J	NA	NA	NA	NA	0.012 J	<0.3			
DINITRO-2-METHYLPHENOL, 4,6-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.2	<0.17	<0.26	<0.28	NA	NA	NA	NA	<0.2	1400			
DINITROPHENOL, 2,4-	41	4.6	E	5600	G	190000	C	NA	NA	NA	NA	NA	NA	<1.2	<0.17	<0.26	<0.28	NA	NA	NA	NA	<0.2	1400			
DINITROTOLUENE, 2,4-	840	200	E	260	G	190000	C	NA	NA	NA	NA	NA	NA	<0.26	<0.038	<0.057	<0.062	NA	NA	NA	NA	<0.045	<0.3			
DINITROTOLUENE, 2,6- (2,6-DNT)	10,000	3,000	E	2800	G	190000	C	NA	NA	NA	NA	NA	NA	<0.26	<0.038	<0.057	<0.062	NA	NA	NA	NA	<0.045	<0.3			
DI-N-OCTYL PHTHALATE	300	10,000	C	10000	C	10000	C	NA	NA	NA	NA	NA	NA	<0.26	<0.038	<0.057	0.0048 J	NA	NA	NA	NA	<0.045	<0.3			
FLUORANTHENE	26	3,200	E	110000	G	190000	C	NA	NA	NA	0.056	0.061	<0.0079	<0.011	<0.0075	<0.0076	0.048 J	0.017	0.0066 J	0.63	NA	0.0079 J	0.011 JPG	NA	0.004 J	<0.062
FLUORENE	190	3,800	E	110000	G	190000	C	NOC	NOC	3,800	0.0036 J	0.0036 J	0.0017 JPG	0.0019 J	0.0015 JPG	0.013 PG	<0.053	<0.0078	0.0039 J	0.03	NA	0.0017 J	0.012 JPG	NA	0.02	<0.062
HEXACHLOROBENZENE	0.6	5.8	E	50	G	190000	C	NA	NA	NA	NA	NA	NA	<0.053	<0.0078	<0.012	<0.013	NA	NA	NA	NA	<0.0091	<0.062			
HEXACHLOROBUTADIENE	100	1,200	E	560	G	10000	C	NA	NA	NA	NA	NA	NA	<0.053	<0.0078	<0.012	<0.013	NA	NA	NA	NA	<0.0091	<0.062			
HEXACHLOROCYCLOPENTADIENE	180	3,300	E	10000	C	10000	C	NA	NA	NA	NA	NA	NA	<0.053	<0.0078	<0.012	<0.013	NA	NA	NA	NA	<0.0091	<0.062			
HEXACHLOROETHANE	10	56	E	2800	G	190000	C	NA	NA	NA	NA	NA	NA	<0.053	<0.0078	<0.012	<0.013	NA	NA	NA	NA	<0.0091	<0.062			
INDENO[1,2,3-CD]PYRENE	6.2	190,000	C	110	G	190000	C	NA	NA	28,000	0.0052 JPG	0.018	<0.0079	<0.011	0.0014 JPG	<0.0076	<0.053	<0.0078	<0.012	0.22	NA	0.0056 J	<0.013	NA	<0.0091	<0.062
ISOPHORONE	10,000	1,900	E	10000	C	10000	C	NA	NA	NA	NA	NA	NA	0.17 J	<0.038	<0.057	<0.062	NA	NA	NA	NA	<0.045	<0.3			
METHYLNAPHTHALENE, 1-	NA	NA	NA	NA	NA	NA	NA	NA	<0.037	<0.039	<0.039	<0.055	<0.037	0.13 PG	1.1	0.43	0.063	0.086	NA	<0.052	0.25	NA	0.13	<0.062		
METHYLNAPHTHALENE, 2-	200	8,000	E	10000	C	10000	C	NOC	NOC	NA	0.039	0.035 JPG	0.026 J	0.014 J	0.015 JPG	0.38	1.5	0.55	0.093	0.11	NA	0.0099 JPG	<0.062	NA	0.17	<0.062
METHYLPHENOL, 2-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.26	<0.038	<0.057	<0.062	NA	NA	NA	NA	<0.045	<0.3			
METHYLPHENOL, 4-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.26	<0.038	<0.057	0.0082 J	NA	NA	NA	NA	<0.045	<0.3			
NAPHTHALENE	3,000	7,500	E	56000	G	190000	C	NOC	NOC	25	0.012 J	0.011 J	<0.039	<0.055	<0.037	0.12	0.71	0.34	0.074	0.072	NA	<0.052	0.44	NA	0.17	<0.062
NITROANILINE, 2-	0.58	0.091	E	160	G	190000	C	NA	NA	NA	NA	NA	NA	<0.26	<0.038	<0.057	<0.062	NA	NA	NA	NA	<0.045	<0.3			
NITROANILINE, 3-	0.58	0.1	E	160	G	190000	C	NA	NA	NA	NA	NA	NA	<0.26	<0.038	<0.057	<0.062	NA	NA	NA	NA	<0.045	<0.3			
NITROANILINE, 4-	0.58	0.086	E	160	G	190000	C	NA	NA	NA	NA	NA	NA	<0.26	<0.038	<0.057	<0.062	NA	NA	NA	NA	<0.045	<0.3			
NITROBENZENE	5,100	2,200	E	1400	G	10000	C	190	870+	NA	NA	NA	NA	<0.053	<0.0078	<0.012										

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in mg/kg)	Soil-to-Groundwater Values		Soil Direct Contact Values		Soil Screening Values for Protection of Indoor Air ²		Closure Requirements for UST Systems ³	P24SB-02 (1-2)	P24SB-03 (1-2)	P24SB-04 (0.5-1.5)	P25SB-01 (7-9)	P25SB-04 (8-9)	P25SB-05 (8-9.5)	P26SB-01 (7.3-9.3)	P26SB-02 (10-11)	P26SB-03 (11-12)	P27SB-01 (0-1)	P28SB-01 (1-2)	P29SB-01 (1-2.5)	P29SB-02 (3.5-4.5)	P30SB-01 (8-10)	P31SB-01 (5-7)	US-01	
	Non-Use Aquifers		Non-Residential		USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen	Unsaturated Soil Standard for UST Closure																	
	Non-Residential		Surface Soil 0-2 feet	Subsurface Soil 2-15 feet			Non-Residential Sites																	
	100 X GW MSC	Generic Value ¹																						
PCBs (continued)																								
PCB-1254 (AROCOR)	0.14	280 E	44 G	10000 C	NA	NA	NA	0.0029 J	<0.02	<0.02	<0.027	<0.019	0.69	0.019	0.0047 J	<0.029	1.1	NA	<0.026	<0.031	NA	<0.11	<0.022	
PCB-1260 (AROCOR)	0.43	1,900 E	130 G	190000 C	NA	NA	NA	<0.019	<0.02	<0.02	<0.027	<0.019	<0.094	0.019	<0.019	<0.029	<0.032	NA	<0.026	<0.031	NA	<0.11	<0.022	
INORGANICS																								
ARSENIC	5000	150000	53 G	190000 C	NA	NA	NA	NA	NA	NA	1.5 B	15.4	6.1	7.1	18.6	8.4	27.1	NA	NA	NA	4.8	11.9	1.4	
BARIUM AND COMPOUNDS	190000	190000	190000 C	190000 C	NA	NA	NA	NA	NA	NA	381	151	72.7	70.1 J	144 J	210	92.6 B	NA	NA	NA	107	55.4	345 J	
CADMIUM	500	38000	210 G	190000 C	NA	NA	NA	NA	NA	NA	<0.83	0.059 B	<0.57	<0.57	<0.58	0.34 B	2 B	NA	NA	NA	<0.57	<0.68	<0.67	
CHROMIUM (III)	10000	190000	190000 C	190000 C	NA	NA	NA	NA	NA	NA	8.9 J	9.2 J	18.9	15.7	10.9	11.9 J	22.2	NA	NA	NA	18.6 J	19.2	24.9	
COPPER	100000	190000	100000 G	190000 C	NA	NA	NA	NA	NA	NA	1.7 B	31.1	27.6	19.7	34.9	7.6	57.9	NA	NA	NA	22.6	60.7	7.2	
CYANIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
LEAD	500	190000	1000 S	190000 C	NA	NA	450	NA	NA	NA	0.56	15.1	16	13.2	23.4	3.6	72.4	NA	NA	NA	15.4	49.2	<0.4	
MERCURY	200	10000	840 G	190000 C	NA	NA	NA	NA	NA	NA	<0.055	0.045	0.043	0.031 B	0.05	0.034 B	0.085	NA	NA	NA	0.044	0.024 B	<0.044	
NICKEL	10000	190000	56000 G	190000 C	NA	NA	NA	NA	NA	NA	1.2 B	36.1	29.5	19.4	36.8	11.1	229 E	NA	NA	NA	25.2	61.3	5.0 B	
SELENIUM	5000	26000	14000 G	190000 C	NA	NA	NA	NA	NA	NA	<1.7	<0.56	0.33 B	1.7 J	0.59 J	<4.4	<4.8	NA	NA	NA	0.38 B	2.2	<1.3	
SILVER	10000	84000	14000 G	190000 C	NA	NA	NA	NA	NA	NA	1.3 J	0.14 B J	0.17 B	0.23 B	<0.58	1.9 J	0.75 B	NA	NA	NA	0.16 B J	<0.68	1.1	
ZINC	190000	190000	190000 C	190000 C	NA	NA	NA	NA	NA	NA	2.7 B	40.8	76.9	57.1 J	92.5 J	16.3	410 JE	NA	NA	NA	67.3	133	1.6 B J	
PESTICIDES																								
ALDRIN	0.37	44 E	4.7 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0019	0.00033 JPG	0.0029 JPG	0.015	NA	NA	NA	NA	NA	
BHC, ALPHA	41	190 E	13 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00056 J	<0.002	0.00052 JPG	0.0015 JPG	NA	NA	NA	NA	NA	
BHC, BETA-	10	59 E	44 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0011 JPG	0.00032 JPG	<0.003	0.00075 JPG	NA	NA	NA	NA	NA	
BHC, DELTA-	800	3,900 E	1700 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0019	<0.002	0.0015 J	<0.0032	NA	NA	NA	NA	NA	
BHC, GAMMA (LINDANE)	20	72 E	61 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0059	0.0031	<0.003	0.0048	NA	NA	NA	NA	NA	
CHLORODANE, ALPHA-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0019	<0.002	<0.003	<0.0032	NA	NA	NA	NA	NA	
CHLORODANE, BETA-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0019	<0.002	<0.003	0.032 PG	NA	NA	NA	NA	NA	
DDD, 4,4'-	16	1,800 E	330 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0019	<0.002	<0.003	<0.0032	NA	NA	NA	NA	NA	
DDE, 4,4'-	4	870 E	230 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0019	<0.002	<0.003	0.0017 JPG	NA	NA	NA	NA	NA	
DDT, 4,4'-	0.55	330 E	230 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0019	<0.002	<0.003	<0.0032	NA	NA	NA	NA	NA	
DIELDRIN	16	440 E	5 G	10000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0019	0.0017 JPG	<0.003	0.043	NA	NA	NA	NA	NA	
ENDOSULFAN I (ALPHA)	50	260 E	17000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0019	<0.002	<0.003	0.0059	NA	NA	NA	NA	NA	
ENDOSULFAN II (BETA)	45	260 E	17000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0019	<0.002	<0.003	0.031 PG	NA	NA	NA	NA	NA	
ENDOSULFAN SULFATE	12	70 E	17000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0019	<0.002	<0.003	0.063 PG	NA	NA	NA	NA	NA	
ENDRIN	0.2	5.5 E	840 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0019	<0.002	<0.003	0.045	NA	NA	NA	NA	NA	
ENDRIN ALDEHYDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0019	<0.002	<0.003	<0.0032	NA	NA	NA	NA	NA	
ENDRIN KEYTONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00024 J	<0.002	<0.003	<0.0032	NA	NA	NA	NA	NA	
HEPTACHLOR	18	310 E	18 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0019	<0.002	<0.003	0.0059	NA	NA	NA	NA	NA	
HEPTACHLOR EPOXIDE	20	1,100 E	8.7 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00029 JPG	<0.002	<0.003	<0.0032	NA	NA	NA	NA	NA	
METHOXYCHLOR	4.5	710 E	14000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0037	<0.0038	<0.0058	0.12	NA	NA	NA	NA	NA	
TOXAPHENE	0.3	1.2 E	72 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.076	<0.078	<0.12	<0.13	NA	NA	NA	NA	NA	
HERBICIDES																								
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	700	180 E	28000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.91	<0.093	<0.14	<0.15	NA	NA	NA	NA	NA	
DB, 2,4-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.091	<0.093	<0.14	<0.15	NA	NA	NA	NA	NA	
DICHLOROPROPIONIC ACID (DALAPON), 2,2-Dicamba	2,000	530 E	5500 N	6300 N	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.16	<0.17	NA	NA	NA	NA	NA	
Dichlorprop	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.045	<0.047	<0.07	<0.076	NA	NA	NA	NA	NA	
DINOSEB	70	29 E	2800 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.091	<0.093	<0.14	<0.15	NA	NA	NA	NA	NA	
MCPA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.014	<0.014	<0.021	<0.023	NA	NA	NA	NA	NA	
MCPP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<9.1	<9.3	<14	<15	NA	NA	NA	NA	NA	
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	7,000	1,500 E	28000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<9.1	<9.3	<14	<15	NA	NA	NA	NA	NA	
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TPH	5	22 E	22000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.023	<0.023	<0.035	<0.038	NA	NA	NA	NA	NA	
OTHER																								
ETHYLENE GLYCOL	10,000	10,000 C	10000 C	10000 C	120000+	120000+	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	72	NA	NA	NA	NA	NA	

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY DATA
UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL,
PREPARED AT REQUEST
OF GM LEGAL COUNSEL

Notes:

All concentrations are in milligrams per kilogram (mg/kg).

Soil Cleanup Criteria: Soil to Groundwater and Direct Contact criteria are per the Title 25 of the Pennsylvania Code, Chapter 250 - Administration of Land Recycling Program (Act 2) Subchapter C - Statewide Health Standards (11/24/01).

C: Cap = The physical capacity of the soil to contain a regulated substance.

G: Direct contact through ingestion.

N: Direct contact through inhalation.

E: Number calculated by the soil to groundwater equation in Section 250.308 of the PA Code.

¹: The generic value is the concentration determined not to produce a concentration in groundwater in the aquifer in excess of the MSC for groundwater.

MSC: Medium-Specific Concentrations = Maximum Contaminant Limit established by the PADEP or EPA

²: PADEP Land Recycling Program Technical Guidance Manual - Section IV.A.4. Vapor Intrusion into Buildings from Groundwater and Soil under the Act 2 Statewide Health Standard. Tables 4 - Soil Screening Values for Protection of Indoor Air - Residential and Table 5 - Soil Screening Values for Protection of Indoor Air - Nonresidential (Commercial/Industrial).

PA Defaults: Occupational Safety and Health Administration (OSHA)-derived screen.

PEL: OSHA Permissible Exposure Limits.

NOC: Not of concern.

+: Soil saturation concentration (C_{sat}) - Concentrations above C_{sat} may suggest the need to investigate the potential presence of non-aqueous phase liquid (NAPL).

³: The Unsaturated Soil Standards for UST Closure are per the PADEP Storage Tank Program's Closure Requirements for UST Systems (4/1/98). To be conservative, the Soil Standards for sites where groundwater was encountered are listed.

Exceedances: Cleanup Criteria exceedances are bolded and highlighted in gray.

VOCs: Volatile organic compounds

SVOCs: Semi-volatile organic compounds

PCBs: Polychlorinated biphenyls

TPH: Total petroleum hydrocarbon. The Act 2 Statewide Health Standard tables do not include TPH criteria.

However, TPH was used as an indicator of a release of petroleum during this investigation. Concentrations of TPH less than 1,000 mg/kg are highlighted in green; concentrations between 1,000 and 10,000 mg/kg are highlighted in yellow; concentrations greater than 10,000 mg/kg are highlighted in red.

NA: Not analyzed per the analytical protocol/not available.

<: Not detected, or less than the listed detection limit.

J: Estimated value

B: Analyte detected in associated blank

PG: The percentage difference between the original and confirmation analyses is greater than 40%.

TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in ug/L)	NONUSE AQUIFERS		GROUNDWATER SCREENING VALUES FOR PROTECTION OF INDOOR AIR ¹		CLOSURE REQUIREMENTS FOR UST SYSTEMS														
	Non- Residential		USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA-PA Nonresidential PELs Volatilization to Indoor Air Screen		Water Standard/Action Level ²	P02TW-02 7/17/2007	P02TW-04 7/19/2007	P03TW-01 7/12/2007	P04TW-01 6/29/2007	P04TW-02 6/30/2007	P04TW-02 7/1/2007	P05TW-01 7/20/2007	DUP-07 7/20/2007	P07TW-01 7/3/2007	P07TW-03 7/12/2007	P08MW-01 8/6/2007	P08MW-02 7/30/2007	P09TW-03 7/12/2007
VOCs																			
ACETONE	100000	G	NOC	NOC	NA	<5	4.8 J	<5	4.9 J	26	NA	<500	<500	7.7	NA	31	<5	<5	<5
BENZENE	500	M	5900	NOC	5	<1	<1	<1	0.35 J	10	NA	<100	<100	0.36 J	NA	<1	<1	<1	<1
BROMODICHLOROMETHANE	100	M	2700	NOC	NA	<1	<1	<1	1.6	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
BROMOFORM	8000	M	310000	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
BROMOMETHANE	1000	H	6300	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
BUTANONE, 2-	NA		NA	NA	NA	<5	<5	<5	<5	11	NA	<500	<500	4.1 J	NA	2.0 J	<5	<5	<5
CARBON DISULFIDE	4100	N	770000	NOC	NA	<1	<1	<1	<1	0.74 J	NA	<100	<100	<1	NA	0.32 J	<1	<1	<1
CARBON TETRACHLORIDE	50	M	2400	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
CHLOROBENZENE	10000	M	38000	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
CHLOROETHANE	90000	G	37000	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
CHLOROFORM	8000	M	580	NOC	NA	<1	<1	<1	5.9	<1	NA	<100	<100	<1	NA	22	<1	<1	<1
CHLOROMETHANE	NA		NA	NA	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	0.35 J	<1	<1	<1
CYCLOHEXANE	NA		NA	NA	NA	<1	<1	<1	<1	0.19 J	NA	<100	<100	<1	NA	<1	<1	0.14 J	<1
DIBROMOCHLOROMETHANE	NA		NA	NA	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
DIBROMO-3-CHLOROPROPANE, 1,2-	20	M	6000	200000	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	5	M	1000	NOC	0.05	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
DICHLOROBENZENE, 1,2-	60000	M	NOC	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
DICHLOROBENZENE, 1,3-	60000	H	NA	NA	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
DICHLOROBENZENE, 1,4-	7500	M	14000	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	0.10 J	NA	<1	<1	<1	<1
DICHLORODIFLUOROMETHANE (FREON 12)	100000	H	160000	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
DICHLOROETHANE, 1,1-	1100	N	26000	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	4.6	NA	0.28 J	0.35 J	<1	<1
DICHLOROETHANE, 1,2-	50	M	4600	NOC	5	<1	<1	<1	<1	2.3	NA	<100	<100	<1	NA	<1	<1	<1	<1
DICHLOROETHENE, 1,1-	NA		NA	NA	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
DICHLOROETHENE, cis-1,2-	NA		NA	NA	NA	<1	<1	<1	<1	<1	NA	500	510	<1	NA	<1	<1	<1	<1
DICHLOROETHENE, trans-1,2-	NA		NA	NA	NA	<1	<1	<1	<1	<1	NA	12 J	14 J	<1	NA	<1	<1	<1	<1
DICHLOROPROPANE, 1,2-	50	M	6500	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
DICHLOROPROPENE, cis-1,3-	NA		NA	NA	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
DICHLOROPROPENE, trans-1,3-	NA		NA	NA	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
ETHYL BENZENE	70000	M	45000	NA	700	<1	<1	<1	0.67 J	0.61 J	NA	<100	<100	0.11 J	NA	<1	<1	0.24 J	<1
HEXANONE, 2-	NA		NA	NA	NA	<5	<5	<5	<5	1.3 J	NA	<500	<500	<5	NA	<5	<5	<5	<5
ISOPROPYL BENZENE	NA		NA	NA	NA	<1	<1	0.27 J	<1	0.68 J	NA	<100	<100	<1	NA	<1	<1	<1	<1
METHYL ACETATE	100000	G	95000000	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
METHYLENE CHLORIDE	NA		NA	NA	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	3.3	<1	<1	<1
METHYLCYCLOHEXANE	NA		NA	NA	NA	<1	<1	0.26 J	0.31 J	0.35 J	NA	<100	<100	<1	NA	<1	<1	<1	<1
METHYL-2-PENTANONE, 4-	NA		NA	NA	NA	<5	<5	<5	<5	1.2 J	NA	<500	<500	<5	NA	<5	<5	<5	<5
METHYL TERT-BUTYL ETHER (MTBE)	200	H	640000	NOC	20	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	0.14 J	<1	<1
STYRENE	10000	M	NOC	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	0.38 J	NA	<1	<1	<1	<1
TETRACHLOROETHANE, 1,1,2,2-	30	H	6200	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
TRICHLOROBENZENE, 1,2,4-	7000	M	NOC	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
TETRACHLOROETHENE	NA		NA	NA	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
TRICHLOROETHANE, 1,1,1-	2000	M	NOC	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
TRICHLOROETHANE, 1,1,2-	50	M	9000	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
TRICHLOROETHENE	NA		NA	NA	NA	<1	<1	<1	<1	<1	NA	2900	2900	<1	NA	<1	<1	<1	<1
TRICHLOROFLUOROMETHANE	NA		NA	NA	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	170000	S	NOC	NOC	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
TOLUENE	100000	M	NOC	NOC	1000	<1	<1	<1	2.4	1.9	NA	<100	<100	0.34 J	NA	<1	<1	<1	<1
VINYL CHLORIDE	20	M	3000	1600000	NA	<1	<1	<1	<1	<1	NA	<100	<100	<1	NA	<1	<1	<1	<1
XYLENES (TOTAL)	180000	S	NOC	NOC	10000	<3	<3	<3	3.7	1.2 J	NA	<300	<300	<3	NA	<3	<3	0.96 J	<1
SVOCs																			
ACENAPHTHENE	3800	S	NOC	NOC	NA	15	2	4.5	<0.97	<1.1	NA	<0.19	<0.2	<0.98	<0.96	0.34 J PG	<0.99	0.91 J PG	<1
ACENAPHTHYLENE	16000	S	NOC	NOC	NA	2.5	2.8	<0.94	0.19 J	<1.1	NA	<0.19	<0.2	0.40 J	3.4	<0.95	0.76 J	<0.95	<1
ACETOPHENONE	10000	G	NOC	NOC	NA	NA	NA	NA	NA	NA	NA	<0.19	<0.2	NA	NA	NA	NA	NA	<1
ANTHRACENE	66	S	NOC	NOC	NA	2.7 PG	0.14 J PG	0.84 PG	<0.19	<0.21	NA	<0.19	<0.2	<0.2	0.27	<0.19	0.084 J PG	0.83 PG	<1
ATRAZINE	3	M	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.19	<0.2	NA	NA	NA	NA	NA	<1
BENZO[A]ANTHRACENE	11	S	NA	NA	0.9	0.95 PG	<0.2	0.027 J PG	<0.19	<0.21	NA	<0.19	<0.2	<0.2	0.10 J PG	<0.19	<0.2	0.036 J PG	<1
BENZO[A]PYRENE	3.8	S	NA	NA	0.2	0.98 PG	<0.2	<0.19	<0.19	<0.21	NA	<0.19	<0.2	<0.2	0.062 J	<0.19	<0.2	<0.19	<1
BENZO[B]FLUORANTHENE	1.2	S	NA	NA	0.9	<0.19	<0.2	<0.19	<0.19	<0.21	NA	<0.19	<0.2	<0.2	0.051 J PG	1.3	0.17 J PG	<0.19	<1
BENZO[GHI]PERYLENE	0.26	S	NA	NA	0.26	0.36	<0.2	<0.19	<0.19	<0.21	NA	<0.19	<0.2	<0.2	0.04				

TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in ug/L)	NONUSE AQUIFERS		GROUNDWATER SCREENING VALUES FOR PROTECTION OF INDOOR AIR ¹		CLOSURE REQUIREMENTS FOR UST SYSTEMS													
	Non- Residential		USEPA-PA Defaults	USEPA-PA														
			Nonresidential Volatilization to Indoor Air Screen	Nonresidential PELs Volatilization to Indoor Air Screen														
					Water Standard/Action Level ²	P02TW-02 7/17/2007	P02TW-04 7/19/2007	P03TW-01 7/12/2007	P04TW-01 6/29/2007	P04TW-02 6/30/2007	P04TW-02 7/1/2007	P05TW-01 7/20/2007	DUP-07 7/20/2007	P07TW-01 7/3/2007	P07TW-03 7/12/2007	P08MW-01 8/6/2007	P08MW-02 7/30/2007	P09TW-03 7/12/2007
BIS(2-CHLOROETHYL)ETHER	55	N	22000	NOC	NA	NA	NA	NA	NA	NA	NA	<0.19	<0.2	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL) PHTHALATE	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1	0.22 J	NA	NA	NA	NA	NA
BROMOPHENYL PHENYL ETHER, 4-	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
BUTYLBENZYL PHTHALATE	2700	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	0.17 J	NA	NA	NA	NA	NA
CAPROLACTAM	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.56	<0.6	NA	NA	NA	NA	NA
CARBAZOLE	1200	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.19	0.15 J	NA	NA	NA	NA	NA
CHLOROANILINE, 4-	410	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
CHLORO-3-METHYLPHENOL, 4-	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
CHLORONAPHTHALENE, 2-	8200	G	NOC	NOC	NA	NA	NA	NA	NA	NA	NA	<0.19	<0.2	NA	NA	NA	NA	NA
CHLOROPHENOL, 2-	40	H	230000	NOC	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
CHLOROPHENYL PHENYL ETHER, 4-	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
CHRYSENE	1.9	S	NA	NA	1.9	<0.19	<0.2	<0.19	<0.19	<0.21	NA	<0.19	<0.2	<0.2	0.071 J PG	<0.19	<0.2	<0.19
DIBENZO[A,H]ANTHRACENE	0.6	S	NA	NA	NA	<0.19	<0.2	<0.19	<0.19	<0.21	NA	<0.19	<0.2	<0.2	<0.19	<0.19	<0.2	<0.19
DIBENZOFURAN	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
DICHLOROBENZIDINE, 3,3'-	3100	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
DICHLOROPHENOL, 2,4-	2000	H	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.19	<0.2	NA	NA	NA	NA	NA
DIETHYL PHTHALATE	1100000	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
DIMETHYLPHENOL, 2,4-	2000000	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
DIMETHYL PHTHALATE	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
DI-N-BUTYL PHTHALATE	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	0.081 J	0.099 J	NA	NA	NA	NA	NA
DINITRO-2-METHYLPHENOL, 4,6-	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.7	<5	NA	NA	NA	NA	NA
DINITROPHENOL, 2,4-	410	N	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.7	<5	NA	NA	NA	NA	NA
DINITROTOLUENE, 2,4-	8400	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
DINITROTOLUENE, 2,6- (2,6-DNT)	100000	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
FLUORANTHENE	260	S	NA	NA	NA	<0.19	0.059 J PG	<0.19	<0.19	<0.21	NA	<0.19	0.10 J	0.036 J PG	0.88 PG	<0.19	<0.2	3.2
FLUORENE	1900	S	NOC	NOC	1500	4.3 PG	0.055 J PG	4.3 PG	0.042 J	0.033 J PG	NA	<0.19	<0.2	<0.2	0.41	<0.19	0.16 J	1.7 PG
HEXACHLORO BENZENE	6	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.19	<0.2	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	1000	H	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.19	<0.2	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	1800	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
HEXACHLOROETHANE	100	H	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
INDENO[1,2,3-CD]PYRENE	62	S	NA	NA	0.9	0.63	<0.2	<0.19	<0.19	<0.21	NA	<0.19	<0.2	<0.2	0.059 J	0.41 PG	0.058 J	<0.19
ISOPHORONE			NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
METHYLNAPHTHALENE, 1-	NA		NA	NA	NA	0.93 J PG	<1	12	<0.97	0.86 J PG	NA	<0.19	0.048 J	<0.98	<0.96	<0.95	<0.99	15
METHYLNAPHTHALENE, 2-	2000	G	NOC	NOC	NA	0.66 J PG	0.33 J PG	17	0.31 J	0.57 J PG	NA	<0.19	<0.2	<0.98	2.0 PG	<0.95	0.67 J PG	12
METHYLPHENOL, 2-	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
METHYLPHENOL, 4-	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
NAPHTHALENE	10000	H	NOC	NOC	100	0.51 J PG	<1	4.5 PG	0.19 J	0.57 J PG	NA	0.048 J	0.10 J	<0.98	1.1	<0.95	<0.99	13
NITROANILINE, 1-	5.8	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.7	<5	NA	NA	NA	NA	NA
NITROANILINE, 2-	5.8	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.7	<5	NA	NA	NA	NA	NA
NITROANILINE, 3-	5.8	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.7	<5	NA	NA	NA	NA	NA
NITROBENZENE	51000	G	410000	NOC	NA	NA	NA	NA	NA	NA	NA	<0.19	<0.2	NA	NA	NA	NA	NA
NITROPHENOL, 2-	820000	G	NOC	NOC	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
NITROPHENOL, 4-	60000	H	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.7	<5	NA	NA	NA	NA	NA
NITROSODI-N-PROPYLAMINE, N-	370	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.19	<0.2	NA	NA	NA	NA	NA
NITROSODIPHENYLAMINE, N-	35000	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.19	<0.2	NA	NA	NA	NA	NA
OXYBIS(1-CHLOROPROPANE), 2,2'-	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.19	<0.2	NA	NA	NA	NA	NA
PENTACHLOROPHENOL	1000	M	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
PHENANTHRENE	1100	S	NOC	NOC	1100	<0.19	<0.2	3.2	0.14 J	0.17 J PG	NA	0.082 J	0.12 J	<0.2	2.7	0.62	0.48	1.4
PHENOL	400000	H	NOC	NOC	NA	NA	NA	NA	NA	NA	NA	<0.19	0.39	NA	NA	NA	NA	NA
PYRENE	130	S	NA	NA	130	2.9 PG	0.12 J PG	0.53 PG	<0.19	<0.21	NA	<0.19	0.071 J	<0.2	0.53 PG	<0.19	<0.2	1.7
TRICHLOROPHENOL, 2,4,5-	1000000	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
TRICHLOROPHENOL, 2,4,6-	31000	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<1	NA	NA	NA	NA	NA
PCBs																		
PCB-1016 (AROCLOR)	7.2	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.39	<0.38	<0.39	<0.38	<0.39	<0.39	<0.4
PCB-1221 (AROCLOR)	5.2	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.39	<0.38	<0.39	<0.38	<0.39	<0.39	<0.4
PCB-1232 (AROCLOR)	5.2	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.39	<0.38	<0.39	<0.38	<0.39	<0.39	<0.4
PCBs (continued)																		
PCB-1242 (AROCLOR)	5.2	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.39	<0.38	<0.39	<0.38	<0.39	<0.39	<0.4
PCB-1248 (AROCLOR)	1.4	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.39	<0.38	<0.39	<0.38	<0.39	<0.39	<0.4
PCB-1254 (AROCLOR)	1.4	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.39	<0.38	<0.39	<0.38	<0.39	<0.39	<0.4
PCB-1260 (AROCLOR)	4.3	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.39	<0.38	<0.39	<0.38	<0.39	<0.39	<0.4
INORGANICS																		
ARSENIC	50000	M	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	<10	NA	NA	3.5 B	<10	<10

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PHASE II ESA
GENERAL MOTORS CORPORATION

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REGULATED SUBSTANCE (All units in ug/L)	NONUSE AQUIFERS	GROUNDWATER SCREENING VALUES FOR PROTECTION OF INDOOR AIR ¹		CLOSURE REQUIREMENTS FOR UST SYSTEMS														
		USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA-PA Nonresidential PELs Volatilization to Indoor Air Screen		Water Standard/Action Level ²	P02TW-02 7/17/2007	P02TW-04 7/19/2007	P03TW-01 7/12/2007	P04TW-01 6/29/2007	P04TW-02 6/30/2007	P04TW-02 7/1/2007	P05TW-01 7/20/2007	DUP-07 7/20/2007	P07TW-01 7/3/2007	P07TW-03 7/12/2007	P08MW-01 8/6/2007	P08MW-02 7/30/2007	P09TW-03 7/12/2007
	Non- Residential																	
BARIUM	2000000 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	116 B	114 B	NA	NA	74.7 B J	49.8 B J	120 B	
CADMIUM	5000 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.28 B	0.29 B	NA	NA	<5	<5	<5	
CHROMIUM (TOTAL)	100000 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.6 B	3.8 B	NA	NA	<5	<5	1.7 B	
COPPER	1000000 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1 B	2.2 B	NA	NA	2.8 B	1.6 B	<25	
LEAD	5000 M	NA	NA	NA	NA	<3	<3	<3	<3	NA	3.2	<3	NA	NA	<3	<3	<3	
MERCURY	2000 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.2	<0.2	NA	NA	<0.2	<0.2	<0.2	
NICKEL	100000 H	NA	NA	NA	NA	NA	NA	NA	NA	NA	17.4 B	17.0 B	NA	NA	3.8 B	<40	1.6 B	
SELENIUM	50000 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	<10	NA	NA	<5	<5	<5	
SILVER	100000 H	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.8 B	3.9 B	NA	NA	0.61 B	<5	<5	
ZINC	2000000 H	NA	NA	NA	NA	NA	NA	NA	NA	NA	17.3 B J	25.2 J	NA	NA	261 J	11.3 B J	13.8 B J	
PESTICIDES																		
ALDRIN	3.7 N	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
BHC, ALPHA-	410 G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
BHC, BETA-	100 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
BHC, DELTA-	8000 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
BHC, GAMMA (LINDANE)	200 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
CHLORDANE, alpha-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
CHLORDANE, gamma-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
DDD, 4,4'-	160 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
DDE, 4,4'-	40 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
DDT, 4,4'-	5.5 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
DIELDRIN	160 G	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
ENDOSULFAN I (APLHA)	500 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
ENDOSULFAN II (BETA)	450 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
ENDOSULFAN SULFATE	120 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
ENDRIN	2 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
ENDRIN ALDEHYDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
ENDRIN KEYTONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
HEPTACHLOR	180 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
HEPTACHLOR EPOXIDE	200 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<0.048	NA	NA	NA	NA	NA	
METHOXYCHLOR	45 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.097	<0.048	NA	NA	NA	NA	NA	
TOXAPHENE	3 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.9	<1.9	NA	NA	NA	NA	NA	
HERBICIDES																		
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	70000 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.1	<4	NA	NA	NA	NA	NA	
DB, 2,4-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.1	<4	NA	NA	NA	NA	NA	
DICHLOROPROPIONIC ACID, 2,2- (DALAPON)	20000 M	NOC	NOC	NA	NA	NA	NA	NA	NA	NA	<4.1	<5	NA	NA	NA	NA	NA	
DICAMBA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.92	<2	NA	NA	NA	NA	NA	
DICHLORPROP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<410	<4	NA	NA	NA	NA	NA	
DINOSEB	700 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	<410	<0.9	NA	NA	NA	NA	NA	
METHYLCHLOROPHENOXYACETIC ACID (MCPA)	4 H	NA	NA	NA	NA	NA	NA	NA	NA	NA	<400	<400	NA	NA	NA	NA	NA	
MCPPP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<400	<400	NA	NA	NA	NA	NA	
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	70000 H	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	NA	NA	NA	NA	NA	
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP)	50 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	NA	NA	NA	NA	NA	
TPH																		
TPH	NA	NA	NA	NA	NA	<4800	<4800	<4800	<4800	<5000	NA	<5000	<5900	<4800	<4700	27100	<5000	<5000

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	Non- Residential		USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA-PA Nonresidential PELs Volatilization to Indoor Air Screen		Water Standard/Action Level ²	P10TW-02 7/19/2007	P10TW-03 7/19/2007	P10TW-04 7/19/2007	P20TW-04 7/12/2007	P20TW-05 7/20/2007	P20TW-12 7/12/2007	P20TW-13 7/12/2007	P22TW-01 7/2/2007	P26TW-01 6/29/2007	P26TW-02 6/30/2007	P26TW-03 7/10/2007	P-27 SEEP 7/25/2007	P29TW-01 7/11/2007	DUP-04 7/11/2007	P29TW-02 7/11/2007
VOCs																					
ACETONE	100000	G	NOC	NOC	NA	<5	<1	<1	<1	3.5 J	<5	<5	<5	NA	4.0 J	<5	48	NA	NA	NA	NA
BENZENE	500	M	5900	NOC	5	<1	<1	<1	<1	0.72 J	<1	<1	<1	NA	0.24 J	<1	<1	NA	NA	NA	NA
BROMODICHLOROMETHANE	100	M	2700	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	2.7	<1	<1	NA	NA	NA	NA
BROMOFORM	8000	M	310000	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
BROMOMETHANE	1000	H	6300	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
BUTANONE, 2-	NA		NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	3.5 J	NA	NA	NA	NA
CARBON DISULFIDE	4100	N	770000	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	1.6	<1	0.79 J	NA	NA	NA	NA
CARBON TETRACHLORIDE	50	M	2400	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
CHLOROBENZENE	10000	M	38000	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
CHLOROETHANE	90000	G	37000	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
CHLOROFORM	8000	M	580	NOC	NA	<1	<1	<1	<1	1	<1	<1	<1	NA	6.7	<1	0.34 J	NA	NA	NA	NA
CHLOROMETHANE	NA		NA	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
CYCLOHEXANE	NA		NA	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	0.25 J	<1	<1	NA	NA	NA	NA
DIBROMOCHLOROMETHANE	NA		NA	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	0.99 J	<1	<1	NA	NA	NA	NA
DIBROMO-3-CHLOROPROPANE, 1,2-	20	M	6000	200000	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	5	M	1000	NOC	0.05	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
DICHLOROBENZENE, 1,2-	60000	M	NOC	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
DICHLOROBENZENE, 1,3-	60000	H	NA	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
DICHLOROBENZENE, 1,4-	7500	M	14000	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE (FREON 12)	100000	H	160000	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
DICHLOROETHANE, 1,1-	1100	N	26000	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
DICHLOROETHANE, 1,2-	50	M	4600	NOC	5	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
DICHLOROETHENE, 1,1-	NA		NA	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
DICHLOROETHENE, cis-1,2-	NA		NA	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
DICHLOROETHENE, trans-1,2-	NA		NA	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
DICHLOROPROPANE, 1,2-	50	M	6500	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
DICHLOROPROPENE, cis-1,3-	NA		NA	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
DICHLOROPROPENE, trans-1,3-	NA		NA	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
ETHYL BENZENE	70000	M	45000	NA	700	<1	<1	<1	<1	0.37 J	<1	<1	<1	NA	<1	<1	9.2	NA	NA	NA	NA
HEXANONE, 2-	NA		NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	NA	NA	NA	NA
ISOPROPYLBENZENE	NA		NA	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	0.34 J	NA	NA	NA	NA
METHYL ACETATE	100000	G	95000000	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
METHYLENE CHLORIDE	NA		NA	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
METHYLCYCLOHEXANE	NA		NA	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	0.26 J	<1	<1	NA	NA	NA	NA
METHYL-2-PENTANONE, 4-	NA		NA	NA	NA	<5	<5	<5	<5	<1	<5	<5	<5	NA	<5	<5	<5	NA	NA	NA	NA
METHYL TERT-BUTYL ETHER (MTBE)	200	H	640000	NOC	20	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
STYRENE	10000	M	NOC	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
TETRACHLOROETHANE, 1,1,2,2-	30	H	6200	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
TRICHLOROBENZENE, 1,2,4-	7000	M	NOC	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
TETRACHLOROETHENE	NA		NA	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
TRICHLOROETHANE, 1,1,1-	2000	M	NOC	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
TRICHLOROETHANE, 1,1,2-	50	M	9000	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
TRICHLOROETHENE	NA		NA	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
TRICHLOROFLUOROMETHANE	NA		NA	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	170000	S	NOC	NOC	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
TOLUENE	100000	M	NOC	NOC	1000	<1	<1	<1	<1	0.61 J	<1	<1	<1	NA	0.36 J	<1	30	NA	NA	NA	NA
VINYL CHLORIDE	20	M	3000	1600000	NA	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<1	NA	NA	NA	NA
XYLENES (TOTAL)	180000	S	NOC	NOC	10000	<3	<3	<3	<3	4	<3	<3	<1	NA	0.36 J	<3	59	NA	NA	NA	NA
SVOCs																					
ACENAPHTHENE	3800	S	NOC	NOC	NA	<0.99	<0.96	<0.97	<0.95	<0.98	20	<0.96	<0.97	<0.21	<0.22	<0.2	NA	<1	<0.96	<0.98	
ACENAPHTHYLENE	16000	S	NOC	NOC	NA	<0.99	<0.96	<0.97	3.7	0.43 J	8.5	0.33 J	2.1	<0.21	<0.22	<0.2	NA	0.17 J	<0.96	<0.98</	

TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in ug/L)	NONUSE AQUIFERS		GROUNDWATER SCREENING VALUES FOR PROTECTION OF INDOOR AIR ¹		CLOSURE REQUIREMENTS FOR UST SYSTEMS															
	Non- Residential		USEPA-PA Defaults	USEPA-PA																
			Nonresidential Volatilization to Indoor Air Screen	Nonresidential PELs Volatilization to Indoor Air Screen																
					Water Standard/Action Level ²	P10TW-02 7/19/2007	P10TW-03 7/19/2007	P10TW-04 7/19/2007	P20TW-04 7/12/2007	P20TW-05 7/20/2007	P20TW-12 7/12/2007	P20TW-13 7/12/2007	P22TW-01 7/2/2007	P26TW-01 6/29/2007	P26TW-02 6/30/2007	P26TW-03 7/10/2007	P-27 SEEP 7/25/2007	P29TW-01 7/11/2007	DUP-04 7/11/2007	P29TW-02 7/11/2007
BIS(2-CHLOROETHYL)ETHER	55	N	22000	NOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.22	<0.2	NA	NA	NA	NA
BIS(2-ETHYLHEXYL) PHTHALATE	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.36 J	0.39 J	6.2	NA	NA	NA	NA
BROMOPHENYL PHENYL ETHER, 4-	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
BUTYLBENZYL PHTHALATE	2700	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.33 J	<1.1	<1	NA	NA	NA	NA
CAPROLACTAM	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.62	0.29 J	<0.61	NA	NA	NA	NA
CARBAZOLE	1200	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.22	<0.2	NA	NA	NA	NA
CHLOROANILINE, 4-	410	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
CHLORO-3-METHYLPHENOL, 4-	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
CHLORONAPHTHALENE, 2-	8200	G	NOC	NOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.22	<0.2	NA	NA	NA	NA
CHLOROPHENOL, 2-	40	H	230000	NOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
CHLOROPHENYL PHENYL ETHER, 4-	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
CHRYSENE	1.9	S	NA	NA	1.9	<0.2	<0.19	<0.19	<0.19	<0.2	0.28	<0.19	<0.19	<0.21	<0.22	<0.2	NA	<0.2	<0.19	<0.2
DIBENZO[A,H]ANTHRACENE	0.6	S	NA	NA	NA	<0.2	<0.19	<0.19	<0.19	<0.2	<0.2	<0.19	<0.19	<0.21	<0.22	<0.2	NA	<0.2	<0.19	<0.2
DIBENZOFURAN	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.13 J	<1.1	<1	NA	NA	NA	NA
DICHLOROBENZIDINE, 3,3'-	3100	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
DICHLOROPHENOL, 2,4-	2000	H	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.22	<0.2	NA	NA	NA	NA
DIETHYL PHTHALATE	1100000	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
DIMETHYLPHENOL, 2,4-	2000000	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	2.6	NA	NA	NA	NA
DIMETHYL PHTHALATE	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
DI-N-BUTYL PHTHALATE	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.095 J	<1.1	0.17 J	NA	NA	NA	NA
DINITRO-2-METHYLPHENOL, 4,6-	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.2	<5.5	<5	NA	NA	NA	NA
DINITROPHENOL, 2,4-	410	N	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.2	<5.5	<5	NA	NA	NA	NA
DINITROTOLUENE, 2,4-	8400	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
DINITROTOLUENE, 2,6- (2,6-DNT)	100000	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
FLUORANTHENE	260	S	NA	NA	NA	<0.2	<0.19	<0.19	<0.19	0.078 J	3.9 PG	0.042 J PG	<0.19	<0.21	<0.22	<0.2	NA	<0.2	<0.19	<0.2
FLUORENE	1900	S	NOC	NOC	1500	<0.2	<0.19	<0.19	0.18 J PG	0.038 J	13	<0.19	0.34	0.074 J	<0.22	<0.2	NA	<0.2	<0.19	<0.2
HEXACHLOROENZENE	6	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.22	<0.2	NA	NA	NA	NA
HEXACHLOROBUTADIENE	1000	H	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.22	<0.2	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	1800	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
HEXACHLOROETHANE	100	H	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
INDENO[1,2,3-CD]PYRENE	62	S	NA	NA	0.9	<0.2	<0.19	<0.19	<0.19	<0.2	0.12 J	<0.19	<0.19	<0.21	<0.22	<0.2	NA	<0.2	<0.19	<0.2
ISOPHORONE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
METHYLNAPHTHALENE, 1-	NA		NA	NA	NA	<0.99	<0.96	<0.97	6.9	<0.98	8.2	<0.96	<0.97	0.32	<0.22	<0.2	NA	<0.1	<0.96	<0.98
METHYLNAPHTHALENE, 2-	2000	G	NOC	NOC	NA	0.13 J PG	<0.96	0.12 J PG	4	0.31 J	34 PG	0.29 J	<0.97	0.35	<0.22	<0.2	NA	0.17 J PG	0.18 J PG	0.17 J PG
METHYLPHENOL, 2-	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	1.3	NA	NA	NA	NA
METHYLPHENOL, 4-	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	0.43 J	NA	NA	NA	NA
NAPHTHALENE	10000	H	NOC	NOC	100	<0.99	<0.96	<0.97	5	<0.98	140	<0.96	<0.97	0.28	<0.22	0.15 J	NA	<1	0.21 J	0.33 J
NITROANILINE, 1-	5.8	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.2	<5.5	<5	NA	NA	NA	NA
NITROANILINE, 2-	5.8	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.2	<5.5	<5	NA	NA	NA	NA
NITROANILINE, 3-	5.8	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.2	<5.5	<5	NA	NA	NA	NA
NITROBENZENE	51000	G	410000	NOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.22	<0.2	NA	NA	NA	NA
NITROPHENOL, 2-	820000	G	NOC	NOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
NITROPHENOL, 4-	60000	H	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.2	<5.5	<5	NA	NA	NA	NA
NITROSODI-N-PROPYLAMINE, N-	370	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.22	<0.2	NA	NA	NA	NA
NITROSODIPHENYLAMINE, N-	35000	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.22	<0.2	NA	NA	NA	NA
OXYBIS(1-CHLOROPROPANE), 2,2'-	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.22	<0.2	NA	NA	NA	NA
PENTACHLOROPHENOL	1000	M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
PHENANTHRENE	1100	S	NOC	NOC	1100	0.095 J PG	0.10 J	0.088 J	0.41	0.15 J	22	0.24	0.49	0.19 J	0.063 J	0.077 J	NA	0.2	0.27	0.2
PHENOL	400000	H	NOC	NOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.8	<0.22	12	NA	NA	NA	NA
PYRENE	130	S	NA	NA	130	0.042 J PG	<0.19	<0.19	0.058 J PG	0.056 J PG	2.3 PG	<0.19	<0.19	<0.21	<0.22	<0.2	NA	<0.2	<0.19	<0.2
TRICHLOROPHENOL, 2,4,5-	1000000	S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
TRICHLOROPHENOL, 2,4,6-	31000	G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<1	NA	NA	NA	NA
PCBs																				
PCB-1016 (AROCLOR)	7.2	G	NA	NA	NA	<0.4	<0.38	<0.39	<0.4	<0.38	<0.4	<0.39	<0.39	<0.41	<0.44	<0.4	NA	<0.4	<0.4	<0.4
PCB-1221 (AROCLOR)	5.2	G	NA	NA	NA	<0.4	<0.38	<0.39	<0.4	<0.38	<0.4	<0.39	<0.39	<0.41	<0.44	<0.4	NA	<0.4	<0.4	<0.4
PCB-1232 (AROCLOR)	5.2	G	NA	NA	NA	<0.4	<0.38	<0.39	<0.4	<0.38	<0.4	<0.39	<0.39	<0.41	<0.44	<0.4	NA	<0.4	<0.4	<0.4
PCBs (continued)																				
PCB-1242 (AROCLOR)	5.2	G	NA	NA	NA	<0.4	<0.38	<0.39	<0.4	<0.38	<0.4	<0.39	<0.39	<0.41	<0.44	<0.4	NA	<0.4	<0.4	<0.4
PCB-1248 (AROCLOR)	1.4	G	NA	NA	NA	<0.4	<0.38	<0.39	<0.4	<0.38	<0.4	<0.39	<0.39	<0.41	<0.44	<0.4	NA	<0.4	<0.4	<0.4
PCB-1254 (AROCLOR)	1.4	G	NA	NA	NA	<0.4	<0.38	<0.39	<0.4	<0.38	<0.4	<0.39	<0.39	<0.41	<0.44	<0.4	NA	<0.4	<0.4	<0.4
PCB-1260 (AROCLOR)	4.3	G	NA	NA	NA	<0.4	<0.38	<0.39	<0.4	<0.38	<0.4	<0.39	<0.39	<0.41	<0.44	<0.4	NA	<0.4	<0.4	<0.4
INORGANICS																				
ARSENIC	50000	M	NA	NA	NA	<10	<10	<10	<10	<10	<10	<10	NA	<10	<10	4.8 B	21.6	NA	NA	NA

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GROUNDWATER SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in ug/L)	NONUSE AQUIFERS	GROUNDWATER SCREENING VALUES FOR PROTECTION OF INDOOR AIR ¹		CLOSURE REQUIREMENTS FOR UST SYSTEMS															
		USEPA-PA Defaults	USEPA-PA																
	Non- Residential	Nonresidential Volatilization to Indoor Air Screen	Nonresidential PELs Volatilization to Indoor Air Screen	Water Standard/Action Level ²	P10TW-02 7/19/2007	P10TW-03 7/19/2007	P10TW-04 7/19/2007	P20TW-04 7/12/2007	P20TW-05 7/20/2007	P20TW-12 7/12/2007	P20TW-13 7/12/2007	P22TW-01 7/2/2007	P26TW-01 6/29/2007	P26TW-02 6/30/2007	P26TW-03 7/10/2007	P-27 SEEP 7/25/2007	P29TW-01 7/11/2007	DUP-04 7/11/2007	P29TW-02 7/11/2007
BARIUM	2000000 M	NA	NA	NA	129 B	188 B	124 B	172 B	8.5 B	73.2 B	31.6 B	NA	116 B	26.0 B	9.6 B	128 B J	NA	NA	NA
CADMIUM	5000 M	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	3.5 B	NA	NA	NA
CHROMIUM (TOTAL)	100000 M	NA	NA	NA	1.4 B	<5	<5	<5	5.4	2.3 B	6.1	NA	1.3 B	<5	<5	29.6	NA	NA	NA
COPPER	1000000 M	NA	NA	NA	<25	1.2 B	0.88 B	<25	15.4 B	<25	<25	NA	<25	<25	<25	71.2	NA	NA	NA
LEAD	5000 M	NA	NA	NA	<3	<3	<3	<3	<3	<3	<3	NA	<3	<3	<3	69.8	NA	NA	NA
MERCURY	2000 M	NA	NA	NA	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	NA	<0.2	<0.2	<0.2	0.099 B	NA	NA	NA
NICKEL	100000 H	NA	NA	NA	4.8 B	2.8 B	1.4 B	4.2 B	3.1 B	18.2 B	<40	NA	3.5 B	2.4 B	1.6 B	225 E	NA	NA	NA
SELENIUM	50000 M	NA	NA	NA	<5	4.7 B	<5	3.2 B	3.7 B	<5	5.3	NA	<5	4.1 B	11.2	<5	NA	NA	NA
SILVER	100000 H	NA	NA	NA	1.6 B	<5	<5	0.67 B	<5	2.2 B	<5	NA	<5	<5	<5	<5	NA	NA	NA
ZINC	2000000 H	NA	NA	NA	5.8 B J	5.5 B J	5.7 B J	13.0 B J	54.1 J	10.0 B J	6.8 B J	NA	8.4 B	10.0 B	7.2 B J	441 J E	NA	NA	NA
PESTICIDES																			
ALDRIN	3.7 N	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
BHC, ALPHA-	410 G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
BHC, BETA-	100 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
BHC, DELTA-	8000 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
BHC, GAMMA (LINDANE)	200 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
CHLORDANE, alpha-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
CHLORDANE, gamma-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
DDD, 4,4'-	160 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
DDE, 4,4'-	40 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
DDT, 4,4'-	5.5 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
DIELDRIN	160 G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
ENDOSULFAN I (APLHA)	500 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
ENDOSULFAN II (BETA)	450 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
ENDOSULFAN SULFATE	120 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
ENDRIN	2 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
ENDRIN ALDEHYDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
ENDRIN KEYTONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
HEPTACHLOR	180 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
HEPTACHLOR EPOXIDE	200 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	<0.054	<0.048	<0.062	NA	NA	NA
METHOXYCHLOR	45 S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.11	<0.097	<0.12	NA	NA	NA
TOXAPHENE	3 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.1	<2.2	<1.9	<2.5	NA	NA	NA
HERBICIDES																			
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	70000 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.2	<4.2	<4	<4.4	NA	NA	NA
DB, 2,4-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.2	<4.2	<4	<4.4	NA	NA	NA
DICHLOROPROPIONIC ACID, 2,2- (DALAPON)	20000 M	NOC	NOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.2	<5.3	<5	<5.5	NA	NA	NA
DICAMBA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.1	<2.1	<2	<2.2	NA	NA	NA
DICHLORPROP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.2	<4.2	<4	<4.4	NA	NA	NA
DINOSEB	700 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	<0.95	<0.89	<0.99	NA	NA	NA
METHYLCHLOROPHENOXYACETIC ACID (MCPA)	4 H	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<420	<420	<400	<440	NA	NA	NA
MCPP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<420	<420	<400	<440	NA	NA	NA
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	70000 H	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<0.99	<1.1	NA	NA	NA
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP)	50 M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1.1	<0.99	<1.1	NA	NA	NA
TPH																			
TPH	NA	NA	NA	NA	<5100	<4900	<5000	<4700	<5000	<4800	<4900	<4800	<5200	<5100	<5000	NA	<4800	<4800	<4700

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL,
PREPARED AT REQUEST
OF GM LEGAL COUNSEL

Notes

All concentrations in micrograms per liter (ug/L).

Groundwater Cleanup Criteria: Criteria are per the Title 25 of the Pennsylvania Code, Chapter 250 - Administration of Land Recycling Program (Act 2) Subchapter C - Statewide Health Standards (11/24/01).

H: Lifetime Health Advisory Level.

M: Maximum Contaminant Level

G: Ingestion

S: Aqueous solubility cap

¹: PADEP Land Recycling Program Technical Guidance Manual - Section IV.A.4. Vapor Intrusion into Buildings from Groundwater and Soil under the Act 2 Statewide Health Standard. Table 2 - Groundwater Screening Values for Protection of Indoor Air - Nonresidential (Commercial/Industrial).

PA Defaults: Occupational Safety and Health Administration (OSHA)-derived

PEL: OSHA Permissible Exposure Limits.

²: The Water Standards/Action Levels for UST Closure are per the PADEP Storage Tank Program's Closure Requirements for UST Systems (4/1/98).

Exceedances: Cleanup Criteria Exceedances are bolded and highlighted in gray.

VOCs: Volatile organic compounds

SVOCs: Semi-volatile organic compounds

PCBs: Polychlorinated biphenyls

TPH: Total petroleum hydrocarbons; the Act 2 Statewide Health Standard tables do not include TPH criteria. However, TPH was used as an indicator of a release of petroleum during this investigation.

NA: Not analyzed/not available.

<: Not detected, or less than the listed detection limit.

J: Estimated value

B: Analyte detected in associated blank

PG: The percentage difference between the original and confirmation analyses is greater than 40%.

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

1 of 4

TABLE 4
SEDIMENT SAMPLE ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL, PREPARED AT REQUEST OF GM LEGAL COUNSEL

REGULATED SUBSTANCE (All units in mg/kg)	Soil-to-Groundwater Values		Soil Direct Contact Values		Soil Screening Values for Protection of Indoor Air ²		Closure Requirements for UST Systems ³																					
	Non-Use Aquifers		Non-Residential		USEPA-PA Defaults Nonresidential Volatilization to Indoor Air Screen	USEPA Default Nonresidential PELs Volatilization to Indoor Air Screen	Unsaturated Soil Standard for UST Closure																					
	Non-Residential		Surface	Subsurface			Non-Residential Sites	P06S-01 (0-0.5)	P09S-01 (0-0.5)	P09S-02 (0-0.5)	P09S-03 (0-0.5)	P09S-04 (0-0.5)	P10S-01 (0-1)	P10S-02 (0-1)	P10S-03 (0-1)	P11S-01 (0-1)	P11S-02 (0-1)	P11S-03 (0-1)	CH01S-01 (0-0.5)	CH01S-02 (0-0.5)	CH01S-03 (0-0.5)	CH01S-04 (0-0.5)	CH01S-05 (0-0.5)	CH01S-06 (0-0.5)	CH01S-07 (0-0.5)	CH01S-08 (0-0.5)	CH01S-09 (0-0.5)	CH01S-10 (0-0.5)
	100 X GW MSC	Generic Value ¹	Soil 0-2 feet	Soil 2-15 feet				P06S-01 (0-0.5)	P09S-01 (0-0.5)	P09S-02 (0-0.5)	P09S-03 (0-0.5)	P09S-04 (0-0.5)	P10S-01 (0-1)	P10S-02 (0-1)	P10S-03 (0-1)	P11S-01 (0-1)	P11S-02 (0-1)	P11S-03 (0-1)	CH01S-01 (0-0.5)	CH01S-02 (0-0.5)	CH01S-03 (0-0.5)	CH01S-04 (0-0.5)	CH01S-05 (0-0.5)	CH01S-06 (0-0.5)	CH01S-07 (0-0.5)	CH01S-08 (0-0.5)	CH01S-09 (0-0.5)	CH01S-10 (0-0.5)
	PCB-1254 (AROCLOL)	0.14	280 E	44 G	10000 C	NA	NA	NA	53	0.048 J	7.2	0.38	0.51	7.3	0.19	0.13	<0.024	0.13	<0.027	0.01 J	0.012 J	<0.026	0.067	<0.022	<0.021	0.013 J	0.011 J	<0.023
PCB-1260 (AROCLOL)	0.43	1,900 E	130 G	190000 C	NA	NA	NA	<0.84	<0.11	<0.087	<0.11	0.21	<0.083	<0.021	0.055	<0.024	0.1	<0.027	<0.022	<0.022	<0.026	<0.028	<0.022	<0.021	<0.026	<0.023	0.007 J	0.037
INORGANICS																												
ARSENIC	5000	150000	53 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.4	8.6	4.8	7.9	10.3	5.9	8.7	8.3	9.7	10.1	9.3	11.1	8.4
BARIUM AND COMPOUNDS	190000	190000	190000 C	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	104	224	2980	100	114	97.9	147	101	93.8	209	96.2	139	123
CADMIUM	500	38000	210 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.74	2.6	0.81 B	1.1	1.2	1.1	0.86	1	1.1	1.2	0.89	0.98	0.9
CHROMIUM (III)	10000	190000	190000 C	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	38.6	23.4	46.8	58.4	11.8	37.7	62.3	46.3	44.4	48.5	35.5	50.4
COPPER	100000	190000	100000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.7	61.5	28.8	32.5	34.6	19.8	34.2	28.8	30.1	36.6	29.9	30.8	30.6
CYANIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	500	190000	1000 S	190000 C	NA	NA	450	NA	NA	NA	NA	NA	NA	NA	NA	36.4	196	106	30.4	42.6	19.8	33	30.5	28.2	37.2	33.1	36.1	34.7
MERCURY	200	10000	840 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.062	0.14	0.079	0.07	0.12	0.078	0.081	0.039 B	0.039 B	0.092	0.097	0.082	0.25
NICKEL	10000	190000	56000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.9	26.6	10.5	89.6	115	42.7	72	100	93.1	89.4	71.2	75	70.2
SELENIUM	5000	26000	14000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.9	1.7	<8.2	0.72	<1.3	1.2	0.89	<1.3	0.85	<1.6	1.9	0.57 B	0.62 B
SILVER	10000	84000	14000 G	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.33 B	0.54 B	4.4	0.66 B	0.83	<0.79	0.54 B	0.73	0.60 B	1.1	0.58 B	0.63 B	0.67 B
ZINC	190000	190000	190000 C	190000 C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	108	345 J	127 J	266 J	0.12	125 J	194 J	170 J	165 J	174 J	144 J	161 J	162 J
TPH																												
HEXANE, N-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<241	697	<274	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

PRELIMINARY UNVALIDATED DATA
PRIVILEGED AND CONFIDENTIAL,
PREPARED AT REQUEST
OF GM LEGAL COUNSEL

Notes:

All concentrations are in milligrams per kilogram (mg/kg).

Soil Cleanup Criteria: Soil to Groundwater and Direct Contact criteria are per the PADEP's 25 Pennsylvania Code, Chapter 250 - Administration of Land Recycling Program (Act 2) Subchapter C - Statewide Health Standards (11/24/01).

C: Cap = The physical capacity of the soil to contain a regulated substance.

G: Direct contact through ingestion.

N: Direct contact through inhalation.

E: Number calculated by the soil to groundwater equation in Section 250.308 of the PADEP's PA Code.

¹: The generic value is the concentration determined not to produce a concentration in groundwater in the aquifer in excess of the MSC for groundwater.

MSC: Medium-Specific Concentrations = Maximum Contaminant Limit established by the PADEP or EPA

²: PADEP Land Recycling Program Technical Guidance Manual - Section IV.A.4. Vapor Intrusion into Buildings from Groundwater and Soil under the Act 2 Statewide Health Standard. Tables 4 - Soil Screening Values for Protection of Indoor Air - Residential and Table 5 - Soil Screening Values for Protection of Indoor Air -

PA Defaults: Occupational Safety and Health Administration (OSHA)-derived screen.

PEL: OSHA Permissible Exposure Limits.

NOC: Not of concern.

+: Soil saturation concentration (C_{sat}) - Concentrations above C_{sat} may suggest the need to investigate the potential presence of non-aqueous phase liquid (NAPL).

³: The Unsaturated Soil Standards for UST Closure are per the PADEP Storage Tank Program's Closure Requirements for UST Systems (4/1/98). To be conservative, the Soil Standards for sites where groundwater was

Exceedances: Cleanup Criteria exceedances are bolded and highlighted in gray.

VOCs: Volatile organic compounds

SVOCs: Semi-volatile organic compounds

PCBs: Polychlorinated biphenyls

TPH: Total petroleum hydrocarbon. The Act 2 Statewide Health Standard tables do not include TPH criteria.

However, TPH was used as an indicator of a release of petroleum during this investigation. Concentrations of TPH less than 1,000 mg/kg are highlighted in green; concentrations between 1,000 and 10,000 mg/kg are highlighted in yellow; concentrations greater than 10,000 mg/kg are highlighted in red

NA: Not analyzed per the analytical protocol/not available.

<: Not detected, or less than the listed detection limit.

J: Estimated value

B: Analyte detected in associated blank

PG: The percentage difference between the original and confirmation analyses is greater than 40%.

TABLE 5
LNAPL SAMPLE CHEMICAL ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

REGULATED SUBSTANCE (All units in mg/kg)	P25MW-01	P12MW-02
	07-25-07	08-06-07
VOCs		
ACETONE	<10	<10
BENZENE	<2.5	<2.5
BROMODICHLOROMETHANE	<2.5	<2.5
BROMOFORM	<2.5	<2.5
BROMOMETHANE	<2.5	<2.5
BUTANONE, 2-	<2.5	<2.5
CARBON DISULFIDE	<2.5	<2.5
CARBON TETRACHLORIDE	<2.5	<2.5
CHLOROBENZENE	<2.5	<2.5
CHLOROETHANE	<2.5	<2.5
CHLOROFORM	<2.5	3.6
CHLOROMETHANE	<2.5	<2.5
CYCLOHEXANE	<2.5	<2.5
DIBROMOCHLOROMETHANE	<2.5	<2.5
DIBROMO-3-CHLOROPROPANE, 1,2-	<2.5	<2.5
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	<2.5	<2.5
DICHLOROBENZENE, 1,2-	<2.5	<2.5
DICHLOROBENZENE, 1,3-	<2.5	<2.5
DICHLOROBENZENE, 1,4-	<2.5	<2.5
DICHLORODIFLUOROMETHANE (FREON 12)	<2.5	<2.5
DICHLOROETHANE, 1,1-	<2.5	<2.5
DICHLOROETHANE, 1,2-	<2.5	<2.5
DICHLOROETHENE, 1,1-	<2.5	<2.5
DICHLOROETHENE, cis-1,2-	<2.5	<2.5
DICHLOROETHENE, trans-1,2-	<2.5	<2.5
DICHLOROPROPANE, 1,2-	<2.5	<2.5
DICHLOROPROPENE, cis-1,3-	<2.5	<2.5
DICHLOROPROPENE, trans-1,3-	<2.5	<2.5
ETHYL BENZENE	<2.5	<2.5
HEXANONE, 2-	<5	<5
ISOPROPYLBENZENE	<2.5	<2.5
METHYL ACETATE	<2.5	<2.5
METHYLENE CHLORIDE	0.52 J B	<2.5
METHYLCYCLOHEXANE	<2.5	<2.5
METHYL-2-PENTANONE, 4-	<5	<5
METHYL TERT-BUTYL ETHER (MTBE)	<2.5	<2.5
STYRENE	<2.5	<2.5
TETRACHLOROETHANE, 1,1,2,2-	<2.5	<2.5
TRICHLOROBENZENE, 1,2,4-	<2.5	<2.5
TETRACHLOROETHENE	<2.5	<2.5
TRICHLOROETHANE, 1,1,1-	<2.5	<2.5
TRICHLOROETHANE, 1,1,2-	<2.5	<2.5
TRICHLOROETHENE	<2.5	<2.5
TRICHLOROFLUOROMETHANE	<2.5	<2.5
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	<2.5	<2.5
TOLUENE	<2.5	<2.5
VINYL CHLORIDE	<2.5	<2.5
XYLENES (TOTAL)	<7.5	<7.5
SVOCs		
ACENAPHTHENE	<500	<100
ACENAPHTHYLENE	<500	<100
ACETOPHENONE	<500	<100
ANTHRACENE	<500	<100
ATRAZINE	<500	<100
BENZO[A]ANTHRACENE	<500	<100

TABLE 5
LNAPL SAMPLE CHEMICAL ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

REGULATED SUBSTANCE (All units in mg/kg)	P25MW-01	P12MW-02
	07-25-07	08-06-07
SVOCs (continued)		
BENZO[A]PYRENE	<500	<100
BENZO[B]FLUORANTHENE	<500	<100
BENZO[GHI]PERYLENE	<500	<100
BENZO[K]FLUORANTHENE	<500	<100
BENZALDEHYDE	<500	<100
BIPHENYL, 1,1-	<500	<100
BIS(2-CHLOROETHOXY)METHANE	<500	<100
BIS(2-CHLOROETHYL)ETHER	<500	<100
BIS(2-ETHYLHEXYL) PHTHALATE	<500	54 J
BROMOPHENYL PHENYL ETHER, 4-	<500	<100
BUTYLBENZYL PHTHALATE	<500	<100
CAPROLACTAM	<500	<100
CARBAZOLE	<500	<100
CHLOROANILINE, 4-	<500	<100
CHLORO-3-METHYLPHENOL, 4-	<500	<100
CHLORONAPHTHALENE, 2-	<500	<100
CHLOROPHENOL, 2-	<500	<100
CHLOROPHENYL PHENYL ETHER, 4-	<500	<100
CHRYSENE	<500	<100
DIBENZO[A,H]ANTHRACENE	<500	<100
DIBENZOFURAN	<500	<100
DICHLOROBENZIDINE, 3,3'-	<2500	<500
DICHLOROPHENOL, 2,4-	<500	<100
DIETHYL PHTHALATE	<500	<100
DIMETHYLPHENOL, 2,4-	<500	<100
DIMETHYL PHTHALATE	<500	<100
DI-N-BUTYL PHTHALATE	<500	12 J
DINITRO-2-METHYLPHENOL, 4,6-	<2500	<500
DINITROPHENOL, 2,4-	<2500	<500
DINITROTOLUENE, 2,4-	<500	<100
DINITROTOLUENE, 2,6- (2,6-DNT)	<500	<100
DI-N-OCTYL PHTHALATE	<500	<100
FLUORANTHENE	<500	<100
FLUORENE	<500	<100
HEXACHLOROBENZENE	<500	<100
HEXACHLOROBUTADIENE	<500	<100
HEXACHLOROCYCLOPENTADIENE	<2500	<500
HEXACHLOROETHANE	<500	<100
INDENO[1,2,3-CD]PYRENE	<500	<100
ISOPHORONE	<500	<100
METHYLNAPHTHALENE, 1-	<500	<100
METHYLNAPHTHALENE, 2-	<500	<100
METHYLPHENOL, 2-	<500	<100
METHYLPHENOL, 4-	<500	<100
NAPHTHALENE	<500	<100
NITROANILINE, 1-	<2500	<500
NITROANILINE, 2-	<2500	<500
NITROANILINE, 3-	<2500	<500
NITROBENZENE	<500	<100
NITROPHENOL, 2-	<500	<100
NITROPHENOL, 4-	<2500	<500
NITROSODI-N-PROPYLAMINE, N-	<500	<100
NITROSODIPHENYLAMINE, N-	<500	12 J
OXYBIS(1-CHLOROPROPANE), 2,2'-	<500	<100
PENTACHLOROPHENOL	<2500	<500

TABLE 5
LNAPL SAMPLE CHEMICAL ANALYTICAL RESULTS
WEST MIFFLIN PLANT, PA
PHASE II ESA
GENERAL MOTORS CORPORATION

REGULATED SUBSTANCE (All units in mg/kg)	P25MW-01	P12MW-02
	07-25-07	08-06-07
SVOCs (continued)		
PHENANTHRENE	<500	<100
PHENOL	<500	<100
PYRENE	<500	<100
TRICHLOROPHENOL, 2,4,5-	<500	<100
TRICHLOROPHENOL, 2,4,6-	<500	<100
PCBs		
AROCOR 1016	<0.5	<0.5
AROCOR 1221	<0.5	<0.5
AROCOR 1232	<0.5	<0.5
AROCOR 1242	<0.5	<0.5
AROCOR 1248	<0.5	2
AROCOR 1254	13	3.6
AROCOR 1260	0.5	<0.5
METALS		
ARSENIC	<1	0.26 B
BARIUM	49.8	55.1
CADMIUM	0.079 B	0.12 B
CHROMIUM	2.4	1
COPPER	5.8	8.1
LEAD	4.1	6
MERCURY	0.013 B	0.011 B
NICKEL	0.18 B J	0.43 B
SELENIUM	<0.5	<0.5
SILVER	<0.5	<0.5
ZINC	74.6 J	134
GRO		
GRO	32	33
Semivolatile Hydrocarbons		
DRO	<12000	<25000
Fuel Oil	<12000	<25000
Hydraulic Fluid	<12000	<25000
Kerosene	<12000	<25000
Mineral Spirits	<12000	<25000
Motor Oil	470000	510000

Notes:

Results are in milligrams per kilogram (mg/kg)

NAPL: Non-aqueous phase liquid

VOCs: Volatile organic compounds

SVOCs: Semi-volatile organic compounds

PCBs: Polychlorinated biphenyls

GRO: gasoline range organics

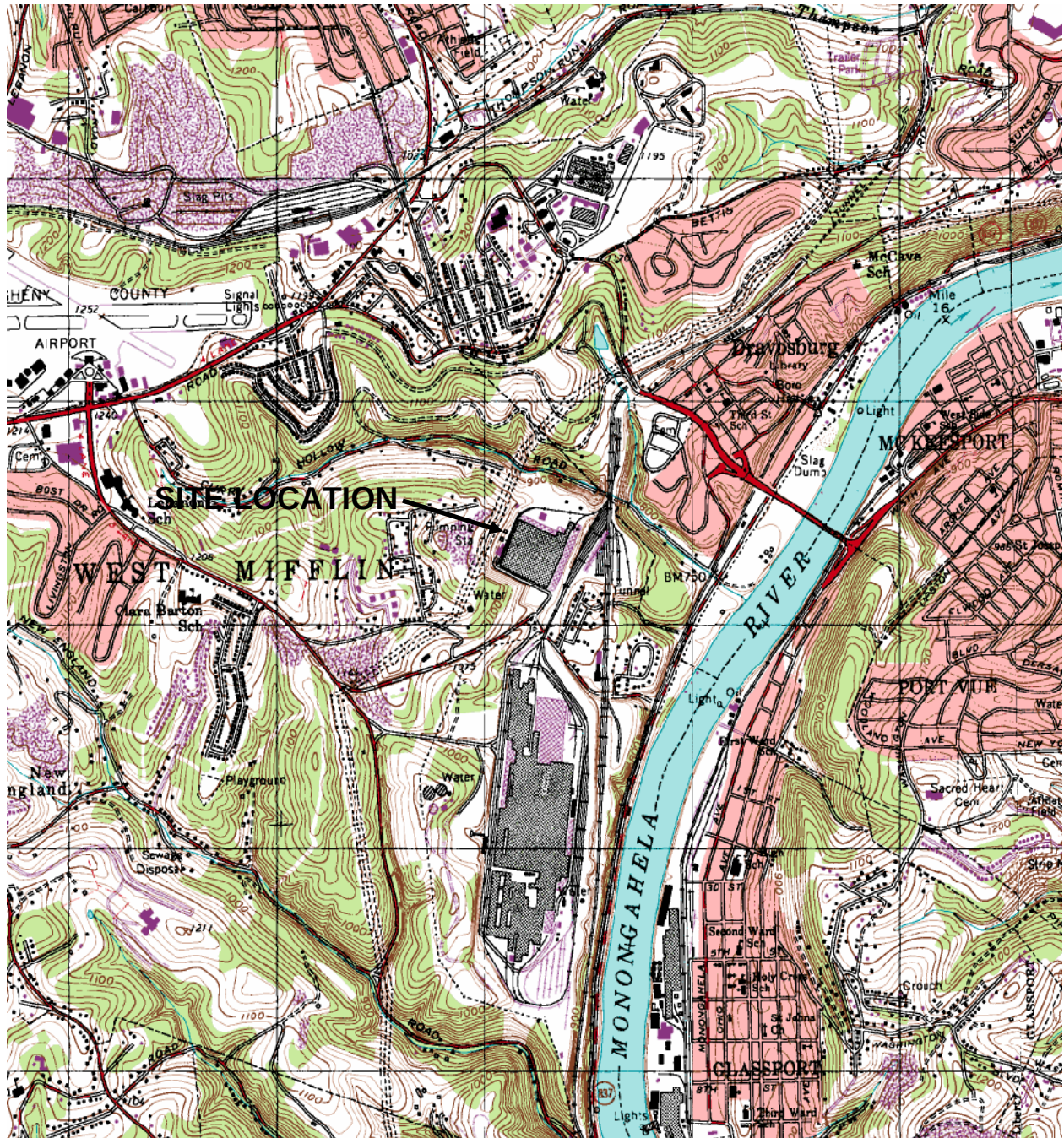
DRO: diesel range organics

J: Estimated result

B: Analyte detected in associated blank

<: Not detected. The associated numerical value represents the detection limit

Figures



Locator Map

Approximate Scale:
1" = 2600'



GM MFD-Pittsburgh Stamping Plant
1451 Lebanon School Road
West Mifflin, PA 15122

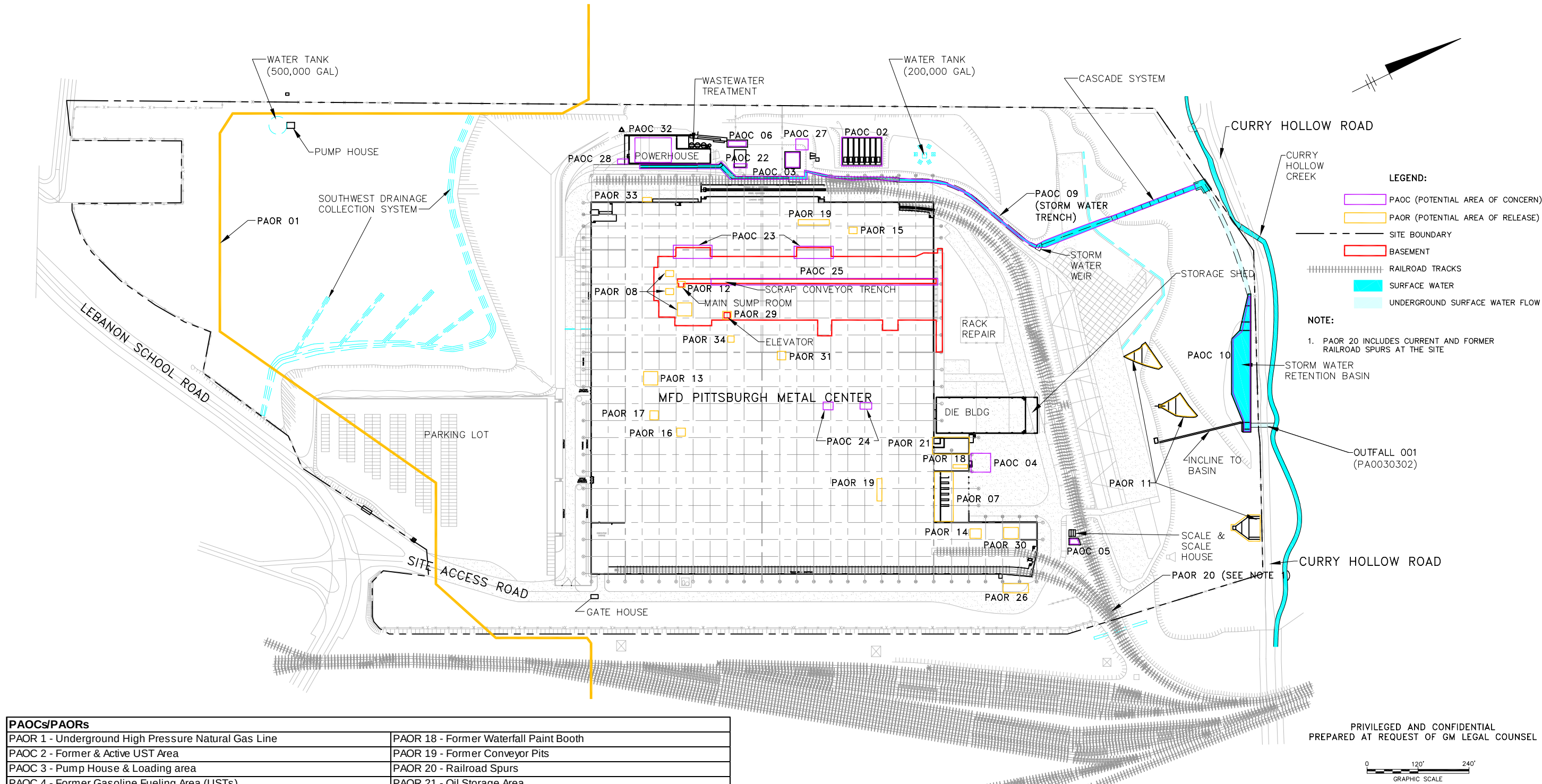
SITE LOCATION MAP

 **ARCADIS** BBL
Infrastructure, environment, facilities

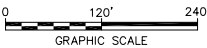
FIGURE

1

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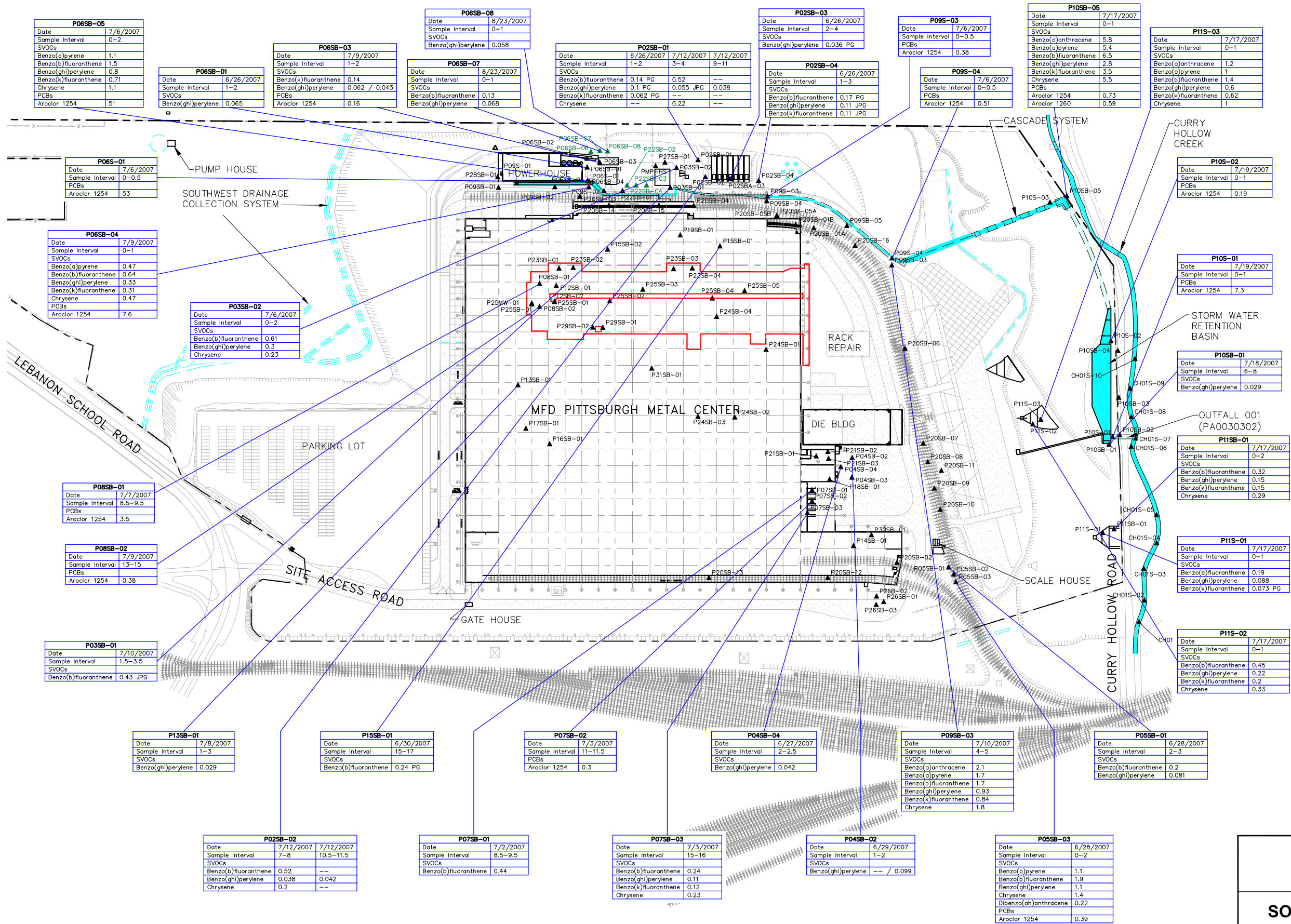
GENERAL MOTORS CORPORATION
PITTSBURGH STAMPING PLANT
WEST MIFFLIN, PENNSYLVANIA
PHASE II ESA

SITE MAP



FIGURE

2



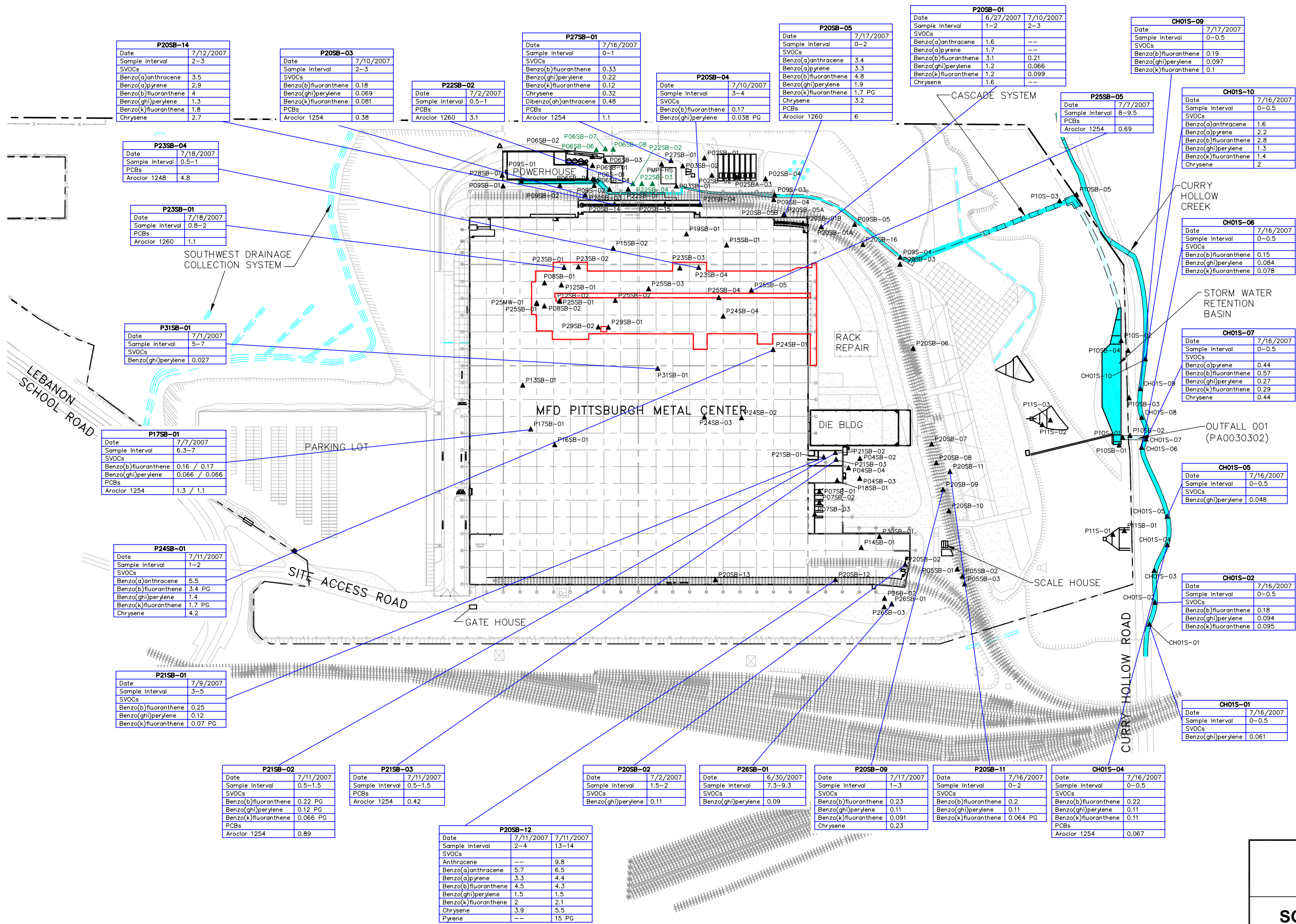
- LEGEND:**
- P06SB-08 ▲ APPROXIMATE SOIL BORING LOCATION
 - P15SB-01 ▲ SOIL BORING LOCATION
 - SITE BOUNDARY
 - BASEMENT
 - RAILROAD TRACKS
 - SURFACE WATER
 - UNDERGROUND SURFACE WATER FLOW
- NOTE:**
- PRELIMINARY UNVALIDATED DATA
 - ONLY ANALYTE CONCENTRATIONS EXCEEDING APPLICABLE SCREENING CRITERIA ARE SHOWN ON FIGURE. COMPLETE SOIL ANALYTICAL RESULTS ARE SUMMARIZED ON TABLE 2.
 - ALL ANALYTE CONCENTRATIONS ARE IN MILLIGRAMS PER KILOGRAM (mg/kg).
 - SVOCs: SEMI-VOLATILE ORGANIC COMPOUNDS
 - PCBs: POLYCHLORINATED BIPHENYLS
 - J: ESTIMATED VALUE
 - PG: THE PERCENTAGE DIFFERENCE BETWEEN THE ORIGINAL AND CONFIRMATION ANALYSES IS GREATER THAN 40%.
 - : ANALYTE NOT DETECTED OR DETECTED AT A CONCENTRATION LESS THAN THE APPLICABLE SCREENING CRITERIA.
 - MULTIPLE RESULTS SEPARATED BY "/" INDICATE ORIGINAL SAMPLE AND DUPLICATE SAMPLE RESULTS, RESPECTIVELY.
 - SVOC RESULTS INCLUDE POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)

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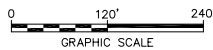
GENERAL MOTORS CORPORATION
PITTSBURGH STAMPING PLANT
WEST MIFFLIN, PENNSYLVANIA
PHASE II ESA

SOIL AND SEDIMENT ANALYTICAL RESULTS FOR PAOCs/PAORs 1-15



- LEGEND:**
- P06SB-08 ▲ APPROXIMATE SOIL BORING LOCATION
 - P15SB-01 ▲ SOIL BORING LOCATION
 - SITE BOUNDARY
 - BASEMENT
 - RAILROAD TRACKS
 - SURFACE WATER
 - UNDERGROUND SURFACE WATER FLOW
- NOTE:**
- PRELIMINARY UNVALIDATED DATA
 - ONLY ANALYTE CONCENTRATIONS EXCEEDING APPLICABLE SCREENING CRITERIA ARE SHOWN ON FIGURE. COMPLETE SOIL ANALYTICAL RESULTS ARE SUMMARIZED ON TABLE 2.
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 - PCBs: POLYCHLORINATED BIPHENYLS
 - J: ESTIMATED VALUE
 - PG: THE PERCENTAGE DIFFERENCE BETWEEN THE ORIGINAL AND CONFIRMATION ANALYSES IS GREATER THAN 40%.
 - ANALYTE NOT DETECTED OR DETECTED AT A CONCENTRATION LESS THAN THE APPLICABLE SCREENING CRITERIA.
 - MULTIPLE RESULTS SEPARATED BY "/" INDICATE ORIGINAL SAMPLE AND DUPLICATE SAMPLE RESULTS, RESPECTIVELY.
 - SVOC RESULTS INCLUDE POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)

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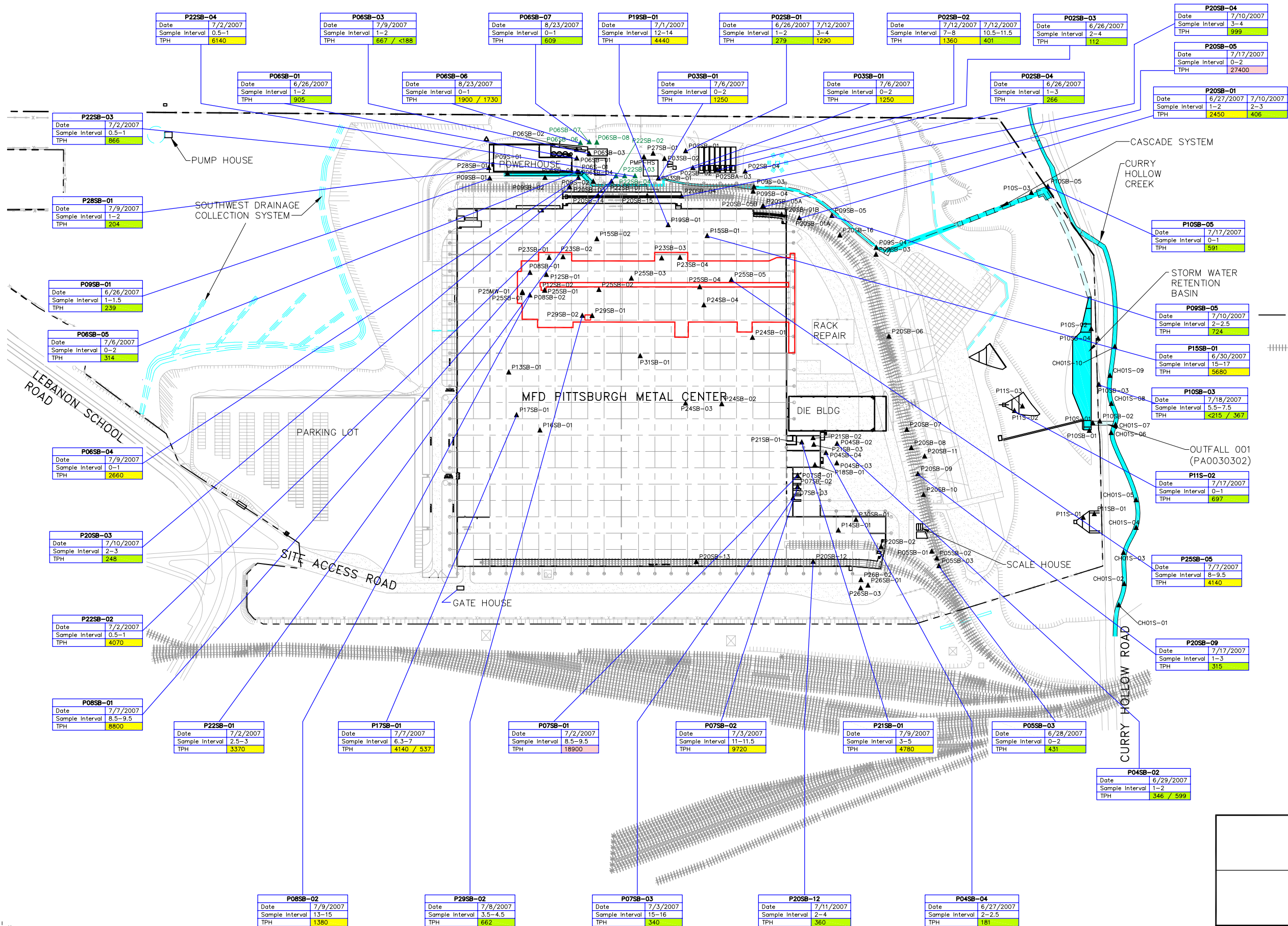
GENERAL MOTORS CORPORATION
PITTSBURGH STAMPING PLANT
WEST MIFFLIN, PENNSYLVANIA
PHASE II ESA

**SOIL AND SEDIMENT ANALYTICAL
RESULTS FOR PAOCs/PAORs 16-34**

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE
3B

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GRAPHIC SCALE

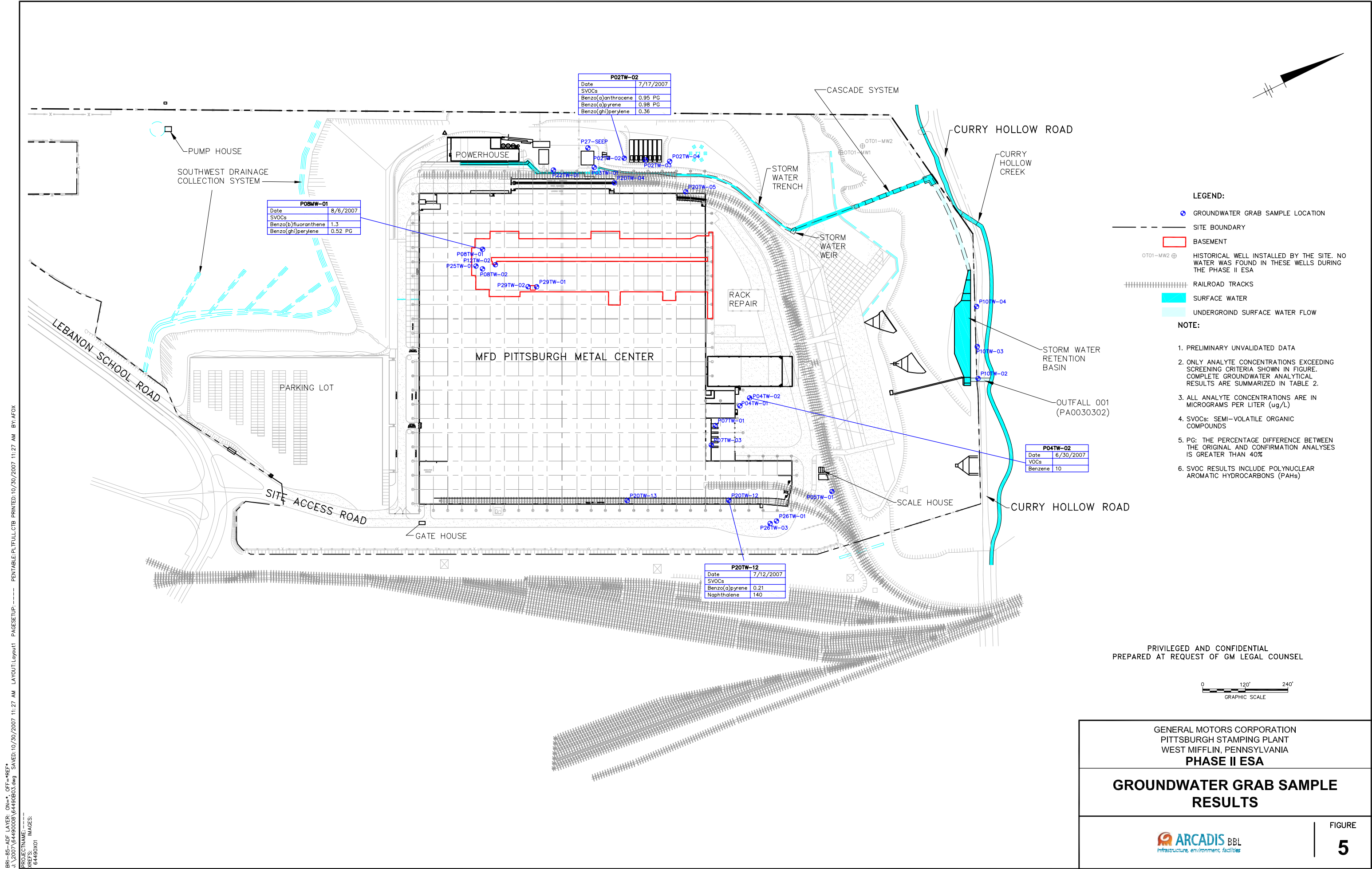
GENERAL MOTORS CORPORATION
PITTSBURGH STAMPING PLANT
WEST MIFFLIN, PENNSYLVANIA
PHASE II ESA

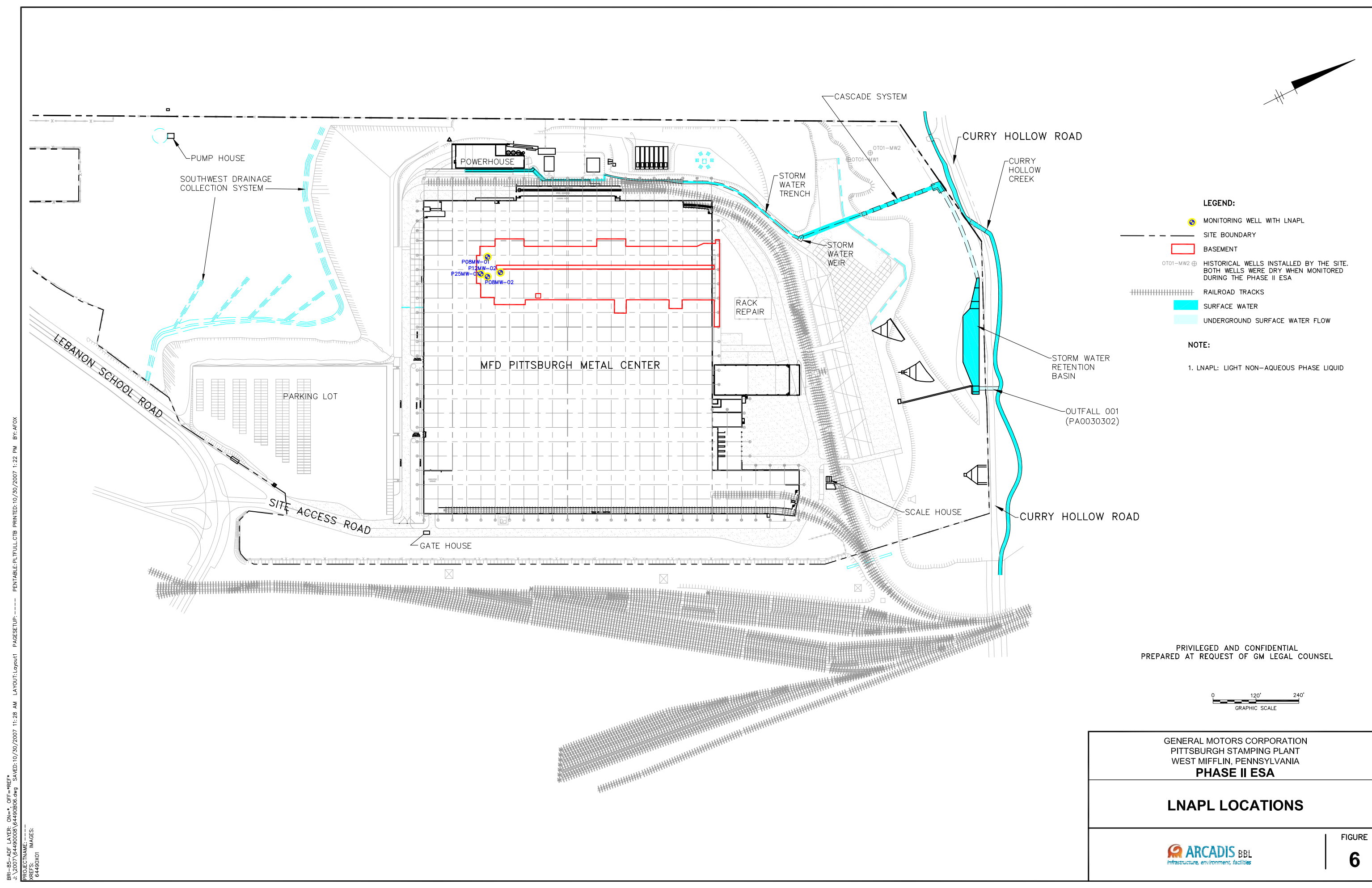
TPH IN SOIL RESULTS

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE

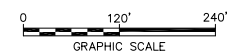
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GENERAL MOTORS CORPORATION
PITTSBURGH STAMPING PLANT
WEST MIFFLIN, PENNSYLVANIA
PHASE II ESA

L NAPL LOCATIONS



FIGURE

6