



CITY OF DETROIT
WATER AND SEWERAGE DEPARTMENT
INDUSTRIAL WASTE CONTROL DIVISION

303 S. LIVERNOIS AVENUE
DETROIT, MICHIGAN 48209-3070
PHONE: 313.297.9400
FAX: 313.297-5860
WWW.DETROITMI.GOV

CERTIFIED MAIL

August 28, 2009

Mr. Robert Hare
General Motors Tech Center
2000 Centerpoint Parkway, MC 483-520-190
Pontiac, MI 48341-3147

Dear Mr. Hare:

Re: Special Discharge Permit No. SD6-92165
Site: GM/REALM - Livonia
12950 Eckles Road in Livonia, MI 48150

Enclosed is your Special Discharge Permit issued by the Detroit Water and Sewerage Department (DWSD) to discharge remediated groundwater from the above site and treated storm water collected in the pits on the east side of the treatment building, into the Detroit sewer system. The DWSD based this permit on the data and other related information your company submitted to Industrial Waste Control Division.

Your permit contains specific discharge limitations, flow rate, self-monitoring and reporting requirements. The DWSD can rescind this permit at any time if the discharge shows noncompliance with the discharge limitations or if the DWSD determines that the effluent has an adverse effect on the Detroit Wastewater Treatment Plant. Failure to comply with these terms and conditions may result in the immediate permit revocation and appropriate enforcement action.

Should you have any questions, please contact Mr. Tahseen Ansari at (313) 297-5814 or myself at (313) 297-5882.

Sincerely,

Jayakumar Pallegar, P.E.
Sr. Assoc. Engineer
Industrial Waste Control Division

JP/TA/bc

cc: Mr. Christopher Meincke
Conestoga-Rovers & Associates
14496 Sheldon Road, Suite 200
Plymouth, MI 48170-6026



SPECIAL DISCHARGE PERMIT
PERMIT NO.: SD6-92165

SECTION A: GENERAL INFORMATION

Site Information: GM/REALM - Livonia
12950 Eckles Road
Livonia, MI 48150

Consultant Information: Conestoga-Rovers & Associates
14496 Sheldon Road, Suite 200
Plymouth, MI 48170-6026

Mr. Christopher Meincke
Tel: (734) 453-5123

The Detroit Water and Sewerage Department (DWSD) hereby authorizes GM/REALM to discharge remediated groundwater from the said site into the Detroit sewer system. The DWSD grants this permit in accordance with the company's application and in conformity with plans, specifications, and other substantial data submitted to the DWSD.

All parameters listed in the permit must be analyzed. If there is a need to extend the permit, the company must submit a written request for an extension to the DWSD at least ninety (90) days before the permit's expiration date.

Effective Date: August 28, 2009

Expiration Date: June 30, 2010

Issued by:

Authorized by:

Jayakumar Pallegar, P.E.
Sr. Assoc. Engineer
Industrial Waste Control Division

Jose Belén, P.E.
Chemical Engineer
Industrial Waste Control Division

SECTION B: DISCHARGE LIMITATIONS

1. Representative Sampling Location/Discharge Point:

Sampling Location: At effluent sampling port, after final pH adjustment tank, T12

Discharge Point: MH located 42.5 feet N. of Amrhein Road and 715 feet E. of Eckles Road

The following parameters shall be analyzed and reported as per reporting requirements.

PARAMETER		Daily Max. (mg/l)	Self-Monitoring Required (Y/N)
Arsenic	As	1	No
Biochemical Oxygen Demand	BOD	7500	No
Cadmium	Cd	1	No
Chromium	Cr	2.77	Yes
Copper	Cu	2.5	No
Cyanide (Available)	AVCN	1	No
Fats, Oil or Grease	FOG	1500	Yes
Iron	Fe	1000	No
Lead	Pb	0.69	Yes
Mercury	Hg	Non-detect	Yes
Nickel	Ni	3.98	Yes
Phosphorus	P	250	No
Silver	Ag	1	No
Total PCB	PCB	Non-detect	Yes
Total Phenolic Compounds	PHENOL	1	No
Total Suspended Solids	TSS	7500	Yes
Zinc	Zn	2.61	Yes
Acidity/Alkalinity (pH)	pH	5.0 - 11.5 Units	Yes
Total Toxic Organics (TTO) *		2.13	Yes

* A minimum of one (1) sample per year shall be analyzed. The Toxic Organics is listed in attachment A.

Limitations are based on grab samples. All parameters must be analyzed according to methods outlined by EPA in 40 CFR Part 136.

The toxic organics must be analyzed with detection limit of 10 µg/l or less. The detection limit must be indicated in the wastewater analytical report. Matrix interference must be specified where applicable.

2. Permit Definition

The site is the former Delphi Chassis Livonia Plant. The plant is demolished and there is no metal finishing categorical operation at the site. The site is being remediated and the only wastewater discharge from this site is treated groundwater and storm water collected in the pits on the east side of the treatment building. The groundwater is treated for pH adjustment, clarification and filtration before discharge into the City sewer.

3. Discharge Flow Rate

The maximum discharge rate from the remediation site shall not exceed 100,000 gallons per day (batch discharge). The treatment system operates 24 hours per day, seven (7) days per week. Any plans to increase the flow rate must be approved in writing by the DWSD prior to implementation.

SECTION C: MONITORING REQUIREMENTS

1. Analytical Requirements

The company shall monitor and analyzed the discharge once per month for all parameters.

2. The DWSD may collect independent samples for analysis, or may request "split" portion of the sample the company collected.

SECTION D: REPORTING REQUIREMENTS

1. a) The company shall submit to the analytical data to the DWSD every three (3) months.

b) In addition to the laboratory analysis, each report shall include the following information:
 - i) Reporting period, date of sampling, sampling location and total flow to date
 - ii) Certification that the analyzed discharge is, or is not in compliance with the permit discharge limits
 - iii) Copy of the maintenance logbook. (Refer to Section E, paragraph 8)
 - iv) Signature of the company's authorized representative

SECTION A: GENERAL CONDITIONS AND REQUIREMENTS

1. If the sampling performed indicates non-compliance of the permit limitations; the company must:
 - a) Cease the discharge to the Detroit sewer system,
 - b) Notify the Department within 24 hours of becoming aware of the violation, and
 - c) Arrange a meeting with the Industrial Waste Control Division to discuss corrective actions prior to resumption of discharge.

2. The company shall report all interruptions and shutdowns due to rainfall, mechanical breakdowns or other major causes within 24 hours of becoming aware of the event.
3. The company must comply with the General and Specific Pollutant Prohibitions described in the City of Detroit Ordinance 08-05.
4. No other discharge beyond those described and authorized by this permit shall occur without written approval from the DWSD.
5. Non-compliance with any term or condition of this permit shall constitute a violation of the City of Detroit sewer use ordinance, and may result in immediate revocation of the permit and appropriate enforcement action.
6. The requirements and conditions established in this permit do not relieve the company of its obligation to comply with any applicable pretreatment regulations, standards, requirements, or laws that may become effective during the term of this permit.
7. The company shall take all necessary precautions to avoid the obstruction of the normal flow of traffic customary to the street(s).
8. The company must maintain a maintenance log. This log shall at least contain dated and timed records of all:
 - a) Inspection visits
 - b) Changes or replacements of the Activated Carbon Units
 - c) Samples taken
 - d) Breakdown of operations with:
 - i) Reason for breakdown
 - ii) Actions taken to prevent reoccurrence of breakdown
9. The company shall notify the DWSD in writing or by telephone at least twenty-four (24) hours prior to initial discharge.
10. The company shall pay applicable fees to the DWSD. The fees are subject to change annually, based upon the sewerage disposal rates set by The Board of Water Commissioners. For billing purposes, the company shall submit a report to the DWSD for the previous quarter's total volume of wastewater discharge into the sewer. This information shall be submitted on or before the 5th day of January, April, July and October of every year.
11. Any violations of the permit, conditions, requirements and limitation shall be subjected to a penalty of \$500.00 per violation per day.

Attachment A

Purgeable Compounds	Limit	Extractable Compounds	Limit
1,1,1-Trichloroethane	20 ppb	Benzo (k) Fluoranthene or (11,12-Benzofluoranthene)	20 ppb
1,1,2,2-Tetrachloroethane	20 ppb	Bis (2-Chloroethoxy) Methane	20 ppb
1,1,2-Trichloroethane	20 ppb	Bis (2-Chloroethyl) Ether	20 ppb
1,1-Dichloroethane	20 ppb	Bis (2-Chloroisopropyl) Ether	20 ppb
1,1-Dichloroethylene	20 ppb	Bis (2-Ethylhexyl) Phthalate	20 ppb
1,2-Dichlorobenzene	20 ppb	Butyl benzyl phthalate or (Benzyl butyl phthalate)	20 ppb
1,2-Dichloroethane	20 ppb	Chrysene	20 ppb
1,2-Dichloropropane	20 ppb	Dibenzo (a,h) Anthracene or (1,2,5,6-Dibenzanthracene)	20 ppb
1,2-Dichloropropylene or (1,2-Dichloropropene)	20 ppb	Diethyl Phthalate	20 ppb
1,2-Trans-Dichloroethylene or (Trans-1,2-Dichloroethene)	20 ppb	Dimethyl Phthalate	20 ppb
1,3-Dichlorobenzene	20 ppb	Di-N-Butyl Phthalate	20 ppb
1,4-Dichlorobenzene	20 ppb	Di-N-Octyl Phthalate	20 ppb
2-Chloroethylvinyl Ether	20 ppb	Fluorene	20 ppb
Acrolein	20 ppb	Hexachlorobenzene	20 ppb
Acrylonitrile	20 ppb	Hexachlorobutadiene	20 ppb
Benzene	20 ppb	Hexachlorocyclopentadiene	20 ppb
Bromoform (Tribromomethane)	20 ppb	Hexachloroethane	20 ppb
Carbon Tetrachloride or (Tetrachloromethane)	20 ppb	Indeno (1,2,3-cd) Pyrene or (2,3-o-Phenylene Pyrene)	20 ppb
Chlorobenzene	20 ppb	Isophorone	20 ppb
Chlorodibromomethane or (Dibromochloromethane)	20 ppb	Naphthalene	20 ppb
Chloroethane	20 ppb	Nitrobenzene	20 ppb
Chloroform or (Trichloromethane)	20 ppb	N-Nitrosodimethylamine	20 ppb
Dichlorobromomethane or (Bromodichloromethane)	20 ppb	N-Nitrosodi-N-Propylamine	20 ppb
Ethylbenzene	20 ppb	N-Nitrosodiphenylamine	20 ppb
Methyl Bromide or (Bromomethane)	20 ppb	p-Chloro-m-Cresol or (4-chloro-3-methyl phenol)	20 ppb
Methyl Chloride or (Chloromethane)	20 ppb	Pentachlorophenol	20 ppb
Methylene Chloride or (Dichloromethane)	20 ppb	Phenanthrene	20 ppb
Tetrachloroethylene or (Tetrachloroethene)	20 ppb	Phenol	20 ppb
Toluene	20 ppb	Pyrene	20 ppb
Trichloroethylene or (Trichloroethene)	20 ppb	Pesticides & PCB	
Vinyl Chloride or (Chloroethylene)	20 ppb	2,3,7,8-Tetrachlorodibenzo-p-Dioxin	20 ppb
Xylene	20 ppb	4,4-DDD or (p,p-TDE)	20 ppb
Extractable Compounds		4,4-DDE or (p,p-DDX)	20 ppb
1,2,4-Trichlorobenzene	20 ppb	4,4-DDT	20 ppb
1,2-Diphenylhydrazine	20 ppb	Aldrin	20 ppb
2,4,6-Trichlorophenol	20 ppb	Alpha-BHC	20 ppb
2,4-Dichlorophenol	20 ppb	Alpha-Endosulfan or (Endosulfan I)	20 ppb
2,4-Dimethylphenol	20 ppb	Beta-BHC	20 ppb
2,4-Dinitrophenol	20 ppb	Beta-Endosulfan or (Endosulfan II)	20 ppb
2,4-Dinitrotoluene	20 ppb	Chlordane	20 ppb
2,6-Dinitrotoluene	20 ppb	Delta-BHC	20 ppb
2-Chloronaphthalene	20 ppb	Dieldrin	20 ppb
2-Chlorophenol	20 ppb	Endosulfan sulfate	20 ppb
2-Nitrophenol	20 ppb	Endrin	20 ppb
3,3-Dichlorobenzidine	20 ppb	Endrin Aldehyde	20 ppb
4,6-Dinitro-O-Cresol	20 ppb	Fluoranthene	20 ppb
4-Bromophenyl Phenyl Ether	20 ppb	Gamma-BHC	20 ppb
4-Chlorophenyl Phenyl Ether	20 ppb	Heptachlor	20 ppb
4-Nitrophenol	20 ppb	Heptachlor Epoxide or (BHC-Hexachlorocyclohexane)	20 ppb
Acenaphthene	20 ppb	Toxaphene	20 ppb
Acenaphthylene	20 ppb	PCB-1016 (Arochlor 1016)	0.5 ppb
Anthracene	20 ppb	PCB-1221 (Arochlor 1221)	0.5 ppb
Benzidine	20 ppb	PCB-1232 (Arochlor 1232)	0.5 ppb
Benzo (a) Anthracene or (1,2-Benzanthracene)	20 ppb	PCB-1242 (Arochlor 1242)	0.5 ppb
Benzo (a) Pyrene or (3,4-Benzopyrene)	20 ppb	PCB-1248 (Arochlor 1248)	0.5 ppb
Benzo (b) Fluoranthene or (3,4-Benzofluoranthene)	20 ppb	PCB-1254 (Arochlor 1254)	0.5 ppb
Benzo (ghi) Perylene or (1,12-Benzoperylene)	20 ppb	PCB-1260 (Arochlor 1260)	0.5 ppb