



May 23, 2017

City of Detroit Department of Public Works
City Engineering & Street Maintenance Divisions
Coleman A. Young Municipal Center
2 Woodward Avenue, Suite 611
Detroit, Michigan 48226

Re: Notice of Migration of Contamination
From 6000 West Jefferson Avenue, Detroit, MI, Tax ID 16000036 (MDOT Parcel 5104)
Potentially toward W. Jefferson Avenue right-of-way to south, S. Cavalry Street right-of-way to east,
And/or alley right-of-way to north
Notification No. 5104-ROW

Dear City Engineering & Street Maintenance Divisions:

The Mannik Smith Group, Inc. ("MSG"), on behalf of the Michigan Department of Transportation ("MDOT"), has directed or conducted underground environmental testing at 6000 West Jefferson Avenue, Detroit, Michigan ("the Site") in relation to the Gordie Howe International Bridge project underway in the vicinity of the right-of-ways referenced above ("the subject property").

The Michigan Department of Environmental Quality ("MDEQ") requires distribution of the enclosed a Notice of Migration of Contamination form when there is evidence that environmental contamination at one property has or may have affected nearby properties. Hazardous substance(s) were identified in soil and/or groundwater sample(s) collected at the Site at concentration(s) that exceed Generic Residential Cleanup Criteria and Screening Levels established by the MDEQ.

At this time, it is not known if the subject property has been affected by the environmental contamination at the Site. Also, the identification of hazardous substance(s) at the Site does not necessarily mean a hazardous situation or immediate danger currently exists. MSG, on behalf of the MDOT, is providing this notice to you as a precautionary measure and for your general awareness of environmental conditions at the Site.

Please review the enclosed document and if you have any questions regarding the Notice of Migration of Contamination please contact Karen Williams of the MDEQ at 586-753-3884. If you have general questions regarding the contents of this letter please contact Walter Bolt of MSG at 734-397-3100, extension 115 or Jim Woodruff of the MDOT at 517-241-9115.

Sincerely,

Walter J. Bolt, CPG
Project Manager
Environmental Owners Representative Consultant
Gordie Howe International Bridge Project

CC: Jim Woodruff – MDOT
Karen Williams – MDEQ RRD Project Manager
Raymond A. Scott – Deputy Director, City of Detroit BSEED
Paul Max – General Manager, Environmental Affairs, City of Detroit BSEED

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TECHNICAL SKILL.
CREATIVE SPIRIT.

5104 Notice Cover Letter, Detroit DPW.docx



For DEQ Use Only ITS # _____ Site ID # _____ Category Code: _____
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NOTICE OF MIGRATION OF CONTAMINATION (FORM EQP4482 REV. 4/16)

(Under the authority of Part 201, Natural Resources and Environmental Protection Act, 1994 Act 451, as amended, (NREPA) and the Rules promulgated thereunder)

An owner or operator of property that is a facility, and/or who is subject to MCL324.20107a, and who has reason to believe that a hazardous substance is emanating from, has emanated from, or is likely to be emanating from the property and migrating beyond the boundaries of the property that he or she owns or operates is required under R 299.51017(1) and MCL 324.20114(1)(b)(ii) & (iii) to notify the Michigan Department of Environmental Quality (DEQ) and affected property owners. Submission of this notice does not fulfill the notification requirements of MCL 324.21309a.

The notice must be provided within 45 days (MCL 324.20107a) or within 30 days (MCL 324.20114) after the owner or operator has reason to believe that hazardous substances have migrated, or are likely to have migrated, to or beyond the boundary of his or her property (see R 299.51017 for exceptions that apply to parties subject to MCL 324.20107a).

Use of this form is mandatory for the notice required by R 299.51017(1) and may also be used by parties subject to MCL 324.20114(1)(b)(ii) & (iii). This form may also be used to provide notice to affected property owners as required by those rules.

If a person holds a permit for an oil and gas well under Part 615, Supervisor of Wells, of the NREPA and there is a release from the oil and gas exploration or production activities, that person shall give notice to the DEQ and to the owner of the surface rights of the property.

If a person holds an easement and there is a release from the easement holder's activities, that person shall provide notice to the DEQ and to the grantor of the easement, or the grantor's successor in interest, if any.

Completing this notice in no way relieves a person who is subject to MCL 324.20114 from the responsibility to undertake required response activities.

This notice must be sent to the DEQ office that serves the county in which the property is located. A list of DEQ offices is available at www.michigan.gov/deqducare, or by calling the Remediation and Redevelopment Division's Lansing office at 517-284-5187. The DEQ will not prepare acknowledgement of receipt of these notices. The sender is responsible for sending the report using a method that provides proof of delivery if such proof is desired. Please label the outside of the envelope "Migration Notice." Additional guidelines for the compliance with the requirements of R 299.51017(1) or MCL 324.20114(1)(b)(ii) & (iii) are available at www.michigan.gov/deqducare.

THIS NOTICE IS PROVIDED PURSUANT TO: R 299.51017 MCL 324.20114(1)
(check both, if applicable)

Please provide the following information as completely as possible.

1. Name and location of the property that hazardous substances are emanating from: 2. Status relative to the property:
(Check one or both, as applicable.)

Name: MI Dept. of Transportation (MDOT) Parcel 5104
Address: 6000 W. Jefferson Ave.
Location: Michigan
City/County: Detroit/Wayne
Property Tax Identification Number, or if applicable, the ward and item number: 16000036

Owner
Operator

Latitude (decimal degrees): 42.302434 °N Longitude (decimal degrees): -83.095785 °W

Reference Point for Latitude and Longitude:
Center of Site: Main/front door: Front gate/main entrance: Other:

Collection Method: Survey: Interpolation: GPS:



2. Provide any additional ID numbers associated with the property (e.g., EPA ID No., BEA No., Part 213 facility ID No., etc.):

GHIB MDOT Parcel 5104; MERA Site ID# 82002800; CNTS-RRD-16-001

3. Name, address, and telephone number of the property owner, operator, or other party submitting the notice:

Name: MDOT Bureau of Development, Environmental Services Section

Address: 425 W. Ottawa Street, P.O. Box 30050

City/State: Lansing, MI, 48909

Telephone Number: 517-241-9115

4. Name, address and telephone number of a contact person familiar with the content of the notice:

Name: Walter Bolt of The Mannik & Smith Group, Inc. Environmental Owner's Rep Consultant to MDOT

Address: 2365 Haggerty Road South

City/State: Canton, MI 48188

Telephone Number: 734-397-3100 x. 115

5. If this Notice is provided pursuant to R 299.51017, provide the address and other location information for the *adjacent* property(s) onto which contamination is migrating, has migrated, or is likely to migrate.

If this Notice is provided pursuant to MCL Section 324.20114(1), provide the address and other location information for *each* property onto which contamination has migrated. Notice should be sent to the property owner of record. If the impacted property is owned by the State of Michigan, notice should be sent to the department managing the property (e.g., a prison, state park, etc.). Notices to the Michigan Department of Transportation (MDOT) for state owned roadways should be sent to Contaminated Site Specialist, Environmental Services Section, MDOT-Bureau of Development, 425 W. Ottawa Street, P.O. Box 30050, Lansing, MI 48909. If the impacted property is owned by the State of Michigan, notice should be sent to the department managing the property (i.e. a prison, state park, etc.).

Address: 530 S. Cavalry St.

City/State: Detroit, MI

Property Tax ID number: 16015231

Other: Michigan Land Bank Fast Track Authority

Notified? No Yes Date: May 23, 2017

Address: 5894 W. Jefferson Ave.

City/State: Detroit, MI

Property Tax ID number: 16000037

Other: Nancy E. Larsen c/o

Ackerman, Ackerman & Dynkowski

Notified? No Yes Date: May 23, 2017

Address: 5831 W. Jefferson Ave.

City/State: Detroit, MI

Property Tax ID number: 16000007

Other: Consolidated Rail Corporation (Conrail)

Notified? No Yes Date: May 23, 2017

Address: 5831 W. Jefferson Ave.

City/State: Detroit, MI

Property Tax ID number: 16000007

Other: Potential interest holder/operator: City of Detroit

Parks & Recreation Department (Historic Fort Wayne)

Notified? No Yes Date: May 23, 2017

Address: 6008 W. Jefferson Ave.

City/State: Detroit, MI

Property Tax ID number: 16000035

Other: KMML Properties WCT, LLC

Notified? No Yes Date: May 23, 2017

MAP OF PROPERTY TAX ID NUMBERS



MDOT 5105
530 S CAVALRY
 16015231

MDOT 5101
6020 W JEFFERSON
 16000033
6014 W JEFFERSON
 16000034

MDOT 5112
5894 W JEFFERSON
 16000037
5880 W JEFFERSON
 16000038

MDOT 5103
6008 W JEFFERSON
 16000035

MDOT 5104
6000 W JEFFERSON
 16000036

OFFSITE
5831 W JEFFERSON
 16000007

W JEFFERSON AVE
 CITY OF DETROIT ROADWAY

S CAVALRY ST
 CITY OF DETROIT ROADWAY

COD ALLEY

COD ALLEY

Coordinate System: UTM Zone 17 N IntFt
 Projection: Transverse Mercator
 Datum: NAD 1983 CORS96



FIGURE 1
 PROPERTY TAX ID NUMBERS
 ADJACENT TO MDOT 5104
 Gordie Howe International Bridge
 Detroit, Michigan

DATE	DRAWN BY	DESIGNED BY	PROJECT NO.
5/17/2017	AMK	LHK	MDOT0070



- 5104
- Adjacent MDOT Parcels
- Parcel Boundaries
- MDOT Parcels
- Adjacent Offsite Parcel

Date Saved: 5/17/2017 4:50:18 PM
 Path: S:\Projects\Project K-OMDOT0070\ENGAPPS\GIS\Map_Files\Notification Maps\5104_Offsite_Property_Tax_ID.mxd



6. Complete the Table on Page 6 of this Form for each hazardous substance which has migrated, or is likely to have migrated, beyond the property boundary at a concentration that exceeds a Generic Residential Cleanup Criterion developed by the DEQ pursuant to MCL 324.20120a(1). Complete and attach additional copies of Page 6, if necessary, to list all hazardous substances that must be reported. Include a scaled map or drawing that shows the location of sampling points identified on the Table on Page 6, the property boundaries, and the adjacent property owners if providing notice pursuant to R 299.1017(1) or all impacted property owners if providing notice pursuant to MCL 324.20114(1).

7. Provide a summary of the information which shows that contamination is emanating from, or has emanated from, and is present beyond the boundary of the source property at a concentration which exceeds the generic residential criteria developed by the DEQ pursuant to MCL 324.20120a(1)(a). This summary shall identify the environmental media affected, specific hazardous substances, and the concentrations of those hazardous substances in all affected environmental media at the property boundary and in any sample locations beyond the property boundary. The summary shall also describe the basis for the conclusion that the contamination is emanating, has emanated, or is present beyond the boundary of the source property, including whether the conclusion is based on groundwater analytical data or fate and transport modeling, both, or neither.

8. If the person making this notice has reason to believe that a migrating hazardous substance has affected, or is likely to affect, a private or public water supply, then that water supply must be identified here:

NA

- | | YES | NO |
|---|-------------------------------------|-------------------------------------|
| 9. Is this notice being submitted within the timeframes established under R 299.51017 and/or MCL 324.20114(1), as applicable? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10. Is this notice in addition to a notice that was submitted prior to <i>December 21, 2002</i> ? (R 299.51017(4)(c)) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11. Is this notice related to an oil and gas well permit (R 299.51017(2))? Permit #: | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Is this notice related to an easement (R 299.51017(3))? (NOTE: All easement grantors <i>must</i> receive this notice.) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13. Has surface water been affected (R 299.51017(1))? (If yes, please identify the affected surface water body.) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CERTIFICATION:

With my signature below, I certify that I am the owner of the facility or that I am legally authorized to execute this notice on behalf of the owner or operator named on this form, and that to the best of my knowledge and belief the above representations are complete and accurate. I understand that intentionally submitting false information to the DEQ is a felony and may result in fines up to \$25,000 for each violation.

Signature Walter J. Bolt
(Owner or person legally authorized to bind the person making this report)

Date 5/23/2017

Name (Typed or Printed) Walter J. Bolt

Title (Typed or Printed) Project Manager, Environmental Owners Representative Consultant, Gordie Howe International Bridge Project



See Item 6 on Page 5 of this Form for instructions to be used in completing this table. Attach additional pages if necessary. The information to be included in each column of the table is:

- Column A Name of hazardous substance.
- Column B Chemical Abstract Service (CAS) Number for the hazardous substance.
- Column C Maximum hazardous substance concentration measured on the property, expressed in parts per billion (e.g., ug/L or ug/Kg). Report maximum concentration separately for each environmental medium.
- Column D Sample location for Column C (relate to label on map).
- Column E Environmental medium in which concentration reported in Column C was measured (e.g., soil or groundwater).
- Column F Distance from point of maximum measured concentration (Column D) to property boundary, in direction of contaminant migration, if direction is known or can reasonably be inferred. If direction is unknown, list distance to nearest property boundary.
- Column G Direction of contaminant migration, if known.
- Column H Concentration closest to property boundary, if known. If a concentration lower than the maximum concentration reported in Column C has been measured at a point closer to the property boundary in the direction of contaminant migration, use Column I to list the concentration that was measured closest to the property boundary in the direction of contaminant migration.
- Column I Sample location for Column H (relate to label on map).
- Column J Environmental medium for measurement reported in Column H, if applicable.

PLEASE SEE ATTACHED TABLE 1

A Hazardous Substance	B CAS Number	C Maximum Concentration	D Sample Location for "C"	E Environmental Medium for "C"	F Distance to Property Boundary	G Direction of Migration	H Boundary Concentration	I Sample Location for "H"	J Environmental Medium for "H"

Total Number Samples Collected: _____ Total Number of Samples Exceeding Criteria: _____

**A scaled map or drawing showing these locations and the property boundaries must be submitted with this Notice
PLEASE SEE ATTACHED FIGURES 2 AND 3**

TABLE 1

DEQ NOTICE OF MIGRATION ATTACHMENT

A	B	C	D	E	F	G	H	I	J
Hazardous Substance	CAS Number	Maximum Concentration	Sample Location for "C"	Environmental Medium for "C"	Distance to Property Boundary	Direction of Migration	Boundary Concentration	Sample Location for "H"	Environmental Medium for "H"
Benzene	71-43-2	1,800	5104_SB-05_14-15_S_SME_20170316	Soil	15 feet	Unknown	-	-	-
Xylenes (Total)	1330-20-7	1,700	5104_SB-01_10-11_S_SME_20170316	Soil	5 feet	Unknown	-	-	-
Benzo(a)pyrene	50-32-8	14,000	5104_SB-04_0.5-2_S_SME_20170316	Soil	15 feet	Unknown	-	-	-
Fluoranthene	206-44-0	34,000	5104_SB-04_0.5-2_S_SME_20170316	Soil	15 feet	Unknown	-	-	-
2-Methylnaphthalene	91-57-6	7,100	5104_SB-01_10-11_S_SME_20170316	Soil	5 feet	Unknown	-	-	-
Naphthalene	91-20-3	8,500	5104_SB-01_10-11_S_SME_20170316	Soil	5 feet	Unknown	-	-	-
Phenanthrene	85-01-8	28,000	5104_SB-04_0.5-2_S_SME_20170316	Soil	15 feet	Unknown	-	-	-
Arsenic	7440-38-2	18,000	5104_SB-02_0-0.8_S_SME_20170316	Soil	5 feet	Unknown	-	-	-
Chromium (Hexavalent)	18540-29-9	13,000	5104_SB-02_0-0.8_S_SME_20170316	Soil	5 feet	Unknown	-	-	-
Copper	7440-50-8	140,000	5104_SB-02_0-0.8_S_SME_20170316	Soil	5 feet	Unknown	-	-	-
Lead - Total (calculated)	7439-92-1	500,000	5104_SB-02_0-0.8_S_SME_20170316	Soil	5 feet	Unknown	-	-	-
Lead - Fine Fraction	7439-92-1	430,000	5104_SB-02_0-0.8_S_SME_20170316	Soil	5 feet	Unknown	-	-	-
Lead - Coarse Fraction	7439-92-1	560,000	5104_SB-02_0-0.8_S_SME_20170316	Soil	5 feet	Unknown	-	-	-
Mercury	7439-97-6	620	5104_SB-04_0.5-2_S_SME_20170316	Soil	15 feet	Unknown	-	-	-
Zinc	7440-66-6	370,000	5104_SB-02_0-0.8_S_SME_20170316	Soil	5 feet	Unknown	-	-	-
Benzene	71-43-2	5.2	5104_SB-05_7-12_GW_SME_20170316	Groundwater	15 feet	Unknown	-	-	-
Ethylbenzene	100-41-4	480	5104_SB-01_7-12_GW_SME_20170316	Groundwater	5 feet	Unknown	-	-	-
Isopropylbenzene (Cumene)	98-82-8	36	5104_SB-01_7-12_GW_SME_20170316	Groundwater	5 feet	Unknown	-	-	-
2-Methylnaphthalene	91-57-6	42	5104_SB-01_7-12_GW_SME_20170316	Groundwater	5 feet	Unknown	-	-	-
Naphthalene	91-20-3	130	5104_SB-01_7-12_GW_SME_20170316	Groundwater	5 feet	Unknown	-	-	-
Xylenes (Total)	1330-20-7	2,900	5104_SB-01_7-12_GW_SME_20170316	Groundwater	5 feet	Unknown	-	-	-
Benzo(a)pyrene	50-32-8	4,300	5104_DP-02_0-0.5_S_SME_20170316	Debris pile	10 feet	Unknown	-	-	-
Phenanthrene	85-01-8	2,200	5104_DP-02_0-0.5_S_SME_20170316	Debris pile	10 feet	Unknown	-	-	-
Cadmium	7440-43-9	11,000	5104_DP-02_0-0.5_S_SME_20170316	Debris pile	10 feet	Unknown	-	-	-
Copper	7440-50-8	140,000	5104_DP-02_0-0.5_S_SME_20170316	Debris pile	10 feet	Unknown	-	-	-
Lead - Total (calculated)	7439-92-1	930,000	5104_DP-02_0-0.5_S_SME_20170316	Debris pile	10 feet	Unknown	-	-	-
Lead - Fine Fraction	7439-92-1	650,000	5104_DP-02_0-0.5_S_SME_20170316	Debris pile	10 feet	Unknown	-	-	-
Lead - Coarse Fraction	7439-92-1	1,500,000	5104_DP-02_0-0.5_S_SME_20170316	Debris pile	10 feet	Unknown	-	-	-
Selenium	7782-49-2	2,100	5104_DP-02_0-0.5_S_SME_20170316	Debris pile	10 feet	Unknown	-	-	-
Zinc	7440-66-6	1,300,000	5104_DP-02_0-0.5_S_SME_20170316	Debris pile	10 feet	Unknown	-	-	-

Total Number of Samples Collected: 19 soil, 4 groundwater, 2 debris pile

Total Number of Samples Exceeding Criteria: 6 soil, 2 groundwater, 1 debris pile



MDOT Parcel 5104
 SME Project No. 073213.04
 Residential and Nonresidential Soil
 Exceedances and Contamination
 Estimation Diagram
 Figure No. 2

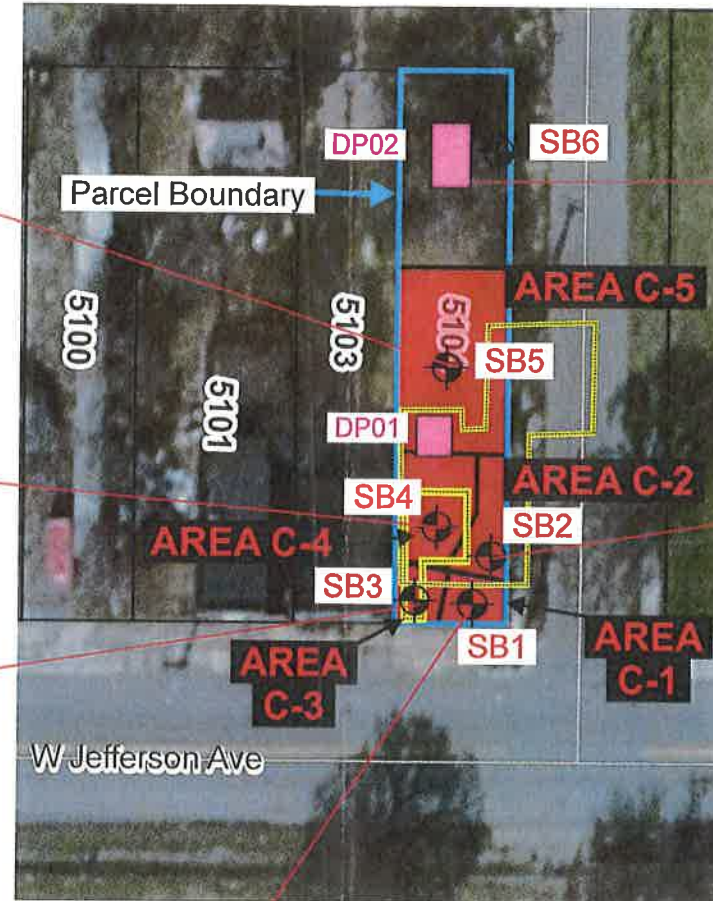
* Basemap provided by MSG.

Shaded area indicates estimated horizontal extent of impact. Refer to report for area/quantity estimate assumptions and qualifications.

Analyte	5104
	SB-05
	0.6-2
	03/16/17 TOPSOIL
Metals	
Zinc	180,000

Analyte	5104
	SB-04
	0.5-2
	03/16/17 TOPSOIL
PAHs	
Benzo(a)pyrene	14,000
Fluoranthene	34,000
Naphthalene	1,900
Phenanthrene	28,000
Metals	
Mercury	620
Zinc	380,000

Analyte	5104
	SB-03
	0-2
	03/16/17 SAND
PAHs	
Phenanthrene	2,800
Metals	
Zinc	340,000



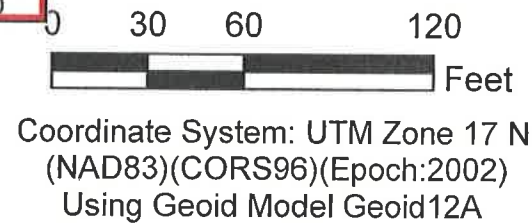
Analyte	5104
	SB-01
	10-11
	03/16/17 SAND
VOCs	
Xylenes, Total	1,700
PAHs	
2-Methylnaphthalene	7,100
Naphthalene	8,500

Analyte	5104
	DP-02
	0-0.5
	03/16/17 SAND
PAHs	
Benzo(a)pyrene	4,300
Phenanthrene	2,200
Metals	
Cadmium	11,000
Copper	140,000
Lead, coarse fraction	1,500,000
Lead, fine fraction	650,000
Lead, total (calculated)	930,000
Selenium	2,100
Zinc	1,300,000

Analyte	5104
	SB-02
	0-0.8
	03/16/17 TOPSOIL
Metals	
Arsenic	18,000
Hexavalent Chromium	13,000
Copper	140,000
Lead, coarse fraction	560,000
Lead, fine fraction	430,000
Lead, total (calculated)	500,000
Mercury	230
Zinc	370,000

Legend

- Historical Features
- PSI Soil Boring Location
- Debris Pile Location
- Concentration Exceeds Both Residential and Nonresidential Criteria



Notes:
 Historical feature locations are approximate and based on review of available Sanborn® maps provided by MSG.

Refer to the geophysical report appended to the PSI report for information about and figures depicting inferred buried utilities and other features, as applicable.

Groundwater Surface Water Interface Protection and Drinking Water Protection Criteria do not represent exposure concerns, but are relevant for Due Care for preconstruction and construction activities.

Concentrations are µg/kg (ppb)

Debris pile sample analytical results are not included in the extent of impact estimates.