



March 15, 2018

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 111 Military Street, Detroit, MI, Tax ID 16016494-503 (MDOT 5691)
Potentially toward Dragoon Street right-of-way to the west, Military Street right-of-way to the east, railroad right-of-way to the south, and/or vacated Hussar Street easement and vacated alley easement within 111 Military Street, Detroit, MI
Notification No. 5691-ROW

To whom it may concern:

The Mannik Smith Group, Inc. ("MSG"), on behalf of the Michigan Department of Transportation ("MDOT"), has directed or conducted underground environmental testing at 111 Military Street, Detroit, Michigan ("the Site") in relation to the Gordie Howe International Bridge project underway in the vicinity of the right-of-ways and easements referenced above ("the subject properties").

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 properties have 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 6025 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
Paul Max – General Manager, Environmental Affairs, City of Detroit BSEED
Anita Harrington – Environmental Specialist II, City of Detroit BSEED

RECEIVED JUN 18 2018

TECHNICAL SKILL.
CREATIVE SPIRIT.

5691.Notice Cover Letter.DetroitDPW.docx



For DEQ Use Only
ITS # _____
Site ID # _____
Category Code: _____

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/degducare, 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/degducare.

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: Status relative to the property:
(Check one or both, as applicable.)

Name: MI Dept. of Transportation (MDOT) Parcel 5691
Address: 111 Military Street
Location: Michigan
City/County: Detroit/Wayne
Property Tax Identification Number, or if applicable, the ward and item number: 16016494-503

Owner
Operator

Latitude (decimal degrees): 42.305722 °N Longitude (decimal degrees): -83.100389 °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 5691; EPA Order V-W-03-C-746; Part 201 Facility ID 82002476; CERCLIS 1006371434, Waste Data System ID MIR000022400; 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. 6025

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: 6201 Hussar Street
City/State: Detroit, MI
Property Tax ID number: 16016923-47
Other: Fort Street Business Park, LP
Notified? No Yes Date: March 15, 2018

Address: 151 Military Street
City/State: Detroit, MI
Property Tax ID number: 16015840-7
Other: Jalan Real Estate Investment
Notified? No Yes Date: March 15, 2018

Address: 121 S. Military Street
City/State: Detroit, MI
Property Tax ID number: 16015839.002L
Other: PTDC Properties
Notified? No Yes Date: March 15, 2018

Address: 322 Dragoon Street
City/State: Detroit, MI
Property Tax ID number: 16016688
Other: MDOT Parcel 5679
Notified? No Yes Date: March 15, 2018

Address: 317 Military Street
City/State: Detroit, MI
Property Tax ID number: 16016493
Other: MDOT Parcel 5690
Notified? No Yes Date: March 15, 2018



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
REMEDIATION AND REDEVELOPMENT DIVISION

- Address: No address (vacated alley abutting the rear lines of 322, 328 Dagoon Street & 317, 323, 329 Military Street) City/State: Detroit, MI Property Tax ID number: No number (abuts 16016688-9 & 16016491-3) Other: MDOT Parcel 5719 Notified? No Yes Date: March 15, 2018
- Address: 100 S. Military Street City/State: Detroit, MI Property Tax ID number: 16016550-4 Other: MDOT Parcel 5462 Notified? No Yes Date: March 15, 2018
- Address: 155 S. Dagoon Street City/State: Detroit, MI Property Tax ID number: 16016679-87 Other: MDOT Parcel 5456 Notified? No Yes Date: March 15, 2018
- Address: 111, 121 S. Livernois Ave. City/State: Detroit, MI Property Tax ID number: 16016922.001, 16016922.002L Other: MDOT Parcel 5454 Notified? No Yes Date: March 15, 2018
- Address: Unknown -- an approximately 60' wide strip of land immediately south of 111 Military St./16016494-503, occupied by active Norfolk Southern railroad tracks City/State: Detroit, MI Property Tax ID number: Unavailable Other: Norfolk Southern Corp. Notified? No Yes Date: March 15, 2018
- Address: 27700 Donald Court City/State: Warren, MI, 48092-2793 Property Tax ID number: NA Other: MDEQ, Southeast Michigan District Office Office of Drinking Water & Municipal Assistance Division Notified? No Yes Date: March 15, 2018
- Address: 2 Woodward Avenue, Ste. 611 City/State: Detroit, MI, 48226 Property Tax ID number: NA Other: City of Detroit (Military Street and Dagoon Street adjacent to, and vacated Hussar Street and alleys within 111 Military St./16016494-503) Notified? No Yes Date: March 15, 2018
- Address: 27175 Energy Way City/State: Novi, MI, 48377 Property Tax ID number: NA Other: International Transmission Company (ITC) (utility holder) Notified? No Yes Date: March 15, 2018
- Address: 735 Randolph Street, Ste. 1900 City/State: Detroit, MI, 48226 Property Tax ID number: NA Other: Great Lakes Water Authority (utility holder) Notified? No Yes Date: March 15, 2018



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
REMEDIATION AND REDEVELOPMENT DIVISION

Address: 12775 Lydon Street
City/State: Detroit, MI, 48227
Property Tax ID number: NA
Other: Comcast/Xfinity (utility holder)

Notified? No Yes Date: March 15, 2018

Address: 208 S. Akard Street
City/State: Dallas, TX, 75202
Property Tax ID number: NA
Other: AT&T Headquarters (utility holder)

Notified? No Yes Date: March 15, 2018

Address: One Energy Plaza, Ste. 1935
City/State: Detroit, MI, 48226
Property Tax ID number: NA
Other: Detroit Edison, DTE (utility holder)

Notified? No Yes Date: March 15, 2018

Address: 6425 Huber Street
City/State: Detroit, MI, 48211
Property Tax ID number: NA
Other: Detroit Water & Sewerage Department (utility holder) – via email

Notified? No Yes Date: March 15, 2018

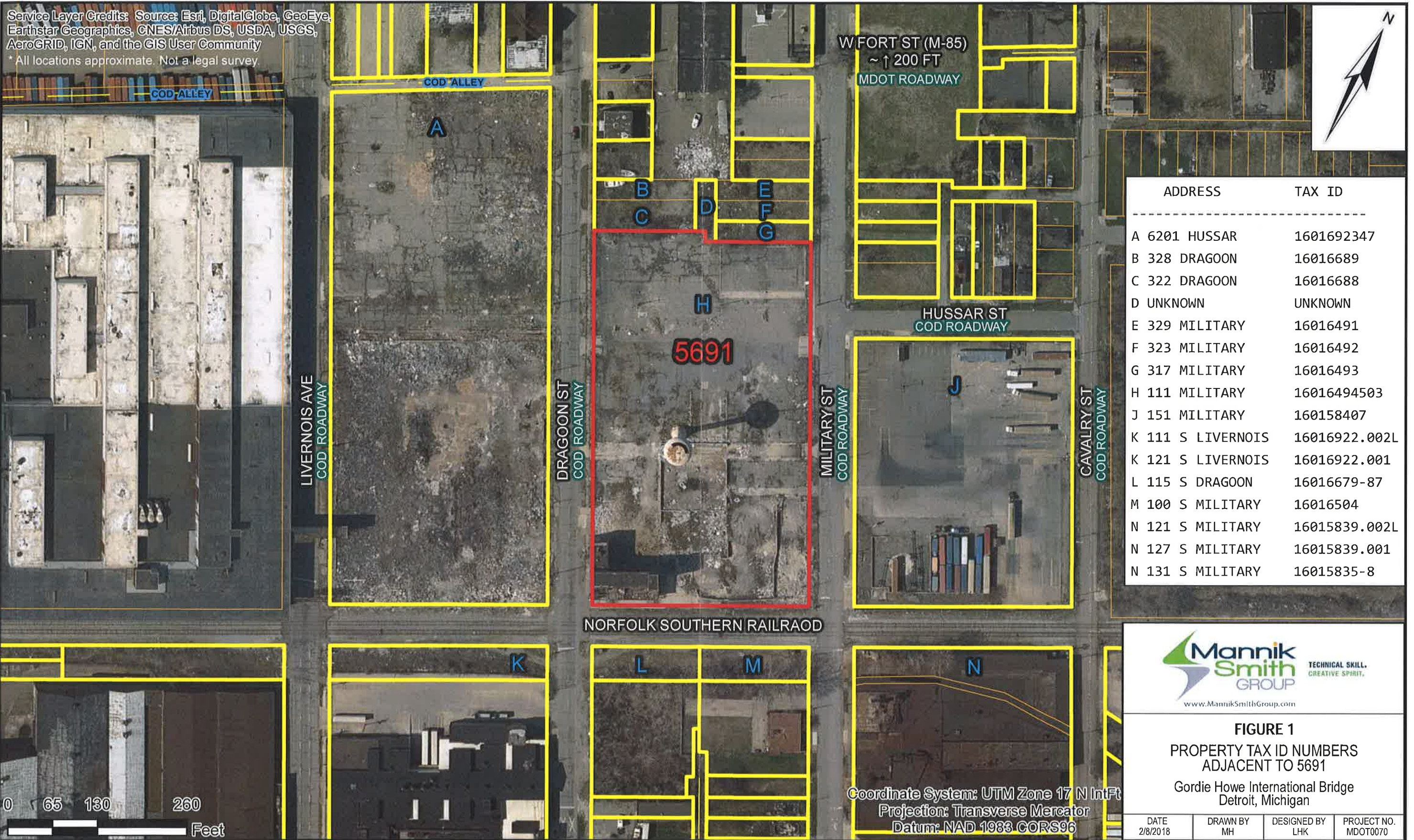
Address: 3245 E. Jefferson Avenue, Ste. 100
City/State: Detroit, MI, 48207
Property Tax ID number: NA
Other: Detroit Health Department – via email

Notified? No Yes Date: March 15, 2018

(Attach additional pages as needed) **PLEASE SEE ATTACHED MAP OF PROPERTY TAX ID NUMBERS.**

MAP OF PROPERTY TAX ID NUMBERS

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 * All locations approximate. Not a legal survey.



Date Saved: 2/8/2018 4:56:22 PM
 Path: S:\Projects\Project K-CMDOT0070\ENGAPPS\GIS\Map_Files\Notification Maps\5691_TaxID_Map.mxd



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



FIGURE 1
 PROPERTY TAX ID NUMBERS
 ADJACENT TO 5691
 Gordie Howe International Bridge
 Detroit, Michigan

DATE 2/8/2018	DRAWN BY MH	DESIGNED BY LHK	PROJECT NO. MDOT0070
------------------	----------------	--------------------	-------------------------





6. Complete the Table on Page 7 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 7, 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 7, 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 March 15, 2018

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 6 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 FIGURE 2

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"
Chromium (Total)	7440-47-3	55,000	5691_DP-01_0-5_S_SUP_20171101	Debris Pile	35 feet	Unknown	-	-	-
Mercury (Total)	7439-97-6	380	5691_DP-01_0-5_S_SUP_20171101	Debris Pile	35 feet	Unknown	-	-	-
Selenium	7782-49-2	6,900	5691_DP-01_0-5_S_SUP_20171101	Debris Pile	35 feet	Unknown	-	-	-
Trichloroethylene	79-01-6	240	5691_DP-01_0-5_S_SUP_20171101	Debris Pile	35 feet	Unknown	-	-	-
Zinc	7440-66-6	220,000	5691_DP-02_0-5_S_SUP_20171101	Debris Pile	10 feet	Unknown	-	-	-
Aluminum	7429-90-5	62,000	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Ammonia (as Nitrogen)	7664-41-7	630	5691_SB-22_7-12_GW_SUP_20171102	Groundwater	10 feet	Unknown	-	-	-
Arsenic	7440-38-2	60	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Benzo(b)fluoranthene	205-99-2	2.5	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Cadmium	7440-43-9	2.9	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Chromium (Total)	7440-47-3	130	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Cobalt	7440-48-4	73	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Copper	7440-50-8	470	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Fluoranthene	206-44-0	2.4	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Iron	7439-89-6	120,000	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Lead	7439-92-1	270	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Manganese	7439-96-5	3,100	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Mercury (Total)	7439-97-6	0.40	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Nickel	7440-02-0	180	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Phosphorous (Total)	7723-14-0	6,000	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Selenium	7782-49-2	16	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Silver	7440-22-4	0.42	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Sulfate	14808-79-8	370,000	5691_SB-19_7-12_GW_SUP_20171102	Groundwater	130 feet	Unknown	-	-	-
Vanadium	7440-62-2	130	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
Zinc	7440-66-6	1,200	5691_SB-27_9-14_GW_SUP_20171102	Groundwater	40 feet	Unknown	-	-	-
2,4-Dichlorophenol	120-83-2	7,500	5691_SB-01_0-2_S_SUP_20171030	Soil	30 feet	Unknown	-	-	-
2-Chlorophenol	95-57-8	4,200	5691_SB-01_0-2_S_SUP_20171030	Soil	30 feet	Unknown	-	-	-
4-Chloro-3-methylphenol	59-50-7	6,600	5691_SB-01_0-2_S_SUP_20171030	Soil	30 feet	Unknown	-	-	-
Aluminum	7429-90-5	37,000,000	5691_SB-04_6-8_S_SUP_20171030	Soil	5 feet	Unknown	-	-	-
Antimony	7440-36-0	20,000	5691_SB-04_6-8_S_SUP_20171030	Soil	5 feet	Unknown	-	-	-
Asbestos	1332-21-4	700,000	5691_SB-03_0-2_S_SUP_20171030	Soil	25 feet	Unknown	-	-	-
Benzo(a)pyrene	50-32-8	12,000	5691_SB-15_0-2_S_SUP_20171031	Soil	30 feet	Unknown	-	-	-
bis(2-chloroethyl)ether	111-44-4	6,700	5691_SB-01_0-2_S_SUP_20171030	Soil	10 feet	Unknown	-	-	-
Cadmium	7440-43-9	17,000	5691_SB-22_0-2_S_SUP_20171031	Soil	30 feet	Unknown	-	-	-
Carbazole	86-74-8	1,900	5691_SB-15_0-2_S_SUP_20171031	Soil	30 feet	Unknown	-	-	-
Chromium (Total)	7440-47-3	760,000,000	5691_SB-04_6-8_S_SUP_20171030	Soil	5 feet	Unknown	-	-	-
Copper	7440-50-8	68,000,000	5691_SB-22_0-2_S_SUP_20171101	Soil	10 feet	Unknown	-	-	-
Cyanide	57-12-5	42,000	5691_SB-01_0-2_S_SUP_20171030	Soil	30 feet	Unknown	-	-	-
Dibenzo(a,h)anthracene	53-70-3	4,700	5691_SB-01_0-2_S_SUP_20171030	Soil	30 feet	Unknown	-	-	-
Dibenzofuran	132-64-9	1,100	5691_SB-15_0-2_S_SUP_20171031	Soil	30 feet	Unknown	-	-	-
Diethyl phthalate	84-66-2	8,300	5691_SB-01_0-2_S_SUP_20171030	Soil	30 feet	Unknown	-	-	-
Fluoranthene	206-44-0	28,000	5691_SB-15_0-2_S_SUP_20171031	Soil	30 feet	Unknown	-	-	-
Hexachlorobenzene	118-74-1	11,000	5691_SB-01_0-2_S_SUP_20171030	Soil	30 feet	Unknown	-	-	-
Iron	7439-89-6	500,000,000	5691_SB-04_6-8_S_SUP_20171030	Soil	15 feet	Unknown	-	-	-
Lead - Coarse Fraction	7439-92-1	880,000	5691_SB-25_0-2_S_SUP_20171101	Soil	130 feet	Unknown	-	-	-
Lead - Fine Fraction	7439-92-1	850,000	5691_SB-25_0-2_S_SUP_20171101	Soil	130 feet	Unknown	-	-	-
Lead - Total (calculated)	7439-92-1	860,000	5691_SB-25_0-2_S_SUP_20171101	Soil	130 feet	Unknown	-	-	-
Magnesium	7439-95-4	64,000,000	5691_SB-01_0-2_S_SUP_20171030	Soil	30 feet	Unknown	-	-	-
Manganese	7439-96-5	25,000,000	5691_SB-01_0-2_S_SUP_20171030	Soil	30 feet	Unknown	-	-	-
Mercury (Total)	7439-97-6	410	5691_SB-25_6-8_S_SUP_20171101	Soil	90 feet	Unknown	-	-	-
Naphthalene	91-20-3	1,800	5691_SB-22_0-2_S_SUP_20171101	Soil	10 feet	Unknown	-	-	-
Nitrobenzene	98-95-3	6,400	5691_SB-01_0-2_S_SUP_20171030	Soil	30 feet	Unknown	-	-	-
Phenanthrene	85-01-8	20,000	5691_SB-15_0-2_S_SUP_20171031	Soil	30 feet	Unknown	-	-	-
Selenium	7782-49-2	15,000	5691_SB-04_6-8_S_SUP_20171030	Soil	5 feet	Unknown	-	-	-
Vanadium	7440-62-2	190,000	5691_SB-01_0-2_S_SUP_20171030	Soil	30 feet	Unknown	-	-	-
Xylenes (Total)	1330-20-7	680	5691_SB-22_0-2_S_SUP_20171101	Soil	10 feet	Unknown	-	-	-
Zinc	7440-66-6	12,000,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	10 feet	Unknown	-	-	-
Aluminum	7429-90-5	24,000,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Ammonia (as Nitrogen)	7664-41-7	35,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Antimony	7440-36-0	100,000	5691_WS-03_S_SUP_20171103	Waste Soil	100 feet	Unknown	-	-	-
Arsenic	7440-38-2	35,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Barium	7440-39-3	690,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Benzo(a)anthracene	56-85-3	74,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Benzo(a)pyrene	50-32-8	88,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Benzo(b)fluoranthene	205-99-2	170,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Cadmium	7440-43-9	34,000	5691_WS-03_S_SUP_20171103	Waste Soil	100 feet	Unknown	-	-	-
Carbazole	86-74-8	24,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	100 feet	Unknown	-	-	-
Chromium (Total)	7440-47-3	230,000	5691_WS-03_S_SUP_20171103	Waste Soil	100 feet	Unknown	-	-	-
Cobalt	7440-48-4	13,000	5691_WS-03_S_SUP_20171103	Waste Soil	100 feet	Unknown	-	-	-
Copper	7440-50-8	450,000	5691_WS-03_S_SUP_20171103	Waste Soil	100 feet	Unknown	-	-	-
Cyanide (Total)	57-12-5	1,900	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Dibenzo(a,h)anthracene	53-70-3	17,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Fluoranthene	206-44-0	190,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	83,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Iron	7439-89-6	130,000,000	5691_WS-03_S_SUP_20171103	Waste Soil	100 feet	Unknown	-	-	-
Lead	7439-92-1	1,000,000	5691_WS-03_S_SUP_20171103	Waste Soil	100 feet	Unknown	-	-	-
Magnesium	7439-95-4	31,000,000	5691_WS-02_S_SUP_20171103	Waste Soil	25 feet	Unknown	-	-	-
Manganese	7439-96-5	3,200,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Mercury (Total)	7439-97-6	3,600	5691_WS-03_S_SUP_20171103	Waste Soil	100 feet	Unknown	-	-	-
Nickel	7440-02-0	140,000	5691_WS-03_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Phenanthrene	85-01-8	86,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	100 feet	Unknown	-	-	-
Phosphorous (Total)	7723-14-0	860,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Selenium	7782-49-2	4,800	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Silver	7440-22-4	1,600	5691_WS-03_S_SUP_20171103	Waste Soil	100 feet	Unknown	-	-	-
Vanadium	7440-62-2	82,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Zinc	7440-66-6	2,100,000	5691_WS-09_0-2_S_SUP_20171103	Waste Soil	20 feet	Unknown	-	-	-
Aluminum	7429-90-5	850	5691_WW-05_W_SUP_20171103	Waste Water	80 feet	Unknown	-	-	-
Ammonia (as Nitrogen)	7664-41-7	2,500	5691_WW-06_W_SUP_20171103	Waste Water	70 feet	Unknown	-	-	-
Antimony	7440-36-0	49	5691_WW-07_W_SUP_20171103	Waste Water	15 feet	Unknown	-	-	-
Copper	7440-50-8	48	5691_WW-05_W_SUP_20171103	Waste Water	80 feet	Unknown	-	-	-
Iron	7439-89-6	9,200	5691_WW-04_W_SUP_20171103	Waste Water	160 feet	Unknown	-	-	-
Lead	7439-92-1	76	5691_WW-01_W_SUP_20171103	Waste Water	105 feet	Unknown	-	-	-
Manganese	7439-96-5	460	5691_WW-04_W_SUP_20171103	Waste Water	160 feet	Unknown	-	-	-
Phosphorous (Total)	7723-14-0	5,400	5691_WW-06_W_SUP_20171103	Waste Water	70 feet	Unknown	-	-	-
Vanadium	7440-62-2	7.8	5691_WW-05_W_SUP_20171103	Waste Water	80 feet	Unknown	-	-	-
Zinc	7440-66-6	240	5691_WW-05_W_SUP_20171103	Waste Water	80 feet	Unknown	-	-	-

Total Number of Samples Collected: 85 soil, 2 debris pile, 3 waste soil, 6 groundwater, 5 waste water.*

Total Number of Samples Exceeding Criteria: 77 soil, 2 debris pile, 3 waste soil, 6 groundwater, 5 waste water.*

* Waste soil or water means soil or water that was obtained from a subsurface structure (i.e. not directly from the ground)



Superior
ENVIRONMENTAL CORP
Prepared By:
Superior Environmental Corp
1128 Franklin Street
Marne, MI 49435
(616) 667-4000
www.superiorentional.com

LEGEND

- Soil Boring (SB) or Surface Sample (SS)
- Debris Pile Sample (DP)
- Waste Water Sample (WW)
- Waste Sludge Sample (WS)
- Approximate Area of Debris Piles
- Approximate MDOT Parcel Boundary

**SITE PLAN WITH BORING AND SAMPLE LOCATIONS
GORDIE HOWE INTERNATIONAL BRIDGE
MDOT PARCEL #5691
111 MILITARY ST
DETROIT, MICHIGAN**

PROJECT NO: BC3876-EA T37	CREATED BY: D.LANCASTER	APPROVED BY: GREG HILTY
FILE: P:/BC3876.00/CAD/T37/BC3876EA	DATE: 1/15/18	FIGURE: 2

