



May 4, 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 6230 W. Fort St & 500 Dragoon St, Detroit, MI, Tax ID 16000292-4 & 16016853-80 (MDOT Parcel 5510_COMB)
Potentially toward W. Fisher Service Drive right-of-way to the north, West Fort Street right-of-way to the south,
Dragoon Street right-of-way to the east, and/or alley right-of-way to the north, south, and west
Notification No. 5510-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 6230 West Fort Street and 500 Dragoon Street, Detroit, Michigan ("the Site") in relation to the Gordie Howe International Bridge project underway in the vicinity of the rights-of-way 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

TECHNICAL SKILL.
CREATIVE SPIRIT.

5510.Notice Cover Letter.DetroitDPW.docx

2365 Haggerty Road South, Canton, Michigan 48188 Tel: 734.397.3100 Fax: 734.397.3131 www.MannikSmithGroup.com

RECEIVED MAY 11 2018

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: Name: MI Dept. of Transportation (MDOT) Parcel 5510_COMB Address: 6230 W. Fort Street & 500 Dragoon St. Location: Michigan City/County: Detroit/Wayne Property Tax Identification Number, or if applicable, the ward and item number: 16000292-4 & 16016853-80 Latitude (decimal degrees): 42.307271 °N Longitude (decimal degrees): 83.102909 °W Reference Point for Latitude and Longitude: Center of Site: <input checked="" type="checkbox"/> Main/front door: <input type="checkbox"/> Front gate/main entrance: <input type="checkbox"/> Other: <input type="checkbox"/> Collection Method: Survey: <input type="checkbox"/> Interpolation: <input type="checkbox"/> GPS: <input checked="" type="checkbox"/>	2. Status relative to the property: (Check one or both, as applicable.) Owner <input checked="" type="checkbox"/> Operator <input type="checkbox"/>
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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 Parcels 5510 & 5504; Part 213 facility 00039641; 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: 6240 W. Fort Street
City/State: Detroit, MI
Property Tax ID number: 16000289-91
Other: MDOT Parcel 5502
Notified? No Yes Date: May 4, 2018

Address: MDOT M-85 Right-of-Way
City/State: Detroit, MI
Property Tax ID number: NA
Other: West Fort Street (M-85) west of Dragoon Street, east of Livernois Avenue
Notified? No Yes Date: May 4, 2018

Address: MDOT I-75 Right-of-Way
City/State: Detroit, MI
Property Tax ID number: NA
Other: Control Section 82194, Sheet 114, Parcels 1942 & 1943
Notified? No Yes Date: May 4, 2018

Address: 2 Woodward Avenue, Ste. 611
City/State: Detroit, MI, 48226
Property Tax ID number: NA
Other: City of Detroit (West Fort Street, Dragoon Street, West Fisher Service Drive, and alleys adjacent to 6230 W. Fort Street / 16000292-4 & 500 Dragoon Street / 16016853-80)
Notified? No Yes Date: May 4, 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: May 4, 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: May 4, 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: May 4, 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: May 4, 2018

Address: 12775 Lydon Street
City/State: Detroit, MI, 48227
Property Tax ID number: NA
Other: Comcast/Xfinity (utility holder)
Notified? No Yes Date: May 4, 2018

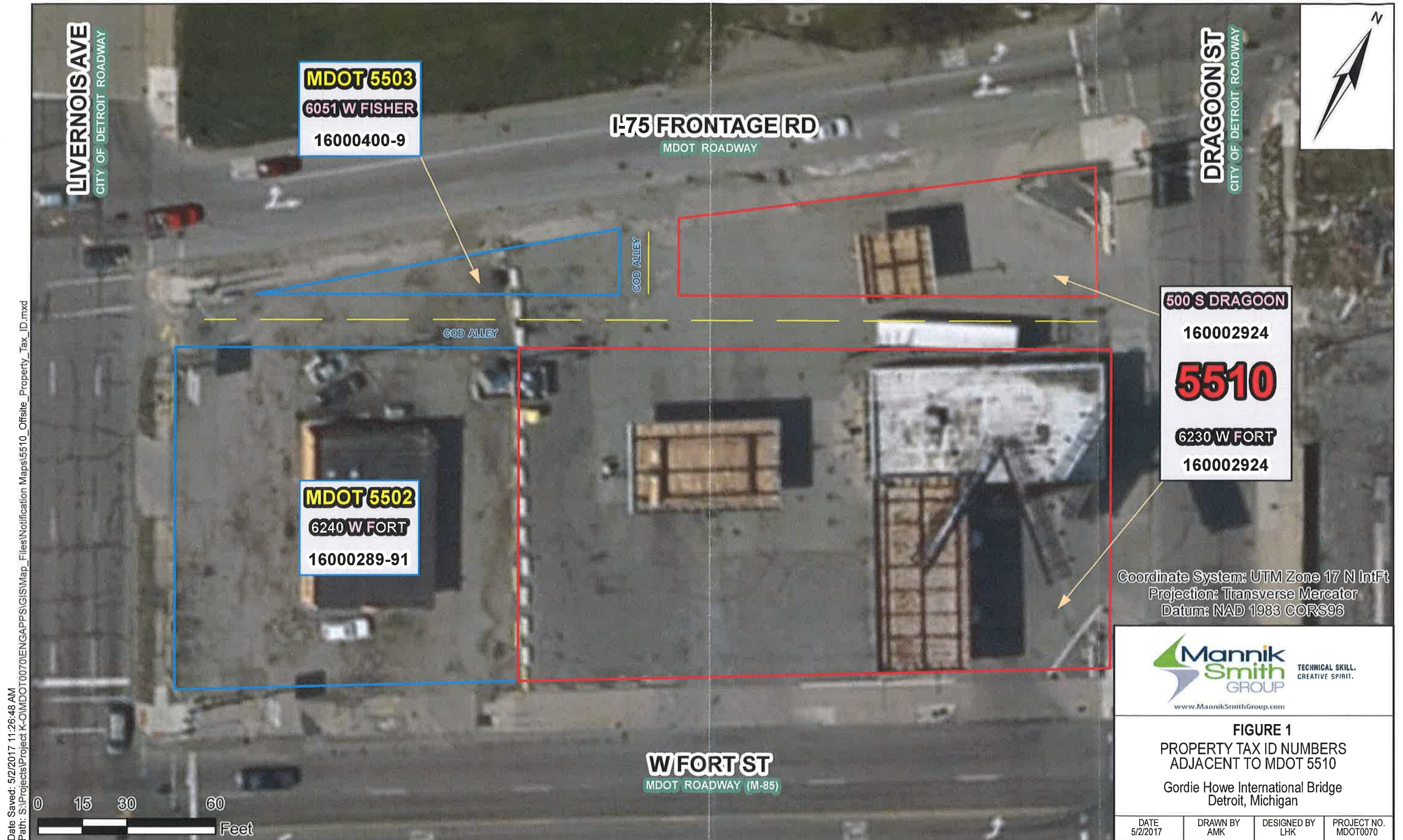
Address: 208 S. Akard Street
City/State: Dallas, TX, 75202
Property Tax ID number: NA
Other: AT&T Headquarters (utility holder)
Notified? No Yes Date: May 4, 2018

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: May 4, 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: May 4, 2018

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

MAP OF PROPERTY TAX ID NUMBERS



5510

Adjacent MDOT Parcels



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 Date May 4, 2018
(Owner or person legally authorized to bind the person making this report)

Name (Typed or Printed) Walter J. Bolt

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

ON BEHALF OF MICHIGAN DEPARTMENT OF TRANSPORTATION



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 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"
Benzene	71-43-2	310	5510_SB-09_0-2_S_SOM_20170411	Soil	25 feet	Unknown	-	-	-
Ethylbenzene	100-41-4	1,400	5510_SB-09_0-2_S_SOM_20170411	Soil	25 feet	Unknown	-	-	-
Benzo(a)pyrene	50-32-8	4,300	5510_SB-09_6-7_S_SOM_20170411	Soil	25 feet	Unknown	-	-	-
Fluoranthene	206-44-0	16,000	5510_SB-09_6-7_S_SOM_20170411	Soil	25 feet	Unknown	-	-	-
Naphthalene	91-20-3	2,300	5510_SB-08_5-5.5_S_SOM_20170410	Soil	5 feet	Unknown	-	-	-
Phenanthrene	85-01-8	14,000	5510_SB-09_6-7_S_SOM_20170411	Soil	25 feet	Unknown	-	-	-
Arsenic	7440-38-2	80,000	5510_SB-08_5-5.5_S_SOM_20170410	Soil	5 feet	Unknown	-	-	-
Chromium (Total)	7440-47-3	63,000	5510_SB-09_0-2_S_SOM_20170411	Soil	25 feet	Unknown	-	-	-
Mercury	7439-97-6	610	5510_DUP-01_S_SOM_20170410*	Soil	5 feet	Unknown	-	-	-
Selenium	7782-49-2	990	5510_SB-04_0-2_S_SOM_20170410	Soil	5 feet	Unknown	-	-	-
Zinc	7440-66-6	230,000	5510_SB-02_4-6_S_SOM_20170411	Soil	10 feet	Unknown	-	-	-

Total Number of Samples Collected: 21

Total Number of Samples Exceeding Criteria: 11

Footnotes:

* Duplicate sample corresponding to 5510_SB-04_0-2_S_SOM_20170410

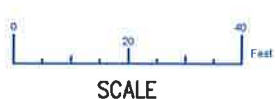
LEGEND

- SITE
- BORING LOCATION (2017 PSI)
- APPROXIMATE BORING LOCATION (1998 LUST IAR)
- APPROXIMATE SUMP WELL LOCATION (1998 LUST IAR)
- APPROXIMATE GRAB SAMPLE LOCATION (1998 LUST IAR)
- ESTIMATED AREA OF IMPACT BY VOCs
- ESTIMATED AREA OF IMPACT BY PNAs
- ESTIMATED AREA OF IMPACT BY METALS
- ZONES FOR VOLUME ESTIMATION
- BORING LOCATION WITH POTENTIAL PRESENCE OF NAPL

ABBREVIATIONS	
As	Arsenic
Cr, total	Chromium, Total
Hg	Mercury
Zn	Zinc

ACRONYMS	
BTEX/MTBE	Benzene, Toluene, Ethylbenzene, Xylenes/ Methyl tert-Butyl-Ether
Csat	Soil Saturation Concentration Screening Level
DCC	Direct Contact Criteria
DRO	Diesel Range Organics
DWPC	Drinking Water Protection Criteria
GRO	Gasoline Range Organics
GSIPC	Groundwater Surface Water Interface Protection Criteria
NE	No Exceedance
PNA	Polynuclear Aromatic
SVIIC	Soil Volatilization to Indoor Air Inhalation Criteria
VOC	Volatile Organic Compound
VSIC	Infinite Source Volatile Soil Inhalation Criteria

- NOTES:
1. Concentrations are reported in micrograms per kilogram (µg/kg).
 2. Data from the 1998 LUST IAR are presented in gray data blocks.
 3. Refer to Table 1 and Table 3 of the PSI Report for a detailed summary of analytical data compared to residential GCC for the 2017 and 1998 investigations, respectively.
 4. 1998 LUST IAR: All samples were analyzed for BTEX, MTBE, PNAs, and total lead. Total lead was detected at concentrations that do not exceed residential GCC.
 5. 2017 PSI: All samples were analyzed for VOCs, PNAs, MI-10 metals, and PCBs. PCBs were either not detected or detected at concentrations that do not exceed residential GCC. All shallow samples were analyzed for asbestos. Asbestos was either not detected or detected at levels that do not exceed residential GCC.

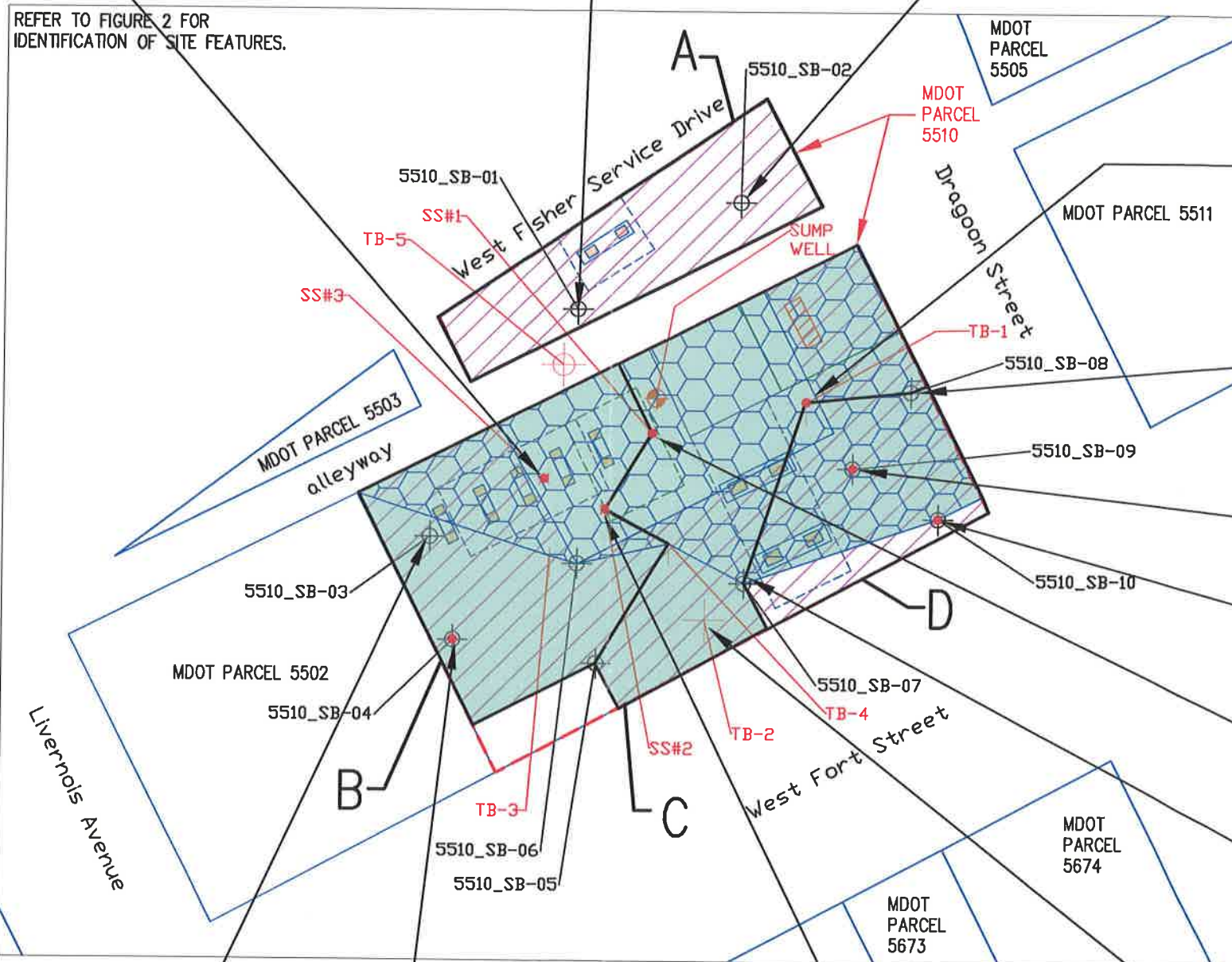


LOCATION ID	SS#3
DEPTH (FT)	3.5
SAMPLE DATE	2/27/1998
BTEX/MTBE	GSIPC, DWPC
PNAs	GSIPC, DRO

LOCATION ID	5510_SB-01	5510_SB-01
DEPTH (FT)	0 - 2	4 - 6
SAMPLE DATE	4/11/2017	4/11/2017
Metals	-	-
Cr, total	48,000 GSIPC, DWPC	24,000 GSIPC

LOCATION ID	5510_SB-02
DEPTH (FT)	4 - 6
SAMPLE DATE	4/11/2017
Metals	-
Zn	230,000 GSIPC

REFER TO FIGURE 2 FOR IDENTIFICATION OF SITE FEATURES.



LOCATION ID	TB-1
DEPTH (FT)	4-6
SAMPLE DATE	4/28/1998
BTEX/MTBE	GSIPC, DWPC, SVIIC, VSIC, Csat, GRO
PNAs	GSIPC, DRO

LOCATION ID	5510_SB-08
DEPTH (FT)	5 - 5.5
SAMPLE DATE	4/10/2017
VOCs	GSIPC
PNAs	GSIPC
Metals	-
As	80,000 GSIPC, DWPC, DCC
Cr, total	22,000 GSIPC

LOCATION ID	5510_SB-09	5510_SB-09
DEPTH (FT)	0 - 2	6 - 7
SAMPLE DATE	4/11/2017	4/11/2017
VOCs	GSIPC, DWPC	DWPC
PNAs	GSIPC	GSIPC, DCC, DRO
Metals	-	-
Cr, total	63,000 GSIPC, DWPC	NE

LOCATION ID	5510_SB-10
DEPTH (FT)	0 - 2
SAMPLE DATE	4/10/2017
PNAs	GSIPC, DRO

LOCATION ID	SS#1
DEPTH (FT)	3.5
SAMPLE DATE	2/27/1998
BTEX/MTBE	GSIPC, DWPC, Csat, GRO
PNAs	GSIPC

LOCATION ID	5510_SB-07
DEPTH (FT)	0 - 2
SAMPLE DATE	4/10/2017
Metals	-
Cr, total	23,000 GSIPC

LOCATION ID	5510_SB-03
DEPTH (FT)	0 - 2
SAMPLE DATE	4/10/2017
PNAs	GSIPC
Metals	-
Cr, total	52,000 GSIPC, DWPC

LOCATION ID	5510_SB-04	5510_SB-04 (DUP)
DEPTH (FT)	0 - 2	0 - 2
SAMPLE DATE	4/10/2017	4/10/2017
PNAs	GSIPC, DRO	GSIPC, DRO
Metals	-	-
Hg	990 GSIPC	610 GSIPC

LOCATION ID	SS#2
DEPTH (FT)	3.5
SAMPLE DATE	2/27/1998
BTEX/MTBE	GSIPC, DWPC, SVIIC, VSIC, Csat, GRO
PNAs	GSIPC, DWPC, DRO

LOCATION ID	TB-2
DEPTH (FT)	4-6
SAMPLE DATE	4/28/1998
PNAs	GSIPC

DRAWN BY: WT	DATE DRAWN: 06/06/2017
CHECKED BY: RA	DATE CHECKED: 06/08/2017

SE Somat Engineering, Inc.
660 WOODWARD AVENUE, SUITE 2430
DETROIT, MI 48226
PHONE: (313) 963-2721
FAX: (313) 963-2736

PREPARED FOR:



FIGURE 2
SOIL RESIDENTIAL EXCEEDANCE MAP
PRELIMINARY SITE INVESTIGATION
INTERCHANGE AREA MDOT PARCEL 5510
6230 W. Fort Street, Detroit MI