



April 12, 2019

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
Rights-of-Way of S. Green St., S. Harrington St., Hesse St., Holly St., W. Jefferson Ave., S. Post St.,
S. Rademacher St., S. Reid St., S. Schroeder St., South St., S. Waterman St., and adjoining alleys
Notification No. ROW_PW-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 in the above-referenced road and alley rights-of-way in the western portion of the Plaza Area of the Gordie Howe International Bridge project in Detroit, Michigan ("the Site").

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.

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



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

Name: MI Dept. of Transportation (MDOT) Rights-of-Way (ROW), Plaza West Owner
Address: Not Applicable; Gordie Howe International Bridge (GHIB) Operator
Location: Michigan
City/County: Detroit/Wayne
Property Tax Identification Number, or if applicable, the ward and item number: Not Applicable

Latitude (decimal degrees): See Table 1 Longitude (decimal degrees): See Table 1

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

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.):

EPA Handler ID M1K694333063; 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. as 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.).

REFER TO ATTACHED TABLE 1 & FIGURE 1

Adjacent to ALLE02_SB-01 (Alley west of S. Harrington St. between Gould St. & W. Jefferson Ave.):

Address: 7100 W. Jefferson Ave. Notified? No Yes Date: April 12, 2019
City/State: Detroit, MI
Property Tax ID number: 18000100
Other: MDOT Parcel 5010

Address: 722 S. Harrington St. Notified? No Yes Date: April 12, 2019
City/State: Detroit, MI
Property Tax ID number: 18008836
Other: MDOT Parcel 5015

Adjacent to ALLE03_SB-01 (Alley south of South St. between S. Harrington St. & S. Post St.):

Address: 533, 539, 545, 553 S. Harrington St. Notified? No Yes Date: April 12, 2019
City/State: Detroit, MI
Property Tax ID number: 18008737-40
Other: MDOT Parcel 5219

Address: 517, 527 S. Harrington St. Notified? No Yes Date: April 12, 2019
City/State: Detroit, MI
Property Tax ID number: 18008741-2
Other: MDOT Parcel 5220



Address: 526 S. Post St. Notified? No Yes Date: April 12, 2019
City/State: Detroit, MI
Property Tax ID number: 18008694
Other: MDOT Parcel 5227

Address: 514, 520 S. Post St. Notified? No Yes Date: April 12, 2019
City/State: Detroit, MI
Property Tax ID number: 18008692-3
Other: MDOT Parcel 5228

Adjacent to ALLE03_SB-04 (Alley west of S. Post St. between South St. & W. Jefferson Ave.):

Address: 7036 W. Jefferson Ave. Notified? No Yes Date: April 12, 2019
City/State: Detroit, MI
Property Tax ID number: 18000101
Other: MDOT Parcel 5011_5011

Address: 689, 706 S. Post St. Notified? No Yes Date: April 12, 2019
City/State: Detroit, MI
Property Tax ID number: 18008716-7
Other: MDOT Parcel 5029_5026

Adjacent to ALLE04_SB-02 (Alley south of South St. between S. Post St. & S. Schroeder St.):

Address: 551, 557, 561, 567 S. Post St. Notified? No Yes Date: April 12, 2019
City/State: Detroit, MI
Property Tax ID number: 18008632-5
Other: MDOT Parcel 5232

Address: 6952 W. Jefferson Ave. Notified? No Yes Date: April 12, 2019
City/State: Detroit, MI
Property Tax ID number: 18000107
Other: MDOT Parcel 5714

Adjacent to ALLE05_SB-04 (Alley west of S. Schroeder St. between South St. & W. Jefferson Ave.):

Address: 6918 W. Jefferson Ave. Notified? No Yes Date: April 12, 2019
City/State: Detroit, MI
Property Tax ID number: 18000108-9
Other: MDOT Parcel 5030

Address: 692 S. Schroeder St. Notified? No Yes Date: April 12, 2019
City/State: Detroit, MI
Property Tax ID number: 18008337-40
Other: MDOT Parcel 5032



Adjacent to ALLE06_SB-01 (Alley south of South St. between S. Schroeder St. & S. Waterman St.):

Address: 511 S. Schroeder St. Notified? No Yes Date: April 12, 2019
 City/State: Detroit, MI
 Property Tax ID number: 18008310
 Other: MDOT Parcel 5250

Address: 6741 South St. Notified? No Yes Date: April 12, 2019
 City/State: Detroit, MI
 Property Tax ID number: 18000214
 Other: MDOT Parcel 5252

Address: 508 S. Waterman St. Notified? No Yes Date: April 12, 2019
 City/State: Detroit, MI
 Property Tax ID number: 18008260
 Other: MDOT Parcel 5261

Address: 502 S. Waterman St. Notified? No Yes Date: April 12, 2019
 City/State: Detroit, MI
 Property Tax ID number: 18008259
 Other: MDOT Parcel 5262

Adjacent to ALLE22_SB-01 (Alley north of South St. between S. Reid St. & S. Crawford St.):

Address: 307 S. Reid St. Notified? No Yes Date: April 12, 2019
 City/State: Detroit, MI
 Property Tax ID number: 18007538
 Other: MDOT Parcel 5342

Address: 301 S. Reid St. Notified? No Yes Date: April 12, 2019
 City/State: Detroit, MI
 Property Tax ID number: 18007539
 Other: MDOT Parcel 5343

Address: 312 S. Crawford St. Notified? No Yes Date: April 12, 2019
 City/State: Detroit, MI
 Property Tax ID number: 18007509
 Other: MDOT Parcel 5347

Adjacent to ALLE24_SB-02 (Alley east of S. Rademacher St. between Hesse St. & South St.):

Address: 265, 271, 275 S. Rademacher St. Notified? No Yes Date: April 12, 2019
 City/State: Detroit, MI
 Property Tax ID number: 18007617-9
 Other: MDOT Parcel 5411_5414

Address: 282 S. Reid St. Notified? No Yes Date: April 12, 2019
 City/State: Detroit, MI
 Property Tax ID number: 18007546-58
 Other: MDOT Parcel 5411_5415



Adjacent to HESS1_SB-01 (Hesse St.):

Address: 282 S. Reid St. Notified? No Yes Date: April 12, 2019
 City/State: Detroit, MI
 Property Tax ID number: 18007546-58
 Other: MDOT Parcel 5411_5415

Address: 276 S. Reid St. Notified? No Yes Date: April 12, 2019
 City/State: Detroit, MI
 Property Tax ID number: 18007545
 Other: MDOT Parcel 5411_5449

Address: 100 S. Crawford St. Notified? No Yes Date: April 12, 2019
 City/State: Detroit, MI
 Property Tax ID number: 18007500
 Other: MDOT Parcel 5450

Applicable to all listed locations:

Address: 27700 Donald Court Notified? No Yes Date: April 12, 2019
 City/State: Warren, MI, 48092-2793
 Property Tax ID number: NA
 Other: MDEQ, Southeast Michigan District Office
 Office of Drinking Water & Municipal Assistance Division

Address: 2 Woodward Avenue, Ste. 611 Notified? No Yes Date: April 12, 2019
 City/State: Detroit, MI, 48226
 Property Tax ID number: NA
 Other: City of Detroit (potential easement holder)

Address: 27175 Energy Way Notified? No Yes Date: April 12, 2019
 City/State: Novi, MI, 48377
 Property Tax ID number: NA
 Other: International Transmission Company (ITC) (utility holder)

Address: 735 Randolph Street, Ste. 1900 Notified? No Yes Date: April 12, 2019
 City/State: Detroit, MI, 48226
 Property Tax ID number: NA
 Other: Great Lakes Water Authority (utility holder)

Address: 12775 Lydon Street Notified? No Yes Date: April 12, 2019
 City/State: Detroit, MI, 48227
 Property Tax ID number: NA
 Other: Comcast/Xfinity (utility holder)

Address: 208 S. Akard Street Notified? No Yes Date: April 12, 2019
 City/State: Dallas, TX, 75202
 Property Tax ID number: NA
 Other: AT&T Headquarters (utility holder)



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
REMEDIATION AND REDEVELOPMENT DIVISION

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: April 12, 2019

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: April 12, 2019

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: April 12, 2019



6. Complete the Table on Page 8 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 8, 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 8, 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 April 12, 2019
(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 7 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 H 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 1**

TABLE 1

DEQ NOTICE OF MIGRATION ATTACHMENT

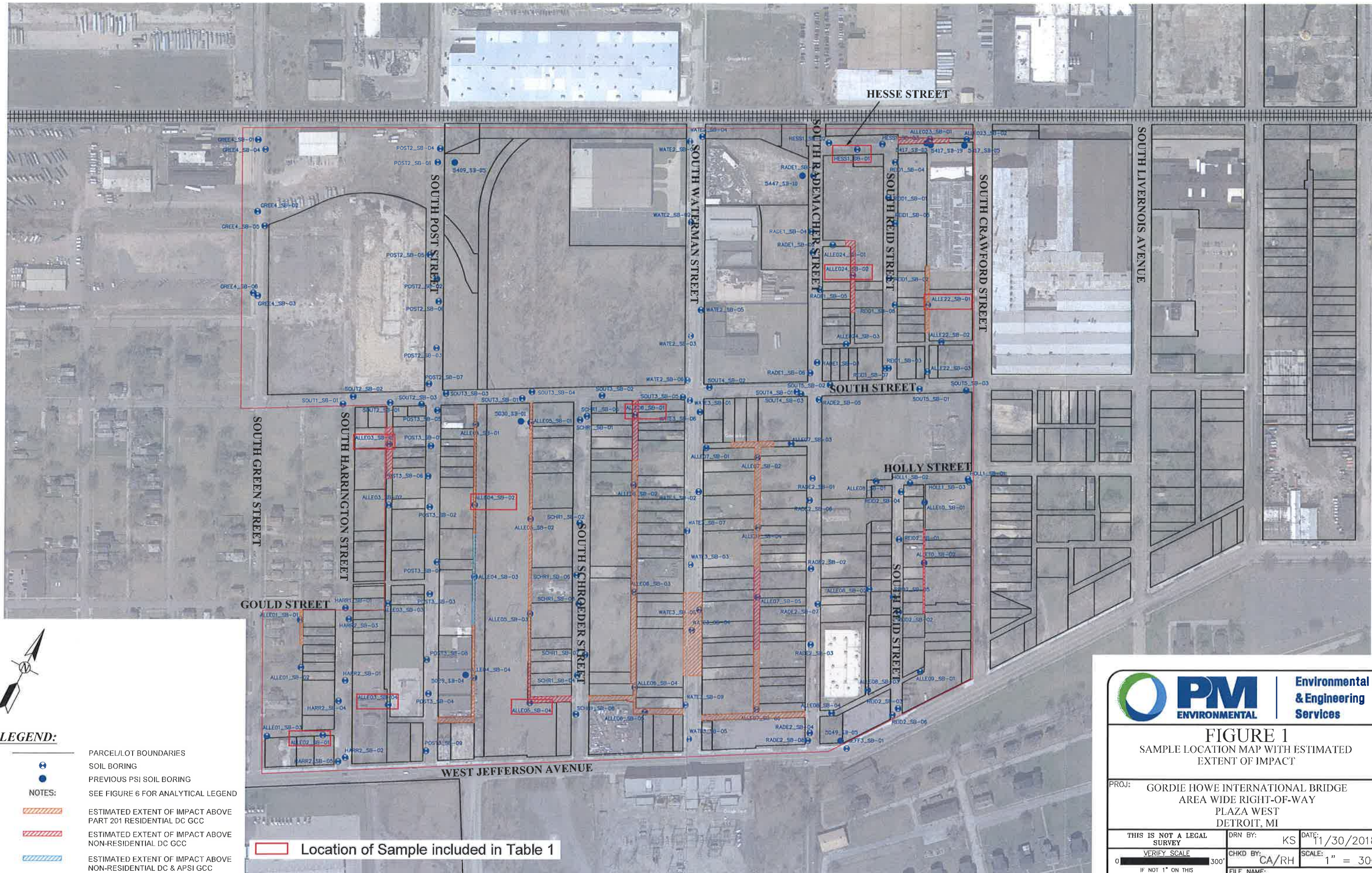
A	B	C	D	E	F	G	H	I	J	K	L	M	N
Hazardous Substance	CAS Number	Maximum Concentration	Sample Location for "C"	Environmental Medium for "C"	Distance to Property Boundary	Direction of Migration	Boundary Concentration	Sample Location for "H"	Environmental Medium for "H"	UTM Zone	UTM Easting International Feet	UTM Northing International Feet	Precision, feet
Fluoranthene	206-44-0	6,900	ALLE02_SB-01_0-2_S_PM_20180827	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,070,531.111	15,369,885.534	1.000
Phenanthrene	85-01-8	4,000	ALLE02_SB-01_0-2_S_PM_20180827	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,070,531.111	15,369,885.534	1.000
Antimony	7440-36-0	67,000	ALLE22_DUP-07_S_PM_20180924*	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,071,702.168	15,372,122.005	1.667
Arsenic	7440-38-2	53,000	ALLE05_SB-04_0-2_S_PM_20180829	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,071,106.502	15,370,300.019	1.000
Barium	7440-39-3	620,000	ALLE24_SB-02_0-2_S_PM_20180904	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,071,427.461	15,372,095.006	1.667
Cadmium	7440-43-9	12,000	ALLE22_DUP-07_S_PM_20180924*	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,071,702.168	15,372,122.005	1.000
Chromium (Total)	7440-47-3	290,000	HESS1_SB-01_0.5-2.5_S_PM_20180905	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,071,245.102	15,372,483.648	1.000
Copper	7440-50-8	52,000,000	ALLE22_DUP-07_S_PM_20180924*	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,071,702.168	15,372,122.005	1.000
Lead - Total (calculated)	7439-92-1	4,400,000	ALLE06_SB-01_0-2_S_PM_20180829	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,070,982.864	15,371,335.473	1.000
Lead - Fine Fraction	7439-92-1	2,000,000	ALLE03_SB-01_0-2_S_PM_20180827	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,070,279.830	15,370,868.884	1.000
Lead - Coarse Fraction	7439-92-1	8,000,000	ALLE06_SB-01_0-2_S_PM_20180829	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,070,982.864	15,371,335.473	1.000
Mercury	7439-97-6	2,200	ALLE03_SB-04_0-2_S_PM_20180827	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,070,681.071	15,370,077.087	0.792
Molybdenum	7439-98-7	4,900	ALLE04_SB-02_4-5_S_PM_20180828	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,070,640.020	15,370,818.984	1.000
Selenium	7782-49-2	3,900	HESS1_SB-01_0.5-2.5_S_PM_20180905	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,071,245.102	15,372,483.648	1.000
Silver	7440-22-4	12,000	ALLE22_DUP-07_S_PM_20180924*	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,071,702.168	15,372,122.005	1.000
Zinc	7440-66-6	2,800,000	ALLE22_DUP-07_S_PM_20180924*	Soil	Approx. 5-10 feet	Unknown	-	-	-	17N	1,071,702.168	15,372,122.005	1.000

Total Number of Samples Collected: 188

Total Number of Samples Exceeding Criteria: 67

Footnotes:

* Duplicate sample corresponding to ALLE22_SB-01_0-2_S_PM_20180904



- LEGEND:**
- PARCEL/LOT BOUNDARIES
 - SOIL BORING
 - PREVIOUS PSI SOIL BORING
 - NOTES:** SEE FIGURE 6 FOR ANALYTICAL LEGEND
 - ESTIMATED EXTENT OF IMPACT ABOVE PART 201 RESIDENTIAL DC GCC
 - ESTIMATED EXTENT OF IMPACT ABOVE NON-RESIDENTIAL DC GCC
 - ESTIMATED EXTENT OF IMPACT ABOVE NON-RESIDENTIAL DC & APSI GCC

Location of Sample included in Table 1



FIGURE 1 SAMPLE LOCATION MAP WITH ESTIMATED EXTENT OF IMPACT		
PROJ: GORDIE HOWE INTERNATIONAL BRIDGE AREA WIDE RIGHT-OF-WAY PLAZA WEST DETROIT, MI		
THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 11/30/2018
VERIFY SCALE 0 300'	CHKD BY: CA/RH	SCALE: 1" = 300'
IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.		FILE NAME: 01-7940-1-031F00R00