



May 3, 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 200 S. Rademacher Street / 101 S. Waterman Street, Detroit, MI, Tax ID 18007824 (MDOT Parcel 5447)
Potentially toward South Waterman Street right-of-way to west, South Rademacher Street right-of-way to east,
And/or Hesse Street right-of-way to east
Notification No. 5447-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 200 South Rademacher Street (a.k.a. 101 South Waterman Street), 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 your 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

TECHNICAL SKILL.
CREATIVE SPIRIT.

5447.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 24 2017



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 5447 Owner
Address: 200 S. Rademacher Street / 101 S. Waterman Street Operator
Location: Michigan
City/County: Detroit/Wayne
Property Tax Identification Number, or if applicable, the ward and item number: 18007824

Latitude (decimal degrees): 42.302111 °N Longitude (decimal degrees): -83.105725 °W

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

Collection Method: Survey: Interpolation: GPS:



Address: Unknown – an approximately 60' wide strip of land immediately north of 81 S. Waterman St. / 18008083 & 194 S. Rademacher St. / 18007823; south of 150 S. Rademacher St. / 18000326-35; west of S. Rademacher St.; east of S. Waterman St; occupied by active Norfolk Southern railroad tracks
City/State: Detroit, MI
Property Tax ID number: Unavailable
Other: Suspected owner: Norfolk Southern Corp. 3 Commercial Place, Norfolk, VA, 23510
Alternate potential owner: Conrail 1717 Arch Street, 13th Floor, Philadelphia, PA, 19103

Notified? No Yes Date: May 1, 2017

Address: Unknown – an approximately 50' wide strip of vacant land immediately north of 274 S. Waterman St. / 1800023600; south of active Norfolk Southern railroad tracks; west of S. Waterman St.; east of S. Post St.
City/State: Detroit, MI
Property Tax ID number: Unavailable
Other: Suspected owner: Norfolk Southern Corp. 3 Commercial Place, Norfolk, VA, 23510
Alternate potential owner: Conrail 1717 Arch Street, 13th Floor, Philadelphia, PA, 19103

Notified? No Yes Date: May 1, 2017

Address: 200 S. Rademacher Street / 101 S. Waterman Street (subject property)
City/State: Detroit, MI
Property Tax ID number: 18007824
Other: Easement for a railroad side track, 18' wide
Suspected owner: Conrail, 1717 Arch Street, 13th Floor, Philadelphia, PA, 19103

Notified? No Yes Date: May 1, 2017

Address: 2 Woodward Avenue, Ste. 611
City/State: Detroit, MI, 48226
Property Tax ID number: NA
Other: City of Detroit (S. Waterman St., S. Rademacher St., & Hesse St. adjacent to 200 S. Rademacher St. / 101 S. Waterman St. / 18007824)

Notified? No Yes Date: May 1, 2017

Address: 735 Randolph
City/State: Detroit, MI, 48226
Property Tax ID number: NA
Other: Detroit Water & Sewerage Department (utility holder)

Notified? No Yes Date: May 1, 2017

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 1, 2017

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 1, 2017



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 1, 2017

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

Notified? No Yes Date: May 1, 2017

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 1, 2017

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

MAP OF PROPERTY TAX ID NUMBERS

Date Saved: 3/13/2017 6:00:15 PM
Path: S:\Projects\Project K-O\MDOT0070\ENG\APPS\GIS\Map_Files\Notification Maps\5447_Offiste_Property_Tax_ID.mxd





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 December 21, 2002? (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 must 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 5/1/2017

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 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 FIGURES 2 & 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"
Tetrachloroethylene	127-18-4	140	5447_SB-02_1-2_S_SUP_20161214	Soil	50 feet	-	-	-	-
Trichloroethylene	79-01-6	500	5447_SB-07_1-2_S_SUP_20161215	Soil	20 feet	-	-	-	-
Xylenes (Total)	1330-20-7	720	5447_SB-15_0-5_SS_SUP_20161216	Soil	5 feet	-	-	-	-
Benzo(a)pyrene	50-32-8	11,000	5447_SB-05_1-2_S_SUP_20161215	Soil	10 feet	-	-	-	-
Dibenzo(a,h)anthracene	53-70-3	2,100	5447_SB-05_1-2_S_SUP_20161215	Soil	10 feet	-	-	-	-
Fluoranthene	206-44-0	25,000	5447_SB-05_1-2_S_SUP_20161215	Soil	10 feet	-	-	-	-
Naphthalene	91-20-3	990	5447_SB-05_1-2_S_SUP_20161215	Soil	10 feet	-	-	-	-
Phenanthrene	85-01-8	22,000	5447_SB-05_1-2_S_SUP_20161215	Soil	10 feet	-	-	-	-
Arsenic	7440-38-2	23,000	5447_SB-15_0-5_SS_SUP_20161216	Soil	5 feet	-	-	-	-
Barium	7440-39-3	3,400,000	5447_SB-02_4-5_S_SUP_20161214	Soil	50 feet	-	-	-	-
Cadmium	7440-43-9	8,500	5447_SB-15_0-5_SS_SUP_20161216	Soil	5 feet	-	-	-	-
Chromium (Total)	7440-47-3	360,000	5447_SB-07_0-5_SS_SUP_20161215	Soil	20 feet	-	-	-	-
Copper	7440-50-8	1,000,000	5447_SB-04_1-2_S_SUP_20161214	Soil	60 feet	-	-	-	-
Lead	7439-92-1	740,000	5447_SB-15_0-5_SS_SUP_20161216	Soil	5 feet	-	-	-	-
Lead - Total (calculated)	7439-92-1	1,800,000	5447_SB-02_4-5_S_SUP_20161214	Soil	50 feet	-	-	-	-
Lead - Fine Fraction	7439-92-1	1,100,000	5447_SB-04_1-2_S_SUP_20161214	Soil	60 feet	-	-	-	-
Lead - Coarse Fraction	7439-92-1	2,500,000	5447_SB-02_1-2_S_SUP_20161214	Soil	50 feet	-	-	-	-
Mercury	7439-97-6	570	5447_SB-15_0-5_SS_SUP_20161216	Soil	5 feet	-	-	-	-
Selenium	7782-49-2	8,300	5447_SB-07_0-5_SS_SUP_20161215	Soil	20 feet	-	-	-	-
Silver	7440-22-4	1,900	5447_SB-07_0-5_SS_SUP_20161215	Soil	20 feet	-	-	-	-
Zinc	7440-66-6	2,100,000	5447_SB-02_4-5_S_SUP_20161214	Soil	50 feet	-	-	-	-
Trichloroethylene	79-01-6	46	5447_MW-07_5-10_GW_SUP_20161215 (SB-07)	Groundwater	20 feet	-	-	-	-
Arsenic	7440-38-2	59	5447_MW-04_5-10_GW_SUP_20161214 (SB-04)	Groundwater	60 feet	-	-	-	-
Barium	7440-39-3	860	5447_MW-03_5-10_GW_SUP_20161214 (SB-03)	Groundwater	30 feet	-	-	-	-
Chromium (Total)	7440-47-3	80	5447_Dup-01_GW_SUP_20161214**	Groundwater	30 feet	-	-	-	-
Copper	7440-50-8	92	5447_MW-15_5-10_GW_SUP_20161216 (SB-15)	Groundwater	5 feet	-	-	-	-
Lead	7439-92-1	160	5447_MW-02_5-10_GW_SUP_20161214 (SB-02)	Groundwater	50 feet	-	-	-	-
Selenium	7782-49-2	6.8	5447_MW-02_5-10_GW_SUP_20161214 (SB-02)	Groundwater	50 feet	-	-	-	-
Zinc	7440-66-6	3,000	5447_MW-12_5-10_GW_SUP_20161215 (SB-12)	Groundwater	35 feet	-	-	-	-
Arsenic	7440-38-2	9,000	5447_MW-02_5-10_GW_SUP_20161214 (SB-02)	Groundwater	50 feet	-	-	-	-
			5447_DP-01_1-2_S_SUP_20161216	Debris pile	10 feet	-	-	-	-

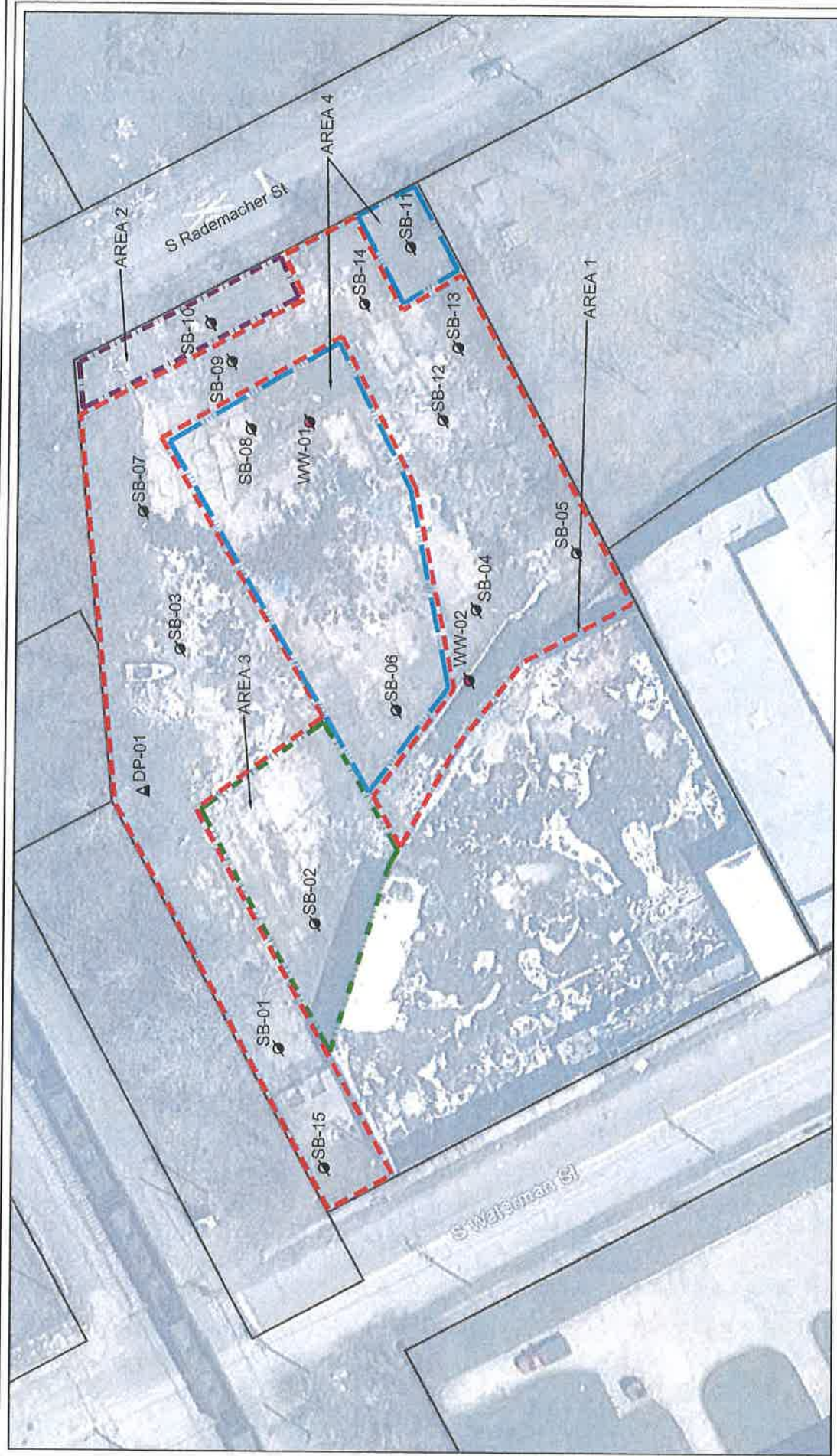
Total Number of Samples Collected: 36 soil, 16 groundwater, 1 debris pile

Total Number of Samples Exceeding Criteria: 14 soil, 13 groundwater, 1 debris pile

Footnotes:

* Unknown

** Duplicate sample corresponding to 5447_MW-03_5-10_GW_SUP_20161214



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

LEGEND
 Soil Boring Location
 Waste Water Sample Location
 Debris Pile Sample
 AREA 1 - Estimated Extent of Soil Impact above Residential and Non Residential Generic Cleanup Criteria to 3'
 AREA 2 - Estimated Extent of Soil Impact above Residential and Non Residential Generic Cleanup Criteria to 6'
 AREA 3 - Estimated Extent of Potentially Hazardous Soil to 3' (above Regulatory Levels for TCLP Lead) and Estimated Extent of Soil Impact above Residential and Non Residential Generic Cleanup Criteria to 6'
 AREA 4 - Estimated Extent of Soil Impact below Residential and Non Residential Generic Cleanup Criteria

SOIL MAP OF IMPACT
GORDIE HOWE INTERNATIONAL BRIDGE
 MDOT PARCEL 5447
 200 S RADEMACHER STREET
 DETROIT, MICHIGAN

PROJECT NO:	BC3876-SE T06	CREATED BY:	D.LANCASTER	APPROVED BY:	Alan Nicholls
FILE:	P:\BC3876.00\CAD\T15\BC3876SE	DATE:	2/24/17	FIGURE:	2



Superior
 ENVIRONMENTAL CORP
 Prepared By:
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 1128 Franklin Street
 Marne, MI 49435
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LEGEND

- Soil Boring Location
- Waste Water Sample Location
- Debris Pile Sample
- AREA 1 - Estimated Extent of Groundwater Impact above Residential and Non Residential Generic Cleanup Criteria
- AREA 2 - Estimated Extent of Groundwater Impact below Residential and Non Residential Generic Cleanup Criteria

GROUNDWATER MAP OF IMPACT GORDIE HOWE INTERNATIONAL BRIDGE MDOT PARCEL 5447 200 S RADEMACHER STREET DETROIT, MICHIGAN			
PROJECT NO:	CREATED BY:	APPROVED BY:	
BC3876-SF T06	D.LANCASTER	Alan Nicholls	
FILE: P:\BC3876.00\CAD\T15\BC3876SF	DATE:	FIGURE:	
	1/26/17	3	