

Ms. Amanda Armbruster
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Michigan Department of Environmental Quality
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Subject:

2016 Supplemental Investigation Work Plan
RACER Trust Saginaw Malleable Industrial Land, Green Point Landfill, and
Peninsula Property
Saginaw, Michigan

ENVIRONMENT

Date:
September 6, 2016

Dear Ms. Armbruster:

Contact:
Scott Clearwater

Arcadis of Michigan, LLC (Arcadis) is pleased to provide this scope of work and plan to collect supplemental groundwater, surface water, soil, and sediment samples at the RACER Trust, Saginaw Malleable Industrial Land (SMI), Green Point Landfill (GPL), and Peninsula Property in Saginaw, Michigan (Site). Based on the review of historical data and the review of the proposed 2016 Michigan Department of Environmental Quality (MDEQ) cleanup criteria, there is potential that there are data gaps in the previously collected data. Additionally, a pending property transaction will allow for recreational use of the property, and current analytical results are necessary to adequately evaluate potential risk.

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Our ref:
B0064434.2016

SCOPE OF WORK

Groundwater and Surface Water

The locations of the proposed groundwater and surface water samples are provided on **Figure 1**. Groundwater samples will further characterize potential impacts based on historical data. Surface water samples will be collected to obtain current analytical data and allow for evaluation of historical exceedances in relation to the proposed 2016 MDEQ criteria and potential risks associated with a passive recreational land use. Arcadis proposes the following scope of work:

- Collect five groundwater samples using low-flow sample methods. Analysis will include volatile organic compounds (VOCs) via United States Environmental Protection Agency (US EPA) Method 8260, 1,4-dioxane via US EPA Method 8260SIM, and cyanide via amenable cyanide. Samples will be submitted to TestAmerica Laboratories in North Canton, Ohio. Decontamination procedures will avoid the use of Alconox, which has been known to contain 1,4-dioxane, and will use a non-phosphate detergent such as TSP, or similar. The proposed analyses and details on sampling rationale are provided in **Table 1**.
- Collect 11 grab surface water samples. All surface water samples will be analyzed for pH via US EPA Method 9040C and hardness via US EPA Method SM2340B, including one surface water sample from the Saginaw River as the receiving body of water for the Site. The Saginaw River sample location will be determined by field staff in order to locate a safe sample location. Furthermore, all surface water samples will be analyzed for zinc, copper, or thallium via US EPA Method 6010 or mercury via US EPA Method 7470, depending on location to evaluate current conditions based on historical exceedances of MDEQ criteria. In addition, samples from surface water locations SW-1 and SW-20 will include analysis for cyanide via amenable cyanide, and SW-4 will be analyzed for phenanthrene via US EPA Method 8270. Cyanide was added for analysis to evaluate an exceedance of Rule 57 criteria at SW-1 and SW-20. Phenanthrene was added for analysis to evaluate a historical exceedance of phenanthrene at SW-4. The proposed analyses are provided in **Table 2**.

Soil

Speciated chromium data were not available, with the exception of two samples on the SMI plant property. Therefore, total chromium concentrations were compared to the draft 2016 residential criteria for hexavalent chromium. Additional sampling is recommended at SMI, GPL, and the Peninsula Property, as shown on **Figure 2**, to determine if hexavalent chromium is present at concentrations exceeding residential criteria. Soil samples need to be analyzed for total chromium and hexavalent chromium to determine what fraction of the total chromium is made up of hexavalent chromium. Soil samples will be collected from the top foot of soil and submitted to TestAmerica Laboratories in North Canton, Ohio for analysis. The proposed analyses are provided in **Table 3**.

Sediment

The locations of the proposed sediment samples are provided on **Figure 3**. Due to exceedances of the proposed 2016 MDEQ criteria and the potential for passive recreational use, samples are proposed to be analyzed for total and hexavalent chromium, vanadium, polynuclear aromatic hydrocarbons (PAHs), and/or total organic carbon (TOC). Speciated chromium data were not available, with the exception of two soil samples on the SMI plant property. Therefore, total chromium concentrations were compared to the draft 2016 residential criteria for hexavalent chromium. Additional sampling is recommended, as shown on **Figure 3**, to determine if hexavalent chromium is present at concentrations exceeding residential criteria. Sediment samples need to be analyzed for total chromium and hexavalent chromium to determine what fraction of the total chromium is made up of hexavalent chromium. Additionally,

sediment sampling is recommended to obtain data to evaluate current conditions and to address potential risk concerns based on the potential for passive recreational use at the Site. Arcadis proposes the following scope of work:

- Collect up to 14 sediment samples throughout the Site as identified on **Figure 3**. Grab sediment samples will be collected from 0 to 1 foot below the top of the sediment. Samples will be homogenized at the surface and submitted to TestAmerica Laboratories for analysis of chromium, or vanadium via US EPA Method 6010 and/or hexavalent chromium via US EPA Method 7196A, and PAHs via US EPA Method 8270SIM, depending on the location. All sediment samples will be analyzed for total organic carbon via the Walkley Black Method as a first step in screening for ecological risks. A summary of the proposed sample analysis is provided in **Table 4** and shown on **Figure 3**.

Sediment sample locations may be modified as necessary to address potential recognized health and safety concerns.

SCHEDULE

Arcadis will prepare to mobilize to the Site upon approval for the additional sampling. We anticipate completing the sampling during the third quarter 2016.

Please contact me at 810-225-1921 if you have any questions regarding the enclosed report or its attachments.

Sincerely,

Arcadis of Michigan, LLC



Scott Clearwater

Certified Project Manager

Enclosures:

Tables

- 1 Groundwater Supplemental Sampling Summary
- 2 Surface Water Supplemental Sampling Summary
- 3 Soil Supplemental Sampling Summary
- 4 Sediment Supplemental Sampling Summary

Figures

- 1 Proposed Groundwater and Surface Water Sample Location Map
- 2 Proposed Soil Sample Location Map
- 3 Proposed Sediment Sample Location Map

TABLES



Table 1.
Groundwater Supplemental Sampling Plan Summary
RACER Trust
Saginaw, Michigan

Well to Sample	Plant	2013 Exceeded Criteria ¹	Constituents to be analyzed and methods	Comments including why we recommend the wells to sample	Reason why well was not included in RAP Sampling Plan (ie. Greater than historical criteria, less than historical risk evaluation, etc.)
MW-117WT	Green Point Landfill	Drinking Water, GSI	1,4-Dioxane by 8260SIM	Sample for current data and delineate downgradient of well X-6B; X-3AR. Delineate 1,4-D downgradient of X-3AR.	Not sampled after detections were identified.
MW-128WT/S1	Green Point Landfill	GSI	1,4-Dioxane by 8260SIM and Cyanide via Amenable Cyanide	Sample for current data and to delineate 1,4-D downgradient of well X-5A/B.	Not sampled after detections were identified, and not delineated prior to surface waters.
MW-108WT	Saginaw Malleable Industrial	Drinking Water, GSI	Cyanide via Amenable Cyanide; Volatile Organic Compounds (VOCs) by 8260	Not delineated-continue to monitor. Downgradient well for delineation upgradient from the Saginaw River Delineate UST7-2, UST7-5, BBL-MW-1, BBL-MW-2, delineate B-4AR/CAUG/BR, MW-109WT, MW-5A.	Both TMBs and cyanide went from not having GSI criteria in 2008 to having low GSI criteria for 2013; significant drops in criteria for GSI and drinking water for ethylbenzene and xylene and GSI for benzene
MW-110WTR	Saginaw Malleable Industrial	Drinking Water, GSI	VOCs by 8260	Sample to collect current data and delineate MW-152WT. Downgradient well for delineation upgradient from the Saginaw River	Vinyl chloride GSI criteria is 13µg/L

NOTES:

1. All groundwater data were compared to draft 2016 non-residential criteria.
2. Peninsula Property- VOC and SVOCs are delineated by wells MW-129WT and X-20 located on Green Point Landfill Property. Arsenic, sodium, and iron impacts are only greater than drinking water criteria and will be addressed with Restrictive Covenants.

Table 2.
Surface Water Supplemental Sampling Summary
RACER Trust
Saginaw, Michigan

Historic Location	Status	Plant	Constituents to be analyzed and methods (total and dissolved for inorganics)
SW-1	Available **	Saginaw Malleable Industrial	Zinc by 6010, Cyanide by Amenable Cyanide, pH by 9040C, and hardness by SM2340B
SW-2	No Surface Water Present *	Saginaw Malleable Industrial	--
SW-3	No Surface Water Present *	Saginaw Malleable Industrial	--
SW-4	Available	Saginaw Malleable Industrial	Copper and Zinc by 6010, Phenanthrene by 8270, pH by 9040C, and hardness by SM2340B
SW-5	Available **	Saginaw Malleable Industrial	Zinc by 6010, pH by 9040C, and hardness by SM2340B
SW-6	Available	Saginaw Malleable Industrial	Zinc by 6010, pH by 9040C, hardness by SM2340B, and 1,4-Dioxane by 8260SIM
SW-7	No Surface Water Present *	Saginaw Malleable Industrial	--
SW-8	No Surface Water Present *	Saginaw Malleable Industrial	--
SW-9	Available	Green Point Landfill	Mercury by 7470, pH by 9040C, hardness by SM2340B, and 1,4-Dioxane by 8260SIM
SW-20	Available **	Green Point Landfill	Cyanide by Amenable Cyanide, pH by 9040C, hardness by SM2340B, and 1,4-Dioxane by 8260SIM
SW-27	Unknown (wetland)	Green Point Landfill	Thallium by 6010, pH by 9040C, and hardness by SM2340B
SW-28	Unknown (wetland)	Green Point Landfill	Thallium by 6010, pH by 9040C, and hardness by SM2340B
SW-29	Unknown (wetland)	Green Point Landfill	Copper by 6010, pH by 9040C, and hardness by SM2340B
SW-32	Unknown (wetland)	Green Point Landfill	Thallium by 6010, pH by 9040C, and hardness by SM2340B
Saginaw River	River	Saginaw River	pH by 9040C, and hardness by SM2340B

NOTES:

1. All surface water data were compared to Rule 57 criteria.
2. * = No surface water is likely present at this location. If water is encountered, the location will be evaluated for sampling.
3. ** = Surface water may no longer be present at this location, but will be field verified prior to sampling.

Table 3.
Soil Supplemental Sampling Summary
RACER Trust
Saginaw, Michigan

Historic Soil Boring	Plant	Exceeded Criteria ¹	Constituents to be Analyzed and Methods
SB-393	Green Point Landfill	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A
SB-399	Green Point Landfill	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A
SB-389	Green Point Landfill	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A
SB10-109	Peninsula	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A
SB10-117	Peninsula	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A
SB10-123	Peninsula	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A
RS-2	Saginaw Malleable Iron	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A
BH-12	Saginaw Malleable Iron	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A
BH-10 (1997)	Saginaw Malleable Iron	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A
SB-341	Saginaw Malleable Iron	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A
SB-363	Saginaw Malleable Iron	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A
PL -1	Saginaw Malleable Iron	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A

NOTES:

1. Speciated chromium data were not available, with the exception of two samples on the Saginaw Malleable Industrial plant. Therefore, total chromium concentrations were compared to the draft 2016 residential criteria for hexavalent chromium, which is a mutagen. Additional sampling is recommended to determine if hexavalent chromium is present at concentrations exceeding residential criteria.

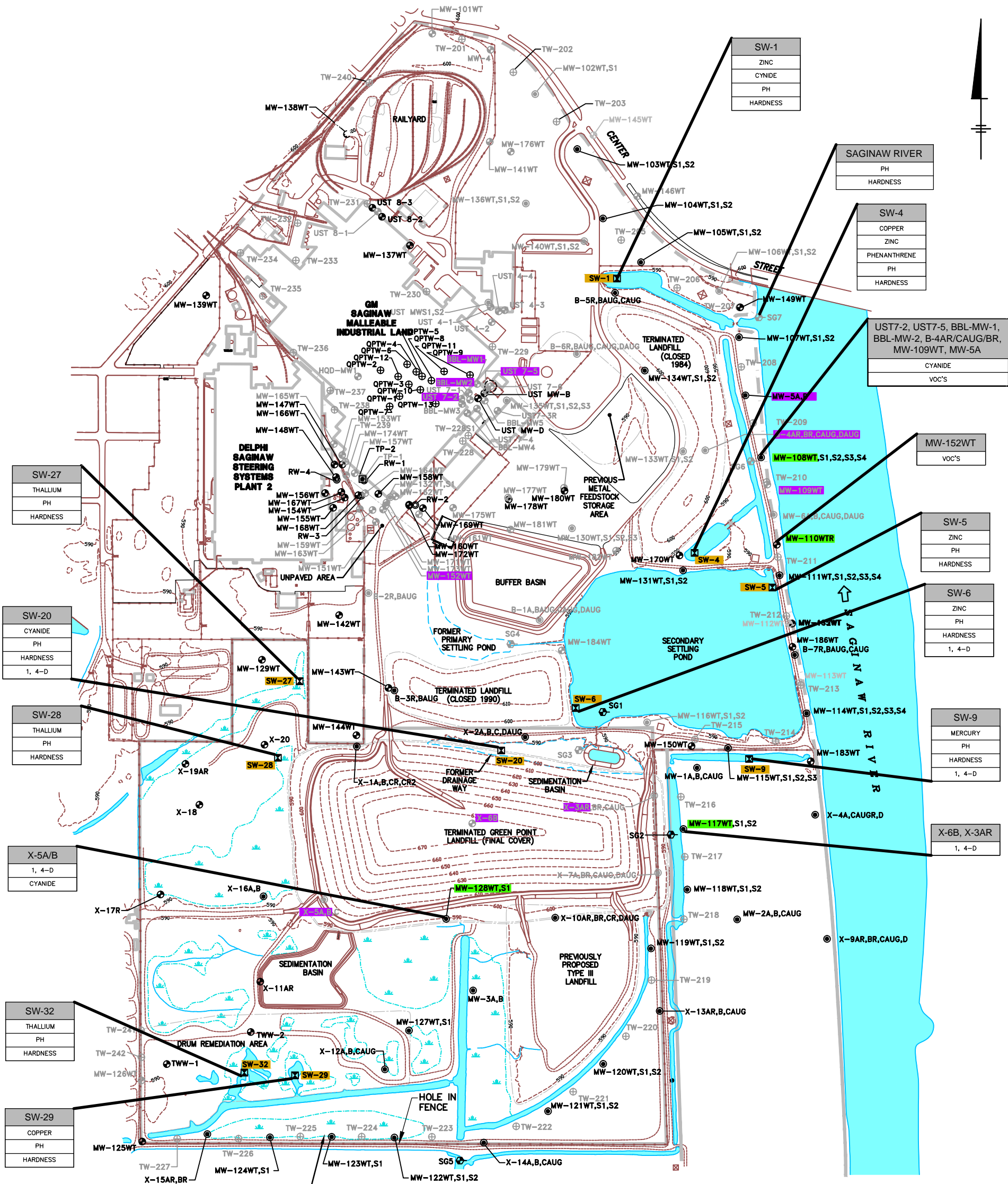
Table 4.
Sediment Supplemental Sampling Summary
RACER Trust
Saginaw, Michigan

Historic Sediment Location	Plant	Exceeded Criteria ^{1,2}	Constituents to be Analyzed and Methods
SD-5	Saginaw Malleable Industrial	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A and total organic carbon by Walkley Black
SD-7	Saginaw Malleable Industrial	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A and total organic carbon by Walkley Black
SD-9	Saginaw Malleable Industrial	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A and total organic carbon by Walkley Black
SD-10	Saginaw Malleable Industrial	Residential Direct Contact	PAH by 8270SIM and total organic carbon by Walkley Black
SD-13	Saginaw Malleable Industrial	Residential Direct Contact	PAH by 8270SIM and total organic carbon by Walkley Black
SD-14	Saginaw Malleable Industrial	Residential Direct Contact	PAH by 8270SIM and total organic carbon by Walkley Black
SD-18	Saginaw Malleable Industrial	Residential Direct Contact	PAH by 8270SIM, and total organic carbon by Walkley Black
SD-21	Saginaw Malleable Industrial	Residential Direct Contact	PAH by 8270SIM, and total organic carbon by Walkley Black
SD-28	Green Point Landfill	Non-Residential Direct Contact	Vanadium by 6010, and total organic carbon by Walkley Black
SD-32	Green Point Landfill	Non-Residential Direct Contact	Vanadium by 6010 and total organic carbon by Walkley Black
SD-33	Green Point Landfill	Non-Residential Direct Contact	Vanadium by 6010 and total organic carbon by Walkley Black
SD-39	Green Point Landfill	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A and total organic carbon by Walkley Black
SD-62	Green Point Landfill	Residential Direct Contact	Chromium (Total and Hexavalent) by 6010 and 7196A and total organic carbon by Walkley Black
SD-64	Green Point Landfill	Non-Residential Direct Contact	Vanadium by 6010 and total organic carbon by Walkley Black

- NOTE:**
1. All sediment data were compared to the draft 2016 non-residential criteria, except for mutagenic compounds, which were compared to residential criteria.
 2. Speciated chromium data were not available, with the exception of two samples on the Saginaw Malleable Industrial plant. Therefore, total chromium concentrations were compared to the 2016 residential criteria for hexavalent chromium. Additional sampling is recommended to determine if hexavalent chromium is present at concentrations exceeding residential criteria.

FIGURES





SW-1
ZINC
CYANIDE
PH
HARDNESS

SAGINAW RIVER
PH
HARDNESS

SW-4
COPPER
ZINC
PHENANTHRENE
PH
HARDNESS

UST7-2, UST7-5, BBL-MW-1, BBL-MW-2, B-4AR/CAUG/BR, MW-109WT, MW-5A
CYANIDE
VOC'S

MW-152WT
VOC'S

SW-5
ZINC
PH
HARDNESS

SW-6
ZINC
PH
HARDNESS
1, 4-D

SW-9
MERCURY
PH
HARDNESS
1, 4-D

X-6B, X-3AR
1, 4-D

SW-27
THALLIUM
PH
HARDNESS

SW-20
CYANIDE
PH
HARDNESS
1, 4-D

SW-28
THALLIUM
PH
HARDNESS

X-5A/B
1, 4-D
CYANIDE

SW-32
THALLIUM
PH
HARDNESS

SW-29
COPPER
PH
HARDNESS

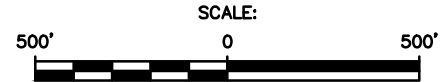
LEGEND

- SAGINAW MALLEABLE INDUSTRIAL LAND PROPERTY LINE (APPROX.)
- GREEN POINT LANDFILL PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE
- SWAMPY AREA
- MONITORING WELL
- MONITORING WELL CLUSTER
- STAFF GAGE
- TEMPORARY MONITORING WELL
- PIEZOMETER
- RECOVERY WELL
- SURFACE WATER SAMPLE
- ABANDONED MONITORING WELL
- ABANDONED STAFF GAGE
- RECOMMENDED WELLS TO BE SAMPLED
- HISTORIC SAMPLE LOCATION WITH EXCEEDANCES ABOVE DRAFT 2016 GSI CRITERIA THAT REQUIRE DELINEATION
- RECOMMENDED SURFACE WATER SAMPLE LOCATION

NOTES:

1. THIS PHOTOGRAMMETRIC BASE MAP FOR THE GM SAGINAW MALLEABLE INDUSTRIAL LAND AND DELPHI SAGINAW STEERING SYSTEMS PLANT 2 PROPERTIES WAS PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK. AERIAL PHOTOGRAPHY WAS CONDUCTED ON 11/11/94. ORIGINAL LOCKWOOD MAP WAS AT A SCALE OF 1"=100' AND WAS INTERPRETED FOR TWO-FOOT CONTOURS.
2. SAMPLING LOCATIONS SURVEYED BY ATWELL-HICKS, INC. UTICA, MICHIGAN, FILE NO. M1014SU2, FILE DATE 3/22/96, REVISED 8/8/96, OR SPICER GROUP.
3. VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD 1983.
4. BASE MAP HAS BEEN MODIFIED TO INCORPORATE BUFFER BASIN, SEDIMENTATION BASINS, WETLANDS MITIGATION AREA, AND GREEN POINT LANDFILL (GPL) FINAL COVER FROM THE FINAL ENGINEERING DESIGN REPORT PREPARED BY BBL FOR THE GPL, DATED JANUARY, 1998.
5. PROPERTY BOUNDARY FOR GREEN POINT LANDFILL DIGITIZED FROM SPICER GROUP DRAWING NO. A-21854-1, DATED 3/27/98.
6. SOIL BORING LOCATIONS FOR SOUTHERN PROPERTY DIGITIZED FROM ECOLOGICAL RISK ASSESSMENT BY EXPONENT, DATED 9/18/00.

SW-1	HISTORICAL IMPACTED WELL
ZINC	PROPOSED ANALYSIS
CYANIDE	
PH	
HARDNESS	

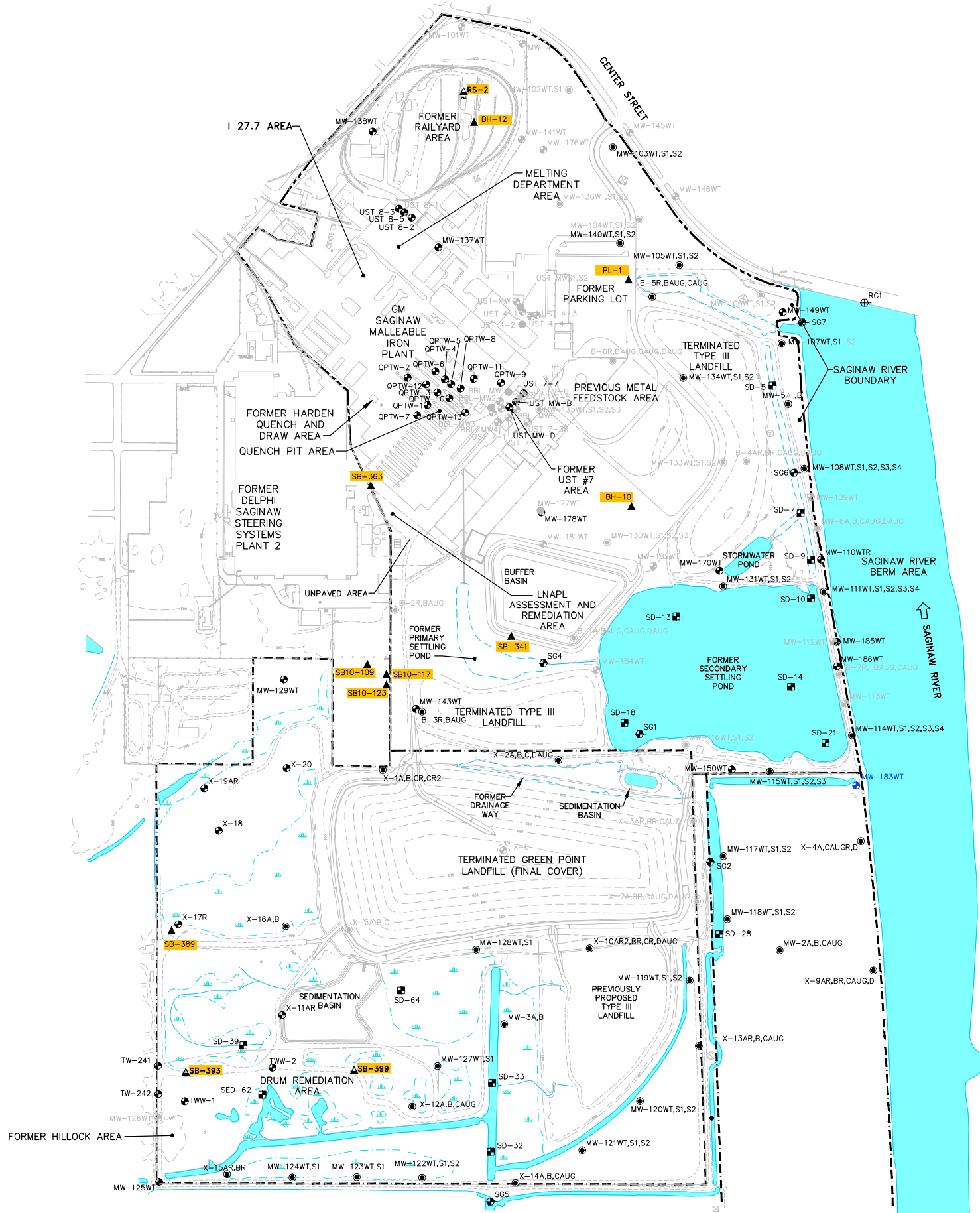


SAGINAW MALLEABLE INDUSTRIAL LAND, GREEN POINT LANDFILL SAGINAW, MICHIGAN

PROPOSED GROUNDWATER AND SURFACE WATER SAMPLE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

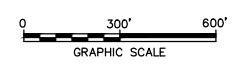


STATE OF MICHIGAN PROPERTY
 (PREVIOUSLY RUBIN SCHULTZ PROPERTY)

- LEGEND:**
- SAGINAW MALLEABLE INDUSTRIAL LAND PROPERTY LINE (APPROX.)
 - - - GREEN POINT LANDFILL PROPERTY LINE (APPROX.)
 - UNPAVED ROAD
 - GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
 - FENCE LINE
 - SWAMPY AREA
 - MW-125WT MONITORING WELL
 - MW-2A,B,CAUG MONITORING WELL CLUSTER
 - SG5 STAFF GAUGE
 - TP-1 PIEZOMETER
 - RW-1 RECOVERY WELL
 - X-6 ABANDONED MONITORING WELL
 - X-5A,B,C ABANDONED MONITORING WELL CLUSTER
 - RG1 RIVER GAUGE
 - MW-152WT WELL NOT FOUND
 - PROPOSED SOIL SAMPLING LOCATION

RAP (7/31/08)
 MONITORING PROGRAM; REVISED 12/08

- SAMPLING AND GROUNDWATER ELEVATION MEASUREMENT LOCATION
- LNAPL AND/OR GROUNDWATER ELEVATION MEASUREMENT LOCATION



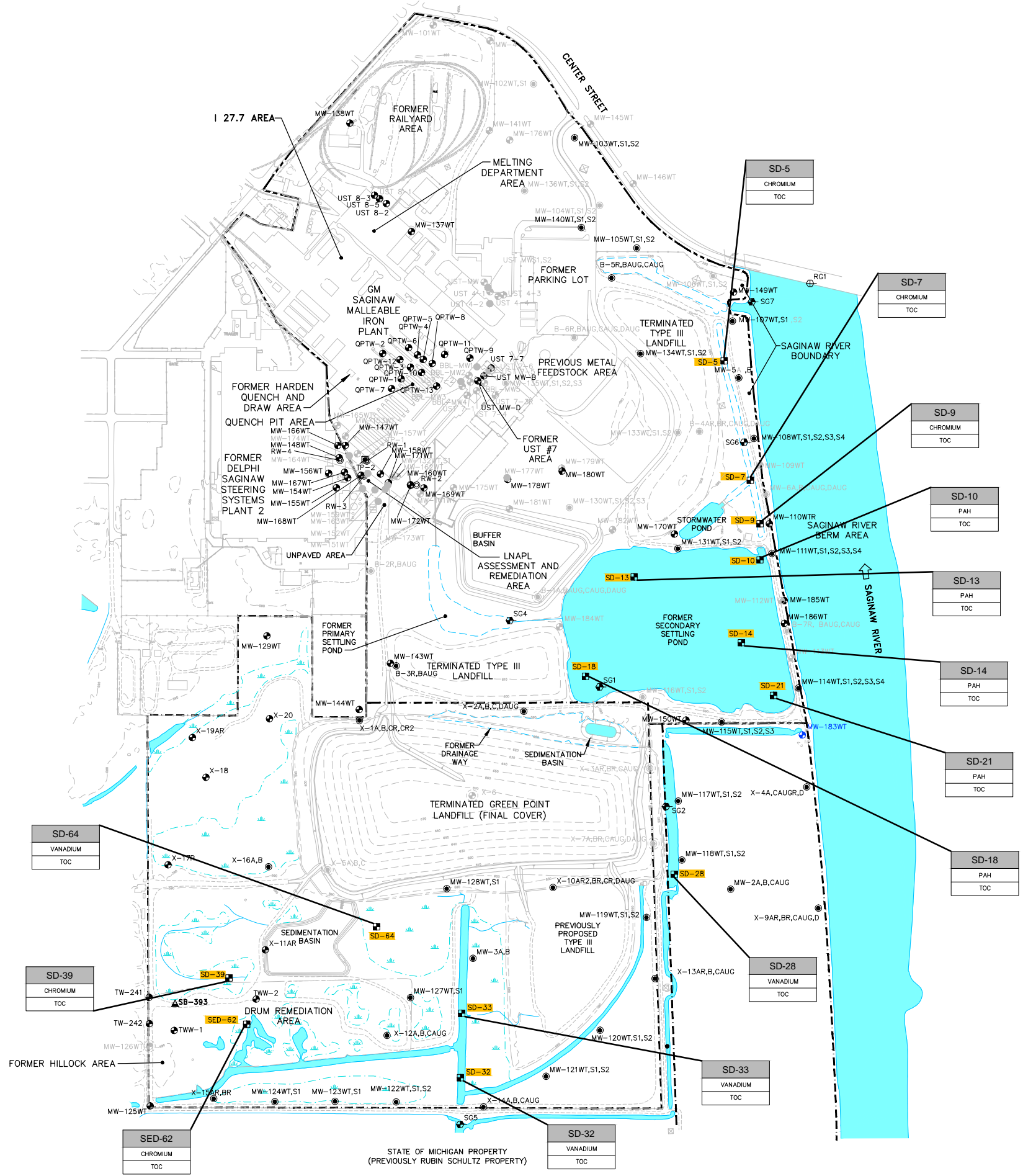
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 - VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD 1983.
 - PROPERTY BOUNDARY FOR GREEN POINT LANDFILL, DIGITIZED FROM SPICER GROUP DRAWING NO. A-21854-1, DATED 3/27/98.
 - BASE MAP INFORMATION SOUTH OF MAIN GREEN POINT LANDFILL PROPERTY LINE FROM AIR-LAND SURVEYS, INC. PHOTO DATE 11/90, MAPPING DATE 10/91.
 - SOIL SAMPLES WILL BE COLLECTED FOR CHROMIUM (TOTAL AND HEXAVALENT) BY 6010 AND 7196A

SAGINAW MALLEABLE INDUSTRIAL LAND,
 GREEN POINT LANDFILL
 SAGINAW, MICHIGAN

**PROPOSED SOIL SAMPLE
 LOCATION MAP**

ARCADIS Design & Consultancy
 for natural and built assets

FIGURE
2



SD-64
VANADIUM
TOC

SD-39
CHROMIUM
TOC

SED-62
CHROMIUM
TOC

SD-32
VANADIUM
TOC

SD-5
CHROMIUM
TOC

SD-7
CHROMIUM
TOC

SD-9
CHROMIUM
TOC

SD-10
PAH
TOC

SD-13
PAH
TOC

SD-14
PAH
TOC

SD-21
PAH
TOC

SD-18
PAH
TOC

SD-28
VANADIUM
TOC

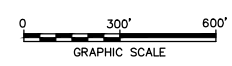
SD-33
VANADIUM
TOC

LEGEND:

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- UNPAVED ROAD
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- FENCE LINE
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- MW-125WT MONITORING WELL
- MW-2A,B,CAUG MONITORING WELL CLUSTER
- SG5 STAFF GAUGE
- TP-1 PIEZOMETER
- RW-1 RECOVERY WELL
- X-6 ABANDONED MONITORING WELL
- X-5A,B,C ABANDONED MONITORING WELL CLUSTER
- RG1 RIVER GAUGE
- MW-152WT WELL NOT FOUND
- PROPOSED SEDIMENT SAMPLING LOCATION
- SW-1 HISTORIC SEDIMENT SAMPLE
- ZINC PROPOSED ANALYSIS
- CYNIDE
- PH
- HARDNESS

RAP (7/31/08) MONITORING PROGRAM; REVISED 12/08

- SAMPLING AND GROUNDWATER ELEVATION MEASUREMENT LOCATION
- LNAPL AND/OR GROUNDWATER ELEVATION MEASUREMENT LOCATION



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SAGINAW MALLEABLE INDUSTRIAL LAND,
 GREEN POINT LANDFILL
 SAGINAW, MICHIGAN

**PROPOSED SEDIMENT SAMPLE
 LOCATION MAP**

ARCADIS Design & Consultancy
 for natural and built assets

FIGURE
3