



**Rose & Westra**  
A Division of GZA

GEOTECHNICAL  
ENVIRONMENTAL  
ECOLOGICAL  
WATER  
CONSTRUCTION  
MANAGEMENT

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**Sent Via Email: [hendershotta@michigan.gov](mailto:hendershotta@michigan.gov)**

File No. 16.0062335.52

June 29, 2018

Ms. Abigail Hendershott  
District Supervisor – Remediation and Redevelopment Division  
Michigan Department of Environmental Quality (MDEQ)  
350 Ottawa Avenue NW #10  
Grand Rapids, MI 49503

Re: Wolverine World Wide, Inc. – House Street Source Investigation Work Plan (SIWP)  
Supplemental Information

Dear Ms. Hendershott:

On behalf of Wolverine World Wide, Inc. (Wolverine), this letter is a supplemental response to your May 31, 2018 letter<sup>1</sup> to Wolverine. The House Street SIWP was submitted on June 8, 2018.

This supplemental letter includes items 2b (Site cross sections, note these cross sections were also submitted in the June 29, 2018 CSM Progress Report) and 2a (Site isoconcentration maps).

No other relevant PFAS information associated with the House Street Disposal Area (per item 2d) was identified.

If you have any questions, please feel free to contact us.

Very truly yours,

Rose & Westra, a Division of GZA GeoEnvironmental, Inc.

Mark A. Westra  
Associate Principal

Loretta J. Powers  
Senior Project Manager/Consultant Reviewer

c: Mr. Dave Latchana – Wolverine Worldwide, Inc. via email [David.Latchana@wwwinc.com](mailto:David.Latchana@wwwinc.com)  
Mr. John V. Byl – Warner Norcross & Judd LLP via email [jbyl@wnj.com](mailto:jbyl@wnj.com)

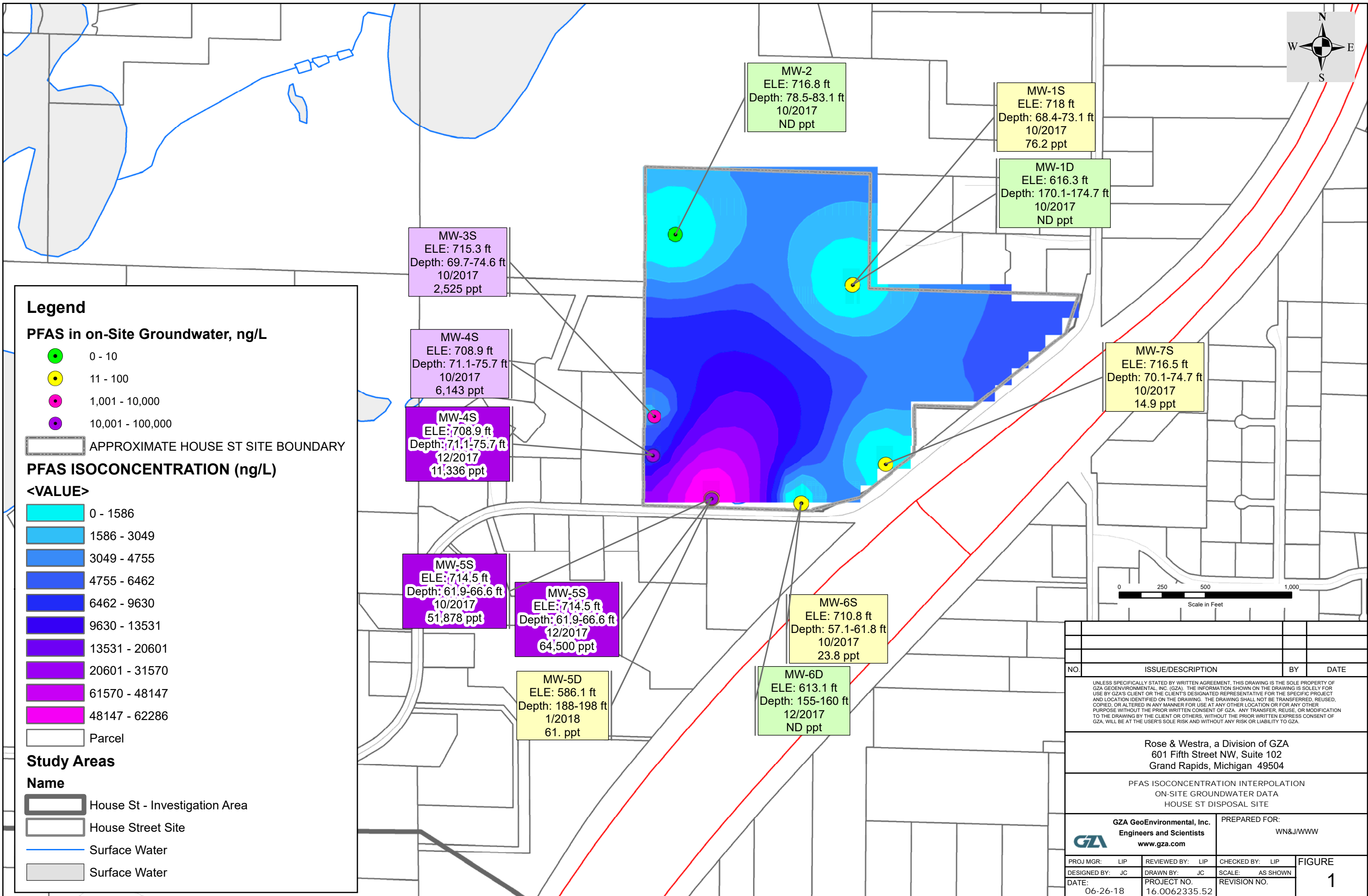
Enclosures: Isoconcentration Maps (2 pages) and Cross Sections (10 total pages)

<sup>1</sup> Letter by MDEQ titled "House Street Disposal Area – Wolverine World Wide, Inc. (Wolverine) Per- and Polyfluoroalkyl Substances (PFAS) Response to "Draft Removal Work Plan for House Street Disposal Area, Plainfield Township, Kent County, Michigan: Approval with Significant Modifications dated April 19, 2018" hereafter named "Extent of Contamination Study Removal Work Plan, House Street Disposal Area, Plainfield Township, Kent County, Michigan" dated May 18, 2018"





© 2018 - GZA GeoEnvironmental, Inc. C:\GIS\_Modeling\01GRGS\_CAD\KenCounty.mxd, 6/26/2018, 10:56:33 PM, Jim Cai





© 2018 - GZA GeoEnvironmental, Inc. C:\GIS\_Mapping\01\GRCS\_CAD\Figures\Figure2\_SitePlan\_Image\_x\_Section062618.mxd, 6/27/2018, 5:15:19 PM, Jim Cai

Legend

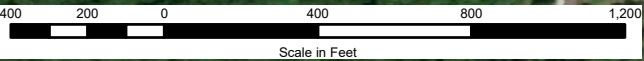
MONITORING WELLS

SOIL BORING

POTENTIAL DISPOSAL AREA

CROSS-SECTION

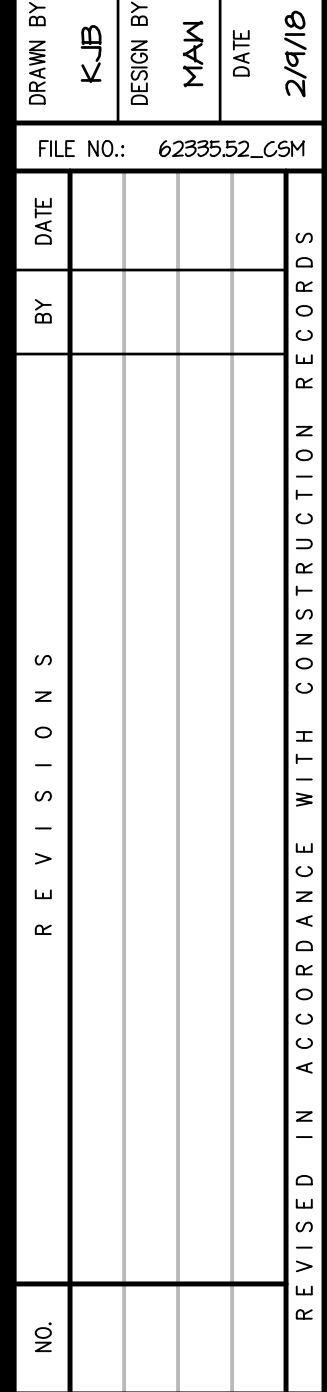
HOUSE ST SITE AREA



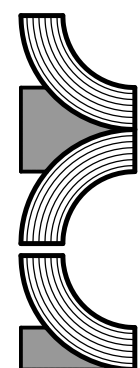
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, U

NO.	ISSUE/DESCRIPTION	BY	DATE
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Rose & Westra, a Division of GZA 601 Fifth Street NW, Suite 102 Grand Rapids, Michigan 49504			
SITE PLAN, ON-SITE SOIL BORING AND MONITORING WELL LOCATION PLAN			
<div><div><div></div></div><div>GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com</div></div>		PREPARED FOR: WN&J / WWW	
PROJ MGR: LJP	REVIEWED BY: LJP	CHECKED BY: JTH	FIGURE B
DESIGNED BY: JC	DRAWN BY: JC	SCALE: AS SHOWN	
DATE: 06-27-18	PROJECT NO. 16.0062335.52	REVISION NO.	





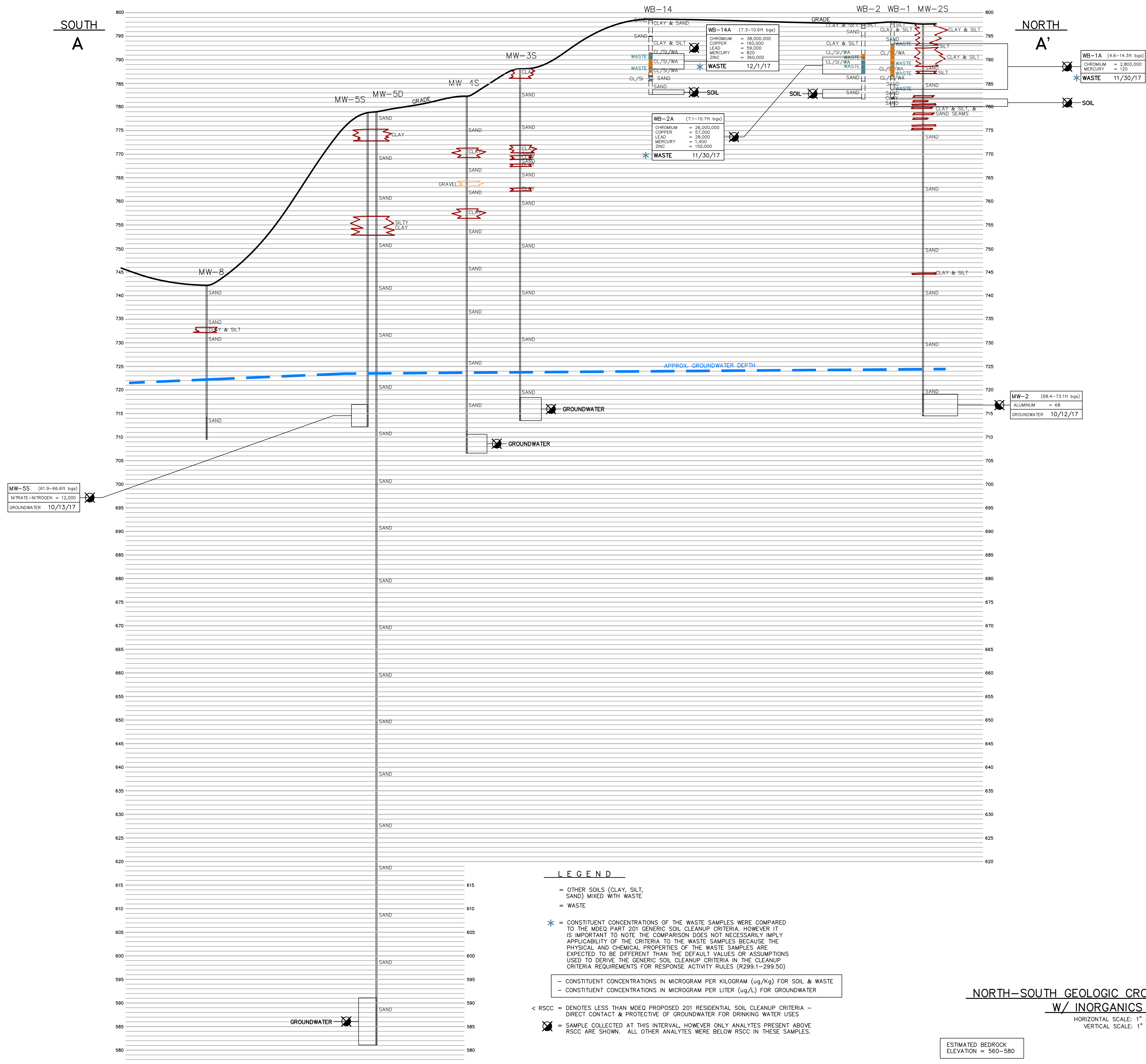
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Grand Rapids, Michigan  
LOGICAL-WATER-CONSTRUCTION MANAGEMENT



GEOTECHNICAL-ENVIRONMENTAL-ECOLOGICAL-WATER-CONSTRUCTION MANAGEMENT

PROJECT NO.
<b>16.0062335.52</b>
SHEET NO.

C1



NORTH-SOUTH GEOLOGIC CROSS SECTION A-A'  
W/ INORGANICS DATA

HORIZONTAL SCALE: 1" = 130'  
VERTICAL SCALE: 1" = 10'

ESTIMATED BEDROCK  
ELEVATION = 560-580

- LEGEND**
- = OTHER SOILS (CLAY, SILT, SAND) MIXED WITH WASTE
  - = WASTE
  - \* = CONSTITUENT CONCENTRATIONS OF THE WASTE SAMPLES WERE COMPARED TO THE MDEQ PART 201 GENERIC SOIL CLEANUP CRITERIA. HOWEVER IT IS IMPORTANT TO NOTE THE COMPARISON DOES NOT NECESSARILY IMPLY APPLICABILITY OF THE CRITERIA TO THE WASTE SAMPLES BECAUSE THE PHYSICAL AND CHEMICAL PROPERTIES OF THE WASTE SAMPLES ARE EXPECTED TO BE DIFFERENT THAN THE DEFAULT VALUES OR ASSUMPTIONS USED TO DERIVE THE GENERIC SOIL CLEANUP CRITERIA IN THE CLEANUP CRITERIA REQUIREMENTS FOR RESPONSE ACTIVITY RULES (R299.1-299.50)
  - CONSTITUENT CONCENTRATIONS IN MICROGRAM PER KILOGRAM (ug/kg) FOR SOIL & WASTE
  - CONSTITUENT CONCENTRATIONS IN MICROGRAM PER LITER (ug/L) FOR GROUNDWATER
  - < RSCC = DENOTES LESS THAN MDEQ PROPOSED 201 RESIDENTIAL SOIL CLEANUP CRITERIA - DIRECT CONTACT & PROTECTIVE OF GROUNDWATER FOR DRINKING WATER USES
  - ☒ = SAMPLE COLLECTED AT THIS INTERVAL, HOWEVER ONLY ANALYTES PRESENT ABOVE RSCC ARE SHOWN. ALL OTHER ANALYTES WERE BELOW RSCC IN THESE SAMPLES.

NO.	BY	DATE	FILE NO.	6233552_CSM
REVISIONS				
NO.	BY	DATE	FILE NO.	6233552_CSM

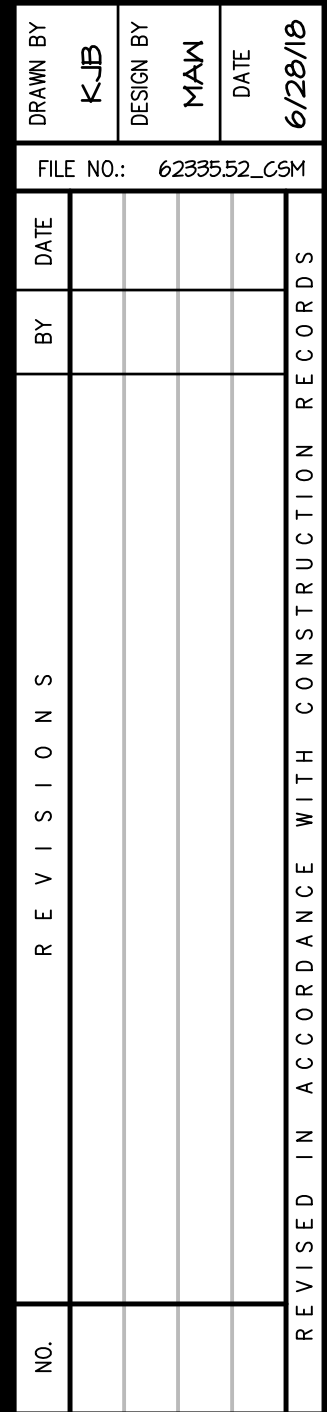
WNUJ/WWW  
FORMER HOUSE STREET SITE  
CONCEPTUAL SITE MODEL

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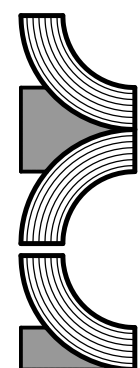
PROJECT NO.  
16.0062335.52  
SHEET NO.  
C2







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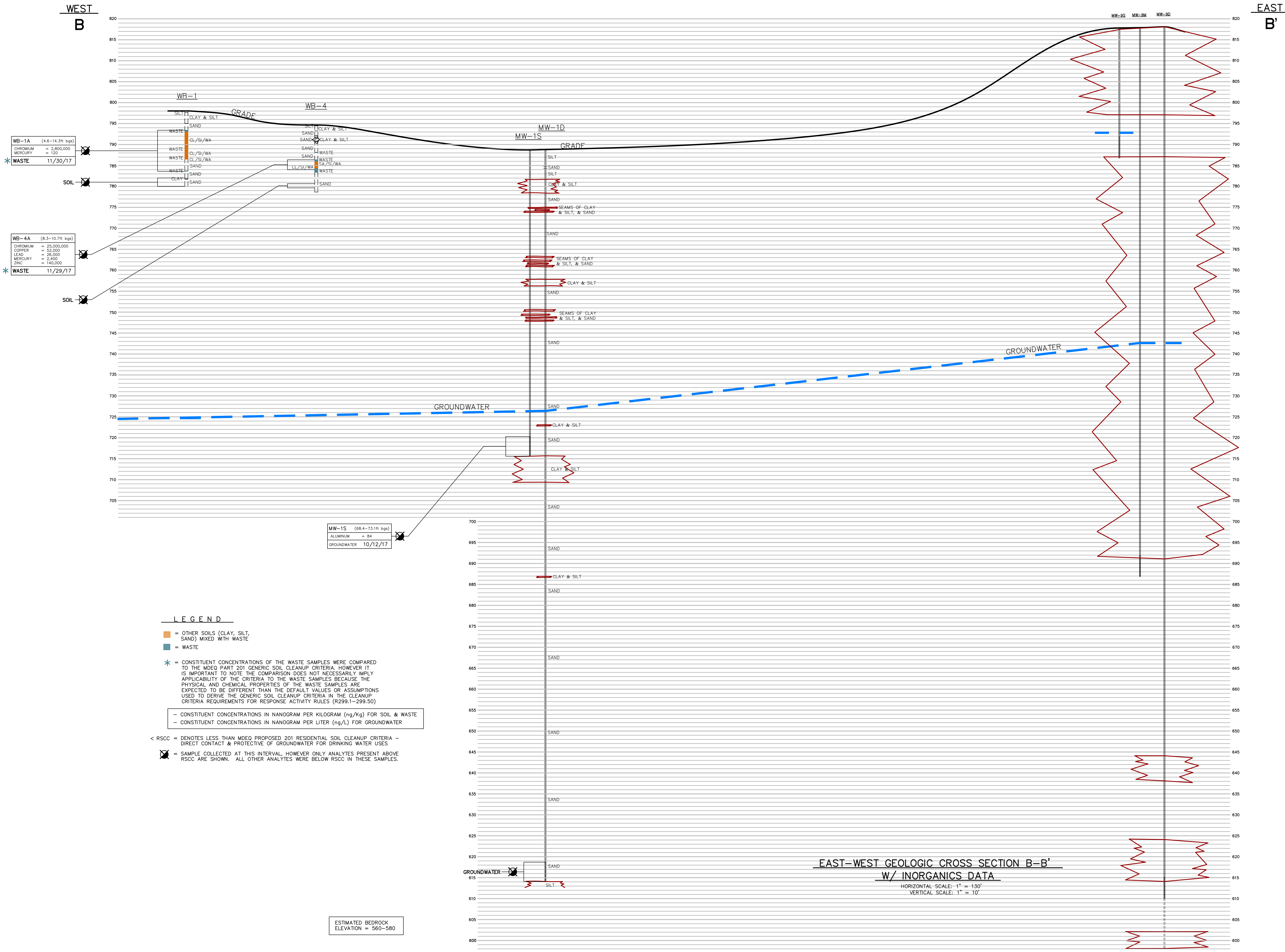


GEOTECHNICAL-ENVIRONMENTAL-ECOLOGICAL-WATER-CONSTRUCTION MANAGEMENT

PROJECT NO.
<b>16.0062335.52</b>
SHEET NO.

# D1





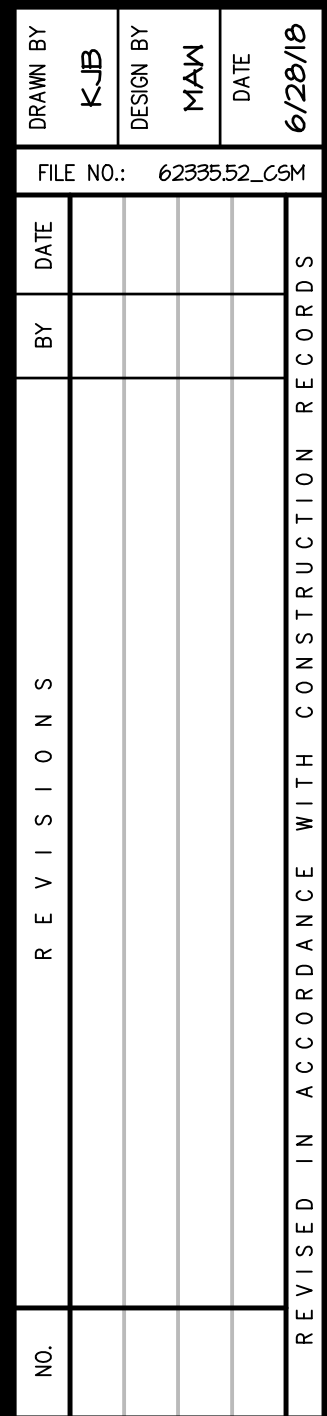
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DESIGN BY	NAM
DATE	6/28/18
FILE NO.	6233552_CSM
DATE	
BY	
REVISIONS	
NO.	

WNJ/WWW  
FORMER HOUSE STREET SITE  
CONCEPTUAL SITE MODEL

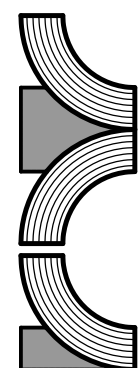
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PROJECT NO.  
16.0062335.52  
SHEET NO.

D2



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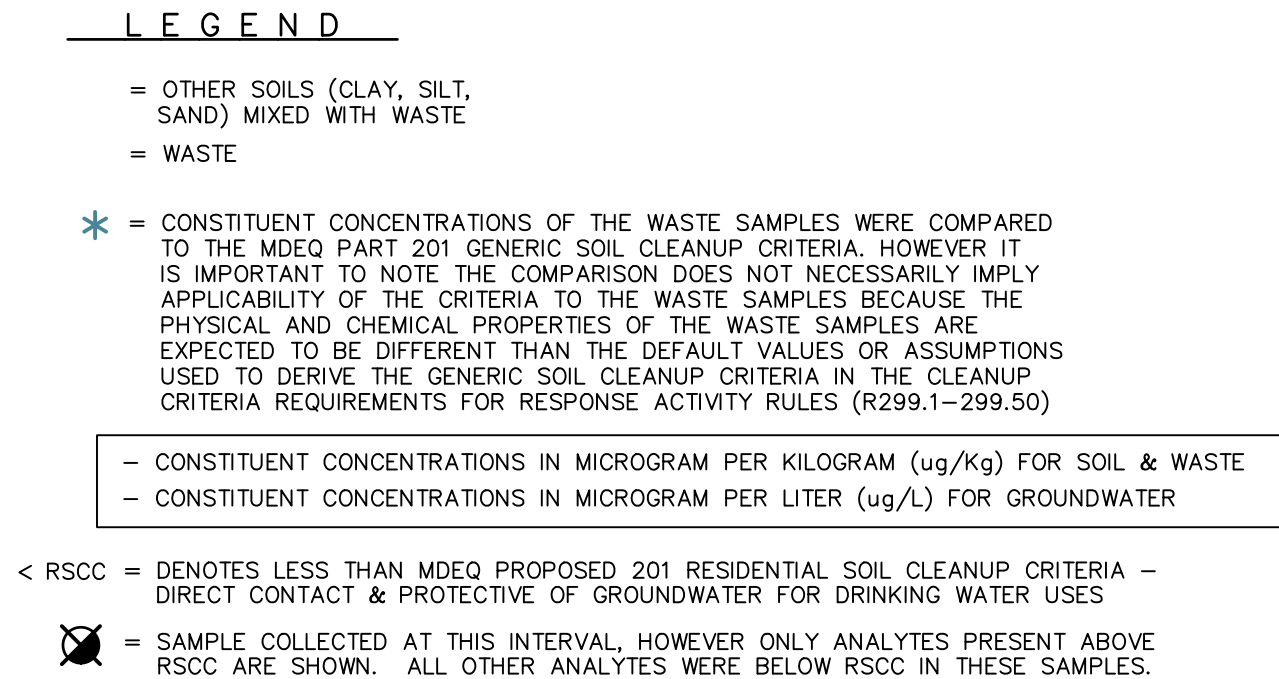
TECHNICAL - ENVIRONMENTAL - ECOLOGICAL - WATER - CONSTRUCTION MANAGEMENT

PROJECT NO.
<b>16.0062335.52</b>
SHEET NO.

# D3



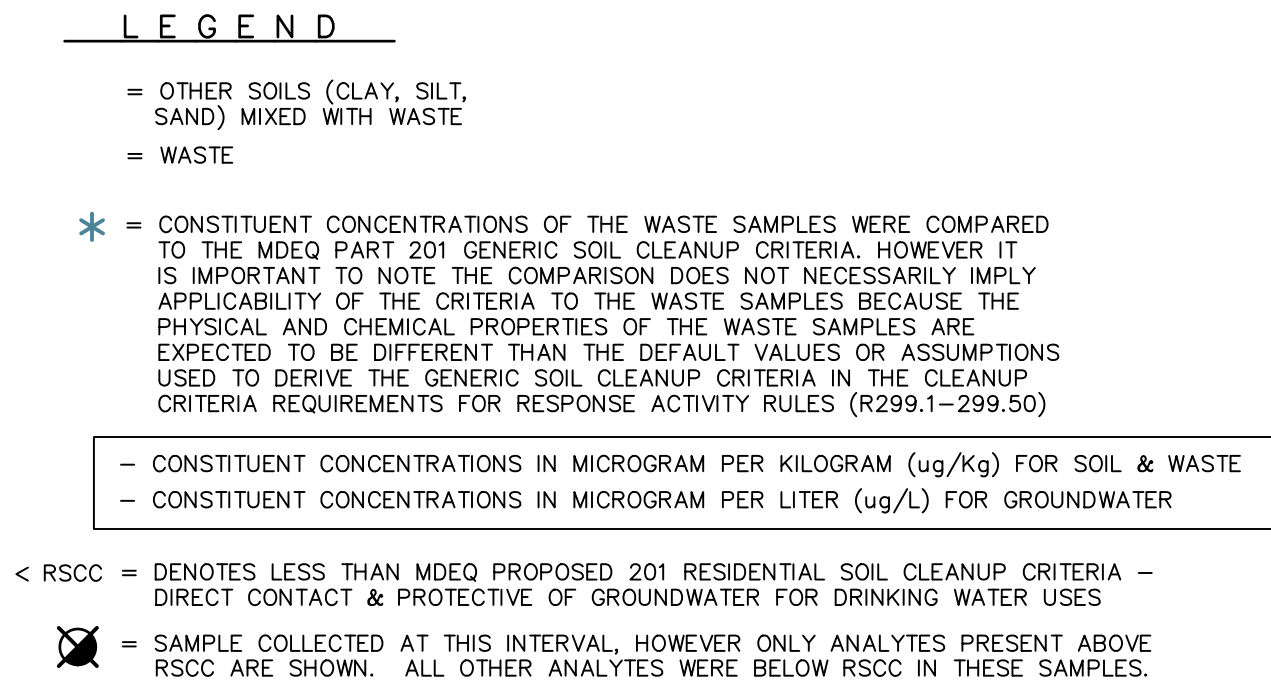




HORIZONTAL SCALE: 1" = 130'  
VERTICAL SCALE: 1" = 10'

ESTIMATED BEDROCK  
ELEVATION = 560-580





HORIZONTAL SCALE: 1" = 130'  
VERTICAL SCALE: 1" = 10'

ESTIMATED BEDROCK  
ELEVATION = 560-580