966169

Annual Progress Report #1 January through December 2020

To:	Brian Kelly, U.S. EPA Christopher Black, U.S. EPA Richard Clarizio, U.S. EPA Lori Kozel, Tetra Tech Licia Yangouyian, City of Dearborn Alan Loebach, City of Dearborn Jeff Watson, City of Dearborn	Ref. No.:	048041
From:	Glenn Turchan, Project Coordinator/kf/1	Date:	December 22, 2020
CC:	Anastasia Bremmer, Ford Bert Richnafsky, Weavertown Grant Gilezan, Dykema Gossett		
Re:	**Annual Progress Report #1 (January through December 2020) (Pursuant to Section 92 of the AOC and Section 3.2 of the Removal Action Work Plan) Former Dearborn Refining Site Dearborn, Michigan**		

A. Due Date: December 31, 2020

B. Previous Activities – January through December 2020

- Activities completed from January 2020 through March 2020 were presented in Quarterly Progress Report #28, submitted to the United States Environmental Protection Agency (U.S. EPA), Tetra Tech, Inc. (Tetra Tech), and the City of Dearborn on April 14, 2020. The January, February, and March 2020 Quarterly Monitoring Event was not completed, as approved by the U.S. EPA on March 23, 2020 and consistent with the March 23, 2020 Office of the Governor's Executive Order 2020-21 (Covid-19) for Michigan.
- Activities completed from April 2020 through June 2020 were presented in Quarterly Progress Report #29, submitted to the U.S. EPA, Tetra Tech, and the City of Dearborn on July 15, 2020. Quarterly Progress Report #29 includes the results of the April, May, and June 2020 Quarterly Monitoring Event.
- Activities completed from July 2020 through September 2020 were presented in Quarterly Progress Report #30, submitted to the U.S. EPA, Tetra Tech, and the City of Dearborn on October 15, 2020.

Quarterly Progress Report #30 includes the results of the July, August, and September 2020 Quarterly Monitoring Event and Annual Sampling Event.

- Received comments from the U.S. EPA regarding the September 25, 2020 draft Operation, Maintenance, and Monitoring Plan (Amendment #3) (OMM Plan) and draft Standard of Care Plan (SOCP) on October 21, 2020.
- Participated in a conference call with the U.S. EPA and Tetra Tech on October 22, 2020 to discuss the September 25, 2020 draft OMM Plan and draft SOCP.
- Submitted revised drafts of the proposed final versions of the amended OMM Plan and SOCP to the U.S. EPA and Tetra Tech on November 5, 2020.
- Received U.S. EPA approval of the revisions presented in the November 5, 2020 draft OMM Plan and draft SOCP on November 10, 2020.
- Submitted the final OMM Plan and final SOCP to the U.S. EPA and Tetra Tech on November 24, 2020. The final OMM Plan identified a reduced number of monitoring points and a revised OMM schedule that included semi-annual methane monitoring, semi-annual inspections, annual water levels measurements, annual light non-aqueous phase liquid (LNAPL) measurements, annual pressure readings, and annual progress reports.
- Received U.S. EPA approval of the November 24, 2020 final OMM Plan and final SOCP on November 30, 2020.
- The revised monitoring points and OMM schedule presented in the November 24, 2020 OMM Plan became effective following receipt of U.S. EPA approval of the OMM Plan on November 30, 2020. A monitoring event/inspection event was not required to be completed in the fourth quarter of 2020, as two monitoring events were previously completed in 2020 (in the second quarter and third quarter of 2020, satisfying the revised OMM schedule). This Annual Progress Report #1 does not include a re-evaluation of data collected and reported to the U.S. EPA in prior 2020 Quarterly Progress Reports. Future annual progress reports will include an evaluation of the data collected during the year covered by the annual progress report. The 2020 data for the current OMM monitoring locations are presented in the attached tables, as noted below for reference:
    - Water levels are presented in Table 1.
    - LNAPL observations are presented in Table 2.
    - Gas probe pressure readings are presented in Table 3.
    - Methane monitoring results are presented in Table 4.
    - Locations of the monitoring points with respect to Site features are presented in Table 5.

The 2020 data for the OMM monitoring locations are presented on the attached figures, as noted below for reference:

- The January through June 2020 groundwater levels, LNAPL observations, and gas probe pressure readings are presented on Figure 1.
- The July through December 2020 groundwater levels, LNAPL observations, and gas probe pressure readings are presented on Figure 2.
- The 2020 methane monitoring results are presented on Figure 3.

The January through June 2020 inspection forms and photographs are presented in Attachment A and the July through December 2020 inspection forms and photographs are presented in Attachment B.

- The NPOS Respondents notified the U.S EPA on December 2, 2020 that their June 25, 2020 Notice of Objections and request for dispute resolution, completed in accordance with Administrative Settlement Agreement and Order on Consent (AOC) Paragraph 114, are withdrawn. The June 25, 2020 Notice of Objections was regarding the letter received from the U.S. EPA on June 15, 2020 identifying Post Removal Site Control (PRSC) requirements.
- Coordinated off-Site disposal of investigative derived waste (drums were removed on December 21, 2020).
- Prepared and submitted the draft Second Amended and Restated Declaration of Restrictive Covenant and Grant of Environmental Protection Easement (Restrictive Covenant) to the U.S. EPA and Tetra Tech on December 22, 2020. The Restrictive Covenant was revised to address current Site conditions, as identified in the November 24, 2020 OMM Plan. The revised draft Restrictive Covenant will be submitted to the City of Dearborn for review and execution following receipt of Restrictive Covenant approval from the U.S. EPA.

C. Document Submittals/Work Plan Modification

- Submittals:
  - Documents submitted from January 2020 through September 2020 are identified in Quarterly Progress Report #28 submitted to the U.S. EPA and Tetra Tech on April 14, 2020, Quarterly Progress Report #29 submitted to the U.S. EPA and Tetra Tech on July 15, 2020, and Quarterly Progress Report #30 submitted to the U.S. EPA and Tetra Tech on October 15, 2020.
  - Received comments from the U.S. EPA regarding the September 25, 2020 draft OMM Plan and draft SOCP on October 21, 2020.
  - Submitted revised drafts of the proposed final versions of the amended OMM Plan and SOCP to the U.S. EPA and Tetra Tech on November 5, 2020.

- Received U.S. EPA approval of the revised drafts of the OMM Plan and SOCP on November 10, 2020.
- Submitted the final OMM Plan and final SOCP to the U.S. EPA and Tetra Tech on November 24, 2020.
- Received U.S. EPA approval of the November 24, 2020 final OMM Plan and final SOCP on November 30, 2020.
- Submitted the draft Restrictive Covenant to the U.S. EPA and Tetra Tech on December 22, 2020.

- Revision Requests:
  - None
- Work Plan Revisions:
  - None

D. Monitoring Program Changes

- No monitoring program changes are currently proposed. The current monitoring program is presented in the November 24, 2020 OMM Plan.

E. Issues Identified

- New Issues and Planned Resolution:
  - None.
- Previously Identified Issues Pending Resolution:
  - In a letter dated December 7, 2018, the current Site owner (City of Dearborn) provided notice of its intention to sell the Site to The Soave Real Estate Group, Inc., which upon acquiring the Site plans to build a manufacturing facility subject to the recorded Restrictive Covenant and the remaining AOC Site work requirements. No subsequent communications from the City of Dearborn regarding the sale of the Site have been received.

F. Current/Projected Work – January through December 2021

- Complete OMM activities consistent with the OMM Plan, as identified below:
  - Semi-annual methane monitoring
  - Semi-annual inspections
  - Annual water level measurements

- Annual LNAPL measurements
- Annual pressure measurements
- Annual progress reports

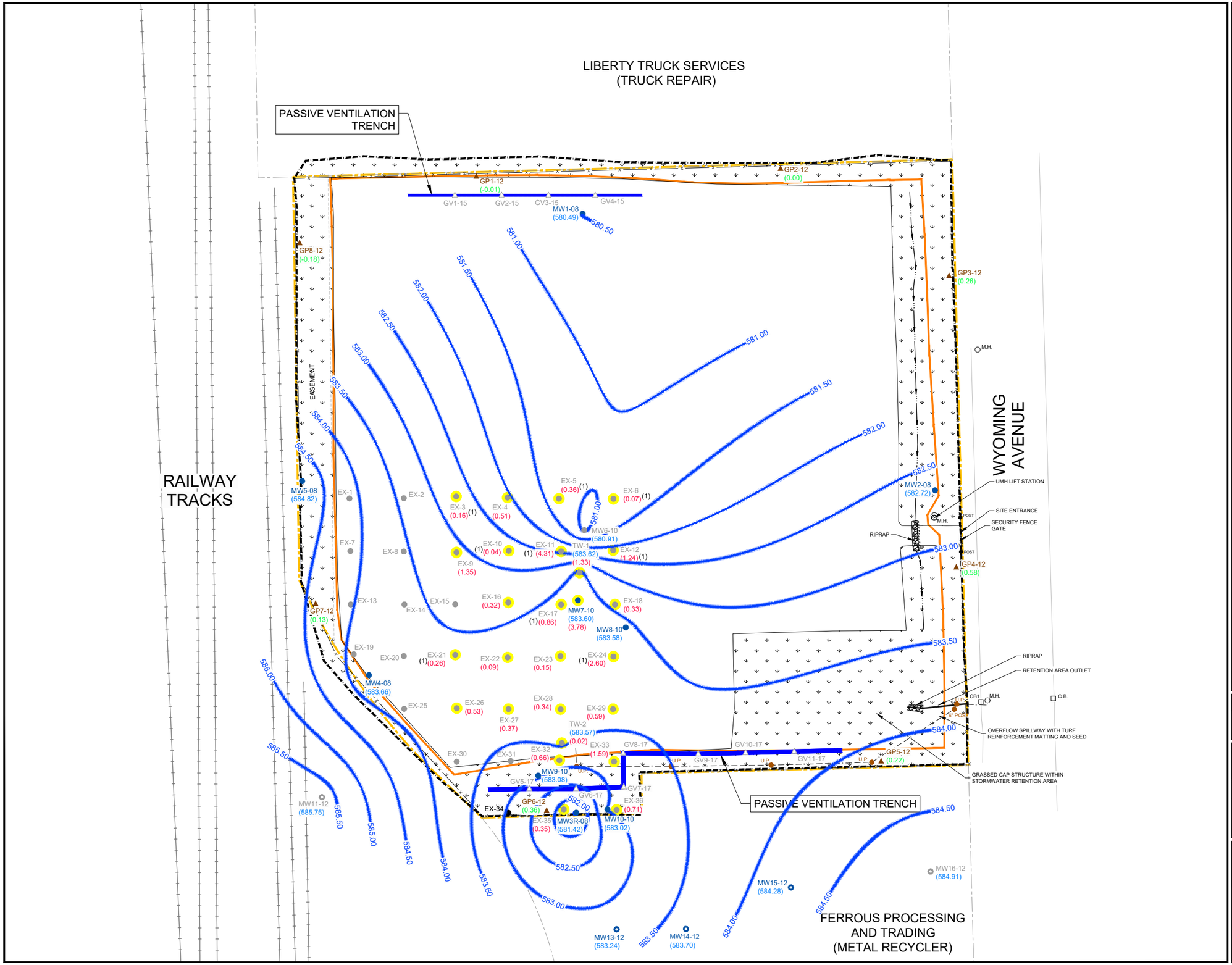
- Work with the City of Dearborn to update the Site Restrictive Covenant executed by the City of Dearborn, as identified in the OMM Plan. This task is to be initiated following receipt of U.S. EPA approval of the draft Restrictive Covenant.
- Submit Annual Progress Report #2 for January through December 2021.
- Scheduling:
  - OMM activities and progress reporting are to be completed, as identified in the OMM Plan.

G. Certification

The Response Action appears to be effective and methane does not appear to be migrating from the Site, however; methane is present on the Ferrous Processing and Trading Company (FPT) property at and south of the Site boundary. Site use appears to be compliant with deed restrictions based on observations made during the semi-annual monitoring events. The Site, under City of Dearborn ownership, appears to pose no imminent and substantial threats to human health or the environment.

Under penalty of law, I certify that to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of the report, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Glenn Turchan, M.A.Sc.; P. Eng. (ON)
Project Coordinator



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LEGEND

- PROPERTY BOUNDARY
- LEGAL BOUNDARY
- RAILWAY LINE
- UMH LIFT STATION
- GRASSED AREA
- CAP LIMIT
- SWALE
- FENCELINE
- 40 MIL HDPE LINER LIMIT (LINER ANCHOR TRENCH LOCATION)
- OVERHEAD POWER LINE
- STORM CULVERT
- MW1-08 — GROUNDWATER MONITORING WELL LOCATION
- EX-34 — EXTRACTION WELL LOCATION
- MW13-12 — LNAPL SENTRY WELL LOCATION
- GP1-12 — GAS PROBE
- GV3-15 — GAS VENT
- CB1 — CATCH BASIN
- M.H. — MANHOLE
- U.P. — UTILITY POLE
- 582.50 — GROUNDWATER CONTOUR (ft AMSL) (DASHED WHERE INFERRED)
- (582.72) — GROUNDWATER ELEVATION (ft AMSL)
- ft AMSL — FEET ABOVE MEAN SEA LEVEL
- LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) THICKNESS OR SHEEN OBSERVED IN SPECIFIED WELL
- (0.07) — LNAPL THICKNESS OBSERVED IN SPECIFIED WELL (FEET) ON JUNE 4, 2020 UNLESS NOTED OTHERWISE
- (0.58) — PRESSURE MEASUREMENT IN INCHES OF WATER COLUMN (" H_2O) (MEASUREMENTS COLLECTED USING A DIGITAL MANOMETER)

NOTE:
(1) JUNE 30, 2020 READING.
(2) MONITORING LOCATIONS THAT APPEAR AS GRAY FONT ARE NOT INCLUDED (MONITORED FOR LNAPL OR WATER LEVELS) IN THE CURRENT OPERATION, MAINTENANCE, AND MONITORING (OMM) PROGRAM, EFFECTIVE NOVEMBER 30, 2020.

SOURCES
- SITE LAYOUT MAP WESTON (11/21/2006)
- CERTIFIED SURVEY, CONESTOGA-ROVERS & ASSOCIATES, Inc., 04/16/2008 AND SURVEY MAY 02, 2011
- EQ SURVEY JULY 30, 2012 AND OCTOBER 18, 2012.
- CONESTOGA ROVER & ASSOCIATES (CRA) SURVEY DECEMBER 17, 2014. DATUM: SPCS MI S NAD83, INTFT. MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) - CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NETWORK.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

FORMER DEARBORN REFINING SITE DEARBORN, MICHIGAN

ANNUAL PROGRESS REPORT #1

JUNE 4/JUNE 30, 2020 WATER LEVELS AND LNAPL OBSERVATIONS

GHD

Source Reference:

Project Manager:	Reviewed By:	Date:	
G. TURCHAN	H. RUIZ	December 2020	
Scale: AS SHOWN	Project №: 48041-00	Report №: PRES075	Drawing №: figure 1

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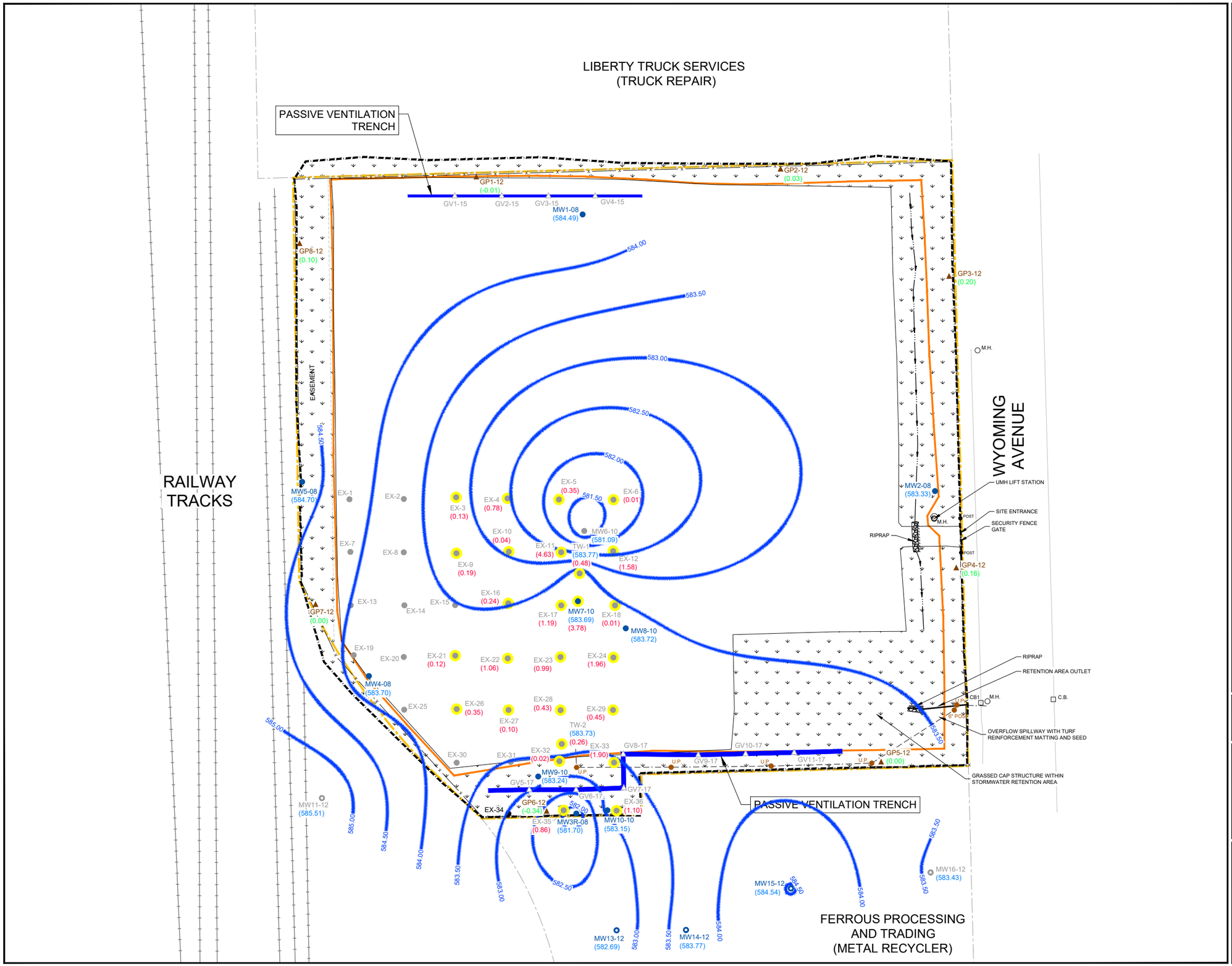

0 20 40ft

LEGEND

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- LEGAL BOUNDARY
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- UMH LIFT STATION
- GRASSED AREA
- CAP LIMIT
- SWALE
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- 40 MIL HDPE LINER LIMIT (LINER ANCHOR TRENCH LOCATION)
- OVERHEAD POWER LINE
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- MW13-12 — LNAPL SENTRY WELL LOCATION
- GP1-12 — GAS PROBE
- GV3-15 — GAS VENT
- CB1 — CATCH BASIN
- M.H. — MANHOLE
- U.P. — UTILITY POLE
- 583.50 — GROUNDWATER CONTOUR (ft AMSL) (DASHED WHERE INFERRED)
- (583.33) — GROUNDWATER ELEVATION (ft AMSL)
- ft AMSL — FEET ABOVE MEAN SEA LEVEL
- LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) THICKNESS OR SHEEN OBSERVED IN SPECIFIED WELL
- (0.01) — LNAPL THICKNESS OBSERVED IN SPECIFIED WELL (FEET) ON JUNE 4, 2020 UNLESS NOTED OTHERWISE
- (0.16) — PRESSURE MEASUREMENT IN INCHES OF WATER COLUMN (" H_2O) (MEASUREMENTS COLLECTED USING A DIGITAL MANOMETER)

NOTE:
(1) MONITORING LOCATIONS THAT APPEAR AS GRAY FONT ARE NOT INCLUDED (MONITORED FOR LNAPL OR WATER LEVELS) IN THE CURRENT OPERATION, MAINTENANCE, AND MONITORING (OMM) PROGRAM, EFFECTIVE NOVEMBER 30, 2020.

SOURCES
- SITE LAYOUT MAP WESTON (11/21/2006)
- CERTIFIED SURVEY, CONESTOGA-ROVERS & ASSOCIATES, Inc., 04/16/2008 AND SURVEY MAY 02, 2011
- EQ SURVEY JULY 30, 2012 AND OCTOBER 18, 2012
- CONESTOGA ROVER & ASSOCIATES (CRA) SURVEY DECEMBER 17, 2014. DATUM: SPCS MI S NAD83, INTFT. MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) - CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NETWORK.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

FORMER DEARBORN REFINING SITE DEARBORN, MICHIGAN

ANNUAL PROGRESS REPORT #1

SEPTEMBER 23, 2020 WATER LEVELS AND LNAPL OBSERVATIONS

GHD

Source Reference:

Project Manager:	Reviewed By:	Date:
G. TURCHAN	H. RUIZ	December 2020
Scale: AS SHOWN	Project №: 48041-00	Report №: PRES075
		Drawing №: figure 2

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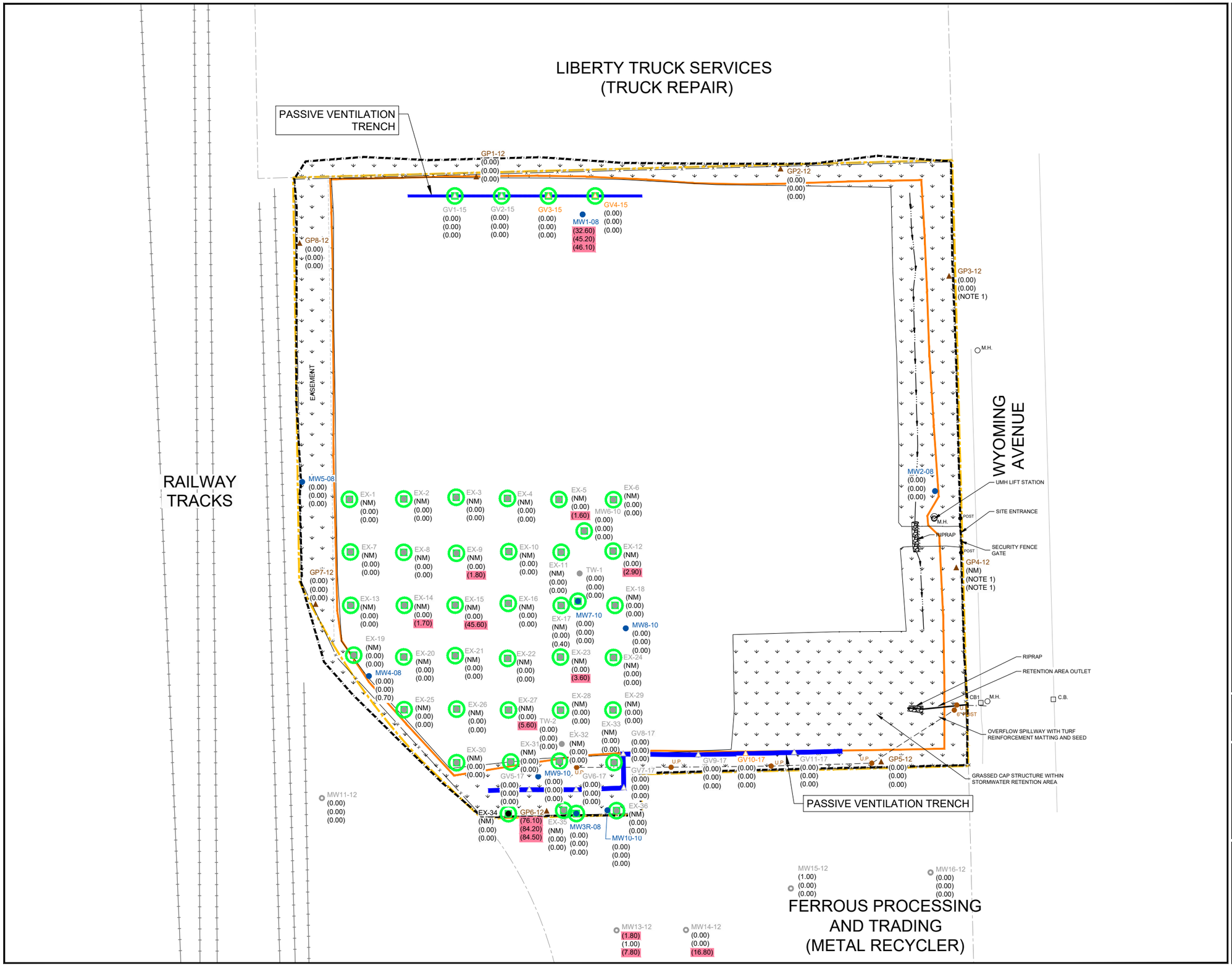

0 20 40ft

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- OVERHEAD POWER LINE
- STORM CULVERT
- MW1-08 GROUNDWATER MONITORING WELL LOCATION
- EX-34 EXTRACTION WELL LOCATION
- MW11-12 LNAPL SENTRY WELL LOCATION
- GP1-12 GAS PROBE
- GV3-15 GAS VENT
- CB1 CATCH BASIN
- M.H. MANHOLE
- U.P. UTILITY POLE
- 7.5 METHANE CONTOUR (%vol) (DASHED WHERE INFERRED)
- (1.80) METHANE MONITORED OVER 1.25% AT THIS LOCATION
- (0.00) METHANE LEVEL (%vol)
- (NM) NOT MEASURED
- MPE MULTI-PHASE EXTRACTION
- %vol PERCENT VOLUME
- WIND TURBINE LOCATION
- (0.00) JUNE 4, 2020
- (0.00) SEPTEMBER 21, 2020
- (0.00) SEPTEMBER 23, 2020

NOTE:
(1) COULD NOT BE MEASURED DUE TO WATER PRESENT.
(2) MONITORING LOCATIONS THAT APPEAR AS GRAY FONT ARE NOT INCLUDED (METHANE MONITORING IS NOT COMPLETED) IN THE CURRENT OPERATION, MAINTENANCE, AND MONITORING (OMM) PROGRAM, EFFECTIVE NOVEMBER 30, 2020.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

FORMER DEARBORN REFINING SITE
DEARBORN, MICHIGAN

ANNUAL PROGRESS REPORT #1

JUNE 4, SEPTEMBER 21 AND 23, 2020 METHANE LEVELS

GHD

Source Reference:
SITE LAYOUT MAP WESTON (11/21/2006), CERTIFIED SURVEY, CONESTOGA-ROVERS & ASSOCIATES, Inc., 04/16/2008, AND SURVEY MAY 02, 2011, EQ SURVEY JULY 30, 2012 AND OCTOBER 18, 2012

Project Manager:	Reviewed By:	Date:
G. TURCHAN	H. RUIZ	December 2020
Scale: AS SHOWN	Project №: 48041-00	Report №: PRES075
		Drawing №: figure 3

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Table 1

Hydraulic Measurements
Annual Progress Report #1 (2020)
Former Dearborn Refining Site
Dearborn, Michigan

Well I.D.	Date	TOC Elevation (ft amsl)	Top of Screen (ft amsl) (11)	Bottom of Screen (ft amsl)(11)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW1-08	4/24/2013	592.55	589.24	574.24	--	8.60	--	--	583.95	583.95
MW1-08	5/23/2013	592.55	589.24	574.24	--	8.62	--	--	583.93	583.93
MW1-08	6/20/2013	592.55	589.24	574.24	--	8.46	--	--	584.09	584.09
MW1-08	7/25/2013	592.55	589.24	574.24	--	7.80	--	--	584.75	584.75
MW1-08	8/29/2013	592.55	589.24	574.24	--	8.77	--	--	583.78	583.78
MW1-08	9/27/2013	592.55	589.24	574.24	--	9.76	--	--	582.79	582.79
MW1-08	10/22/2013	592.55	589.24	574.24	--	9.97	--	--	582.58	582.58
MW1-08	11/21/2013	592.55	589.24	574.24	--	10.61	--	--	581.94	581.94
MW1-08	12/11/2013	592.55	589.24	574.24	--	10.73	--	--	581.82	581.82
MW1-08	1/15/2014	592.55	589.24	574.24	--	10.47	--	--	582.08	582.08
MW1-08	2/26/2014	592.55	589.24	574.24	--	10.56	--	--	581.99	581.99
MW1-08	3/25/2014	592.55	589.24	574.24	--	9.89	--	--	582.66	582.66
MW1-08	5/5/2014	592.55	589.24	574.24	--	9.27	--	--	583.28	583.28
MW1-08	9/19/2014	592.55	589.24	574.24	--	7.98	--	--	584.57	584.57
MW1-08	12/11/2014	591.41	589.24	574.24	--	8.90	--	--	582.51	582.51
MW1-08	3/9/2015	591.41	589.24	574.24	--	9.86	--	--	581.55	581.55
MW1-08	6/1/2015	591.41	589.24	574.24	--	8.75	--	--	582.66	582.66
MW1-08	8/5/2015	591.41	589.24	574.24	--	8.56	--	--	582.85	582.85
MW1-08	1/8/2016	591.41	589.24	574.24	--	9.09	--	--	582.32	582.32
MW1-08	3/18/2016	591.41	589.24	574.24	--	8.31	--	--	583.10	583.10
MW1-08	5/26/2016	591.41	589.24	574.24	--	7.93	--	--	583.48	583.48
MW1-08	8/12/2016	591.41	589.24	574.24	--	9.32	--	--	582.09	582.09
MW1-08	12/9/2016	591.41	589.24	574.24	--	8.19	--	--	583.22	583.22
MW1-08	2/27/2017	591.41	589.24	574.24	--	7.83	--	--	583.58	583.58
MW1-08	6/19/2017	591.41	589.24	574.24	--	7.32	--	--	584.09	584.09
MW1-08	9/13/2017	591.41	589.24	574.24	--	8.65	--	--	582.76	582.76
MW1-08	11/16/2017	591.41	589.24	574.24	--	9.19	--	--	582.22	582.22
MW1-08	3/22/2018	591.41	589.24	574.24	--	7.11	--	--	584.30	584.30
MW1-08	5/17/2018	591.41	589.24	574.24	--	5.95	--	--	585.46	585.46
MW1-08	9/19/2018	591.41	589.24	574.24	--	8.81	--	--	582.60	582.60
MW1-08	11/29/2018	591.41	589.24	574.24	--	6.88	--	--	584.53	584.53
MW1-08	3/21/2019	591.41	589.24	574.24	--	7.68	--	--	583.73	583.73
MW1-08	6/5/2019	591.41	589.24	574.24	--	6.24	--	--	585.17	585.17
MW1-08	9/9/2019	591.41	589.24	574.24	--	8.48	--	--	582.93	582.93
MW1-08	11/26/2019	591.41	589.24	574.24	--	8.16	--	--	583.25	583.25
MW1-08	6/4/2020	591.42	589.24	574.24	--	10.93	--	--	580.49	580.49
MW1-08	9/23/2020	591.42	589.24	574.24	--	6.93	--	--	584.49	584.49
MW2-08	4/24/2013	591.76	588.79	584.79	--	7.09	--	--	584.67	584.67
MW2-08	5/23/2013	591.76	588.79	584.79	--	8.23	--	--	583.53	583.53
MW2-08	6/20/2013	591.76	588.79	584.79	--	8.18	--	--	583.58	583.58
MW2-08	7/25/2013	591.76	588.79	584.79	--	6.70	--	--	585.06	585.06
MW2-08	8/29/2013	591.76	588.79	584.79	--	8.04	--	--	583.72	583.72
MW2-08	9/27/2013	591.76	588.79	584.79	--	8.58	--	--	583.18	583.18
MW2-08	10/22/2013	591.76	588.79	584.79	--	8.91	--	--	582.85	582.85
MW2-08	11/21/2013	591.76	588.79	584.79	--	9.17	--	--	582.59	582.59
MW2-08	12/11/2013	591.76	588.79	584.79	--	9.10	--	--	582.66	582.66
MW2-08	1/15/2014	591.76	588.79	584.79	--	7.56	--	--	584.20	584.20
MW2-08	2/26/2014	591.76	588.79	584.79	--	7.85	--	--	583.91	583.91
MW2-08	3/25/2014	591.76	588.79	584.79	(1)	(1)	(1)	(1)	(1)	(1)
MW2-08	5/5/2014	591.76	588.79	584.79	(1)	(1)	(1)	(1)	(1)	(1)
MW2-08	9/19/2014	591.76	588.79	584.79	--	7.80	--	--	583.96	583.96
MW2-08	12/11/2014	590.64	588.79	584.79	--	8.06	--	--	582.58	582.58
MW2-08	3/9/2015	590.64	588.79	584.79	--	8.72	--	--	581.92	581.92
MW2-08	6/1/2015	590.64	588.79	584.79	--	7.52	--	--	583.12	583.12
MW2-08	8/5/2015	590.64	588.79	584.79	--	8.47	--	--	582.17	582.17
MW2-08	1/8/2016	590.64	588.79	584.79	--	7.47	--	--	583.17	583.17

Table 1

Hydraulic Measurements
Annual Progress Report #1 (2020)
Former Dearborn Refining Site
Dearborn, Michigan

Well I.D.	Date	TOC Elevation (ft amsl)	Top of Screen (ft amsl) (11)	Bottom of Screen (ft amsl)(11)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)	
MW2-08	3/18/2016	590.64	588.79	584.79	--	6.32	--	--	584.32	584.32	
MW2-08	5/26/2016	590.64	588.79	584.79	--	8.13	--	--	582.51	582.51	
MW2-08	8/12/2016	590.64	588.79	584.79	--	9.04	--	--	581.60	581.60	
MW2-08	12/9/2016	590.64	588.79	584.79	--	7.21	--	--	583.43	583.43	
MW2-08	2/27/2017	590.64	588.79	584.79	--	7.38	--	--	583.26	583.26	
MW2-08	6/19/2017	590.64	588.79	584.79	--	8.27	--	--	582.37	582.37	
MW2-08	9/13/2017	590.64	588.79	584.79	--	9.12	--	--	581.52	581.52	
MW2-08	11/16/2017	590.64	588.79	584.79	--	9.27	--	--	581.37	581.37	
MW2-08	3/22/2018	590.64	588.79	584.79	--	7.67	--	--	582.97	582.97	
MW2-08	5/17/2018	590.64	588.79	584.79	--	6.34	--	--	584.30	584.30	
MW2-08	9/19/2018	590.64	588.79	584.79	--	9.05	--	--	581.59	581.59	
MW2-08	11/29/2018	590.64	588.79	584.79	--	1.32	--	--	589.32	589.32	
MW2-08	3/21/2019	590.64	588.79	584.79	--	7.25	--	--	583.39	583.39	
MW2-08	6/5/2019	590.64	588.79	584.79	--	7.71	--	--	582.93	582.93	
MW2-08	9/9/2019	590.64	588.79	584.79	--	9.01	--	--	581.63	581.63	
MW2-08	11/26/2019	590.64	588.79	584.79	--	6.76	--	--	583.88	583.88	
MW2-08	6/4/2020	590.66	588.79	584.79	--	7.94	--	--	582.72	582.72	(12)
MW2-08	9/23/2020	590.66	588.79	584.79	--	7.33	--	--	583.33	583.33	(12)
MW3R-08	4/24/2013	589.11	583.91	568.91	4.90	4.90	trace	584.21	584.21	584.21	
MW3R-08	5/23/2013	589.11	583.91	568.91	6.51	6.51	trace	582.60	582.60	582.60	
MW3R-08	6/20/2013	589.11	583.91	568.91	--	5.60	--	--	583.51	583.51	
MW3R-08	7/25/2013	589.11	583.91	568.91	--	4.71	trace	--	584.40	584.40	
MW3R-08	8/29/2013	589.11	583.91	568.91	--	7.34	trace	--	581.77	581.77	
MW3R-08	9/27/2013	589.11	583.91	568.91	--	7.83	--	--	581.28	581.28	
MW3R-08	10/22/2013	589.11	583.91	568.91	--	8.50	trace	--	580.61	580.61	
MW3R-08	11/21/2013	589.11	583.91	568.91	--	8.67	trace	--	580.44	580.44	
MW3R-08	12/11/2013	589.11	583.91	568.91	--	8.44	trace	--	580.67	580.67	
MW3R-08	1/15/2014	589.11	583.91	568.91	--	6.78	--	--	582.33	582.33	
MW3R-08	2/26/2014	589.11	583.91	568.91	--	7.15	--	--	581.96	581.96	
MW3R-08	3/25/2014	589.11	583.91	568.91	--	6.19	--	--	582.92	582.92	
MW3R-08	5/5/2014	589.11	583.91	568.91	--	6.13	--	--	582.98	582.98	
MW3R-08	9/19/2014	589.11	583.91	568.91	--	5.39	--	--	583.72	583.72	
MW3R-08	12/11/2014	587.87	583.91	568.91	--	6.08	trace	--	581.79	581.79	
MW3R-08	3/9/2015	587.87	583.91	568.91	--	6.37	--	--	581.50	581.50	
MW3R-08	6/1/2015	587.87	583.91	568.91	--	5.10	--	--	582.77	582.77	
MW3R-08	8/5/2015	587.87	583.91	568.91	--	6.15	--	--	581.72	581.72	
MW3R-08	1/8/2016	587.87	583.91	568.91	--	5.65	--	--	582.22	582.22	
MW3R-08	3/18/2016	587.87	583.91	568.91	--	5.22	--	--	582.65	582.65	
MW3R-08	5/26/2016	587.87	583.91	568.91	--	5.87	--	--	582.00	582.00	
MW3R-08	8/12/2016	587.87	583.91	568.91	--	7.19	--	--	580.68	580.68	
MW3R-08	12/9/2016	587.87	583.91	568.91	--	5.61	--	--	582.26	582.26	
MW3R-08	2/27/2017	587.87	583.91	568.91	--	5.20	--	--	582.67	582.67	
MW3R-08	6/19/2017	587.87	583.91	568.91	--	5.90	--	--	581.97	581.97	
MW3R-08	9/13/2017	587.87	583.91	568.91	--	6.60	--	--	581.27	581.27	
MW3R-08	11/16/2017	587.87	583.91	568.91	--	6.50	--	--	581.37	581.37	
MW3R-08	3/22/2018	587.87	583.91	568.91	--	5.51	--	--	582.36	582.36	
MW3R-08	5/17/2018	587.87	583.91	568.91	--	3.14	--	--	584.73	584.73	
MW3R-08	9/19/2018	587.87	583.91	568.91	--	7.24	--	--	580.63	580.63	
MW3R-08	11/29/2018	587.87	583.91	568.91	--	4.44	--	--	583.43	583.43	
MW3R-08	3/21/2019	587.87	583.91	568.91	--	5.46	--	--	582.41	582.41	
MW3R-08	6/5/2019	587.87	583.91	568.91	--	4.38	--	--	583.49	583.49	
MW3R-08	9/9/2019	587.87	583.91	568.91	--	6.90	--	--	580.97	580.97	
MW3R-08	11/26/2019	587.87	583.91	568.91	--	5.94	--	--	581.93	581.93	
MW3R-08	6/4/2020	586.62	583.91	568.91	--	5.20	--	--	581.42	581.42	
MW3R-08	9/23/2020	586.62	583.91	568.91	--	4.92	--	--	581.70	581.70	
MW4-08	4/24/2013	591.76	588.93	575.93	--	8.78	--	--	582.98	582.98	

Table 1

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Well I.D.	Date	TOC Elevation (ft amsl)	Top of Screen (ft amsl) (11)	Bottom of Screen (ft amsl)(11)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW4-08	5/23/2013	591.76	588.93	575.93	--	8.71	--	--	583.05	583.05
MW4-08	6/20/2013	591.76	588.93	575.93	--	8.15	--	--	583.61	583.61
MW4-08	7/25/2013	591.76	588.93	575.93	--	7.47	trace	--	584.29	584.29
MW4-08	8/29/2013	591.76	588.93	575.93	--	9.97	--	--	581.79	581.79
MW4-08	9/27/2013	591.76	588.93	575.93	--	10.21	--	--	581.55	581.55
MW4-08	10/22/2013	591.76	588.93	575.93	--	10.35	--	--	581.41	581.41
MW4-08	11/21/2013	591.76	588.93	575.93	--	11.42	--	--	580.34	580.34
MW4-08	12/11/2013	591.76	588.93	575.93	--	11.00	--	--	580.76	580.76
MW4-08	1/15/2014	591.76	588.93	575.93	--	10.12	--	--	581.64	581.64
MW4-08	2/26/2014	591.76	588.93	575.93	--	9.94	--	--	581.82	581.82
MW4-08	3/25/2014	591.76	588.93	575.93	--	8.84	--	--	582.92	582.92
MW4-08	5/5/2014	591.76	588.93	575.93	--	8.80	--	--	582.96	582.96
MW4-08	9/19/2014	591.76	588.93	575.93	--	7.72	--	--	584.04	584.04
MW4-08	12/11/2014	590.35	588.93	575.93	--	8.81	--	--	581.54	581.54
MW4-08	3/9/2015	590.35	588.93	575.93	--	9.72	--	--	580.63	580.63
MW4-08	6/1/2015	590.35	588.93	575.93	--	8.41	--	--	581.94	581.94
MW4-08	8/5/2015	590.35	588.93	575.93	--	8.82	--	--	581.53	581.53
MW4-08	1/8/2016	590.35	588.93	575.93	--	8.75	--	--	581.60	581.60
MW4-08	3/18/2016	590.35	588.93	575.93	--	7.74	--	--	582.61	582.61
MW4-08	5/26/2016	590.35	588.93	575.93	--	8.05	--	--	582.30	582.30
MW4-08	8/12/2016	590.35	588.93	575.93	--	9.51	--	--	580.84	580.84
MW4-08	12/9/2016	590.35	588.93	575.93	--	8.29	--	--	582.06	582.06
MW4-08	2/27/2017	590.35	588.93	575.93	--	7.87	--	--	582.48	582.48
MW4-08	6/19/2017	590.35	588.93	575.93	--	7.75	--	--	582.60	582.60
MW4-08	9/13/2017	590.35	588.93	575.93	--	8.87	--	--	581.48	581.48
MW4-08	11/16/2017	590.35	588.93	575.93	--	9.00	--	--	581.35	581.35
MW4-08	3/22/2018	590.35	588.93	575.93	--	7.28	--	--	583.07	583.07
MW4-08	5/17/2018	590.35	588.93	575.93	--	5.36	--	--	584.99	584.99
MW4-08	9/19/2018	590.35	588.93	575.93	--	6.13	--	--	584.22	584.22
MW4-08	11/29/2018	590.35	588.93	575.93	(3)	(3)	(3)	(3)	(3)	(3)
MW4-08	3/21/2019	590.35	588.93	575.93	--	7.44	--	--	582.91	582.91
MW4-08	6/5/2019	590.35	588.93	575.93	--	6.17	--	--	584.18	584.18
MW4-08	9/9/2019	590.35	588.93	575.93	--	8.78	--	--	581.57	581.57
MW4-08	11/26/2019	590.35	588.93	575.93	--	8.18	--	--	582.17	582.17
MW4-08	6/4/2020	590.69	588.93	575.93	--	7.03	--	--	583.66	583.66
MW4-08	9/23/2020	590.69	588.93	575.93	--	6.99	--	--	583.70	583.70
MW5-08	4/24/2013	588.26	586.75	578.75	--	1.07	--	--	587.19	587.19
MW5-08	5/23/2013	588.26	586.75	578.75	--	3.51	--	--	584.75	584.75
MW5-08	6/20/2013	588.26	586.75	578.75	--	3.05	--	--	585.21	585.21
MW5-08	7/25/2013	588.26	586.75	578.75	--	0.15	--	--	588.11	588.11
MW5-08	8/29/2013	588.26	586.75	578.75	--	3.75	--	--	584.51	584.51
MW5-08	9/27/2013	588.26	586.75	578.75	--	4.04	--	--	584.22	584.22
MW5-08	10/22/2013	588.26	586.75	578.75	--	4.54	--	--	583.72	583.72
MW5-08	11/21/2013	588.26	586.75	578.75	--	3.61	--	--	584.65	584.65
MW5-08	12/11/2013	588.26	586.75	578.75	--	4.36	--	--	583.90	583.90
MW5-08	1/15/2014	588.26	586.75	578.75	--	0.73	--	--	587.53	587.53
MW5-08	2/26/2014	588.26	586.75	578.75	--	3.00	--	--	585.26	585.26
MW5-08	3/25/2014	588.26	586.75	578.75	--	2.50	--	--	585.76	585.76
MW5-08	5/5/2014	588.26	586.75	578.75	--	3.17	--	--	585.09	585.09
MW5-08	9/19/2014	588.26	586.75	578.75	--	2.71	--	--	585.55	585.55
MW5-08	12/11/2014	587.11	586.75	578.75	--	3.71	--	--	583.40	583.40
MW5-08	3/9/2015	587.11	586.75	578.75	--	0.58	--	--	586.53	586.53
MW5-08	6/1/2015	587.11	586.75	578.75	--	0.70	--	--	586.41	586.41
MW5-08	8/5/2015	587.11	586.75	578.75	--	3.22	--	--	583.89	583.89
MW5-08	1/8/2016	587.11	586.75	578.75	--	3.45	--	--	583.66	583.66
MW5-08	3/18/2016	587.11	586.75	578.75	--	2.69	--	--	584.42	584.42

Table 1

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Well I.D.	Date	TOC Elevation (ft amsl)	Top of Screen (ft amsl) (11)	Bottom of Screen (ft amsl)(11)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW5-08	5/26/2016	587.11	586.75	578.75	--	2.98	--	--	584.13	584.13
MW5-08	8/12/2016	587.11	586.75	578.75	--	4.65	--	--	582.46	582.46
MW5-08	12/9/2016	587.11	586.75	578.75	--	3.21	--	--	583.90	583.90
MW5-08	2/27/2017	587.11	586.75	578.75	--	2.94	--	--	584.17	584.17
MW5-08	6/19/2017	587.11	586.75	578.75	--	3.04	--	--	584.07	584.07
MW5-08	9/13/2017	587.11	586.75	578.75	--	4.12	--	--	582.99	582.99
MW5-08	11/16/2017	587.11	586.75	578.75	--	3.54	--	--	583.57	583.57
MW5-08	3/22/2018	587.11	586.75	578.75	--	2.78	--	--	584.33	584.33
MW5-08	5/17/2018	587.11	586.75	578.75	(1)	(1)	(1)	(1)	(1)	(1)
MW5-08	9/19/2018	587.11	586.75	578.75	--	4.40	--	--	582.71	582.71
MW5-08	11/29/2018	587.11	586.75	578.75	--	1.98	--	--	585.13	585.13
MW5-08	3/21/2019	587.11	586.75	578.75	--	2.40	--	--	584.71	584.71
MW5-08	6/5/2019	587.11	586.75	578.75	--	1.67	--	--	585.44	585.44
MW5-08	9/9/2019	587.11	586.75	578.75	--	4.12	--	--	582.99	582.99
MW5-08	11/26/2019	587.11	586.75	578.75	--	3.13	--	--	583.98	583.98
MW5-08	6/4/2020	587.12	586.75	578.75	--	2.30	--	--	584.82	584.82
MW5-08	9/23/2020	587.12	586.75	578.75	--	2.42	--	--	584.70	584.70
MW7-10	4/24/2013	592.21	587.25	572.25	8.25	10.42	2.17	583.96	581.79	583.75
MW7-10	5/23/2013	592.21	587.25	572.25	9.05	10.61	1.56	583.16	581.60	583.01
MW7-10	6/20/2013	592.21	587.25	572.25	8.39	10.55	2.16	583.82	581.66	583.61
MW7-10	7/25/2013	592.21	587.25	572.25	--	10.30	trace	--	581.91	581.91
MW7-10	8/29/2013	592.21	587.25	572.25	--	11.44	trace	--	580.77	580.77
MW7-10	9/27/2013	592.21	587.25	572.25	10.61	11.02	0.41	581.60	581.19	581.56
MW7-10	10/22/2013	592.21	587.25	572.25	10.77	11.15	0.38	581.44	581.06	581.41
MW7-10	11/21/2013	592.21	587.25	572.25	--	11.92	trace	--	580.29	580.29
MW7-10	12/11/2013	592.21	587.25	572.25	--	11.57	trace	--	580.64	580.64
MW7-10	1/15/2014	592.21	587.25	572.25	11.22	11.37	0.15	580.99	580.84	580.98
MW7-10	2/26/2014	592.21	587.25	572.25	10.38	10.41	0.03	581.83	581.80	581.83
MW7-10	3/25/2014	592.21	587.25	572.25	9.36	9.78	0.42	582.85	582.43	582.81
MW7-10	5/5/2014	592.21	587.25	572.25	9.14	10.14	1.00	583.07	582.07	582.97
MW7-10	9/19/2014	592.21	587.25	572.25	7.77	10.98	3.21	584.44	581.23	584.12
MW7-10	12/11/2014	591.01	587.25	572.25	9.00	10.98	1.98	582.01	580.03	581.81
MW7-10	3/9/2015	591.01	587.25	572.25	10.08	11.43	1.35	580.93	579.58	580.80
MW7-10	6/1/2015	591.01	587.25	572.25	8.78	10.40	1.62	582.23	580.61	582.07
MW7-10	8/5/2015	591.01	587.25	572.25	8.83	10.86	2.03	582.18	580.15	581.98
MW7-10	1/8/2016	591.01	587.25	572.25	9.06	10.41	1.35	581.95	580.60	581.82
MW7-10	3/18/2016	591.01	587.25	572.25	8.13	10.07	1.94	582.88	580.94	582.69
MW7-10	5/26/2016	591.01	587.25	572.25	8.21	11.35	3.14	582.80	579.66	582.49
MW7-10	8/12/2016	591.01	587.25	572.25	9.82	11.06	1.24	581.19	579.95	581.07
MW7-10	12/9/2016	591.01	587.25	572.25	9.02	12.07	3.05	581.99	578.94	581.69
MW7-10	2/27/2017	591.01	587.25	572.25	8.10	10.62	2.52	582.91	580.39	582.66
MW7-10	6/19/2017	591.01	587.25	572.25	8.22	11.35	3.13	582.79	579.66	582.48
MW7-10	9/13/2017	591.01	587.25	572.25	9.39	11.61	2.22	581.62	579.40	581.40
MW7-10	11/16/2017	591.01	587.25	572.25	9.65	12.71	3.06	581.36	578.30	581.05
MW7-10	3/22/2018	591.01	587.25	572.25	8.02	10.32	2.30	582.99	580.69	582.76
MW7-10	5/17/2018	591.01	587.25	572.25	5.76	10.03	4.27	585.25	580.98	584.82
MW7-10	9/19/2018	591.01	587.25	572.25	9.75	11.13	1.38	581.26	579.88	581.12
MW7-10	11/29/2018	591.01	587.25	572.25	7.15	10.36	3.21	583.86	580.65	583.54
MW7-10	3/21/2019	591.01	587.25	572.25	7.54	12.98	5.44	583.47	578.03	582.93
MW7-10	6/5/2019	591.01	587.25	572.25	6.38	11.50	5.12	584.63	579.51	584.12
MW7-10	9/9/2019	591.01	587.25	572.25	9.38	10.98	1.60	581.63	580.03	581.47
MW7-10	11/26/2019	591.01	587.25	572.25	8.81	10.78	1.97	582.20	580.23	582.00
MW7-10	6/4/2020	591.35	587.25	572.25	7.37	11.15	3.78	583.98	580.20	583.60
MW7-10	9/23/2020	591.35	587.25	572.25	7.28	11.06	3.78	584.07	580.29	583.69
MW8-10	4/24/2013	592.24	586.37	571.37	--	8.68	--	--	583.56	583.56
MW8-10	5/23/2013	592.24	586.37	571.37	--	9.39	--	--	582.85	582.85

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Well I.D.	Date	TOC Elevation (ft amsl)	Top of Screen (ft amsl) (11)	Bottom of Screen (ft amsl)(11)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW8-10	6/20/2013	592.24	586.37	571.37	--	8.74	--	--	583.50	583.50
MW8-10	7/25/2013	592.24	586.37	571.37	--	9.08	--	--	583.16	583.16
MW8-10	8/29/2013	592.24	586.37	571.37	--	11.13	--	--	581.11	581.11
MW8-10	9/27/2013	592.24	586.37	571.37	--	10.82	--	--	581.42	581.42
MW8-10	10/22/2013	592.24	586.37	571.37	--	11.00	--	--	581.24	581.24
MW8-10	11/21/2013	592.24	586.37	571.37	--	12.04	--	--	580.20	580.20
MW8-10	12/11/2013	592.24	586.37	571.37	--	11.67	--	--	580.57	580.57
MW8-10	1/15/2014	592.24	586.37	571.37	--	11.35	--	--	580.89	580.89
MW8-10	2/26/2014	592.24	586.37	571.37	--	10.54	--	--	581.70	581.70
MW8-10	3/25/2014	592.24	586.37	571.37	--	9.51	--	--	582.73	582.73
MW8-10	5/5/2014	592.24	586.37	571.37	--	9.33	--	--	582.91	582.91
MW8-10	9/19/2014	592.24	586.37	571.37	--	8.20	--	--	584.04	584.04
MW8-10	12/11/2014	591.18	586.37	571.37	--	9.27	--	--	581.91	581.91
MW8-10	3/9/2015	591.18	586.37	571.37	--	10.33	--	--	580.85	580.85
MW8-10	6/1/2015	591.18	586.37	571.37	--	9.10	--	--	582.08	582.08
MW8-10	8/5/2015	591.18	586.37	571.37	--	9.10	--	--	582.08	582.08
MW8-10	1/8/2016	591.18	586.37	571.37	--	9.01	--	--	582.17	582.17
MW8-10	3/18/2016	591.18	586.37	571.37	--	8.28	--	--	582.90	582.90
MW8-10	5/26/2016	591.18	586.37	571.37	--	8.54	--	--	582.64	582.64
MW8-10	8/12/2016	591.18	586.37	571.37	--	9.99	--	--	581.19	581.19
MW8-10	12/9/2016	591.18	586.37	571.37	--	8.90	--	--	582.28	582.28
MW8-10	2/27/2017	591.18	586.37	571.37	--	8.42	--	--	582.76	582.76
MW8-10	6/19/2017	591.18	586.37	571.37	--	8.33	--	--	582.85	582.85
MW8-10	9/13/2017	591.18	586.37	571.37	--	9.34	--	--	581.84	581.84
MW8-10	11/16/2017	591.18	586.37	571.37	--	9.56	--	--	581.62	581.62
MW8-10	3/22/2018	591.18	586.37	571.37	--	8.06	--	--	583.12	583.12
MW8-10	5/17/2018	591.18	586.37	571.37	--	6.00	--	--	585.18	585.18
MW8-10	9/19/2018	591.18	586.37	571.37	--	9.73	--	--	581.45	581.45
MW8-10	11/29/2018	591.18	586.37	571.37	--	7.35	--	--	583.83	583.83
MW8-10	3/21/2019	591.18	586.37	571.37	--	7.76	--	--	583.42	583.42
MW8-10	6/5/2019	591.18	586.37	571.37	--	6.67	--	--	584.51	584.51
MW8-10	9/9/2019	591.18	586.37	571.37	--	9.38	--	--	581.80	581.80
MW8-10	11/26/2019	591.18	586.37	571.37	--	8.87	--	--	582.31	582.31
MW8-10	6/4/2020	591.13	586.37	571.37	--	7.55	--	--	583.58	583.58
MW8-10	9/23/2020	591.13	586.37	571.37	--	7.41	--	--	583.72	583.72
MW9-10	4/24/2013	591.79	587.03	572.03	--	8.08	--	--	583.71	583.71
MW9-10	5/23/2013	591.79	587.03	572.03	--	9.20	--	--	582.59	582.59
MW9-10	6/20/2013	591.79	587.03	572.03	--	8.47	--	--	583.32	583.32
MW9-10	7/25/2013	591.79	587.03	572.03	--	7.78	--	--	584.01	584.01
MW9-10	8/29/2013	591.79	587.03	572.03	--	10.09	--	--	581.70	581.70
MW9-10	9/27/2013	591.79	587.03	572.03	--	10.52	--	--	581.27	581.27
MW9-10	10/22/2013	591.79	587.03	572.03	--	11.26	--	--	580.53	580.53
MW9-10	11/21/2013	591.79	587.03	572.03	--	11.35	--	--	580.44	580.44
MW9-10	12/11/2013	591.79	587.03	572.03	--	11.12	--	--	580.67	580.67
MW9-10	1/15/2014	591.79	587.03	572.03	--	9.92	--	--	581.87	581.87
MW9-10	2/26/2014	591.79	587.03	572.03	--	10.08	--	--	581.71	581.71
MW9-10	3/25/2014	591.79	587.03	572.03	--	9.15	--	--	582.64	582.64
MW9-10	5/5/2014	591.79	587.03	572.03	--	9.07	--	--	582.72	582.72
MW9-10	9/19/2014	591.79	587.03	572.03	--	8.09	--	--	583.70	583.70
MW9-10	12/11/2014	590.43	587.03	572.03	--	9.12	--	--	581.31	581.31
MW9-10	3/9/2015	590.43	587.03	572.03	--	9.94	--	--	580.49	580.49
MW9-10	6/1/2015	590.43	587.03	572.03	--	8.39	--	--	582.04	582.04
MW9-10	8/5/2015	590.43	587.03	572.03	--	8.87	--	--	581.56	581.56
MW9-10	1/8/2016	590.43	587.03	572.03	--	9.05	--	--	581.38	581.38
MW9-10	3/18/2016	590.43	587.03	572.03	--	8.11	--	--	582.32	582.32
MW9-10	5/26/2016	590.43	587.03	572.03	--	8.48	--	--	581.95	581.95

Table 1

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Well I.D.	Date	TOC Elevation (ft amsl)	Top of Screen (ft amsl) (11)	Bottom of Screen (ft amsl)(11)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW9-10	8/12/2016	590.43	587.03	572.03	--	9.81	--	--	580.62	580.62
MW9-10	12/9/2016	590.43	587.03	572.03	--	8.71	--	--	581.72	581.72
MW9-10	2/27/2017	590.43	587.03	572.03	--	8.24	--	--	582.19	582.19
MW9-10	6/19/2017	590.43	587.03	572.03	--	8.21	--	--	582.22	582.22
MW9-10	9/13/2017	590.43	587.03	572.03	--	9.22	--	--	581.21	581.21
MW9-10	11/16/2017	590.43	587.03	572.03	--	9.33	--	--	581.10	581.10
MW9-10	3/22/2018	590.43	587.03	572.03	--	7.81	--	--	582.62	582.62
MW9-10	5/17/2018	590.43	587.03	572.03	--	5.77	--	--	584.66	584.66
MW9-10	9/19/2018	590.43	587.03	572.03	--	9.47	--	--	580.96	580.96
MW9-10	11/29/2018	590.43	587.03	572.03	--	7.09	--	--	583.34	583.34
MW9-10	3/21/2019	590.43	587.03	572.03	--	7.75	--	--	582.68	582.68
MW9-10	6/5/2019	590.43	587.03	572.03	--	6.65	--	--	583.78	583.78
MW9-10	9/9/2019	590.43	587.03	572.03	--	9.19	--	--	581.24	581.24
MW9-10	11/26/2019	590.43	587.03	572.03	--	8.56	--	--	581.87	581.87
MW9-10	6/4/2020	590.63	587.03	572.03	--	7.55	--	--	583.08	583.08
MW9-10	9/23/2020	590.63	587.03	572.03	--	7.39	--	--	583.24	583.24
MW10-10	4/24/2013	589.66	585.15	570.15	5.99	6.06	0.07	583.67	583.60	583.66
MW10-10	5/23/2013	589.66	585.15	570.15	7.10	8.04	0.94	582.56	581.62	582.47
MW10-10	6/20/2013	589.66	585.15	570.15	6.31	6.72	0.41	583.35	582.94	583.31
MW10-10	7/25/2013	589.66	585.15	570.15	5.62	6.24	0.62	584.04	583.42	583.98
MW10-10	8/29/2013	589.66	585.15	570.15	7.84	8.88	1.04	581.82	580.78	581.72
MW10-10	9/27/2013	589.66	585.15	570.15	8.42	8.47	0.05	581.24	581.19	581.23
MW10-10	10/22/2013	589.66	585.15	570.15	--	9.89	trace	--	579.77	579.77
MW10-10	11/21/2013	589.66	585.15	570.15	9.07	9.64	0.57	580.59	580.02	580.53
MW10-10	12/11/2013	589.66	585.15	570.15	8.98	9.45	0.47	580.68	580.21	580.63
MW10-10	1/15/2014	589.66	585.15	570.15	7.76	8.11	0.35	581.90	581.55	581.86
MW10-10	2/26/2014	589.66	585.15	570.15	(3)	(3)	(3)	(3)	(3)	(3)
MW10-10	3/25/2014	589.66	585.15	570.15	--	7.07	--	--	582.59	582.59
MW10-10	5/5/2014	589.66	585.15	570.15	--	7.01	--	--	582.65	582.65
MW10-10	9/19/2014	589.66	585.15	570.15	5.95	6.04	0.09	583.71	583.62	583.70
MW10-10	12/11/2014	588.52	585.15	570.15	7.03	7.15	0.12	581.49	581.37	581.48
MW10-10	3/9/2015	588.52	585.15	570.15	7.95	8.50	0.55	580.57	580.02	580.52
MW10-10	6/1/2015	588.52	585.15	570.15	6.03	6.12	0.09	582.49	582.40	582.48
MW10-10	8/5/2015	588.52	585.15	570.15	6.85	7.32	0.47	581.67	581.20	581.63
MW10-10	1/8/2016	588.52	585.15	570.15	6.98	6.98	0.00	581.54	581.54	581.54
MW10-10	3/18/2016	588.52	585.15	570.15	--	5.25	--	--	583.27	583.27
MW10-10	5/26/2016	588.52	585.15	570.15	6.39	6.49	0.10	582.13	582.03	582.12
MW10-10	8/12/2016	588.52	585.15	570.15	7.58	8.41	0.83	580.94	580.11	580.86
MW10-10	12/9/2016	588.52	585.15	570.15	6.63	6.91	0.28	581.89	581.61	581.86
MW10-10	2/27/2017	588.52	585.15	570.15	6.15	6.28	0.13	582.37	582.24	582.36
MW10-10	6/19/2017	588.52	585.15	570.15	6.10	6.79	0.69	582.42	581.73	582.35
MW10-10	9/13/2017	588.52	585.15	570.15	7.02	7.49	0.47	581.50	581.03	581.46
MW10-10	11/16/2017	588.52	585.15	570.15	7.00	7.46	0.46	581.52	581.06	581.48
MW10-10	3/22/2018	588.52	585.15	570.15	5.75	5.88	0.13	582.77	582.64	582.76
MW10-10	5/17/2018	588.52	585.15	570.15	2.60	2.61	0.01	585.92	585.91	585.92
MW10-10	9/19/2018	588.52	585.15	570.15	7.31	8.12	0.81	581.21	580.40	581.13
MW10-10	11/29/2018	588.52	585.15	570.15	--	3.55	--	--	584.97	584.97
MW10-10	3/21/2019	588.52	585.15	570.15	--	4.60	--	--	583.92	583.92
MW10-10	6/5/2019	588.52	585.15	570.15	--	4.60	--	--	583.92	583.92
MW10-10	9/9/2019	588.52	585.15	570.15	7.12	7.22	0.10	581.40	581.30	581.39
MW10-10	11/26/2019	588.52	585.15	570.15	--	4.73	--	--	583.79	583.79
MW10-10	6/4/2020	588.46	585.15	570.15	--	5.44	--	--	583.02	583.02
MW10-10	9/23/2020	588.46	585.15	570.15	--	5.31	--	--	583.15	583.15
MW13-12	4/24/2013	587.95	585.34	569.34	--	4.27	--	--	583.68	583.68
MW13-12	5/23/2013	587.95	585.34	569.34	--	5.21	--	--	582.74	582.74
MW13-12	6/20/2013	587.95	585.34	569.34	--	4.61	--	--	583.34	583.34

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MW13-12	7/25/2013	587.95	585.34	569.34	--	3.82	--	--	584.13	584.13
MW13-12	8/29/2013	587.95	585.34	569.34	--	6.05	--	--	581.90	581.90
MW13-12	9/27/2013	587.95	585.34	569.34	--	6.66	--	--	581.29	581.29
MW13-12	10/22/2013	587.95	585.34	569.34	--	7.25	--	--	580.70	580.70
MW13-12	11/21/2013	587.95	585.34	569.34	--	7.31	--	--	580.64	580.64
MW13-12	12/11/2013	587.95	585.34	569.34	--	7.21	--	--	580.74	580.74
MW13-12	1/15/2014	587.95	585.34	569.34	--	5.91	--	--	582.04	582.04
MW13-12	2/26/2014	587.95	585.34	569.34	(3)	(3)	(3)	(3)	(3)	(3)
MW13-12	3/25/2014	587.95	585.34	569.34	--	5.33	--	--	582.62	582.62
MW13-12	5/5/2014	587.95	585.34	569.34	--	5.22	--	--	582.73	582.73
MW13-12	9/19/2014	587.95	585.34	569.34	--	4.14	--	--	583.81	583.81
MW13-12	12/11/2014	586.78	585.34	569.34	--	5.37	--	--	581.41	581.41
MW13-12	3/9/2015	586.78	585.34	569.34	--	6.33	--	--	580.45	580.45
MW13-12	6/1/2015	586.78	585.34	569.34	--	1.41	--	--	585.37	585.37
MW13-12	8/5/2015	586.78	585.34	569.34	--	3.05	--	--	583.73	583.73
MW13-12	1/8/2016	586.78	585.34	569.34	--	4.32	--	--	582.46	582.46
MW13-12	3/18/2016	586.78	585.34	569.34	--	1.10	--	--	585.68	585.68
MW13-12	5/26/2016	586.78	585.34	569.34	--	4.59	--	--	582.19	582.19
MW13-12	8/12/2016	586.78	585.34	569.34	--	5.92	--	--	580.86	580.86
MW13-12	12/9/2016	586.78	585.34	569.34	--	3.11	--	--	583.67	583.67
MW13-12	2/27/2017	586.78	585.34	569.34	--	1.85	--	--	584.93	584.93
MW13-12	6/19/2017	586.78	585.34	569.34	--	4.05	--	--	582.73	582.73
MW13-12	9/13/2017	586.78	585.34	569.34	--	5.31	--	--	581.47	581.47
MW13-12	11/16/2017	586.78	585.34	569.34	(5)	(5)	(5)	(5)	(5)	(5)
MW13-12	3/22/2018	586.78	585.34	569.34	--	3.62	--	--	583.16	583.16
MW13-12	5/17/2018	586.78	585.34	569.34	--	1.47	--	--	585.31	585.31
MW13-12	9/19/2018	586.78	585.34	569.34	--	5.45	--	--	581.33	581.33
MW13-12	11/29/2018	586.78	585.34	569.34	--	2.93	--	--	583.85	583.85
MW13-12	3/21/2019	586.78	585.34	569.34	--	3.56	--	--	583.22	583.22
MW13-12	6/5/2019	586.78	585.34	569.34	--	2.22	--	--	584.56	584.56
MW13-12	9/9/2019	586.78	585.34	569.34	--	4.94	--	--	581.84	581.84
MW13-12	11/26/2019	586.78	585.34	569.34	(5)	(5)	(5)	(5)	(5)	(5)
MW13-12	6/4/2020	586.59	585.34	569.34	--	3.35	--	--	583.24	583.24
MW13-12	9/23/2020	586.59	585.34	569.34	--	3.90	--	--	582.69	582.69
MW14-12	4/24/2013	588.11	585.28	569.28	--	4.42	--	--	583.69	583.69
MW14-12	5/23/2013	588.11	585.28	569.28	--	5.31	--	--	582.80	582.80
MW14-12	6/20/2013	588.11	585.28	569.28	--	4.76	--	--	583.35	583.35
MW14-12	7/25/2013	588.11	585.28	569.28	--	4.20	--	--	583.91	583.91
MW14-12	8/29/2013	588.11	585.28	569.28	--	6.16	--	--	581.95	581.95
MW14-12	9/27/2013	588.11	585.28	569.28	--	6.82	--	--	581.29	581.29
MW14-12	10/22/2013	588.11	585.28	569.28	--	7.33	--	--	580.78	580.78
MW14-12	11/21/2013	588.11	585.28	569.28	--	7.42	--	--	580.69	580.69
MW14-12	12/11/2013	588.11	585.28	569.28	--	7.39	--	--	580.72	580.72
MW14-12	1/15/2014	588.11	585.28	569.28	--	5.23	--	--	582.88	582.88
MW14-12	2/26/2014	588.11	585.28	569.28	(3)	(3)	(3)	(3)	(3)	(3)
MW14-12	3/25/2014	588.11	585.28	569.28	--	5.35	--	--	582.76	582.76
MW14-12	5/5/2014	588.11	585.28	569.28	--	5.22	--	--	582.89	582.89
MW14-12	9/19/2014	588.11	585.28	569.28	--	3.94	--	--	584.17	584.17
MW14-12	12/11/2014	586.81	585.28	569.28	--	5.32	--	--	581.49	581.49
MW14-12	3/9/2015	586.81	585.28	569.28	(4)	(4)	(4)	(4)	(4)	(4)
MW14-12	6/1/2015	586.81	585.28	569.28	--	4.35	--	--	582.46	582.46
MW14-12	8/5/2015	586.81	585.28	569.28	--	4.98	--	--	581.83	581.83
MW14-12	1/8/2016	586.81	585.28	569.28	--	4.67	--	--	582.14	582.14
MW14-12	3/18/2016	586.81	585.28	569.28	--	3.40	--	--	583.41	583.41
MW14-12	5/26/2016	586.81	585.28	569.28	--	3.90	--	--	582.91	582.91
MW14-12	8/12/2016	586.81	585.28	569.28	--	5.88	--	--	580.93	580.93

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Well I.D.	Date	TOC Elevation (ft amsl)	Top of Screen (ft amsl) (11)	Bottom of Screen (ft amsl)(11)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW14-12	12/9/2016	586.81	585.28	569.28	--	4.78	--	--	582.03	582.03
MW14-12	2/27/2017	586.81	585.28	569.28	--	3.60	--	--	583.21	583.21
MW14-12	6/19/2017	586.81	585.28	569.28	--	3.58	--	--	583.23	583.23
MW14-12	9/13/2017	586.81	585.28	569.28	--	5.32	--	--	581.49	581.49
MW14-12	11/16/2017	586.81	585.28	569.28	--	5.45	--	--	581.36	581.36
MW14-12	3/22/2018	586.81	585.28	569.28	--	3.42	--	--	583.39	583.39
MW14-12	5/17/2018	586.81	585.28	569.28	--	2.11	--	--	584.70	584.70
MW14-12	9/19/2018	586.81	585.28	569.28	--	5.50	--	--	581.31	581.31
MW14-12	11/29/2018	586.81	585.28	569.28	(6)	(6)	(6)	(6)	(6)	(6)
MW14-12	3/21/2019	586.81	585.28	569.28	(5)	(5)	(5)	(5)	(5)	(5)
MW14-12	6/5/2019	586.81	585.28	569.28	--	2.25	--	--	584.56	584.56
MW14-12	9/9/2019	586.81	585.28	569.28	--	5.05	--	--	581.76	581.76
MW14-12	11/26/2019	586.81	585.28	569.28	(5)	(5)	(5)	(5)	(5)	(5)
MW14-12	6/4/2020	586.82	585.28	569.28	--	3.12	--	--	583.70	583.70
MW14-12	9/23/2020	586.82	585.28	569.28	--	3.05	--	--	583.77	583.77
MW15-12	4/24/2013	588.75	582.04	570.04	--	6.90	--	--	581.85	581.85
MW15-12	5/23/2013	588.75	582.04	570.04	--	3.87	--	--	584.88	584.88
MW15-12	6/20/2013	588.75	582.04	570.04	--	4.32	--	--	584.43	584.43
MW15-12	7/25/2013	588.75	582.04	570.04	--	3.71	--	--	585.04	585.04
MW15-12	8/29/2013	588.75	582.04	570.04	--	4.34	--	--	584.41	584.41
MW15-12	9/27/2013	588.75	582.04	570.04	--	5.26	--	--	583.49	583.49
MW15-12	10/22/2013	588.75	582.04	570.04	--	5.67	--	--	583.08	583.08
MW15-12	11/21/2013	588.75	582.04	570.04	--	6.17	--	--	582.58	582.58
MW15-12	12/11/2013	588.75	582.04	570.04	--	6.41	--	--	582.34	582.34
MW15-12	1/15/2014	588.75	582.04	570.04	--	5.98	--	--	582.77	582.77
MW15-12	2/26/2014	588.75	582.04	570.04	(3)	(3)	(3)	(3)	(3)	(3)
MW15-12	3/25/2014	588.75	582.04	570.04	--	5.48	--	--	583.27	583.27
MW15-12	5/5/2014	588.75	582.04	570.04	--	5.11	--	--	583.64	583.64
MW15-12	9/19/2014	588.75	582.04	570.04	--	3.97	--	--	584.78	584.78
MW15-12	12/11/2014	587.26	582.04	570.04	--	4.67	--	--	582.59	582.59
MW15-12	3/9/2015	587.26	582.04	570.04	(4)	(4)	(4)	(4)	(4)	(4)
MW15-12	6/1/2015	587.26	582.04	570.04	--	4.61	--	--	582.65	582.65
MW15-12	8/5/2015	587.26	582.04	570.04	--	4.60	--	--	582.66	582.66
MW15-12	1/8/2016	587.26	582.04	570.04	--	4.92	--	--	582.34	582.34
MW15-12	3/18/2016	587.26	582.04	570.04	--	3.98	--	--	583.28	583.28
MW15-12	5/26/2016	587.26	582.04	570.04	--	3.59	--	--	583.67	583.67
MW15-12	8/12/2016	587.26	582.04	570.04	--	5.10	--	--	582.16	582.16
MW15-12	12/9/2016	587.26	582.04	570.04	--	3.81	--	--	583.45	583.45
MW15-12	2/27/2017	587.26	582.04	570.04	--	3.55	--	--	583.71	583.71
MW15-12	6/19/2017	587.26	582.04	570.04	--	3.32	--	--	583.94	583.94
MW15-12	9/13/2017	587.26	582.04	570.04	--	4.47	--	--	582.79	582.79
MW15-12	11/16/2017	587.26	582.04	570.04	--	4.98	--	--	582.28	582.28
MW15-12	3/22/2018	587.26	582.04	570.04	--	3.33	--	--	583.93	583.93
MW15-12	5/17/2018	587.26	582.04	570.04	--	2.22	--	--	585.04	585.04
MW15-12	9/19/2018	587.26	582.04	570.04	--	4.44	--	--	582.82	582.82
MW15-12	11/29/2018	587.26	582.04	570.04	--	2.93	--	--	584.33	584.33
MW15-12	3/21/2019	587.26	582.04	570.04	(5)	(5)	(5)	(5)	(5)	(5)
MW15-12	6/5/2019	587.26	582.04	570.04	--	2.87	--	--	584.39	584.39
MW15-12	9/9/2019	587.26	582.04	570.04	--	4.21	--	--	583.05	583.05
MW15-12	11/26/2019	587.26	582.04	570.04	--	3.82	--	--	583.44	583.44
MW15-12	6/4/2020	587.38	582.04	570.04	--	3.10	--	--	584.28	584.28
MW15-12	9/23/2020	587.38	582.04	570.04	--	2.84	--	--	584.54	584.54

Table 1

Hydraulic Measurements
Annual Progress Report #1 (2020)
Former Dearborn Refining Site
Dearborn, Michigan

Well I.D.	Date	TOC Elevation (ft amsl)	Top of Screen (ft amsl) (11)	Bottom of Screen (ft amsl)(11)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)

Notes:

--	Not present
BTOC	Below top of casing
DTP	Depth to product
DTW	Depth to water
ft	Feet
ft amsl	Feet above mean sea level
GW	Groundwater
LNAPL	Light Non-Aqueous Phase Liquid
TOC	Top of casing
trace	Trace LNAPL present on oil/water interface probe
(1)	Damaged Well
(2)	The measuring point elevation (top of casing) needs to be re-verified
(3)	Unable to access due to snow and ice
(4)	Unable to measure level - area flooded
(5)	Full with water
(6)	Unable to access due to obstructing object
(7)	Depth to water measured from ground surface. Stick up length was added
(8)	Water level is estimated, water level is too high to obtain an accurate measurement
(9)	Depth to water/LNAPL was measured from bottom of riser due to damage
(10)	Debris present. Unable to locate
(11)	Screen locations were obtained from the Construction Certification Report, Removal Action Implementation, March 2013
(12)	Screen depth is above the water table.

Table 2

LNAPL Thickness (Feet) Observations
Annual Progress Report #1 (2020)
Former Dearborn Refining Site
Dearborn, Michigan

Well ID	EX-34	MW1-08	MW2-08	MW3R-08	MW4-08	MW5-08	MW7-10	MW8-10	MW9-10	MW10-10	MW13-12	MW14-12	MW15-12
April 24, 2013	--	--	--	trace	--	--	2.17	--	--	0.07	--	--	--
May 23, 2013	--	--	--	trace	--	--	1.56	--	--	0.94	--	--	--
June 20, 2013	--	--	--	--	--	--	2.16	--	--	0.41	--	--	--
July 25, 2013	--	--	--	trace	trace	--	trace	--	--	0.62	--	--	--
August 29, 2013	--	--	--	trace	--	--	trace	--	--	1.04	--	--	--
September 27, 2013	--	--	--	--	--	--	0.41	--	--	0.05	--	--	--
October 22, 2013	--	--	--	trace	--	--	0.38	--	--	trace	--	--	--
November 21, 2013	--	--	--	trace	--	--	trace	--	--	0.57	--	--	--
December 11, 2013	--	--	--	trace	--	--	trace	--	--	0.47	--	--	--
January 15, 2014	--	--	--	--	--	--	0.15	--	--	0.35	--	--	--
February 26, 2014	--	--	--	--	--	--	0.03	--	--	--	--	--	--
March 25, 2014	--	--	--	--	--	--	0.42	--	--	--	--	--	--
May 5, 2014	--	--	(1)	--	--	--	1	--	--	--	--	--	--
September 19, 2014	--	--	--	--	--	--	3.21	--	--	0.09	--	--	--
December 11, 2014	--	--	--	trace	--	--	1.98	--	--	0.12	--	--	--
March 9, 2015	--	--	--	--	--	--	1.35	--	--	0.55	--	(2)	(2)
June 1, 2015	--	--	--	--	--	--	1.62	--	--	0.09	--	--	--
August 5, 2015	--	--	--	--	--	--	2.03	--	--	0.47	--	--	--
January 8, 2016	--	--	--	--	--	--	1.35	--	--	trace	--	--	--
March 18, 2016	--	--	--	--	--	--	1.94	--	--	--	--	--	--
May 26, 2016	--	--	--	--	--	--	3.14	--	--	0.1	--	--	--
August 12, 2016	--	--	--	--	--	--	1.24	--	--	0.83	--	--	--
December 9, 2016	--	--	--	--	--	--	3.05	--	--	0.28	--	--	--
February 27, 2017	--	--	--	--	--	--	2.52	--	--	0.13	--	--	--
June 19, 2017	--	--	--	--	--	--	3.13	--	--	0.69	--	--	--
September 13, 2017	--	--	--	--	--	--	2.22	--	--	0.47	--	--	--
November 16, 2017	--	--	--	--	--	--	3.06	--	--	0.46	(3)	--	--
March 22, 2018	--	--	--	--	--	--	2.3	--	--	0.13	--	--	--
May 17, 2018	--	--	--	--	--	--	4.27	--	--	0.01	--	--	--
September 19, 2018	--	--	--	--	--	--	1.38	--	--	0.81	--	--	--
November 29, 2018	--	--	--	--	(4)	--	3.21	--	--	--	--	(5)	--
March 21, 2019	--	--	--	--	(3)	--	5.44	--	--	--	--	--	--
June 5, 2019	--	--	--	--	--	--	5.12	--	--	--	--	--	--
September 9, 2019	--	--	--	--	--	--	1.6	--	--	0.1	--	--	--
November 26, 2019	--	--	--	--	--	--	1.97	--	--	--	(3)	(3)	--
June 4, 2020	--	--	--	--	--	--	3.78	--	--	--	--	--	--
June 30, 2020	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
September 23, 2020	--	--	--	--	--	--	3.78	--	--	--	--	--	--

Notes:

LNAPL	Light Non-Aqueous Phase Liquid
--	LNAPL not present
trace	Trace LNAPL present on oil/water interface probe
NM	Not measured
(1)	Well damaged just below ground surface. Unable to collect levels.
(2)	Unable to measure level - area flooded.
(3)	Water present. Unable to collect accurate reading.
(4)	Unable to access due to snow and ice
(5)	Unable to access due to obstructing object
(6)	Unable to locate
(7)	Unable to obtain reading
(8)	Suspect reading determined to be erroneous. Error is likely due to LNAPL coating oil/water interface probe. Additional reading was collected on June 30, 2020 to evaluate result.

Table 3

Pressure Measurements
Annual Progress Report #1 (2020)
Former Dearborn Refining Site
Dearborn, Michigan

Gas Probe ID	GP1-12 (inches H_2O)	GP2-12 (inches H_2O)	GP3-12 (inches H_2O)	GP4-12 (inches H_2O)	GP5-12 (inches H_2O)	GP6-12 (inches H_2O)	GP7-12 (inches H_2O)	GP8-12 (inches H_2O)
4/24/2013	-10.38	0.00	0.00	-0.59	15.10	-41.00	0.68	0.44
5/23/2013	-0.50	0.00	0.00	-0.14	0.96	-1.39	0.00	-9.50
6/20/2013	-0.13	0.00	0.00	0.82	13.70	0.00	0.50	0.00
7/25/2013	0.00	0.00	0.00	-4.29	2.68	-0.94	0.00	0.00
8/29/2013	0.00	0.00	0.00	0.00	3.13	-5.10	0.00	0.11
9/27/2013	0.00	0.00	0.00	-0.52	0.00	1.69	0.00	-5.63
10/22/2013	0.00	0.00	0.00	-0.19	0.00	-8.56	0.00	0.00
11/20/2013	0.00	0.00	0.00	0.00	0.00	-0.47	0.00	0.00
12/11/2013	0.00	0.00	0.00	-5.60	0.00	0.00	0.00	-5.60
1/15/2014	-0.19	(1)	0.00	-0.61	-3.42	(2)	6.10	0.38
2/26/2014	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
3/24/2014	17.70	0.00	0.85	-4.54	-3.26	(3)	-5.75	0.00
5/5/2014	-3.53	0.00	0.00	-2.23	-3.01	-5.78	0.63	-0.48
8/15/2014	0.51	0.00	-0.66	-0.21	-2.83	-3.33	-1.02	0.00
9/19/2014	0.00	0.00	0.14	-1.72	-0.82	-1.09	-0.67	0.00
12/11/2014	0.00	4.45	-1.82	-6.18	0.00	-2.60	0.00	-4.46
3/9/2015	-0.02	0.00	-1.25	-3.8(4)	-2.00	0.00	0.11	-2.00
6/1/2015	-0.09	0.00	0.00	0.44	-3.30	-5.71	0.50	0.18
8/5/2015	0.00	0.00	0.00	0.00	0.00	-0.32	0.00	-0.50
11/30/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.04
1/8/2016	0.00	0.00	-0.22	-0.33	0.26	-2.78	0.00	2.20
3/18/2016	0.01	-0.02	-0.43	-0.42	-0.05	-2.00	0.00	0.12
5/26/2016	0.00	0.00	-0.34	-0.26	0.00	-8.15	0.00	-0.77
8/12/2016	0.00	0.00	0.33	0.25	0.00	0.02	0.00	-0.21
12/9/2016	0.00	0.00	-0.44	-0.16	0.00	-2.38	0.00	-6.66
2/27/2017	0.00	0.00	-3.40	0.00	-1.74	4.24	0.00	-0.15
6/19/2017	-0.05	0.01	0.14	-0.19	-1.50	-1.37	0.02	-0.32
9/13/2017	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.00
11/16/2017	0.01	0.01	0.01	0.01	0.00	-0.02	-0.01	0.01
3/22/2018	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00
5/17/2018	0.03	0.01	0.00	0.01	0.00	--	0.02	0.01
9/17/2018	0.01	0.00	0.03	-0.01	-0.01	0.01	0.00	-0.05
9/19/2018	0.00	0.00	0.38	0.00	0.00	0.00	-0.04	(3)
11/29/2018	0.00	0.00	1.70	0.38	0.04	(3)	(5)	1.98
3/21/2019	0.44	0.02	0.38	0.12	0.15	(5)	0.02	-0.10
6/5/2019	--	--	(5)	(5)	--	(6)	(5)	(5)
9/6/2019	0.00	0.00	0.08	-0.30	-0.01	-0.54	0.00	(7)
9/9/2019	0.00	0.00	0.05	0.00	-0.15	0.01	0.00	-0.27
11/26/2019	0.00	0.00	-0.30	3.73	-0.20	-1.00	0.00	-0.20
6/4/2020	-0.01	0.00	0.26	0.58	0.22	0.36	0.13	-0.18
9/23/2020	-0.01	0.03	0.20	0.16	0.00	-0.34	0.00	0.10

Notes:

Pressure measurements in inches of water column (H_2O)
Pressure measurements collected using a digital manometer
(1) Unable to locate due to snow and ice
(2) Unable to access due to ice
(3) Flooded. Unable to collect reading
(4) Valve was open before collecting reading
(5) Water present. Unable to collect accurate reading.
(6) Debris present. Unable to locate.
(7) Line Obstructed.

Table 4

Methane Monitoring
Annual Progress Report #1 (2020)
Former Dearborn Refining Site
Dearborn, Michigan

	4/26/2013				4/29/2013				5/7/2013				6/5/2013				8/30/2013				9/26/2013				10/23/2013				11/20/2013				12/16/2013				1/16/2014			
Location ID	**CH_4**	**CO_2**	**O_2**	**Purge Time**	**CH_4**	**CO_2**	**O_2**	**Purge Time**	**CH_4**	**CO_2**	**O_2**	**Purge Time**	**CH_4**	**CO_2**	**O_2**	**Purge Time**	**CH_4**	**CO_2**	**O_2**	**Purge Time**	**CH_4**	**CO_2**	**O_2**	**Purge Time**	**CH_4**	**CO_2**	**O_2**	**Purge Time**	**CH_4**	**CO_2**	**O_2**	**Purge Time**	**CH_4**	**CO_2**	**O_2**	**Purge Time**	**CH_4**	**CO_2**	**O_2**	**Purge Time**
	(%vol)	**(%vol)**	**(%vol)**	**(min)**	**(%vol)**	**(%vol)**	**(%vol)**	**(min)**	**(%vol)**	**(%vol)**	**(%vol)**	**(min)**	**(%vol)**	**(%vol)**	**(%vol)**	**(min)**	**(%vol)**	**(%vol)**	**(%vol)**	**(min)**	**(%vol)**	**(%vol)**	**(%vol)**	**(min)**	**(%vol)**	**(%vol)**	**(%vol)**	**(min)**	**(%vol)**	**(%vol)**	**(%vol)**	**(min)**	**(%vol)**	**(%vol)**	**(%vol)**	**(min)**	**(%vol)**	**(%vol)**	**(%vol)**	**(min)**
GP1-12	0.0	2.2	17.2	3	**nm**				**nm**				0.1	9.1	0.2	2	0.0	3.3	16.3	2	0.0	8.0	0.3	2	0.0	8.2	3.8	2	0.0	0.7	19.8	2	0.0	1.0	19.8	2	**nm**			
GP2-12	0.0	1.9	16.2	3	**nm**				**nm**				0.0	5.0	5.2	2	0.0	5.2	5.5	2	0.0	6.1	10.4	2	0.0	6.3	12.9	2	0.3	3.6	16.0	2	0.0	3.2	14.7	2	**nm**			
GP3-12	0.0	0.0	20.7	3	**nm**				**nm**				0.0	7.9	1.9	2	0.0	13.4	1.6	2	0.0	13.1	1.2	2	0.0	11.5	2.4	2	0.0	8.3	3.9	2	0.0	6.6	6.1	2	**nm**			
GP4-12	**screen flooded**				**nm**				**nm**				0.0	0.8	17.0	2	0.0	10.2	8.0	2	0.0	9.7	6.7	2	0.0	6.2	13.5	2	0.0	0.0	20.7	2	0.0	0.0	20.1	2	**nm**			
GP5-12	**screen flooded**				**nm**				**nm**				0.0	0.9	16.3	2	0.0	3.0	14.9	2	0.0	7.2	2.6	2	0.0	7.3	4.2	2	0.0	2.6	15.4	2	0.0	2.4	17.0	2	0.0	1.2	19.2	2
GP6-12	**screen flooded**				**nm**				**nm**				**8.3**	4.5	0.1	2	**nm**				**nm**				0.0	3.4	17.3	2	**nm**				**nm**				**nm**			
GP7-12	**screen flooded**				**nm**				**nm**				0.0	7.7	1.4	2	0.0	11.4	8.8	2	0.0	11.3	0.2	2	0.0	12.2	3.0	2	0.3	1.2	16.8	2	0.0	5.4	13.7	2	0.1	3.4	4.6	2
GP8-12	0.0	0.0	20.9	3	**nm**				**nm**				0.0	1.7	17.7	2	0.0	0.0	20.0	2	0.0	1.8	16.0	2	0.0	0.1	20.4	4	0.0	8.9	11.1	4	0.0	6.0	5.2	2	0.0	6.0	4.4	2
EX-34[7]	**nm**				**nm**				0.9	0.0	20.4	2	0.0	2.0	16.9	2	0.0	3.0	12.9	2	0.0	3.3	12.8	2	0.0	1.1	19.6	2	0.0	3.0	14.7	2	0.0	0.2	20.4	2	0.0	0.7	17.5	2
MW1-08	**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**			
MW2-08	**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**			
MW3R-08[7]	**nm**				0.0	0.0	20.1	3	**nm**				0.0	0.2	20.0	2	0.0	0.0	20.5	2	0.1	2.6	11.2	2	0.0	0.0	20.5	2	0.1	1.4	6.6	2	0.0	0.6	19.7	2	0.0	0.1	15.8	2
MW4-08	**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**			
MW5-08	**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**			
MW7-10[7]	**8.6**	0.1	19.1	0	**nm**				**nm**				**28.3**	1.4	11.4	2	0.0	0.0	20.9	2	**36.4**	2.6	0.2	2	**29.9**	3.2	0.8	2	**10.3**	5.0	0.8	2	**9.6**	4.9	0.7	2	0.9	3.0	6.6	2
MW8-10	**nm**				0.4	0.4	13.9	2	**nm**				0.1	1.1	16.2	2	0.3	0.4	12.5	2	0.0	0.7	11.8	2	0.1	0.8	15.1	2	0.4	0.3	2.1	2	0.0	0.3	7.0	2	0.0	0.3	15.3	2
MW9-10	**nm**				0.0	0.0	20.6	2	**nm**				0.2	1.2	16.9	2	0.0	1.5	11.1	2	0.0	2.7	0.7	2	0.0	0.1	20.0	2	0.0	1.1	16.4	2	0.0	4.0	4.3	2	0.0	0.3	18.2	2
MW10-10	0.0	0.0	21.2	0	**1.8**	0.2	18.5	3	**nm**				**38.0**	9.0	0.8	2	0.0	0.0	20.5	2	1.2	8.6	3.4	2	0.0	0.0	20.7	2	**1.9**	10.2	2.0	2	0.0	0.0	20.4	2	0.0	0.0	18.8	2
GV3-15	**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**			
GV4-15	**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**			
GV10-17	**nm**				**nm**				**nm**				**nm**				**nm**				**nm**				**nm**				**nm**				**nm**				**nm**			

Table 4

Methane Monitoring
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Former Dearborn Refining Site
Dearborn, Michigan

	2/26/2014				3/24/2014				5/5/2014				8/15/2014				9/19/2014			
Location ID	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time
	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)
GP1-12	**nm**				**nm**				0.0	5.3	2.5	2	**7.4**	7.9	0.0	2	0.6	9.3	0.0	2
GP2-12	**nm**				0.0	1.0	13.1	2	0.0	1.9	10.5	2	0.0	6.5	4.5	2	0.0	6.9	10.7	2
GP3-12	**nm**				**nm**				0.0	0.2	19.6	2	**nm**				**nm**			
GP4-12	**nm**				**nm**				**nm**				**nm**				**nm**			
GP5-12	**nm**				**nm**				0.0	5.4	2.1	2	0.0	8.8	1.4	2	0.0	8.5	3.0	2
GP6-12	**nm**				**nm**				**nm**				**nm**				**nm**			
GP7-12	**nm**				**nm**				0.0	3.9	0.7	2	**nm**				0.0	12.6	0.1	2
GP8-12	**nm**				**nm**				0.0	3.0	15.2	2	0.0	3.6	6.2	2	0.0	2.6	12.0	2
EX-34[7]	0.0	2.4	6.7	2	0.0	2.2	4.5	2	0.0	3.5	11.2	2	0.0	3.3	18.2	2	**nm**			
MW1-08	**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**			
MW2-08	**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**			
MW3R-08[7]	0.0	0.3	14.0	2	0.0	0.1	17.5	2	0.0	1.1	13.3	2	0.0	0.2	20.8	2	0.0	0.1	20.7	2
MW4-08	**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**			
MW5-08	**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**				**nm[4]**			
MW7-10[7]	0.0	0.3	18.7	2	0.5	0.3	19.9	2	0.3	0.1	19.4	2	**9.1**	1.6	16.0	2	**18.9**	0.7	15.6	2
MW8-10	0.0	0.4	15.4	2	0.0	0.4	0.5	2	0.1	0.4	17.1	2	0.3	0.8	18.1	2	0.0	0.0	20.8	2
MW9-10	0.0	1.2	15.3	2	0.0	0.2	20.2	2	0.0	0.9	18.0	2	0.0	1.5	17.5	2	0.0	0.0	20.7	2
MW10-10	0.0	0.4	18.0	2	**13.5**	5.9	0.3	2	0.2	1.1	17.9	2	0.0	0.0	20.9	2	0.0	0.3	20.3	2
GV3-15	**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**			
GV4-15	**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**			
GV10-17	**nm**				**nm**				**nm**				**nm**				**nm**			

	12/11/2014				3/9/2015				6/1/2015				6/10/2015				6/12/2015			
Location ID	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time
	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)
GP1-12	**3.0**	5.6	0.5	2	0.2	5.1	0.0	2	**5.3**	6.0	0.0	2	**10.6**	6.0	0.0	2	**9.7**	6.8	0.0	2
GP2-12	**nm**				0.0	2.5	16.1	2	0.0	4.5	15.0	2	0.0	6.2	2.2	2	0.0	5.9	5.3	2
GP3-12	**nm**				0.0	5.3	4.1	2	0.0	9.7	5.5	2	0.0	8.4	4.9	2	0.0	9.0	5.7	2
GP4-12	**nm**				**nm**				**nm[3]**				**nm[3]**				**nm[3]**			
GP5-12	0.0	6.4	6.7	2	0.0	4.7	4.0	2	0.0	8.5	0.2	2	0.0	7.7	0.2	2	0.0	8.0	1.8	2
GP6-12	**nm**				**6.4**	5.1	0.2	2	**28.8**	7.3	0.0	2	**27.4**	7.4	0.0	2	**26.7**	7.8	0.0	2
GP7-12	0.0	10.0	5.7	2	0.0	7.0	4.5	2	0.2	9.8	1.3	2	0.0	11.8	1.5	2	0.0	12.8	2.0	2
GP8-12	**nm**				0.0	4.6	2.0	2	0.1	1.7	12.7	2	0.0	4.3	5.6	0.5	0.0	4.5	9.5	30 seconds[8]
EX-34[7]	**nm**				**nm[2]**				**nm[2]**				**nm[2]**				0.1	0.9	16.7	2
MW1-08	**nm[4]**				**nm[4]**				0.0	0.0	21.3	2	0.0	0.0	18.1	2	0.0	0.3	18.1	2
MW2-08	**nm[4]**				**nm[4]**				0.0	7.5	3.3	2	0.0	6.6	5.8	2	0.0	7.3	5.5	2
MW3R-08[7]	0.0	0.9	11.1	2	1.1	0.3	7.1	2	0.5	0.3	10.5	2	0.0	2.3	12.8	2	0.0	2.6	13.8	2
MW4-08	**nm[4]**				**nm[4]**				0.0	8.6	4.3	2	0.0	4.4	10.8	2	0.0	2.0	15.5	2
MW5-08	**nm[4]**				**nm[4]**				0.0	0.5	20.1	2	0.0	1.6	15.4	2	0.0	4.7	13.0	2
MW7-10[7]	**31.6**	3.3	7.3	2	0.7	0.0	17.4	2	**66.8**	2.9	0.3	2	**55.5**	2.0	2.8	2	**46.6**	1.7	6.4	2
MW8-10	0.5	0.6	18.1	2	0.0	0.8	17.6	2	0.0	0.5	20.0	2	0.2	0.2	17.1	2	0.1	0.2	18.0	2
MW9-10	0.0	1.9	12.4	2	0.0	2.2	3.3	2	0.0	2.1	11.0	2	0.1	1.4	11.9	2	0.0	1.4	12.7	2
MW10-10	**4.5**	4.6	14.1	2	**3.6**	2.5	0.3	2	**3.9**	1.2	3.5	2	0.0	8.0	6.0	2	0.0	9.3	5.3	2
GV3-15	**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**			
GV4-15	**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**			
GV10-17	**nm**				**nm**				**nm**				**nm**				**nm**			

Table 4

Methane Monitoring
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Former Dearborn Refining Site
Dearborn, Michigan

	8/5/2015				8/7/2015				8/27/2015				9/25/2015				11/30/2015			
Location ID	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time
	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)
GP1-12	**14.2**	7.1	0.2	2	**16.1**	6.8	0.0	2	**15.6**	7.0	0.0	2	**14.7**	7.1	0.0	2	**12.2**	4.8	0.0	2
GP2-12	0.0	8.6	6.1	2	0.0	8.1	7.7	2	0.0	7.7	10.8	2	0.0	7.8	11.1	2	0.0	4.7	14.2	2
GP3-12	0.0	13.0	3.0	2	0.0	13.6	3.1	2	0.0	14.0	3.2	2	0.0	12.5	5.3	2	0.0	6.8	6.6	2
GP4-12	0.0	13.6	5.3	2	0.0	12.9	6.4	2	0.0	10.9	7.5	2	0.0	8.4	14.5	2	0.0	3.2	12.7	2
GP5-12	0.0	9.4	2.0	2	0.0	8.8	0.8	2	0.0	9.0	3.0	2	0.0	9.0	3.0	2	0.0	8.1	0.5	2
GP6-12	**29.9**	9.5	0.5	20 seconds[8]	**32.3**	9.1	0.0	2	**33.3**	9.1	0.0	2	**32.8**	8.7	0.0	2	**20.0**	7.1	0.0	2
GP7-12	0.0	16.6	0.8	2	0.0	15.8	0.9	2	0.0	15.6	0.0	2	0.0	16.4	2.7	2	0.0	13.1	1.0	2
GP8-12	0.0	7.3	6.8	2	0.0	7.2	10.8	20 seconds[8]	0.0	5.0	3.9	30 seconds[8]	0.0	5.0	2.4	30 seconds[8]	0.1	4.3	2.3	2
EX-34[7]	0.0	3.0	16.8	2	**nm**				**nm**				**nm**				**nm**			
MW1-08	**21.2**	7.6	0.2	2	**23.9**	6.4	0.0	2	**24.3**	6.4	0.0	2	**25.7**	6.0	0.0	2	**25.7**	4.0	0.0	2
MW2-08	0.0	9.5	3.4	2	0.0	8.6	5.2	2	0.0	10.0	2.3	2	0.0	10.9	1.5	2	0.0	11.1	1.0	2
MW3R-08[7]	0.1	1.6	11.3	2	0.0	0.3	19.7	2	0.4	3.6	4.6	2	0.0	0.0	20.6	2	0.0	0.0	20.1	2
MW4-08	0.0	6.6	13.6	2	0.0	1.9	17.4	2	0.0	5.4	15.5	2	0.0	6.4	13.2	2	0.0	9.2	0.2	2
MW5-08	0.0	2.0	19.4	2	0.0	1.5	19.0	2	0.0	1.7	19.5	2	0.0	2.5	18.0	2	0.0	1.6	16.1	2
MW7-10[7]	**71.7**	2.9	0.0	2	**50.9**	2.0	4.9	2	**76.7**	0.4	0.0	2	0.0	0.0	20.6	2	0.0	0.0	20.1	2
MW8-10	0.2	0.2	18.9	2	0.1	0.1	19.8	2	0.2	0.5	19.3	2	0.0	0.7	17.5	2	0.0	1.1	16.7	2
MW9-10	0.0	1.0	16.0	2	0.0	0.7	16.9	2	0.0	1.2	17.0	2	0.0	1.1	15.3	2	0.0	2.9	2.6	2
MW10-10	**5.0**	7.0	9.2	2	**31.4**	12.0	0.0	2	**12.1**	8.6	6.9	2	0.0	5.9	14.2	2	**17.9**	1.5	1.1	2
GV3-15	**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**			
GV4-15	**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**				**nm[9]**			
GV10-17	**nm**				**nm**				**nm**				**nm**				**nm**			

	1/8/2016				3/18/2016				5/26/2016				8/12/2016				10/20/2016			
Location ID	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time
	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)
GP1-12	0.0	5.3	0.1	2	0.0	5.2	5.2	2	0.0	9.3	1.7	2	0.0	12.9	1.0	2	0.0	8.6	6.0	2
GP2-12	0.0	3.5	13.2	2	0.0	2.4	15.4	2	0.0	4.1	7.4	2	0.0	5.4	14.3	2	0.0	5.2	14.9	2
GP3-12	**nm[3]**				**nm[3]**				0.0	7.2	7.1	2	0.0	5.6	14.7	2	0.0	7.7	11.4	1
GP4-12	**nm[3]**				**nm[3]**				**nm[3]**				0.0	3.5	16.9	2	**nm[1]**			
GP5-12	0.0	6.6	1.1	2	0.0	5.6	2.1	2	0.0	6.4	1.6	2	0.0	11.4	0.0	2	0.0	8.3	3.2	2
GP6-12	**30.3**	5.6	2.4	30 seconds[8]	**nm[3]**				**53.0**	3.4	0.0	2	**21.7**	8.0	0.0	2	**56.2**	6.3	0.6	2
GP7-12	0.0	9.8	4.2	2	0.0	7.7	7.0	2	0.0	9.7	2.2	2	0.0	13.4	2.1	2	0.0	12.7	3.6	2
GP8-12	0.0	4.3	2.0	2	0.0	4.2	13.9	20 seconds[8]	0.0	6.0	11.3	30 seconds[8]	0.0	3.3	6.7	2	0.0	8.0	9.6	20 seconds
EX-34[7]	**nm**				**nm**				**nm**				0.0	0.0	20.1	2	**nm[1]**			
MW1-08	**21.0**	3.2	0.1	2	**13.8**	3.1	0.0	2	**19.8**	3.8	0.0	2	**25.1**	7.5	0.0	2	**34.4**	4.7	0.0	2
MW2-08	0.0	8.2	4.4	2	0.0	5.1	8.3	2	0.0	6.1	5.3	2	0.0	11.4	2.5	2	0.0	10.9	1.5	2
MW3R-08[7]	0.0	0.0	21.1	2	0.0	0.0	20.3	2	0.6	0.0	20.5	2	0.0	0.0	18.0	2	0.0	0.1	20.1	2
MW4-08	0.0	8.3	1.6	2	0.0	2.9	17.7	2	0.0	2.6	18.5	2	0.0	7.7	3.9	2	0.1	2.9	18.7	2
MW5-08	0.0	0.8	19.1	2	0.0	0.3	19.6	2	0.0	1.6	18.2	2	0.0	6.7	5.2	2	0.0	1.2	20.1	2
MW7-10[7]	0.0	0.0	20.6	2	0.0	0.0	20.6	2	0.0	0.0	20.5	2	**1.3**	0.1	18.9	2	0.1	0.0	21.0	2
MW8-10	0.5	0.7	16.7	2	0.0	0.0	20.6	2	0.0	0.0	20.1	2	0.0	1.2	16.7	2	0.0	0.0	21.1	2
MW9-10	0.0	1.4	6.0	2	0.8	1.0	14.8	2	0.1	0.9	17.7	2	0.3	3.2	0.6	2	0.0	0.0	21.3	2
MW10-10	**44.6**	7.5	0.0	2	0.2	0.6	1.0	2	**2.1**	4.0	1.2	2	**29.7**	14.0	0.6	2	0.0	0.2	20.1	2
GV3-15	0.0	0.0	20.0	2	0.0	0.0	21.0	2	0.0	0.2	19.5	2	0.0	0.0	20.1	2	0.0	0.0	21.4	2
GV4-15	0.0	0.7	18.9	2	0.0	0.3	20.4	2	0.0	0.0	20.2	2	0.0	0.0	20.3	2	0.0	0.0	21.4	2
GV10-17	**nm**				**nm**				**nm**				**nm**				**nm**			

Table 4

Methane Monitoring
Annual Progress Report #1 (2020)
Former Dearborn Refining Site
Dearborn, Michigan

	12/9/2016				2/27/2017				6/19/2017				9/13/2017				11/16/2017			
Location ID	CH_4	CO_2	O_2	**Purge Time**	CH_4	CO_2	O_2	**Purge Time**	CH_4	CO_2	O_2	**Purge Time**	CH_4	CO_2	O_2	**Purge Time**	CH_4	CO_2	O_2	**Purge Time**
	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)
GP1-12	0.0	5.3	13.3	2	0.0	2.8	17.1	2	0.0	8.0	8.4	1	0.0	12.1	3.9	2	0.0	6.4	9.7	2
GP2-12	0.0	3.2	18.6	2	0.0	1.8	18.8	2	0.1	4.7	16.2	2	0.0	7.9	13.0	2	0.0	3.2	16.1	2
GP3-12	0.0	0.4	20.5	0.5	**nm(3)**				**nm(3)**				**nm(3)**				0.0	4.4	15.5	2
GP4-12	0.0	0.1	20.8	2	**nm(3)**				0.0	9.3	13.0	2	0.0	6.4	17.2	2	0.0	2.8	14.9	2
GP5-12	0.0	6.2	4.7	2	0.0	3.3	11.9	2	0.0	7.1	4.5	2	0.0	10.1	0.4	2	0.0	8.1	1.3	2
GP6-12	**nm(3)**				**nm(3)**				**65.4**	4.7	1.1	2	**60.8**	5.0	0.4	2	**41.7**	4.0	0.4	2
GP7-12	0.0	5.8	12.8	2	0.0	5.8	10.3	2	0.1	9.5	7.5	2	0.0	13.9	16.9	2	0.0	11.7	5.5	2
GP8-12	0.0	0.0	20.9	2	0.0	2.5	14.8	30 seconds	0.0	5.6	14.6	30 seconds	0.0	4.0	8.8	2	0.0	0.6	19.9	2
EX-34(7)	**nm(1)**				**nm**				**nm**				0.0	0.1	21.1	1	**nm**			
MW1-08	**11.0**	1.2	13.7	2	**16.3**	1.8	3.7	2	**27.4**	4.2	4.1	3	**15.5**	2.5	13.5	2	0.0	0.1	21.8	2
MW2-08	0.0	3.7	13.6	2	0.0	4.9	4.5	2	0.0	5.5	9.9	1	0.0	11.6	5.3	2	0.0	0.4	21.2	2
MW3R-08(7)	0.0	0.0	20.8	2	0.0	0.0	20.8	2	0.0	0.0	21.1	2	0.1	0.1	20.8	2	0.0	0.4	21.6	2
MW4-08	0.0	0.1	21.1	2	0.0	1.6	19.4	2	0.3	1.2	19.2	2	0.0	3.8	19.4	2	0.0	0.1	21.0	2
MW5-08	0.0	0.0	20.9	2	0.0	0.4	20.6	2	0.0	2.8	17.1	2	0.0	2.2	20.3	2	0.0	0.8	20.2	2
MW7-10(7)	0.0	0.0	20.5	2	0.0	0.0	20.9	2	0.1	0.8	20.9	2	0.4	0.1	22.3	2	0.0	0.1	21.8	2
MW8-10	0.0	0.0	20.7	2	0.0	0.0	20.8	2	0.0	0.0	20.9	2	0.0	0.3	21.5	2	0.0	0.1	21.9	2
MW9-10	0.0	0.0	20.8	2	0.0	0.0	20.8	2	0.0	0.0	21.0	2	0.0	0.9	19.3	2	0.0	0.1	21.9	2
MW10-10	0.0	0.0	20.7	2	0.0	0.0	20.9	2	0.0	0.0	21.0	2	**63.1**	11.0	0.1	2	0.0	0.1	21.7	2
GV3-15	0.0	0.0	20.9	2	0.0	0.0	20.6	2	0.0	0.1	20.8	2	0.0	0.1	22.6	2	0.0	0.0	22.2	2
GV4-15	0.0	0.0	20.9	2	0.0	0.0	21.1	2	0.0	0.0	21.0	2	0.0	1.4	20.6	2	0.0	0.1	20.8	2
GV10-17	**nm**				**nm**				**nm**				0.0	0.4	22.4	2	0.0	0.1	21.9	2

	3/22/2018				5/17/2018				9/17/2018				9/19/2018				11/29/2018			
Location ID	CH_4	CO_2	O_2	**Purge Time**	CH_4	CO_2	O_2	**Purge Time**	CH_4	CO_2	O_2	**Purge Time**	CH_4	CO_2	O_2	**Purge Time**	CH_4	CO_2	O_2	**Purge Time**
	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)
GP1-12	0.0	4.0	16.6	1	0.0	5.2	1.6	1	0.0	10.1	5.9	2.0	0.0	14.5	6.3	1.0	0.2	4.2	13.2	1.0
GP2-12	0.0	2.8	17.9	1	0.0	5.1	5.1	1	0.0	5.0	14.4	1.0	0.0	5.9	15.4	2.0	0.2	3.0	19.4	1.0
GP3-12	**nm**				**nm**				0.0	6.5	13.9	1.0	**nm(3)**				**nm(3)**			
GP4-12	**nm**				**nm**				0.0	4.3	16.4	1.0	0.0	5.3	16.9	1.0	**nm(3)**			
GP5-12	0.0	5.2	7.0	1	**nm**				0.0	10.2	0.6	1.0	0.0	14.3	1.0	1.0	0.1	5.8	8.7	1.0
GP6-12	**42.7**	3.4	0.0	2	**nm**				**33.3**	4.5	0.2	2.0	**49.7**	5.5	0.1	2.0	**nm(12)**			
GP7-12	0.0	3.8	12.0	2	**nm**				0.1	7.8	7.4	1.0	**nm(3)**				**nm(3)**			
GP8-12	0.0	4.8	13.0	0.33	0.0	4.8	13.0	0.33	**nm(3)**				**nm(3)**				**nm(3)**			
EX-34(7)	**nm**				**nm**				0.2	0.0	20.2	1.0	0.1	0.0	20.7	1.0	**nm**			
MW1-08	0.0	0.2	22.0	2	0.0	0.1	20.7	2	0.0	0.0	20.2	1	**39.1**	4.2	6.8	4.0	**17.4**	2.0	6.8	2.0
MW2-08	0.0	0.5	21.5	2	0.0	0.1	20.5	1	0.0	0.5	19.4	1	0.0	15.1	6.2	1.0	0.1	5.6	13.4	1.0
MW3R-08(7)	0.0	0.1	22.3	1	0.0	0.1	20.7	1	0.8	0.1	19.3	1	0.1	0.0	20.7	1.0	0.1	0.1	22.4	1.0
MW4-08	0.0	0.1	21.9	1	0.0	0.0	20.3	1	0.1	0.0	20.2	1	0.1	6.0	20.8	2.0	0.2	3.0	16.6	1.0
MW5-08	0.0	0.7	21.4	1	0.0	0.1	21.1	2	0.0	1.6	18.5	2	0.0	2.8	18.3	2.0	0.2	0.3	19.2	1.0
MW7-10(7)	0.0	0.1	22.2	1	0.1	0.1	20.6	1	0.8	0.0	20.0	1	0.2	0.0	20.7	1.0	0.3	0.1	22.6	1.0
MW8-10	0.0	0.1	22.2	1	0.0	0.1	20.6	1	0.2	0.0	20.2	1	0.5	0.2	19.8	1.0	0.1	0.1	22.8	1.0
MW9-10	0.0	0.1	22.3	1	0.0	0.1	20.6	1	0.3	0.0	20.1	1	0.2	0.9	17.8	1.0	**2.0**	1.5	18.1	1.0
MW10-10	0.0	0.1	22.3	1	0.1	0.2	20.6	1	**5.6**	0.9	17.8	1	0.1	0.8	20.0	1.0	0.1	0.2	22.0	1.0
GV3-15	0.0	0.2	21.9	1	0.0	0.1	21.0	1	0.0	0.0	20.2	1	0.0	0.0	20.5	1.0	0.2	0.1	22.1	1.0
GV4-15	0.0	0.3	21.9	1	0.0	0.1	20.9	1	0.0	0.0	20.3	2	0.0	0.0	20.5	2.0	0.2	0.2	21.7	1.0
GV10-17	0.0	0.2	22.2	1	0.0	0.1	20.7	1	0.0	0.0	19.7	2	0.0	0.0	20.7	1.0	0.1	0.1	21.8	1.0

Table 4

Methane Monitoring
Annual Progress Report #1 (2020)
Former Dearborn Refining Site
Dearborn, Michigan

	3/21/2019				6/5/2019				9/6/2019				9/9/2019				9/26/2019				11/26/2019				6/4/2020				9/21/2020				9/23/2020			
Location ID	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time	CH_4	CO_2	O_2	Purge Time
	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)
GP1-12	0.0	2.1	14.7	1.0	0.0	4.7	5.2	1.0	0.1	9.5	4.7	1.5	0.0	10.3	4.0	1.0	**nm**				0.0	5.2	10.2	1.0	0.0	4.5	4.5	1.0	0.0	8.3	3.5	1.0	0.0	8.3	2.4	1.0
GP2-12	0.0	1.4	17.7	1.0	0.0	5.6	11.4	1.0	0.1	4.6	16.1	1.0	0.0	4.7	17.3	1.0	**nm**				0.0	2.4	17.0	1.0	0.0	4.2	7.0	1.0	0.0	6.6	12.9	1.0	0.0	7.0	8.4	1.0
GP3-12	**nm**(3)				**nm**(3)				0.1	7.0	14.0	1.0	0.0	7.1	14.6	1.0	0.0	7.5	12.7	1.5	0.0	0.0	20.7	1.0	0.0	5.4	12.6	1.0	0.0	2.5	17.1	0.3	**nm**(3)			
GP4-12	**nm**(3)				**nm**(3)				0.1	4.8	16.8	1.0	0.0	5.0	17.1	1.0	0.0	7.0	13.8	2.0	0.0	0.0	20.7	1.0	**nm**(3)				**nm**(3)				**nm**(3)			
GP5-12	0.0	4.7	4.3	1.0	0.0	5.8	5.5	1.0	0.0	10.2	0.6	1.0	0.0	10.6	1.6	1.0	**nm**				0.0	6.6	0.8	1.0	0.0	5.8	3.5	1.0	0.0	7.9	4.1	1.0	0.0	8.1	2.3	1.0
GP6-12	**nm**(3)				**nm**(13)				**58.7**	4.1	0.0	1.0	**54.5**	4.4	0.0	1.5	**nm**				**64.8**	2.8	0.9	1.5	**76.1**	2.6	0.2	1.5	**84.2**	3.5	0.1	1.0	**84.5**	3.5	0.0	1.0
GP7-12	**nm**(3)				**nm**(3)				**1.4**	2.0	14.2	1.0	0.0	9.2	11.6	1.0	**nm**				0.0	6.1	12.5	1.0	0.0	7.6	2.6	1.0	0.0	9.6	0.8	1.0	0.0	10.1	1.9	1.0
GP8-12	**nm**(3)				**nm**(3)				**nm**(14)				**nm**(14)				**nm**				0.1	0.0	20.1	1.0	0.0	5.7	9.7	0.5	0.0	7.6	11.0	0.5	0.0	6.6	13.6	0.5
EX-34(7)	**nm**				**nm**				0.1	0.1	21.3	1.0	0.0	0.1	21.4	1.0	**nm**				**nm**				**nm**				0.0	0.0	20.7	1.0	0.0	0.0	21.2	1.0
MW1-08	**19.5**	2.3	0.4	3.0	**18.5**	3.3	3.3	1.5	**43.7**	4.9	0.2	1	**41.8**	5.2	0.2	1.0	**nm**				0.0	0.0	20.6	1.0	**32.6**	3.1	0.2	1.5	**45.2**	4.3	0.1	1.0	**46.1**	4.2	0.1	1.0
MW2-08	0.0	5.4	3.2	1.0	0.0	5.1	12.0	1.0	0.1	9.6	5.7	1	**10.1**	6.1	0.0	1.5	0.0	11.6	2.5	2.0	0.0	0.3	20.2	1.0	0.0	4.8	0.7	1.0	0.0	4.6	16.4	2.0	0.0	5.9	11.7	2.0
MW3R-08(7)	0.0	0.0	21.7	1.0	0.0	0.1	20.5	1.0	0.0	0.1	21.4	1	0.1	0.1	21.4	1.0	**nm**				0.0	0.0	20.8	1.0	0.0	0.0	20.4	1.0	0.0	0.0	20.8	1.0	0.0	0.0	21.1	1.0
MW4-08	0.0	2.2	18.7	1.0	0.0	0.7	20.1	1.0	0.1	3.4	16.9	1	0.0	3.4	15.9	1.0	**nm**				0.0	0.0	20.7	1.0	0.0	1.0	18.8	1.0	0.0	1.0	19.9	1.0	0.7	1.0	17.8	1.0
MW5-08	0.0	0.0	21.1	1.0	0.0	0.2	20.7	1.0	0.1	5.0	15.6	1	0.0	3.4	18.4	1.0	**nm**				0.0	2.6	17.8	1.0	0.0	2.3	17.8	1.0	0.0	2.6	18.2	1.0	0.0	3.5	17.4	1.0
MW7-10(7)	0.0	0.0	21.7	1.0	0.0	0.1	20.6	1.0	0.0	0.1	20.7	1	0.1	0.1	21.4	1.0	**nm**				0.0	0.0	20.4	1.0	0.0	0.0	20.2	1.0	0.0	0.0	21.1	1.0	0.0	0.0	21.0	1.0
MW8-10	0.0	0.0	21.6	1.0	0.0	0.1	20.6	1.0	0.0	0.1	20.9	1	0.2	0.3	21.0	1.0	**nm**				0.0	0.0	20.5	1.0	0.0	0.0	20.0	1.0	0.0	0.0	21.0	1.0	0.0	0.0	20.9	1.0
MW9-10	0.7	1.0	18.9	1.0	0.0	0.1	20.6	1.0	0.1	0.1	21.4	1	0.0	0.7	19.7	1.0	**nm**				0.0	0.1	20.8	1.0	0.0	0.0	20.3	1.0	0.0	0.0	20.8	1.0	0.0	0.1	21.0	1.0
MW10-10	0.0	0.1	20.2	1.0	0.0	0.5	19.8	1.0	0.0	0.0	21.4	1	0.2	1.0	20.4	1.0	**nm**				0.0	0.2	19.5	1.0	0.0	0.2	19.9	1.0	0.0	0.6	19.3	1.0	0.0	2.5	7.9	1.0
GV3-15	0.0	0.0	21.2	1.0	0.0	1.6	16.6	1.0	0.0	0.0	20.8	1	0.0	0.7	21.1	1.0	**nm**				0.0	0.0	20.5	1.0	0.0	0.5	18.2	1.0	0.0	0.3	20.3	1.0	0.0	0.2	20.0	1.0
GV4-15	0.0	0.2	21.3	1.0	0.0	0.2	20.5	1.0	0.1	0.0	20.7	1	0.0	0.6	20.6	1.0	**nm**				0.0	0.0	20.6	1.0	0.0	1.1	17.1	1.0	0.0	0.9	19.2	1.0	0.0	0.4	18.5	1.0
GV10-17	0.0	0.0	21.8	1.0	0.0	0.2	20.3	1.0	0.0	0.2	20.9	1	0.0	0.2	21.2	1.0	**nm**				0.0	0.0	20.8	1.0	0.0	0.0	19.9	1.0	0.0	0.1	20.5	1.0	0.0	0.1	20.9	1.0

Table 4

Methane Monitoring
Annual Progress Report #1 (2020)
Former Dearborn Refining Site
Dearborn, Michigan

Notes:

nm - not measured on this date
CH_4 - Methane
CO2 - Carbon dioxide
02 - Oxygen
%vol - percent volume
min - minute

Table 5

Well Locations
Annual Progress Report #1 (2020)
Former Dearborn Refining Site
Dearborn, Michigan

Location ID	General Location
GP1-12	At border of HDPE liner/within grassed area
GP2-12	Outside HDPE liner/within grassed area
GP3-12	Outside HDPE liner/within grassed area
GP4-12	Outside HDPE liner/within grassed area
GP5-12	Outside HDPE liner/within grassed area
GP6-12	Outside HDPE liner/within grassed area
GP7-12	Outside HDPE liner/within grassed area
GP8-12	Outside HDPE liner/within grassed area
EX-34	Outside HDPE liner/within grassed area
MW1-08	Within the HDPE liner/within gravel area
MW2-08	Within HDPE liner/within grassed area
MW3R-08	Outside HDPE liner/within grassed area
MW4-08	Within the HDPE liner/within gravel area
MW5-08	Outside HDPE liner/within grassed area
MW7-10	Within the HDPE liner/within gravel area
MW8-10	Within the HDPE liner/within gravel area
MW9-10	Outside HDPE liner/within grassed area
MW10-10	Outside HDPE liner/within grassed area
MW13-12	On FPT property
MW14-12	On FPT property
MW15-12	On FPT property
GV3-15	Within gravel trench (PVT)
GV4-15	Within gravel trench (PVT)
GV10-17	Within gravel trench (PVT)

Notes:

FPT - Ferrous Processing and Trading Company
HDPE - high density polyethylene
PVT - passive ventilation barrier

Attachments

Attachment A

Attachment A.1

WELL INSPECTION SUMMARY[1]

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS: Philip Bielak

SUPERVISOR:

DATE OF INSPECTION: 0 6 0 4 2 0 (MM DD YY) To

Well I.D. Number	*Lock*	*Surface Seal*	*Protective Casing*	*Riser*	*Sediment*	*Water Level (ft. BTOC)*	*Well Depth (ft. BTOC)*	*Other Comments*
MW1-08	N/A	✓	N/A	✓		10.93		
MW2-08	N/A	✓	N/A	✓		7.94		
MW3R-08	N/A	✓	N/A	✓		5.20		
MW4-08	N/A	✓	N/A	✓		7.03		
MW5-08	N/A	✓	N/A	✓		2.30		
MW6-10	N/A	✓*	N/A	✓		8.07		
MW7-10	N/A	✓	N/A	✓		11.15		DTP: 7.37
MW8-10	N/A	✓	N/A	✓		7.55		

Additional Comments: ✓* - Riser re-sealed to ground surface, environmental factors dislodging riser from casing completed prior to starting monitoring

Notes:

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.

WELL INSPECTION SUMMARY[1]

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS: Philip Bielak SUPERVISOR: _____

DATE OF INSPECTION: 0 6 0 4 2 0 To
(MM DD YY)

Well I.D. Number	*Lock*	*Surface Seal*	*Protective Casing*	*Riser*	*Sediment*	*Water Level (ft. BTOC)*	*Well Depth (ft. BTOC)*	*Other Comments*
MW9-10	N/A	✓	N/A	✓		7.55		
MW10-10	N/A	✓	N/A	✓		5.44		
MW11-11	N/A	✓	N/A	✓		1.24		
MW12-11								
MW13-11	N/A	✓	N/A	✓		3.35		
MW14-11	N/A	✓	N/A	✓		3.12		
MW15-11	N/A	✓	N/A	✓		3.10		
MW16-11	N/A	✓	N/A	✓		1.97		

Additional Comments: _____

Notes:

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.

WELL INSPECTION SUMMARY[1]

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS: Philip Bielak

SUPERVISOR: _____

DATE OF INSPECTION: 0 6 0 4 2 0 (MM DD YY) To

Well I.D. Number	*Lock*	*Surface Seal*	*Protective Casing*	*Riser*	*Sediment*	*Water Level (ft. BTOC)*	*Well Depth (ft. BTOC)*	*Other Comments*
TW1	N/A	✓	N/A	✓		8.89		DTP: 7.56
TW2	N/A	✓	N/A	✓		7.43		DTP: 7.41

Additional Comments: _____

Notes:

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.

GAS PROBE INSPECTION AND MONITORING SUMMARY[1]

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS: Philip Bielak

SUPERVISOR:

DATE OF INSPECTION: 0 6 0 4 2 0 (MM DD YY) To

Gas Probe I.D. Number	*Lock*	*Surface Seal*	*Protective Casing* (in/wc)	*Pressure Reading*	*Time of Reading*	*Measurement Method*	*Other Comments*
GP-01	N/A	✓	N/A	-0.01	10:55	Manometer	
GP-02	N/A	✓	N/A	0.00	11:20	Manometer	
GP-03	N/A	✓	N/A	+0.26	11:25	Manometer	
GP-04	N/A	✓	N/A	+0.58	11:30	Manometer	**
GP-05	N/A	✓	N/A	+0.22	14:15	Manometer	
GP-06	N/A	✓	N/A	+0.36	14:30	Manometer	
GP-07	N/A	✓	N/A	+0.13	15:00	Manometer	
GP-08	N/A	✓	N/A	+0.18	10:45	Manometer	

Additional Comments: ** - Water at location during pumping no reading collected

Notes:

(1) Inspections will be completed quarterly during and subsequent to operation of the Multi-Phase Extraction (MPE) System for up to 10 years.

COVER SYSTEM INSPECTION LOG

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

LOCATION: Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

PROJECT NUMBER: 48041

DATE: 0 6 0 8 2 0 (MM DD YY)

INSPECTOR(S): Al Loebach, P.E.

	Item	Inspect For	Action Required	Comments
1	Cover System [1]			
✓	Surface Conditions	- exposed geotextile fabric		no issues
✓		- erosion and/or sloughing		no issues
✓		- ponding of water		no issues
✓		- established vegetative ground cover		no issues
✓		- subsidence or settlement		no issues
2.	Stormwater Retention Area and Associated Swale, Grass-lined Ditch, and Berms [1]			
✓	Stormwater Management	- sediment accumulation (≤6 inches in Retention Area)		no issues
✓		- debris construction		no issues
✓		- visible signs of erosion		no issues
✓		- established vegetation		no issues
✓		- signs of seepage through berms		no issues
✓		- accumulation of trash		no issues
3.	Other Site Systems [1]			
✓	Site Fencing	- integrity of fence	City pursuing with adjacent business	exist. damage, no breach along north
✓		- integrity of gates		no issues
✓		- integrity of locks		no issues
✓		- placement and condition of signs		no issues

Notes:

√ = OK

× = Issues Present

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.

TREATED WATER CONVEYANCE PIPE (UNDER GRAVEL DRIVEWAY) INSPECTION LOG

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

LOCATION: Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

PROJECT NUMBER: 48041

DATE: 0 6 0 8 2 0 (MM DD YY)

INSPECTOR(S): Al Loebach, P.E., City of Dearborn

	Item	*Inspect For*	*Action Required*	*Comments*
1	Pipe[1]			
☑	Condition/ Functionality	- integrity		No issues
☑		- sediment accumulation		No issues
☑		- other blockage		No issues

Notes:

√ = OK

X = Issues Present

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years. Photographs attached.

Attachment A.2

Photo 1 – 06/08/2020 Southerly fence line looking east

Photo 2 – 06/08/2020 Westerly fence line looking south

City of Dearborn
Site Photographs

Photo 3 – 06/08/2020 Northerly fence line looking west

Photo 4 – 06/08/2020 Easterly fence line looking south

Photo 5 – 06/08/2020 Driveway looking south

Photo 6 – 06/08/2020 Driveway looking west

Photo 7 – 06/08/2020 Driveway looking north

Photo 8 – 06/08/2020 Pond looking east

Photo 9 – 06/08/2020 Pond looking west

Attachment B

Attachment B.1

WELL INSPECTION SUMMARY[1]

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS: Philip Bielak

SUPERVISOR: _____

DATE OF INSPECTION: 0 9 2 3 2 0 (MM DD YY) To

Well I.D. Number	*Lock*	*Surface Seal*	*Protective Casing*	*Riser*	*Sediment*	*Water Level (ft. BTOC)*	*Well Depth (ft. BTOC)*	*Other Comments*
MW1-08	N/A	✓	N/A	✓		6.93		
MW2-08	N/A	✓	N/A	✓		7.33		
MW3R-08	N/A	✓	N/A	✓		4.92		
MW4-08	N/A	✓	N/A	✓		6.99		
MW5-08	N/A	✓	N/A	✓		2.42		
MW6-10	N/A	✓	N/A	✓		7.89		
MW7-10	N/A	✓	N/A	✓		11.06		DTP: 7.28
MW8-10	N/A	✓	N/A	✓		7.41		

Additional Comments: _____

Notes:

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.

WELL INSPECTION SUMMARY[1]

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS: Philip Bielak SUPERVISOR:

DATE OF INSPECTION: 0 9 2 3 2 0 To
(MM DD YY)

Well I.D. Number	*Lock*	*Surface Seal*	*Protective Casing*	*Riser*	*Sediment*	*Water Level (ft. BTOC)*	*Well Depth (ft. BTOC)*	*Other Comments*
MW9-10	N/A	✓	N/A	✓		7.39		
MW10-10	N/A	✓	N/A	✓		5.31		
MW11-12	N/A	✓	N/A	✓		1.48		
MW12-12								
MW13-12	N/A	✓	N/A	✓		3.90		
MW14-12	N/A	✓	N/A	✓		3.05		
MW15-12	N/A	✓	N/A	✓		2.84		
MW16-12	N/A	✓	N/A	✓		3.45		

Additional Comments:

Notes:

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.

WELL INSPECTION SUMMARY[1]

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS: Philip Bielak

SUPERVISOR: _____

DATE OF INSPECTION: 0 9 2 3 2 0 (MM DD YY) To

Well I.D. Number	*Lock*	*Surface Seal*	*Protective Casing*	*Riser*	*Sediment*	*Water Level (ft. BTOC)*	*Well Depth (ft. BTOC)*	*Other Comments*
TW1	N/A	✓	N/A	✓		7.97		DTP: 7.49
TW2	N/A	✓	N/A	✓		7.48		DTP: 7.22

Additional Comments: _____

Notes:

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.

GAS PROBE INSPECTION AND MONITORING SUMMARY[1]

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS: Philip Bielak

SUPERVISOR:

DATE OF INSPECTION: 0 9 2 3 2 0 To
(MM DD YY)

Gas Probe I.D. Number	*Lock*	*Surface Seal*	*Protective Casing*	*Pressure Reading*	*Time of Reading*	*Measurement Method*	*Other Comments*
GP-01	N/A	✓	N/A	-0.01	08:50	-	
GP-02	N/A	✓	N/A	+0.03	08:57	-	
GP-03	N/A	✓	N/A	+0.20	** 09:02	-	**
GP-04	N/A	✓	N/A	+0.16	** 09:08	-	**
GP-05	N/A	✓	N/A	0.00	09:15	-	
GP-06	N/A	✓	N/A	-0.34	11:30	-	
GP-07	N/A	✓	N/A	0.00	11:00	-	
GP-08	N/A	✓	N/A	-0.10	08:45	-	*

Additional Comments:
* - No flow a 30 seconds of pumping
** - Water in Line, No reading

Notes:

(1) Inspections will be completed quarterly during and subsequent to operation of the Multi-Phase Extraction (MPE) System for up to 10 years.

COVER SYSTEM INSPECTION LOG

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

LOCATION: Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

PROJECT NUMBER: 48041

DATE: 10 12 20 (MM DD YY)

INSPECTOR(S): Al Loebach, P.E.

	Item	Inspect For	Action Required	Comments
1	Cover System [1]			
✓	Surface Conditions	- exposed geotextile fabric		no issues
✓		- erosion and/or sloughing		no issues
✓		- ponding of water		no issues
✓		- established vegetative ground cover		no issues
✓		- subsidence or settlement		no issues
2.	Stormwater Retention Area and Associated Swale, Grass-lined Ditch, and Berms [1]			
✓	Stormwater Management	- sediment accumulation (≤6 inches in Retention Area)		no issues
✓		- debris construction		no issues
✓		- visible signs of erosion		no issues
✓		- established vegetation		no issues
✓		- signs of seepage through berms		no issues
✓		- accumulation of trash		no issues
3.	Other Site Systems [1]			
✓	Site Fencing	- integrity of fence	City pursuing with adjacent business	exist. damage, no breach along north
✓		- integrity of gates		no issues
✓		- integrity of locks		no issues
✓		- placement and condition of signs		no issues

Notes:

√ = OK

× = Issues Present

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.

TREATED WATER CONVEYANCE PIPE (UNDER GRAVEL DRIVEWAY) INSPECTION LOG

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

LOCATION: Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

PROJECT NUMBER: 48041

DATE: 1 0 1 2 2 0 (MM DD YY)

INSPECTOR(S): Al Loebach, P.E., City of Dearborn

	Item	*Inspect For*	*Action Required*	*Comments*
1	Pipe[1]			
✓	Condition/ Functionality	- integrity		No issues
✓		- sediment accumulation		No issues
✓		- other blockage		No issues

Notes:

√ = OK

X = Issues Present

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years. Photographs attached.

Attachment B.2

Photo 1 – 10/12/2020 Southerly fence line looking east

Photo 2 – 10/12/2020 Westerly fence line looking south

City of Dearborn
Site Photographs

Photo 3 – 10/12/2020 Northerly fence line looking west

Photo 4 – 10/12/2020 Easterly fence line looking south

Photo 5 – 10/12/2020 Driveway looking south

Photo 6 – 10/12/2020 Driveway looking west

Photo 7 – 10/12/2020 Driveway looking north

Photo 8 – 10/12/2020 Pond looking east

Photo 9 – 10/12/2020 Pond looking west