TRANSMITTAL LETTER

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Copies:

Date:
May 2, 2019

Subject:
Livonia Transmission Plant
Q1 2019 Progress Report

Arcadis Project No.:
MI001454.0007

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FORD MOTOR COMPANY

QUARTERLY PROGRESS REPORT - 1Q 2019

Livonia Transmission Plant

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May 2, 2019

QUARTERLY PROGRESS REPORT - 1Q 2019

Livonia Transmission Plant

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May 2, 2019

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1Q 2019: Activities

On-Site

1. Groundwater Sampling
2. Hydraulic Control System
   - ✓ Operating as Designed Since March 15, 2017
   - ✓ Discharge Compliance
3. Sub-Slab Depressurization System
   - ✓ Operating as Designed Since August 13, 2018
   - ✓ Discharge Compliance
4. Response Activities
   - Vapor Intrusion Assessment
   - Groundwater Delineation
   - Utility Corridor Evaluation

Off-Site

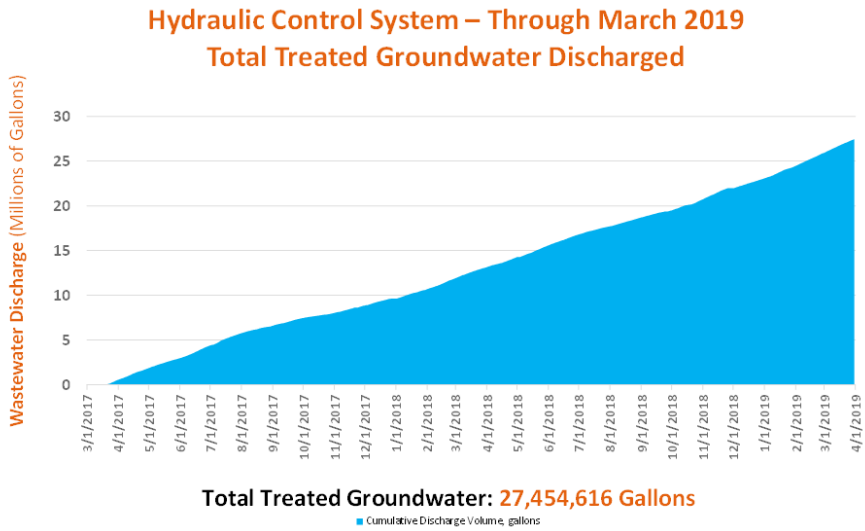
1. Groundwater Sampling
2. Soil Gas Sampling
3. Response Activities
   - Vapor Intrusion Assessment
   - Vapor Intrusion Mitigation
   - Groundwater Delineation

Total On-Site Routine Samples

Period	Groundwater / Water	Soil/ Sediment	Soil Gas
1Q 2019	65	0	0
Total since Oct. 2015	876	328	152

Total Off-Site Routine Samples

Period	Groundwater	Soil Gas
1Q 2019	122	24
Total since Oct. 2015	513	231



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Key Dates

Document Submittal

Document	Date Submitted	Status
GW Work Plan	4/20/2017	Received
Off-Site VI Work Plan	4/21/2017	Received
Site Specific VIAC	8/9/2017	Approved
CSM	8/25/2017	Approved
QAPPs	8/25/2017	Received
HASP	8/25/2017	Received
Target Detection Limit Request RespAP	11/1717	Approved
3Q 2017 Progress Report	11/22/17	Received
Response to EGLE Comments for the Conceptual Site Model	12/12/17	Received
Remedial Investigation RespAP	12/13/17	EGLE Disapproved on March 9, 2018
4Q 2017 Progress Report	1/30/18	Received
RespAP Response to Comments Letter	4/13/18	Received
VI RespAP 6.6(b)(i) Revised	4/13/18	Approved with Modifications
RI RespAP 6.7 Revised	4/13/18	Approved with Modifications
1Q 2018 Progress Report	4/30/18	Received

Document	Date Submitted	Status
Response to EGLE Request for CSM	7/20/2018	Received
2Q 2018 Progress Report	7/31/2018	Received
Public Outreach Plan	8/7/2018	Received
3Q 2018 Progress Report	10/312018	Received
4Q 2018 Progress Report	2/1/2019	Received
Response to EGLE	2/8/2019	Responded
Response to EGLE	3/11/19	Responded
Response to EGLE	3/14/19	Responded
Extension Request to EGLE	3/14/19	Responded

Upcoming Dates

2019

June 10	On and Off-Site 2Q 2019 Groundwater Sampling
June 24	Off-Site 2Q 2019 Soil Gas Sampling

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Figure 16 – Off-Site Vapor Intrusion Assessment Vinyl Chloride in Soil Gas

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APPENDICES

Appendix A - Off-Site Residential Monitoring Wells

Appendix B - On-Site Groundwater Field Sampling Logs

Appendix C - Off-Site Groundwater Field Sampling Logs

Appendix D - Off-Site Soil Gas Field Sampling Logs

Appendix E - Transducer Data

Appendix F - Stability Analysis

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ACRONYMS AND ABBREVIATIONS

1,1-DCE	1,1-dichloroethene
1,4-d	1,4-dioxane
1Q 2019	first quarter of 2019
2Q 2018	second quarter of 2018
2Q 2019	second quarter of 2019
3Q 2018	third quarter of 2018
4Q 2018	fourth quarter of 2018
AOC	Area of Concern
ATNPC	Automatic Transmission New Product Center
CD	Consent Decree
Cis-1,2-DCE	cis-1,2-dichloroethene
COC	constituent of concern
CSM	conceptual site model
DO	dissolved oxygen
DTD	Directed Technologies Drilling
EGLE	Michigan Department of Environment, Great Lakes, and Energy
GLWA	Great Lakes Water Authority
gpd	gallons per day
gpm	gallons per minute
GWIC	groundwater in contact
HCS	hydraulic control system
LNAPL	light non-aqueous phase liquid
LTP	Livonia Transmission Plant
µg/L	microgram per liter
MDEQ	Michigan Department of Environmental Quality
mg/L	milligram per liter
mL	milliliter
mL/min	milliliter per minute
ORP	oxidation-reduction potential
PCE	tetrachloroethene
PLC	programmable logic controller
QAPP	Quality Assurance Project Plan
RIASL	Residential Interim Action Screening Level
RRD	Remediation and Redevelopment Division
SMR	Self-Monitoring Report

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SSDS	sub-slab depressurization system
SVMP	soil vapor monitoring point
SVOC	semi-volatile organic compound
TCE	trichloroethene
TDL	Target Detection Limit
trans-1,2-DCE	trans-1,2-dichloroethene
TWM	Total Waste Manager
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VI	vapor intrusion
VOC	volatile organic compound
WWTP	Wastewater Pre-Treatment Plant

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1 INTRODUCTION

1.1 Purpose of This Report

Arcadis of Michigan LLC (Arcadis), on behalf of Ford Motor Company (Ford) has prepared this Progress Report (report) for the Livonia Transmission Plant (LTP) property (the site). This document was produced in compliance with a Consent Decree (CD) filed by the Michigan Department of Environment, Great Lakes, and Energy (EGLE), formerly known as the Michigan Department of Environmental Quality (MDEQ), on July 27, 2017 (No: 2:1712372-GAD-RSW). The purpose of this progress report is to summarize the routine groundwater and vapor sampling both at the site and the area east of the site, as well as the performance monitoring and maintenance activities associated with the hydraulic control system (HCS) and sub-slab depressurization system (SSDS) completed voluntarily by Ford. This progress report includes activities completed from January 1 through March 31, 2019 (1Q 2019). Activities described in this 1Q 2019 report include:

- On- and off-site groundwater sampling
- Off-site soil gas sampling
- HCS operation, evaluation, performance monitoring, and optimization
- SSDS operation, evaluation, performance monitoring, and optimization.

This quarterly report primarily focuses on the seven constituents of concern (COCs) for the site including: 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene, (trans-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), vinyl chloride (VC), and 1,4-dioxane.

1.2 Additional Response Activities

Additional response activities completed in 1Q 2019 include on-site vapor intrusion investigation, on- and off-site groundwater delineation, off-site vapor intrusion investigation and mitigation, and utility corridor evaluation as outlined in the Response Activity Plan - Vapor Intrusion Assessment and Response Activity Plan - Remedial Investigation, both dated April 13, 2018. Additional response activities have included the following:

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Date	Activity	Activities Completed in 1Q2019	Additional Activities Required (yes or no)
January to March 2019	Additional Off-Site Vapor Intrusion Assessment	562 air samples collected, includes sub-slab, indoor air, and ambient	Yes
January to March 2019	Additional On-Site and Off-Site Monitoring Well Installation	6 monitoring wells installed on site, 57 shallow monitoring wells installed off site (**Appendix A**), and 4 commercial wells off site.	Yes
January to March 2019	Off-Site Mitigation System Installation	10 mitigation systems installed off site. 3 of 10 will require additional activities due to the presence of a basement.	Yes
March 2019	Storm Sewer Evaluation	One sediment sample collected each from the on-site eastern and western diversion chambers	Yes
March 2019	Additional On-Site Vapor Intrusion Assessment	30 sub-slab air samples collected within the Automatic Transmission New Product Center (ATNPC) building	Yes

- The off-site vapor intrusion assessment activities are ongoing, and large amounts of data were collected during 1Q 2019. The additional off-site vapor intrusion data collected during 1Q 2019 are summarized below in Section 3.

1.3 Background

The LTP has been active in manufacturing in some capacity since the 1950s. The site is located at 36200 Plymouth Road, Livonia, Michigan (**Figure 1**) and occupies 178 acres of land. The LTP building occupies approximately 3 million square feet. The area surrounding the site includes light industrial, commercial, and residential properties. For the purposes of this report, data are presented based on their locations as either on-site or off-site (**Figure 2**). On-site area of concern (AOC) locations include all areas within the site boundary including the LTP, Test Track, Waste Water Pre-Treatment Plant (WWTP), Automatic Transmission Plant New Product Center (ATNPC), associated outbuildings, and the Plymouth Road right-of-way. Off-site AOC locations include commercial and residential properties located east of the site, from Belden Court west to Stark Road, and from Plymouth Road north to the railroad right-of-way (**Figure 2**).

2 SUMMARY OF ROUTINE ACTIVITIES

The following table summarizes all routine monitoring activities at the AOC completed during 1Q 2019. Refer to the subsequent sections for further detail on each respective event and associated tables and figures.

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Date	Activity	Tables	Figures
January through March 2019	HCS Performance Monitoring	8	2, 4
February 2019/March 2019	On-Site Groundwater Sampling	1, 2	3, 4, 5, 6, 7, 8, 9
February 2019/March 2019	Off-Site Groundwater Sampling	3, 4	3, 10, 11, 12
March 2019	Off-Site Residential Soil Gas Sampling	5, 6, 7	13, 14, 15, 16

2.1 On-Site Groundwater Sampling

Arcadis completed on-site gauging on February 22, 2018. Each accessible monitoring well and piezometer was gauged from the top of casing using an electronic water level meter to within 0.01 foot. A summary of the on-site 1Q 2019 groundwater elevations is included on the on-site quarterly groundwater elevation summary table (**Table 1)**. Groundwater elevation contours and apparent groundwater flow for the 1Q 2019 are provided on **Figure 3**.

On-site groundwater sampling was completed from February 25 through March 8, 2019 on all monitoring wells excluding the ten on-site light non-aqueous phase liquid (LNAPL) wells (LMW-15-01, LMW-15-02, LMW-15-03, LMW-15-04, LMW-15-05, LMW-15-06, LMW-15-07, LMW-15-08, LMW-15-09, and LMW-15-10) and four monitoring wells (MW-23, MW-27, MW-40, and MW-54) that were not accessible at the time of sampling due to snow/ice. Groundwater was purged from the well at a low flow rate (100 to 300 milliliters per minute [mL/min]) until field parameters (conductivity, pH, turbidity, temperature, dissolved oxygen [DO], and oxygen reduction potential [ORP]) stabilized. Once field parameters stabilized, groundwater samples were collected into laboratory supplied bottles. A summary of the 1Q 2019 groundwater analytical results is presented in the on-site quarterly groundwater analytical data summary table (**Table 2**). On-site groundwater field sampling logs are provided for reference in **Appendix B.**

Groundwater samples were collected from 65 monitoring wells and submitted on ice to TestAmerica Laboratories in Canton, Ohio (TestAmerica). Additionally, duplicates and trip blanks taken during the sampling event were collected and analyzed in accordance with the methodology specified in the on-site Quality Assurance Project Plan (QAPP), [Arcadis 2017a]) and submitted to TestAmerica. All samples were submitted for analysis of volatile organic compounds (VOCs) via United States Environmental Protection Agency (USEPA) Method 8260B and 1,4-dioxane via USEPA Method 8260B-SIM. The groundwater analytical results are discussed in Section 3 below.

2.2 Off-Site Groundwater Sampling

Arcadis completed off-site gauging on February 22, 2019. Each accessible monitoring well was gauged from the top of casing using an electronic water level meter accurate to within 0.01 foot. A summary of the 1Q 2019 groundwater elevations (rights-of-way monitoring wells only) is included on the off-site quarterly groundwater elevation summary table (**Table 3)**. Groundwater elevation contours and apparent

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groundwater flow are provided on **Figure 3**. Only monitoring wells gauged during the site-wide gauging event were used to produce the elevation contour figure.

Off-site groundwater sampling was completed from February 25 through March 8, 2019. Groundwater was purged from the well at a low flow rate (100 to 300 mL/min) until field parameters (conductivity, pH, turbidity, temperature, DO, and ORP) had stabilized. Once field parameters were stable, groundwater samples were collected into laboratory supplied bottles. A summary of the 1Q 2019 groundwater analytical results is presented in the off-site quarterly groundwater analytical data summary tables (**Table 4 and Appendix A**). Off-site groundwater field sampling logs are provided for reference in **Appendix C**.

Groundwater samples were collected from 122 monitoring wells and submitted on ice to TestAmerica. Additionally, duplicates and trip blanks taken during the sampling event were collected and analyzed in accordance with the methodology specified in the off-site QAPP (Arcadis 2017b) and submitted to TestAmerica. All groundwater samples were submitted for analysis of the specific list of VOCs via USEPA Method 8260B and 1,4-dioxane via USEPA Method 8260B-SIM based on a standard turnaround time of 10 business days. The groundwater analytical results are discussed below.

2.3 Off-Site Soil Gas Sampling

Arcadis completed off-site soil gas sampling between March 4 and 5 and on March 21, 2019. 24 soil gas samples were collected during the 1Q 2019 sampling event. SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, and SVMP-23 were not sampled in 1Q 2019 due to saturated screens. SVMP-29 through SVMP-37 (SVMP-29 and SVMP-32 each consist of a shallow and a deep interval) are located on residential properties and were not sampled in 1Q 2019. Additionally, duplicates taken during the sampling event were collected and analyzed in accordance with the methodology specified in the off-site QAPP (Arcadis 2017c). The next quarterly sampling event is scheduled for June 2019, and sampling will be attempted at all existing soil vapor monitoring points (SVMPs), except for SVMP-29 through SVMP-37, which are located on private properties.

The 24 SVMP samples (along with one duplicate sample) were collected in March 2019 using 1-liter summa canisters and 20-minute flow controllers. Each location was purged of approximately 180 milliliters (mL) of air before sampling.

Several technical quality controls were implemented to ensure that representative soil gas samples were collected from each sample point as described below.

- Tracer gas testing has been conducted during eight rounds of soil gas sampling using a helium tracer at each location before sampling. Methods for tracer testing were the same as those presented in the 2013 MDEQ Vapor Intrusion (VI) Guidance Appendix F and in line with industry-accepted standards. No unacceptable helium leak test results were noted during the eight rounds of soil gas sample collection through March 2019. Samples were deemed acceptable, as all exhibited concentrations of helium in purged soil gas less than 10% of the initial shroud concentration of helium, as presented in the MDEQ VI Guidance (MDEQ 2013). Tracer gas testing results are presented in **Table 5**.
- Small screened intervals (1-inch screen within a 3-inch sand pack) were installed to allow for a thicker bentonite seal to the ground surface at each location.
- Soil gas sampling has been conducted slowly (i.e., 20-minute sample using a 1-liter canister) to avoid short-circuiting. This flow rate is four times slower than the maximum 200 mL/min included in the

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2013 MDEQ VI Guidance. EGLE suggested that samples be collected at a flow rate at or below 200 mL/min "to minimize the potential for vacuum extraction of contaminants from the soil phase (2013 MDEQ VI Guidance)."

- Carbon dioxide and oxygen have been measured from each sample point directly after each round of sample collection. Concentrations of oxygen are slightly depressed from atmospheric conditions, while concentrations of carbon dioxide are slightly elevated. This is as expected due to the influence of microbial respiration in the vadose zone, which consumes oxygen and produces carbon dioxide (USEPA 2015). Carbon dioxide and oxygen concentrations from the SVMPs are presented in **Table 6**.

Ambient air temperature, percent humidity, and barometric pressure were recorded during the field event and are presented in **Appendix D**.

A total of 24 soil gas samples, plus one duplicate sample, were submitted under chain-of-custody protocols to Eurofins AirToxics Laboratory located in Folsom, California (Eurofins) for analysis of the specific list of VOCs (1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC, and 1,4-dioxane) via USEPA Method TO-15 based on a standard turnaround time of 10 business days. Soil gas analytical results are summarized in **Table 7,** and field sampling logs are provided for reference in **Appendix D**. The off-site soil gas results are discussed below.

2.4 Hydraulic Control System

2.4.1 System Overview

The HCS was installed to intercept groundwater and mitigate the potential for impacted groundwater to continue to migrate east of the HCS. Ford began operation of the HCS on March 15, 2017.

The system is designed to extract groundwater via four horizontal wells (ESD-1, ESD-2, ESD-3, and ESD-4; see **Figure 2**), each equipped with a groundwater extraction pump. The extraction well screens are 400 to 600 feet long; the combined length of the four wells extends across approximately 2,000 linear feet on a line approximately perpendicular to groundwater flow. Extracted groundwater is pumped to an above-grade treatment system, where it is treated by bag filters, an air stripper, and granular-activated carbon filters before being discharged to the sanitary sewer under the approved wastewater discharge permit (permit number 006-27510-IU) with the Great Lakes Water Authority (GLWA).

HCS equipment is operated by a programmable logic controller (PLC) unit that allows the system to function without operator supervision. The HCS operates each horizontal well by extracting groundwater to achieve the set level within each pumping well. Pumping in each well ceases when target drawdown is achieved and resumes when the water level begins to rebound. Details regarding design and operation of the system are provided in the Remedial System Operation and Maintenance Manual dated June 29, 2017 and in the Conceptual Site Model (CSM) dated August 25, 2017.

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2.5 Interim Sub-Slab Depressurization System

2.5.1 System Overview

In response to the presence of VOCs beneath the LTP building, Ford has designed, installed, and begun operation of an interim SSDS. The SSDS was specifically designed to target select locations in the plant where the highest concentrations of VOCs were present below the concrete slab. The goal of the interim SSDS is to reduce the potential for sub-slab soil vapor to potentially migrate through the concrete slab into indoor air. Construction of the SSDS began in September 2017, and the system started extracting and treating soil vapor on August 14, 2018.

The system is designed to extract soil vapor via nine suction pits located in the LTP building (**Figure 2**). The suction pits are installed just beneath the building slab to induce a sub-slab vacuum and reduce the potential for sub-slab soil vapor to migrate into the indoor air. Each suction pit is connected to the conveyance piping network to transmit extracted soil vapor to the system building, where it is treated via a catalytic oxidizer before being discharged to the atmosphere pursuant to the Rule 290 air permitting exemption of the Michigan Air Pollution Control Rules.

3 SUMMARY OF RESPONSE ACTIVITY RESULTS

3.1 On-Site Groundwater Sampling

The on-site monitoring well groundwater results are compared to Michigan Part 201 Non-residential Generic Cleanup Criteria (December 2013). Comprehensive analytical results are summarized in **Table 2**. Compound concentrations of COCs exceeding Part 201 Criteria include cis-1,2-DCE, trans-1,2-DCE, TCE, and VC. Figures summarizing the exceedances of cis-1,2-DCE, trans-1,2-DCE, TCE, VC, and 1,4-dioxane from the four most recent quarters of data (May 2018, August 2018, October/November 2018, and February/March 2019) are provided on **Figures 4 through 8**, respectively. All other site-specific compounds (1,1-DCE and PCE) were either not detected at concentrations above the reporting limits or were detected at concentrations below Part 201 Criteria.

3.2 Off-Site Groundwater Sampling

The off-site monitoring well groundwater results are compared to the Part 201 Residential Generic Cleanup Criteria (December 2013) and the site-specific groundwater VI screening levels included as part of the CD. However, the site-specific screening levels provided for TCE and VC where groundwater may be in contact (GWIC) with a structure are below typical target detection limits (TDLs) for these compounds. Ford requested and received EGLE approval of (in December 2017) the use of the EGLE

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Remediation and Redevelopment Division (RRD) TDLs for TCE and VC of 1.0 microgram per liter (µg/L) as the groundwater screening level protective of VI at residential structures where there is potential for GWIC.

Comprehensive off-site groundwater analytical results are summarized in **Table 4 and Appendix A**. Only VC was detected in off-site monitoring wells at concentrations above the 1.0 µg/L TDL from the 1Q 2019 sampling event. Although TCE and 1,4-dioxane were detected off site, no results exceeded the applicable criteria (TCE 1.0 µg/L and 1,4-dioxane 7.2 µg/L). The results for 1,4-diaxane, TCE, and VC from the four most recent quarters of data (May 2018, August 2018, October 2018, and February/March 2019) are provided on **Figures 9, 10, and 11,** respectively. All other site-specific compounds (1,1-DCE, cis-DCE, trans-DCE, and PCE) were either not detected at concentrations above the reporting limits or were detected at concentrations below respective Part 201 Residential Criterion.

3.3 Off-Site Soil Gas Monitoring

The soil gas analytical results from 1Q 2019 sampling are compared to site-specific RIASLs for residential properties provided by the EGLE. Comprehensive analytical results are summarized in **Table 7.** There were no detections of any site COCs in the 1Q 2019 sampling event. Additionally, there were no off-site exceedances of the Recommended Interim Action Screening Levels (RIASLs) for any of the site COCs from the 1Q 2019 sampling event. Compound-specific results for of cis-DCE, PCE, TCE, and VC from the four most recent quarters of data (May 2018, August 2018, November 2018, and March 2019) are provided on **Figures 12, 13, 14,** and **15,** respectively. All other site-specific compounds (1,1-DCE, trans-DCE, and 1,4-dioxane) were not detected at concentrations above laboratory reporting limits; therefore, no figures were produced for these COCs.

Through 1Q 2019, eight rounds of soil gas sampling (June 2017, September 2017, November 2017, February 2018, May 2018, August 2018, November 2018, and March 2019) have been completed from the SVMP locations since the inception of the sampling program in June 2016, totaling 231 soil gas samples. Although isolated low-level VOC detections have been noted, there have been no exceedances of the residential RIASLs provided by EGLE for the site in any off-site soil gas sample collected from any depth interval.

3.3.1 Ongoing Off-Site Vapor Intrusion Response Activities

Since the beginning of the investigation in September 2018 through March 31, 2019, approximately 1,394 indoor air, ambient air, and sub-slab soil vapor samples have been collected at 65 residential properties and 26 commercial properties. Additionally, water from sumps has been collected from residential properties where a sump is present.

To further evaluate groundwater quality, 62 shallow monitoring wells were installed and sampled during 1Q 2019 to provide an additional line of evidence for analysis of the VI pathway in compliance with the CD. Based on shallow groundwater sampling results, pre-emptive mitigation is ongoing at 30 residential properties.

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3.3.2 Hydraulic Control System Operation and Performance Monitoring

The HCS performance is continually being evaluated and monitored. Treated water discharge volumes are documented daily and tabulated monthly (see **Table 8**). System shutdowns are documented and resolved as detailed below. Samples are collected each month to document permit compliance for sanitary discharge and air emissions.

3.4 Hydraulic Control System Operation

The HCS operated with minimal unscheduled downtime. **Exhibit 1** below describes the system shutdowns, approximate durations, and dates.

Exhibit 1: HCS Shutdown Summary

Date of Shutdown	Duration of Shutdowns	Summary of Shutdown
14- Jan- 19	Less than 24 hours	Fouled bag filters led to a high scrubber sump alarm, shutting the system down. Field staff replaced the bag filters and restarted the system. Operation resumed on the same day as the shutdown. Total shutdown time was approximately 0.5 hour.
29- Jan- 19	Less than 24 hours	System shut down due to components freezing on the catalytic oxidizer during extreme cold conditions with temperatures ranging from 1 to 25 degrees Fahrenheit. It was determined that condensation within the flow meter was freezing and caused the catalytic oxidizer to shut down due to improper air flow. Crew modified the heat trace and insulation near the temperature-sensitive areas of the catalytic oxidizer, and the HCS resumed normal operation the same day. Total shutdown time was approximately 1.5 hours.
28- Feb- 19 01-Mar- 19	Less than 24 hours	System manually shut down to replace effluent piping fitting. Crew replaced fitting and the HCS resumed normal operation the next day. Total shutdown time for the day was approximately 21.50 hours.
07- Mar- 19	Less than 24 hours	System manually shut down to clean air stripper sump, trays, and floats. Normal operation resumed the same day. Total shutdown time was approximately 8.0 hours.

During the reporting period, groundwater was extracted from the horizontal wells with the intent of maintaining continuous and consistent drawdown in each horizontal well. Discharge volumes and flowrates tabulated monthly during the reporting period are summarized in **Exhibit 2** below. Daily HCS discharge volumes and monthly discharge totals are provided in **Table 8** for the 1Q 2019 reporting period. The total volume of water collected and treated from March 15, 2017 through the 1Q 2019 is 27,454,616 gallons.

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Exhibit 2: HCS Treated Discharge Water Volume and Flowrate Summary – 1Q 2019

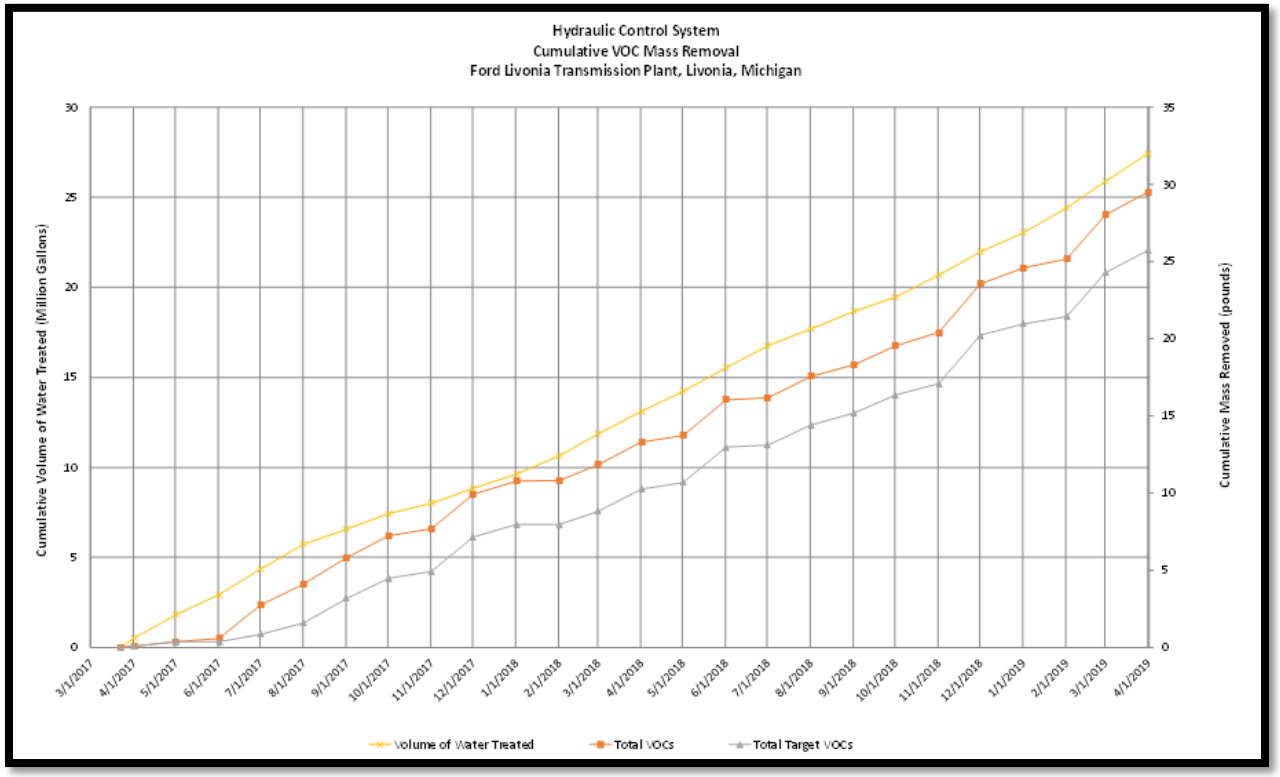
Month	Volume Treated (Gallons)	Average Operational Flowrate* (GPM)
January	1,382,032	31
February	1,469,732	36
March	1,565,669	35

GPM = gallons per minute

*Treated volume divided by operating time

Exhibit 3 below depicts the cumulative constituent-specific mass removal of the VOCs through the 1Q 2019 reporting period. Groundwater mass removal calculations are based on air stripper effluent vapor sampled since June 2017.

Exhibit 3: HCS Mass Removal – 1Q 2019



3.4.1 Maintenance Activities

Routine maintenance is required to maintain the efficiency of the HCS wells and treatment system. In the second quarter of 2019 Directed Technologies Drilling (DTD) will complete maintenance on the horizontal extraction wells. DTD will flush clean water at high velocity (100 to 200 gpm) through the horizontal wells

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to clear out sediment and biofouling that has accumulated in the wells since 2017 and promote well efficiency and groundwater capture.

3.4.2 Hydraulic Control System Performance Monitoring

The performance of the HCS is evaluated in general accordance with USEPA guidance – A Systematic Approach for Evaluation of Capture Zone at Pump and Treat Systems (USEPA 2008) to demonstrate that the system is capturing groundwater as designed and mitigating additional migration of impacted groundwater to the east of the HCS. Three lines of evidence are used to evaluate system performance:

1. Groundwater elevation and horizontal gradient
2. Hydraulic response to pumping
3. Downgradient groundwater analytical trends.

Aquifer response to pumping is subtle, and additional performance piezometers were installed in 4Q 2018 to provide additional data to resolve hydraulic gradient around the HCS. The gradient map illustrating groundwater flow direction downgradient of the HCS system is included as **Figure 16**. The new performance monitoring wells were surveyed in January 2019. The locations of the new piezometers are included on **Figures 2, 3,** and **4**.

3.4.2.1 Groundwater Elevation

A groundwater elevation contour map, including the area around the HCS system, is provided as **Figure 3**. The HCS wells are a horizontal groundwater sink oriented perpendicular to groundwater flow that captures groundwater flux across the approximate 2,000-foot cross-sectional area. Due to seasonal fluctuations, the elevations of groundwater and the HCS total flow rate vary. The average monthly pumping rates (ranging from approximately 10 to 35 gpm over the course of a year) are consistent with the range of ambient groundwater flux rate calculated for the site. As shown on **Figure 3**, the hydraulic gradient west of the HCS is steep relative to the area east of the HCS. East of the HCS, the gradient is generally flat up to the eastern property boundary before resuming a more consistent flow off site. This result is consistent with hydraulic control and groundwater capture at the site. The groundwater elevation contours show a deflection around the northern HCS well (ESD-1) with a pronounced inward gradient around the southern portion of the system.

Consistent with USEPA guidance, and using the new piezometer network, hydraulic gradient direction was calculated for well triplets located downgradient of the HCS system wells. The well triplets and calculated flow directions are illustrated on **Figure 4**. The calculated hydraulic gradients show that groundwater movement for the area extending beneath the ATNPC building is westerly toward the HCS well screens, except near the northern portion of ESD-1, where the gradient is south-southeasterly. Two additional piezometers were installed in April 2019 near the northern portion of ESD-1 to provide better resolution at the northern end of the system. The location of the new piezometers is included on **Figure 4**.

3.4.2.2 Hydraulic Response

Pressure transducers have been installed to monitor the system performance and influence on the aquifer in the area. Transducers are installed in numerous monitoring wells and piezometers, at the southern

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end of the HCS wells above the pump, and within the northern access vaults for each well. Below is a list of the monitoring wells that currently have transducers installed:

- MW-50, MW-62, PZ-01, and PZ-08 record water levels near the northernmost section of system adjacent to HCS well ESD-1.
- MW-48, PZ-06, PZ-07, and PZ-09 record water levels near the center section of the system adjacent to HCS well ESD-2.
- MW-46, MW-68, PZ-03, PZ-10, and PZ-13 record water levels near the center section of the system adjacent to HCS well ESD-3.
- MW-45, MW-71, PZ-05, PZ-11, and PZ-12 record water levels near the southern section of system adjacent to HCS well ESD-4.
- The transducers located above the pumps on the southern end of each well are used to monitor pumping drawdown and modulate pumping rates for each well.
- Transducers located at the northern end of each HCS well are used to evaluate head loss across the length of the HCS well screen and evaluate pumping efficiency.
- The transducer located at MW-18 provides upgradient background water level data to help evaluate regional and seasonal groundwater elevation trends.

The transducer data for 1Q 2019 show hydraulic communication between the HCS wells and nearby monitoring wells. Hydrographs for each ESD are provided in **Appendix E.** PZ-01, PZ-08, PZ-09, PZ-03, and PZ-05 show a dampened barometric response and are not included on the hydrographs included as **Appendix E**. The installation was adjusted in April 2019, and these piezometers will be included as part of the second quarter of 2019 evaluation. Two additional transducers will be installed in the new piezometers (PZ-14 and PZ-15) in the second quarter of 2019 and will provide a more refined monitoring network near ESD-1.

3.4.2.3 Groundwater Analytical Trends

To date, up to ten rounds of groundwater samples have been collected from monitoring wells beginning in 2016 before HCS startup (May 2016, April 2017, July 2017, November 2017, February 2018, May 2018, August 2018, and October/November 2018, December 2018 [select wells], and February/March 2019). Analytical results from the four most recent quarters of data are included on **Figures 5 through 9**. A key result of the performance monitoring is at monitoring well MW-71, located east of the HCS well (ESD-4) and opposite the core of southern chlorinated VOC impacts. Since the installation of MW-71 (April 2017), concentrations have been non-detect (TCE) or stable with only estimated detections of total DCE and VC at concentrations less than 1.0 µg/L.

Concentrations of trends for TCE, total DCE, and VC were reviewed at representative wells located along the axis of impacted areas (on site and off site) and at wells located downgradient of the HCS system between May 2016 and February/March 2019. Trend analysis from wells upgradient of the HCS system can provide insights regarding source maturity; stable concentrations (i.e., no trend with low variability in concentrations over time) and decreasing trends indicate that the source is mature or depleted. Increasing trends at individual source area wells can indicate an expanding plume, but also can reflect the wide range of concentrations and temporal variability common at source areas. Trends at wells along

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the axis of the flow and at the periphery of the plume should be considered to verify if the plume is expanding.

Trend analysis downgradient of the HCS provide the best measure of hydraulic capture performance; no trend and decreasing trends verify that the HCS is working, whereas increasing trends would indicate a lack of capture.

Mann-Kendall trend tests were conducted at selected wells for constituents present at concentrations greater than applicable screening criteria, and coefficient of variation values were calculated. The methodology, preliminary results summary, figures, and trend graphs are included as part of **Appendix F**. Key findings of the Mann-Kendall trend test include the following:

- Upgradient of HCS (south): At monitoring wells in the southern impacted area, concentrations of TCE, total DCE, and VC (where present above applicable screening levels) are statistically significantly decreasing or show no trend. The three exceptions are MW-02 and TW-16-02, where total DCE shows statistically significant increasing trends, and MW-10, where VC shows a statistically significant increasing trend. These wells are located upgradient of the HCS system along the core of the southern impacted area. Groundwater impacts associated with these three monitoring wells is eventually captured by the HCS system.
- Upgradient of HCS (north): VC concentration trends at monitoring wells upgradient of the HCS in the northern impacted area are statistically significantly decreasing.
- Downgradient of the HCS (on site): Concentrations of VC at each monitoring well located downgradient of the HCS system exhibit no trend, except for MW-43 and MW-52, which show statistically significant decreasing trends.
- Downgradient of the HCS (off site): Concentrations of VC at each monitoring well located off site show no trend, except for MW-72, MW-75D, MW-79D, MW-80S, and MW-85, which show statistically significant decreasing trends.

Except for a limited number of on-site upgradient monitoring well and constituent combinations that show statistically significant increasing trends (total DCE at MW-02 and TW-16-02, and VC at MW-10), the observations and measurements to date indicate that the groundwater impacts are stable and/or statistically decreasing. Results of this evaluation provide a key line of evidence to indicate that the HCS system prevents further migration of groundwater impacts to the east of the HCS.

3.5 Summary of Hydraulic Control System Compliance Actions

Compliance sampling for the HCS GLWA discharge permit was completed each month. Samples were collected after treatment before groundwater discharge. Samples were analyzed for constituents required by the discharge permit. **Exhibit 4** below depicts the sampling parameters, methods, and discharge limits monitored for compliance with the GLWA discharge permit. Results from all monthly compliance samples were within discharge limits during the reporting period. Self-Monitoring Reports (SMRs) are submitted to the GLWA every 6 months to document discharge compliance.

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Exhibit 4: GLWA Discharge Limitations for HCS

Parameter	Analytical Method	Discharge Limit
Cadmium (Cd)	USEPA 200.7 – Metals	1.0 milligrams per liter (mg/L)
Chromium (Cr)	USEPA 200.7 – Metals	25 mg/L
Copper (Cu)	USEPA 200.7 – Metals	2.5 mg/L
Lead (Pb)	USEPA 200.7 – Metals	1.0 mg/L
Nickel (Ni)	USEPA 200.7 – Metals	5.0 mg/L
Mercury (Hg)	USEPA 245.1 - Mercury	Non-Detect
Silver (Ag)	USEPA 200.7	1.0 mg/L
Zinc (Zn)	USEPA 200.7	7.3 mg/L
Total PCB	USEPA 608.3	Non-Detect
Total Toxic Organics	USEPA 624.1 - VOCs USEPA 625.1 – Semi-Volatile Organic Compounds (SVOCs) USEPA 625.1 Dioxin Screen USEPA 1613B – Dioxins and Furans	20 µg/L

In addition, the GLWA discharge permit limits the discharge volume of the HCS to 100,800 gallons per day (gpd) and/or 70 gpm. Discharge volumes, documented daily and tabulated monthly, were within discharge limits during 1Q 2019.

Tabulated discharge volumes for the 1Q 2019 reporting period are presented in **Table 8**.

During the reporting period, monthly vapor samples were collected and analyzed for VOCs using the USEPA Method TO-15 for documenting compliance with the Rule 290 air permitting exemption of the Michigan Air Pollution Control Rules. All vapor emissions have been within discharge limits since system startup. Rule 290 emissions calculations are documented monthly.

3.6 Interim Sub-Slab Depressurization System Operation and Compliance Actions

The SSDS performance is continually evaluated and monitored. System shutdowns are documented and resolved as detailed below. Vapor analytical samples have been collected since system startup to verify destruction efficiency of the catalytic oxidizer and document emissions compliance with the Rule 290 air permitting exemption of the Michigan Air Pollution Control Rules.

During the reporting period, monthly vapor samples were collected and analyzed for VOCs using USEPA Method TO-15. All vapor emissions have been within discharge limits since system startup. Rule 290 emissions calculations are documented monthly.

The SSDS did not have any unexpected downtime during the reporting period, though the system was shut down manually in March to install isolation valves on the conveyance piping. **Exhibit 5** below describes the approximate duration and date of the installation. **Exhibit 6** below depicts the cumulative

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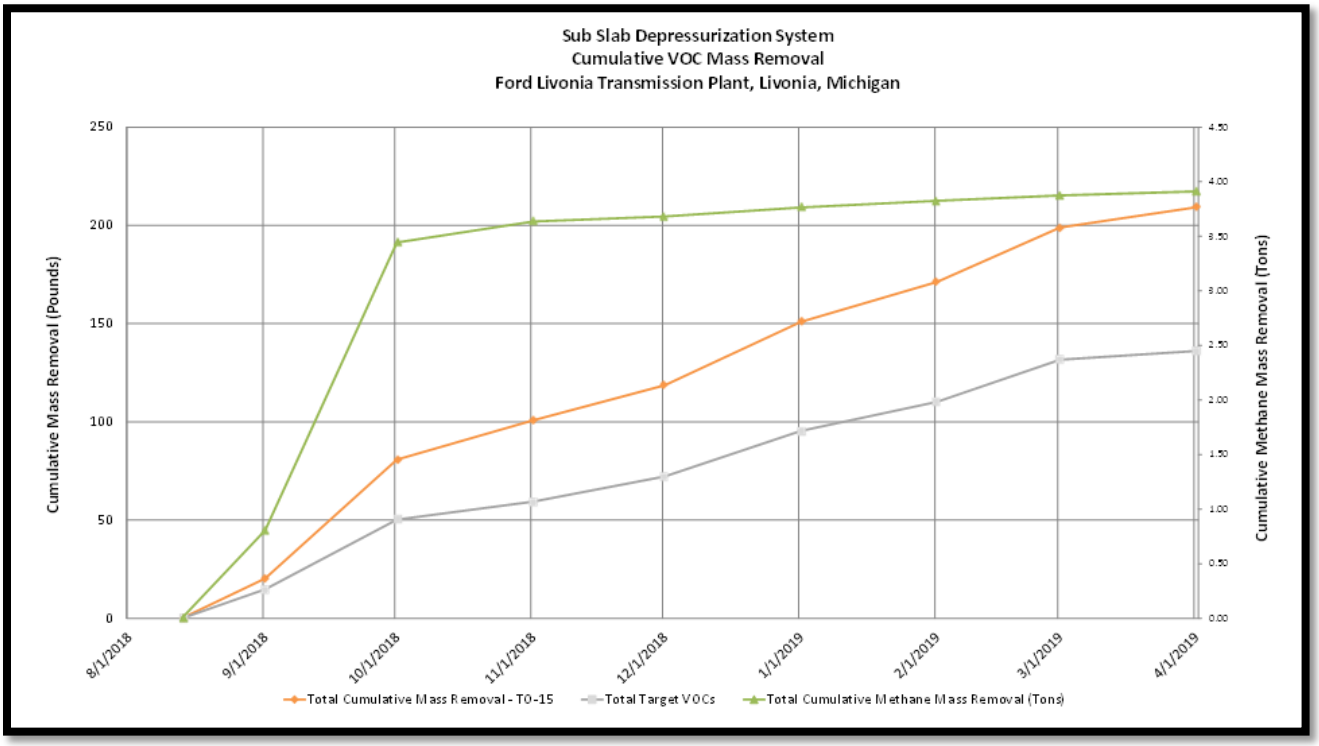
constituent-specific mass removal of VOCs from sub-slab soil vapor through the 1Q 2019 reporting period.

Exhibit 5: SSDS Shutdown Summary – 1Q 2019

Date of Shutdown	Duration of Shutdowns	Summary of Shutdown
01- Mar - 19 05- Mar - 19	Less than a week	System temporarily shut down to allow contractor to install isolation valves. Operation resumed on the fifth day of shutdown. Total shutdown time was approximately 92 hours for the 5 days.

Exhibit 6: SSDS Mass Removal – 1Q 2019



4 ACCESS AGREEMENTS

In 1Q 2019, Ford was able to acquire access to an additional eight residential properties and one commercial property. Ford continues to negotiate in good faith to obtain access to the remaining two residential properties for indoor air sampling. In addition, Arcadis has requested access to two additional properties north of the site to further delineate groundwater impacts.

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5 OTHER RELEVANT INFORMATION

5.1 Due Care Obligations

Response activities and plant activities are ongoing and maintaining the due care obligation. In addition, Arcadis performs weekly ambient air monitoring throughout the plant to identify potential methane breakthrough. The monitoring is biased towards locations where piping or conduits come through the slab and move above grade.

5.2 Public Outreach

Ford currently has an active website that allows the general public access to project updates. The website link is: http://www.fordlivoniabostonbeaconproject.com. In addition, multiple meetings and/or site visits were held with EGLE during 1Q 2019 on the following dates:

- EGLE teleconference on January 16, 2019
- EGLE Air Quality District meeting at Ford Livonia Transmission Plant on January 16, 2019
- EGLE meeting at SE Michigan District Office on January 24, 2019
- EGLE teleconference on February 15, 2019
- EGLE teleconference on February 20, 2019
- Meeting with the City of Livonia Engineering Department on February 21, 2019
- EGLE teleconference on March 6, 2019
- EGLE teleconference on March 26, 2019
- EGLE on site to collect groundwater split samples on February 21, February 25, March 7, and March 16, 2019.

Additionally, during the course of work implementation, Arcadis continues to be in communication with EGLE and offsite property owners.

5.3 List of Reporting Documents

A list of all reporting documents submitted during the 1Q 2019 reporting period is included in **Exhibit 6** below.

Exhibit 6: Submitted Reporting Documents – 1Q 2019

Report Title	Submission Date
4Q 2018 Progress Report	February 1, 2019
Response to EGLE	February 8, 2019
Response to EGLE	March 11, 2019

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Report Title	Submission Date
Response to EGLE	March 14, 2019
Extension Request to EGLE	March 14, 2019

6 WASTE MANAGEMENT

All investigation-derived waste, construction debris, or other waste is properly stored in labelled containers (e.g., 55-gallon drum, frac tank) pending off-site disposal. All waste is managed by Ford and Clean Harbors. Clean Harbors is the Total Waste Manager (TWM) for the site. All purge water generated during the groundwater sampling event is containerized in buckets and passed through the groundwater treatment system on site. In 1Q 2019, 71 soil drums and 89 water drums were disposed of.

7 PROPOSED SCHEDULE

Future response activities are scheduled as follows:

Exhibit 8: Response Activity Schedule

Response Activity	Proposed Schedule	Anticipated Completion
2Q 2019 On-site groundwater sampling	June 2019	June 2019
2Q 2019 Off-site groundwater sampling	May 2019	June 2019
2Q 2019 Off-site soil gas sampling	June 2019	June 2019
HCS performance monitoring	Monthly	Ongoing
SSDS performance monitoring	Monthly	Ongoing
On-Site Source Area Investigation	Ongoing	2Q 2019
Off-Site Groundwater Delineation	Ongoing	Ongoing
Off-Site Vapor Intrusion Investigation	Ongoing	Ongoing
Off-Site Mitigation Response	Ongoing	2Q 2019

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8 REFERENCES

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USEPA. 2008. A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems. U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-08/003

USEPA. 2010. Region 5 Superfund Division. Vapor Intrusion Guidebook. October.

USEPA. 2015. Technical Guide for Addressing Petroleum Vapor Intrusion at Leaking Underground Storage Tank Sites. June.

Arcadis, 2017A. Quality Assurance Project Plan – On-Site. August.

Arcadis, 2017B. Quality Assurance Project Plan – Off-Site. August.

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TABLES

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation[1] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
LMW-15-01	673.98	7-12	11/16/15	8.42	11.36	12.00	665.56	2.94	662.62	664.97
			11/25/15	8.44	11.35	12.00	665.54	2.91	662.63	664.96
			11/30/15	8.38	11.36	12.00	665.60	2.98	662.62	665.01
			12/08/15	8.35	11.35	12.00	665.63	3.00	662.63	665.03
			11/06/17	Could Not Open						
			02/05/18							
			05/07/18	8.34	10.44	NM	665.64	2.10	663.54	665.22
			08/16/18	8.48	10.82	NM	665.50	2.34	663.16	665.03
			11/19/18	8.30	11.30	NM	665.68	3.00	662.68	665.08
			02/22/19	8.36	10.30	11.66	665.62	1.94	663.68	665.23
LMW-15-02	673.90	7-12	11/16/15	7.70	10.10	12.00	666.20	2.40	663.80	665.72
			11/25/15	7.68	9.83	12.00	666.22	2.15	664.07	665.79
			11/30/15	7.66	9.84	12.00	666.24	2.18	664.06	665.80
			12/09/15	7.60	9.76	12.00	666.30	2.16	664.14	665.86
			11/06/17	8.39	11.13	NM	665.51	2.74	662.77	664.96
			02/05/18	8.54	11.02	NM	665.36	2.48	662.88	664.86
			05/07/18	8.31	9.91	NM	665.59	1.60	663.99	665.27
			08/16/18	8.34	9.56	NM	665.56	1.22	664.34	665.31
			11/19/18	8.38	11.32	NM	665.52	2.94	662.58	664.93
			02/22/19	8.35	10.34	11.67	665.55	1.99	663.56	665.15
LMW-15-03	670.18	7-12	11/16/15	6.01	7.46	12.00	664.17	1.45	662.72	663.88
			11/25/15	5.92	7.04	12.00	664.26	1.12	663.14	664.04
			11/30/15	5.81	6.94	12.00	664.37	1.13	663.24	664.14
			12/11/15	5.83	7.26	12.00	664.35	1.43	662.92	664.06
			11/06/17	6.36	7.49	NM	663.82	1.13	662.69	663.59
			02/05/18	6.62	8.41	NM	663.56	1.79	661.77	663.20
			05/07/18	6.03	7.06	NM	664.15	1.03	663.12	663.94
			08/16/18	6.19	6.41	NM	663.99	0.22	663.77	663.95
			11/19/18	NM	NM	NM	NA	NA	NA	NA
			02/22/19	6.38	7.49	11.33	667.54	1.11	662.69	663.58
LMW-15-04	673.92	6-11	11/16/15	7.10	8.79	11.00	666.82	1.69	665.13	666.48
			11/25/15	7.10	8.79	11.00	666.82	1.69	665.13	666.48
			11/30/15	7.06	8.79	11.00	666.86	1.73	665.13	666.52
			12/09/15	7.00	8.86	11.00	666.92	1.86	665.06	666.55
			11/06/17	Could Not Open						
			02/05/18							
			05/07/18	7.68	9.20	NM	666.24	1.52	664.72	665.94
			08/16/18	7.60	9.28	NM	666.32	1.68	664.64	665.99
			11/19/18	7.64	9.20	NM	666.28	1.56	664.72	665.97
			02/22/19	7.69	9.19	10.79	666.23	1.50	664.73	665.93
LMW-15-05	673.93	7-12	11/16/15	8.50	10.20	12.00	665.43	1.70	663.73	665.09
			11/25/15	8.50	9.99	12.00	665.43	1.49	663.94	665.14
			11/30/15	8.47	9.98	12.00	665.46	1.51	663.95	665.16
			12/08/15	8.42	9.92	12.00	665.51	1.50	664.01	665.21
			11/06/17	Could Not Locate						
			02/05/18							
			05/07/18							
			08/16/18	8.98	10.53	NM	664.95	1.55	663.40	664.64
			11/19/2018	8.91	10.38	NM	665.02	1.47	663.55	664.73
			2/22/2019	8.99	10.49	11.85	664.94	1.50	663.44	664.644
LMW-15-06	673.93	7-12	11/16/15	6.92	8.82	12.00	667.01	1.90	665.11	666.63
			11/25/15	6.89	8.52	12.00	667.04	1.63	665.41	666.72
			11/30/15	6.74	8.39	12.00	667.19	1.65	665.54	666.86
			12/09/15	6.62	8.40	12.00	667.31	1.78	665.53	666.96
			11/06/17	Could Not Open						
			02/05/18							
			05/07/18	6.57	8.16	NM	667.36	1.59	665.77	667.05
			08/16/18	6.93	8.64	NM	667.00	1.71	665.29	666.66
			11/19/2018	6.88	8.40	NM	667.05	1.52	665.53	666.75
			2/22/2019	6.79	8.42	11.50	667.14	1.63	665.51	666.82

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Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

ARCADIS Design & Consultancy for natural and built assets

Well ID	TOC Elevation[1] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
LMW-15-07	673.52	7-12	11/16/15	NP	7.70	12.00	NA	NA	665.82	665.82
			11/25/15	NP	7.32	12.00	NA	NA	666.20	666.20
			11/30/15	7.14	7.15	12.00	666.38	0.01	666.37	666.38
			12/11/15	7.08	7.09	12.00	666.44	0.01	666.43	666.44
			11/06/17	7.43	7.53	NM	666.09	0.10	665.99	666.07
			02/05/18	Could Not Locate						
			05/07/18							
			08/16/18	7.22	7.34	NM	666.30	0.12	666.18	666.28
			11/19/2018	Could Not Locate						
			2/22/2019							
LMW-15-08	673.88	7.5-12.5	11/16/15	NP	6.30	12.50	NA	NA	667.58	667.58
			11/25/15	6.25	6.26	12.50	667.63	0.01	667.62	667.63
			11/30/15	6.12	6.13	12.50	667.76	0.01	667.75	667.76
			12/11/15	6.09	6.10	12.50	667.79	0.01	667.78	667.79
			11/06/17	Could Not Open						
			02/05/18							
			05/07/18	5.72	7.35	NM	668.16	1.63	666.53	667.84
			08/16/18	6.04	7.72	NM	667.84	1.68	666.16	667.51
			11/19/18	5.83	7.59	NM	668.05	1.76	666.29	667.70
			02/22/19	5.92	7.59	12.34	667.96	1.67	666.29	667.63
LMW-15-09	673.93	7-12	11/16/15	7.82	10.62	12.00	666.11	2.80	663.31	665.55
			11/25/15	7.76	10.51	12.00	666.17	2.75	663.42	665.62
			11/30/15	7.72	10.32	12.00	666.21	2.60	663.61	665.69
			12/10/15	7.73	10.38	12.00	666.20	2.65	663.55	665.67
			11/06/17	8.29	NA	11.75	665.64	3.71	NA	NA**
			02/05/18	8.58	10.50	NM	665.35	1.92	663.43	664.96
			05/07/18	7.95	9.39	NM	665.98	1.44	664.54	665.69
			08/16/18	8.12	10.45	NM	665.81	2.33	663.48	665.34
			11/19/18	8.04	10.01	NM	665.89	1.97	663.92	665.49
			02/22/19	8.09	10.40	11.70	665.84	2.31	663.53	665.38
LMW-15-10	673.89	7-12	11/16/15	8.40	9.26	12.00	665.49	0.86	664.63	665.32
			11/25/15	8.32	9.13	12.00	665.57	0.81	664.76	665.41
			11/30/15	8.24	8.96	12.00	665.65	0.72	664.93	665.51
			12/10/15	8.18	8.79	12.00	665.71	0.61	665.10	665.59
			11/06/17	8.69	9.50	NM	665.20	0.81	664.39	665.04
			02/05/18	8.50	8.58	NM	665.39	0.08	665.31	665.38
			05/07/18	8.15	8.28	NM	665.74	0.13	665.61	665.72
			08/16/18	8.47	9.16	NM	665.42	0.69	664.73	665.29
			11/19/2018	Could Not Locate						
			2/22/2019	8.34	8.65	11.50	665.55	0.31	665.24	665.49
MW-15-59D	675.17	94-99	01/07/16	NP	21.83	99.00	NA	NA	653.34	653.34
			01/19/16	NP	21.91	99.00	NA	NA	653.26	653.26
			04/19/17	NP	21.37	99.37	NA	NA	653.80	653.80
			07/24/17	NP	28.71	100.80	NA	NA	646.46	646.46
			11/06/17	NP	24.48	100.65	NA	NA	650.69	650.69
			02/05/18	NP	21.44	100.01	NA	NA	653.73	653.73
			05/07/18	NP	23.48	NM	NA	NA	651.69	651.69
			08/16/18	NP	30.45	NM	NA	NA	644.72	644.72
			11/19/18	NP	22.90	NM	NA	NA	652.27	652.27
			02/22/19	NP	21.29	100.02	NA	NA	653.88	653.88
MW-15-60D	675.75	93-98	01/07/16	NP	19.47	100.00	NA	NA	656.28	656.28
			01/19/16	NP	19.71	100.00	NA	NA	656.04	656.04
			04/19/17	NP	18.65	99.50	NA	NA	657.10	657.10
			07/24/17	NP	24.09	99.92	NA	NA	651.66	651.66
			11/06/17	NP	20.63	99.92	NA	NA	655.12	655.12
			02/05/18	NP	19.61	99.42	NA	NA	656.14	656.14
			05/07/18	NP	19.31	NM	NA	NA	656.44	656.44
			08/16/18	NP	23.85	NM	NA	NA	651.90	651.90
			11/19/18	NP	19.97	NM	NA	NA	655.78	655.78
			02/22/19	NP	19.41	99.46	NA	NA	656.34	656.34

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Table 1
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ARCADIS Design & Consultancy for natural and built assets

Well ID	TOC Elevation[1] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-15-61D	670.03	88-93	01/07/16	NP	76.49	93.00	NA	NA	593.54	593.54
			01/08/16	NP	88.02	93.00	NA	NA	582.01	582.01
			01/19/16	NP	73.23	93.00	NA	NA	596.80	596.80
			01/20/16	NP	89.31	93.00	NA	NA	580.72	580.72
			01/26/16	NP	84.09	93.00	NA	NA	585.94	585.94
			01/27/16	NP	82.42	93.00	NA	NA	587.61	587.61
			01/28/16	NP	80.71	93.00	NA	NA	589.32	589.32
			04/19/17	NP	24.71	93.87	NA	NA	645.32	645.32
			07/24/17	NP	24.74	94.09	NA	NA	645.29	645.29
			11/06/17	NP	26.58	94.72	NA	NA	643.45	643.45
			02/06/18	NP	25.79	94.71	NA	NA	644.24	644.24
			05/07/18	NP	25.63	94.24	NA	NA	644.40	644.40
			08/16/18	NP	56.16	NM	NA	NA	613.87	613.87
			11/19/18	NP	36.37	NM	NA	NA	633.66	633.66
			03/02/19	NP	21.90	92.85	NA	NA	648.13	648.13
MW-1	670.77	14-19	04/17/17	NP	3.82	18.61	NA	NA	666.95	666.95
			07/24/17	NP	3.57	18.44	NA	NA	667.20	667.20
			11/06/17	NP	3.93	18.78	NA	NA	666.84	666.84
			02/05/18	NP	NM[2]	NM[2]	NA[2]	NA[2]	NA[2]	NA[2]
			05/07/18	NP	3.88	18.60	NA	NA	666.89	666.89
			08/16/18	NP	3.73	NM	NA	NA	667.04	667.04
			11/19/18	NP	3.30	NM	NA	NA	667.47	667.47
			03/01/19	NP	4.77	18.53	NA	NA	666.00	666.00
MW-2	673.80	15.5-20.5	05/12/16	NP	6.35	19.52	NA	NA	667.45	667.45
			04/17/17	NP	6.91	19.45	NA	NA	666.89	666.89
			07/24/17	NP	6.99	19.44	NA	NA	666.81	666.81
			11/06/17	NP	7.24	19.50	NA	NA	666.56	666.56
			02/05/18	NP	7.42	19.55	NA	NA	666.38	666.38
			05/07/18	NP	6.92	19.47	NA	NA	666.88	666.88
			08/16/18	NP	7.03	NM	NA	NA	666.77	666.77
			11/19/18	NP	6.56	NM	NA	NA	667.24	667.24
			03/01/19	NP	6.90	19.42	NA	NA	666.90	666.90
MW-3	673.61	14-19	05/12/16	NP	5.82	18.79	NA	NA	667.79	667.79
			04/17/17	NP	7.09	18.72	NA	NA	666.52	666.52
			07/24/17	NP	7.29	18.43	NA	NA	666.32	666.32
			11/06/17	NP	7.61	18.80	NA	NA	666.00	666.00
			02/05/18	NP	7.70	18.87	NA	NA	665.91	665.91
			05/07/18	NP	7.23	18.74	NA	NA	666.38	666.38
			08/16/18	NP	7.48	NM	NA	NA	666.13	666.13
			11/19/18	NP	7.34	NM	NA	NA	666.27	666.27
			02/22/19	7.25	7.27	18.78	666.36	0.02	666.34	666.36
MW-4	673.85	15.5-20.5	05/13/16	NP	7.15	20.20	NA	NA	666.70	666.70
			04/17/17	NP	7.57	20.09	NA	NA	666.28	666.28
			07/24/17	NP	7.61	19.93	NA	NA	666.24	666.24
			11/06/17	NP	7.94	20.05	NA	NA	665.91	665.91
			02/05/18	NP	8.50	20.16	NA	NA	665.35	665.35
			05/07/18	NP	7.60	20.12	NA	NA	666.25	666.25
			08/16/18	NP	7.73	NM	NA	NA	666.12	666.12
			11/19/18	NP	7.59	NM	NA	NA	666.26	666.26
			02/22/19	7.64	7.67	19.93	666.21	0.03	666.18	666.20
MW-5*	674.40	15.5-20.5	05/13/16	NP	6.49	21.73	NA	NA	667.91	667.91
			07/24/17	NP	NM	NM	NA	NA	NA	NA
			11/06/17	NP	7.51	19.71	NA	NA	666.89	666.89
			02/05/18	NP	7.70	19.54	NA	NA	666.70	666.70
			05/07/18	NP	7.26	19.63	NA	NA	667.14	667.14
			08/16/18	NP	7.36	NM	NA	NA	667.04	667.04
			11/19/18	NP	7.20	NM	NA	NA	667.20	667.20
			02/22/19	7.22	7.23	19.63	667.18	0.01	667.17	667.18

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Well ID	TOC Elevation[1] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-7	670.89	18-23	07/24/17	NP	4.79	22.39	NA	NA	666.10	666.10
			11/06/17	NP	5.24	22.56	NA	NA	665.65	665.65
			02/06/18	NP	4.48	22.50	NA	NA	666.41	666.41
			05/07/18	NP	4.54	22.35	NA	NA	666.35	666.35
			08/16/18	NP	4.81	NM	NA	NA	666.08	666.08
			11/19/18	NP	4.59	NM	NA	NA	666.30	666.30
			02/22/19	NP	4.65	22.55	NA	NA	666.24	666.24
MW-9	671.18	19.5-24.5	05/09/16	NP	5.82	24.34	NA	NA	665.36	665.36
			04/17/17	NP	6.79	24.34	NA	NA	664.39	664.39
			07/24/17	NP	5.88	24.29	NA	NA	665.30	665.30
			11/06/17	NP	6.38	24.53	NA	NA	664.80	664.80
			02/05/18	NP	6.40	24.35	NA	NA	664.78	664.78
			05/07/18	NP	5.65	24.20	NA	NA	665.53	665.53
			08/16/18	NP	5.94	NM	NA	NA	665.24	665.24
			11/19/18	NP	5.66	NM	NA	NA	665.52	665.52
			02/22/19	NP	5.74	24.35	NA	NA	665.44	665.44
MW-10	673.78	16.5-21.5	05/13/16	NP	8.16	20.81	NA	NA	665.62	665.62
			04/17/17	NP	8.15	20.81	NA	NA	665.63	665.63
			07/24/17	NP	8.58	20.76	NA	NA	665.20	665.20
			11/06/17	NP	6.00	20.84	NA	NA	667.78	667.78
			02/05/18	NP	9.01	15.89	NA	NA	664.77	664.77
			05/07/18	NP	8.68	20.24	NA	NA	665.10	665.10
			08/16/18	NP	8.68	NM	NA	NA	665.10	665.10
			11/19/18	NP	8.49	NM	NA	NA	665.29	665.29
			02/22/19	NP	8.56	10.77	NA	NA	665.22	665.22
MW-14	671.24	15-20	07/24/17	NP	6.63	19.53	NA	NA	664.61	664.61
			11/06/17	NP	7.01	19.61	NA	NA	664.23	664.23
			02/05/18	NP	7.29	19.80	NA	NA	663.95	663.95
			05/07/18	NP	6.14	19.65	NA	NA	665.10	665.10
			08/16/18	NP	6.52	NM	NA	NA	664.72	664.72
			11/19/18	NP	6.19	NM	NA	NA	665.05	665.05
			02/26/19	NP	6.21	19.49	NA	NA	665.03	665.03
MW-18	670.41	13-18	05/09/16	NP	6.29	17.89	NA	NA	664.12	664.12
			04/17/17	NP	6.67	17.90	NA	NA	663.74	663.74
			07/24/17	NP	6.92	17.70	NA	NA	663.49	663.49
			11/06/17	NP	7.31	17.80	NA	NA	663.10	663.10
			02/06/18	NP	7.45	17.85	NA	NA	662.96	662.96
			05/04/18	NP	6.53	18.01	NA	NA	663.88	663.88
			08/16/18	NP	6.82	NM	NA	NA	663.59	663.59
			11/19/18	NP	6.45	17.92	NA	NA	663.96	663.96
			02/22/19	NP	6.76	18.01	NA	NA	663.65	663.65
MW-19	669.65	15-20	05/13/16	LNAPL						
			04/17/17							
			07/24/17							
			11/06/17	NP	5.91	19.85	NA	NA	663.74	663.74
			02/05/18	NP	6.23	19.84	NA	NA	663.42	663.42
			05/07/18	NP	5.51	19.98	NA	NA	664.14	664.14
			08/16/18	NP	5.67	NM	NA	NA	663.98	663.98
			11/19/18	NM	NM	NM	NA	NA	NA	NA
			02/22/19	NM	6.47	19.49	NA	NA	663.18	663.18
MW-20	669.33	13.5-18.5	07/24/17	NP	6.29	16.98	NA	NA	663.04	663.04
			11/06/17	NP	6.52	16.84	NA	NA	662.81	662.81
			02/05/18	NP	6.68	16.62	NA	NA	662.65	662.65
			05/11/18	NP	5.95	16.48	NA	NA	663.38	663.38
			08/16/18	NP	5.70	NM	NA	NA	663.63	663.63
			11/19/18	NP	5.49	16.00	NA	NA	663.84	663.84
			02/22/19	NP	5.97	15.81	NA	NA	663.36	663.36

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Well ID	TOC Elevation[1] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-21*	670.76	13.5-18.5	05/13/16	Could Not Open						
			04/17/17							
			07/24/17							
			11/06/17							
			02/06/18	NP	7.95	17.74	NA	NA	662.81	662.81
			05/07/18	NP	7.15	17.60	NA	NA	663.61	663.61
			08/16/18	NP	6.65	NM	NA	NA	664.11	664.11
			11/19/18	NP	6.85	17.71	NA	NA	663.91	663.91
			02/22/19	NP	7.40	17.60	NA	NA	663.36	663.36
MW-22	670.18	16.5-21.5	05/10/16	NP	6.18	20.83	NA	NA	664.00	664.00
			04/17/17	NP	7.13	21.41	NA	NA	663.05	663.05
			07/24/17	NP	7.53	20.42	NA	NA	662.65	662.65
			11/06/17	NP	7.51	20.51	NA	NA	662.67	662.67
			02/05/18	NP	7.61	20.48	NA	NA	662.57	662.57
			05/07/18	NP	6.66	20.50	NA	NA	663.52	663.52
			08/16/18	NP	6.71	NM	NA	NA	663.47	663.47
			11/19/18	NP	7.14	NM	NA	NA	663.04	663.04
			02/22/19	NP	7.54	20.45	NA	NA	662.64	662.64
MW-23	669.24	15-20	05/09/16	NP	6.23	19.82	NA	NA	663.01	663.01
			04/17/17	NP	6.67	19.79	NA	NA	662.57	662.57
			07/24/17	NP	6.69	19.72	NA	NA	662.55	662.55
			11/06/17	NP	6.60	19.72	NA	NA	662.64	662.64
			02/06/18	NP	6.93	NM	NA	NA	662.31	662.31
			05/07/18	NP	5.67	19.70	NA	NA	663.57	663.57
			08/16/18	NP	5.80	NM	NA	NA	663.44	663.44
			11/19/18	NP	5.75	NM	NA	NA	663.49	663.49
			02/22/19	Could Not Access, covered by ice/snow						
MW-24	675.48	19-24	04/17/17	NP	9.32	23.85	NA	NA	666.16	666.16
			07/24/17	NP	10.01	23.90	NA	NA	665.47	665.47
			11/06/17	NP	10.40	23.76	NA	NA	665.08	665.08
			02/05/18	NP	10.37	23.99	NA	NA	665.11	665.11
			05/07/18	NP	9.38	23.70	NA	NA	666.10	666.10
			08/16/18	NP	10.01	NM	NA	NA	665.47	665.47
			11/19/18	NP	9.56	NM	NA	NA	665.92	665.92
			02/22/19	NP	9.55	23.95	NA	NA	665.93	665.93
MW-25	675.04	16-21	04/17/17	NP	5.35	20.54	NA	NA	669.69	669.69
			07/24/17	NP	6.34	20.52	NA	NA	668.70	668.70
			11/06/17	NP	6.51	20.38	NA	NA	668.53	668.53
			02/05/18	NP	6.55	20.52	NA	NA	668.49	668.49
			05/07/18	NP	4.98	20.25	NA	NA	670.06	670.06
			08/16/18	NP	6.19	NM	NA	NA	668.85	668.85
			11/19/18	NP	5.77	NM	NA	NA	669.27	669.27
			02/22/19	NP	5.51	20.48	NA	NA	669.53	669.53
MW-26	673.39	4.5-14.5	07/24/17	NP	5.96	14.09	NA	NA	667.43	667.43
			11/06/17	NP	6.09	14.10	NA	NA	667.30	667.30
			02/05/18	NP	6.08	14.05	NA	NA	667.31	667.31
			05/07/18	NP	5.24	13.90	NA	NA	668.15	668.15
			08/16/18	NP	5.98	NM	NA	NA	667.41	667.41
			11/19/18	NP	5.52	NM	NA	NA	667.87	667.87
			02/28/19	NP	4.55	14.50	NA	NA	668.84	668.84
MW-27*	671.66	4-14	07/24/17	Could Not Locate						
			11/06/17							
			02/05/18							
			05/07/18							
			08/16/18							
			11/19/18							
			02/22/19							

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ARCADIS Design & Consultancy for natural and built assets

Well ID	TOC Elevation[1] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-28	668.15	2-12	05/09/16	NP	3.21	11.81	NA	NA	664.94	664.94
			04/17/17	NP	3.78	11.69	NA	NA	664.37	664.37
			07/24/17	NP	4.61	11.73	NA	NA	663.54	663.54
			11/06/17	NP	4.81	11.68	NA	NA	663.34	663.34
			02/05/18	NP	4.63	11.65	NA	NA	663.52	663.52
			05/07/18	NP	3.67	11.67	NA	NA	664.48	664.48
			08/16/18	NP	4.64	NM	NA	NA	663.51	663.51
			11/19/18	NP	4.11	NM	NA	NA	664.04	664.04
			02/22/19	NP	3.98	11.64	NA	NA	664.17	664.17
MW-29	669.45	5-15	05/13/16	NP	4.10	14.85	NA	NA	665.35	665.35
			04/17/17	NP	4.53	14.84	NA	NA	664.92	664.92
			07/24/17	NP	5.41	14.90	NA	NA	664.04	664.04
			11/06/17	NP	6.65	15.81	NA	NA	662.80	662.80
			02/05/18	NP	5.52	14.84	NA	NA	663.93	663.93
			05/07/18	NP	4.64	14.80	NA	NA	664.81	664.81
			08/16/18	NP	5.44	NM	NA	NA	664.01	664.01
			11/19/18	NP	5.10	NM	NA	NA	664.35	664.35
			02/22/19	NP	5.09	14.87	NA	NA	664.36	664.36
MW-30	670.70	19-24	05/09/16	NP	9.37	24.82	NA	NA	661.33	661.33
			04/17/17	NP	9.86	24.78	NA	NA	660.84	660.84
			07/24/17	NP	9.93	24.73	NA	NA	660.77	660.77
			11/06/17	NP	10.47	24.84	NA	NA	660.23	660.23
			02/05/18	NP	10.31	24.69	NA	NA	660.39	660.39
			05/07/18	NP	9.03	24.70	NA	NA	661.67	661.67
			08/16/18	NP	9.51	NM	NA	NA	661.19	661.19
			11/19/18	NP	9.23	NM	NA	NA	661.47	661.47
			02/22/19	NP	9.45	24.91	NA	NA	661.25	661.25
MW-31	670.82	17-22	05/09/16	NP	9.96	21.75	NA	NA	660.86	660.86
			04/17/17	NP	10.13	21.78	NA	NA	660.69	660.69
			07/24/17	NP	10.19	21.69	NA	NA	660.63	660.63
			11/06/17	NP	10.65	21.92	NA	NA	660.17	660.17
			02/05/18	NP	10.70	21.48	NA	NA	660.12	660.12
			05/07/18	NP	9.23	21.67	NA	NA	661.59	661.59
			08/16/18	NP	9.58	NM	NA	NA	661.24	661.24
			11/19/18	NP	9.31	NM	NA	NA	661.51	661.51
			02/22/19	NP	9.69	21.66	NA	NA	661.13	661.13
MW-32	670.43	18-23	05/09/16	NP	9.64	22.92	NA	NA	660.79	660.79
			04/17/17	NP	9.52	22.91	NA	NA	660.91	660.91
			07/24/17	NP	9.71	22.71	NA	NA	660.72	660.72
			11/06/17	NP	10.18	23.03	NA	NA	660.25	660.25
			02/05/18	NP	10.17	22.78	NA	NA	660.26	660.26
			05/07/18	NP	8.73	22.83	NA	NA	661.70	661.70
			08/16/18	NP	9.07	NM	NA	NA	661.36	661.36
			11/19/18	NP	8.72	NM	NA	NA	661.71	661.71
			02/22/19	NP	9.19	19.93	NA	NA	661.24	661.24
MW-33	669.94	14-19	05/09/16	NP	8.68	18.76	NA	NA	661.26	661.26
			04/17/17	NP	8.76	18.75	NA	NA	661.18	661.18
			07/24/17	NP	8.84	19.72	NA	NA	661.10	661.10
			11/06/17	NP	8.58	19.08	NA	NA	661.36	661.36
			02/05/18	NP	8.63	18.74	NA	NA	661.31	661.31
			05/07/18	NP	7.34	18.66	NA	NA	662.60	662.60
			08/16/18	NP	7.59	NM	NA	NA	662.35	662.35
			11/19/18	NP	7.33	NM	NA	NA	662.61	662.61
			02/22/19	NP	7.95	18.83	NA	NA	661.99	661.99

See Notes on Last Page.

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

ARCADIS Design & Consultancy for natural and built assets

Well ID	TOC Elevation[1] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-34	670.49	16.5-21.5	05/09/16	NP	7.98	21.21	NA	NA	662.51	662.51
			04/17/17	NP	8.83	21.30	NA	NA	661.66	661.66
			07/24/17	NP	9.45	21.23	NA	NA	661.04	661.04
			11/06/17	NP	10.02	21.65	NA	NA	660.47	660.47
			02/05/18	NP	9.73	21.35	NA	NA	660.76	660.76
			05/07/18	NP	8.34	21.26	NA	NA	662.15	662.15
			08/16/18	NP	9.18	NM	NA	NA	661.31	661.31
			11/19/18	NP	8.79	NM	NA	NA	661.70	661.70
			02/22/19	NP	9.18	20.20	NA	NA	661.31	661.31
MW-35	669.44	19.5-24.5	05/09/16	NP	6.62	24.48	NA	NA	662.82	662.82
			04/17/17	NP	7.16	24.63	NA	NA	662.28	662.28
			07/24/17	NP	8.55	24.44	NA	NA	660.89	660.89
			11/06/17	NP	9.11	24.45	NA	NA	660.33	660.33
			02/05/18	NP	8.63	24.50	NA	NA	660.81	660.81
			05/07/18	NP	7.03	24.40	NA	NA	662.41	662.41
			08/16/18	NP	8.30	NM	NA	NA	661.14	661.14
			11/19/18	NP	7.76	NM	NA	NA	661.68	661.68
			02/22/19	NP	7.64	24.55	NA	NA	661.80	661.80
MW-36	676.39	20-25	07/24/17	NP	9.49	24.75	NA	NA	666.90	666.90
			11/06/17	NP	10.98	24.88	NA	NA	665.41	665.41
			02/05/18	NP	10.15	24.91	NA	NA	666.24	666.24
			05/07/18	NP	9.28	24.72	NA	NA	667.11	667.11
			08/16/18	NP	9.55	NM	NA	NA	666.84	666.84
			11/19/18	NP	9.34	NM	NA	NA	667.05	667.05
			02/22/19	NP	9.42	24.89	NA	NA	666.97	666.97
MW-37	671.24	18-23	07/24/17	NP	8.14	24.75	NA	NA	663.10	663.10
			11/06/17	NP	8.26	23.18	NA	NA	662.98	662.98
			02/05/18	NP	8.33	22.80	NA	NA	662.91	662.91
			05/07/18	NP	7.01	22.76	NA	NA	664.23	664.23
			08/16/18	NP	7.49	NM	NA	NA	663.75	663.75
			11/19/18	NP	7.13	NM	NA	NA	664.11	664.11
			02/22/19	NP	7.54	22.92	NA	NA	663.70	663.70
MW-38	671.79	15-20	04/17/17	NP	8.23	19.55	NA	NA	663.56	663.56
			07/24/17	NP	8.69	23.69	NA	NA	663.10	663.10
			11/06/17	NP	8.53	19.75	NA	NA	663.26	663.26
			02/05/18	NP	8.67	19.65	NA	NA	663.12	663.12
			05/07/18	NP	7.28	19.50	NA	NA	664.51	664.51
			08/16/18	NP	7.61	NM	NA	NA	664.18	664.18
			11/19/18	NP	7.40	NM	NA	NA	664.39	664.39
			02/22/19	NP	8.00	19.59	NA	NA	663.79	663.79
MW-39	672.19	19.5-24.5	04/19/17	NP	11.08	24.14	NA	NA	661.11	661.11
			07/24/17	NP	11.41	23.92	NA	NA	660.78	660.78
			11/06/17	NP	11.64	24.36	NA	NA	660.55	660.55
			02/05/18	NP	11.63	24.30	NA	NA	660.56	660.56
			05/07/18	NP	10.25	24.16	NA	NA	661.94	661.94
			08/16/18	NP	10.55	NM	NA	NA	661.64	661.64
			11/19/18	NP	10.24	NM	NA	NA	661.95	661.95
			02/22/19	NP	10.74	24.10	NA	NA	661.45	661.45
MW-40	670.65	15-20	05/09/16	NP	9.94	19.72	NA	NA	660.71	660.71
			04/19/17	NP	9.98	19.72	NA	NA	660.67	660.67
			07/24/17	NP	10.10	19.66	NA	NA	660.55	660.55
			11/06/17	NP	10.58	19.75	NA	NA	660.07	660.07
			02/05/18	NP	10.62	19.43	NA	NA	660.03	660.03
			05/07/18	NP	9.15	19.64	NA	NA	661.50	661.50
			08/16/18	NP	9.46	NM	NA	NA	661.19	661.19
			11/19/18	NP	9.13	NM	NA	NA	661.52	661.52
			02/22/19	NP	9.54	19.62	NA	NA	661.11	661.11

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Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

ARCADIS Design & Consultancy for natural and built assets

Well ID	TOC Elevation[1] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-41	670.34	16-21	05/09/16	NP	8.20	20.97	NA	NA	662.14	662.14
			04/19/17	NP	8.97	20.99	NA	NA	661.37	661.37
			07/24/17	NP	9.39	20.78	NA	NA	660.95	660.95
			11/06/17	NP	9.96	21.25	NA	NA	660.38	660.38
			02/05/18	NP	9.75	20.85	NA	NA	660.59	660.59
			05/07/18	NP	8.35	20.94	NA	NA	661.99	661.99
			08/16/18	NP	9.06	NM	NA	NA	661.28	661.28
			11/19/18	NP	8.73	NM	NA	NA	661.61	661.61
			02/22/19	NP	8.81	20.93	NA	NA	661.53	661.53
MW-42	670.10	16-21	05/09/16	NP	7.29	11.52	NA	NA	662.81	662.81
			04/19/17	NP	8.01	20.48	NA	NA	662.09	662.09
			07/24/17	NP	9.13	20.43	NA	NA	660.97	660.97
			11/06/17	NP	9.76	20.77	NA	NA	660.34	660.34
			02/05/18	NP	9.32	20.55	NA	NA	660.78	660.78
			05/07/18	NP	7.81	20.43	NA	NA	662.29	662.29
			08/16/18	NP	8.94	NM	NA	NA	661.16	661.16
			11/19/18	NP	8.46	NM	NA	NA	661.64	661.64
			02/22/19	NP	8.42	19.42	NA	NA	661.68	661.68
MW-43	669.24	17-22	05/09/16	NP	6.34	21.85	NA	NA	662.90	662.90
			04/19/17	NP	6.80	26.82	NA	NA	662.44	662.44
			07/24/17	NP	8.34	21.79	NA	NA	660.90	660.90
			11/06/17	NP	8.92	21.98	NA	NA	660.32	660.32
			02/05/18	NP	8.42	21.80	NA	NA	660.82	660.82
			05/07/18	NP	6.78	21.76	NA	NA	662.46	662.46
			08/16/18	NP	8.17	NM	NA	NA	661.07	661.07
			11/19/18	NP	7.54	NM	NA	NA	661.70	661.70
			02/22/19	NP	7.34	21.95	NA	NA	661.90	661.90
MW-44	671.48	16-21	05/09/16	NP	6.59	17.42	NA	NA	664.89	664.89
			04/19/17	NP	7.48	19.95	NA	NA	664.00	664.00
			07/24/17	NP	8.38	20.93	NA	NA	663.10	663.10
			11/06/17	NP	8.55	20.74	NA	NA	662.93	662.93
			02/05/18	NP	8.51	20.90	NA	NA	662.97	662.97
			05/07/18	NP	7.40	20.75	NA	NA	664.08	664.08
			08/16/18	NP	8.01	NM	NA	NA	663.47	663.47
			11/19/18	NP	7.90	NM	NA	NA	663.58	663.58
			02/22/19	NP	8.20	20.72	NA	NA	663.28	663.28
MW-45	670.83	15-20	05/09/16	NP	14.22	19.81	NA	NA	656.61	656.61
			04/19/17	NP	11.45	19.67	NA	NA	659.38	659.38
			07/24/17	NP	11.07	19.76	NA	NA	659.76	659.76
			11/06/17	NP	9.82	19.75	NA	NA	661.01	661.01
			02/05/18	NP	10.30	19.72	NA	NA	660.53	660.53
			05/07/18	NP	9.43	19.99	NA	NA	661.40	661.40
			08/16/18	NP	9.02	NM	NA	NA	661.81	661.81
			11/19/18	NP	9.91	19.69	NA	NA	660.92	660.92
			02/22/19	NP	10.67	19.71	NA	NA	660.16	660.16
MW-46	670.84	16-21	05/09/16	NP	8.42	20.45	NA	NA	662.42	662.42
			04/19/17	NP	10.61	20.30	NA	NA	660.23	660.23
			07/24/17	NP	10.33	19.78	NA	NA	660.51	660.51
			11/06/17	NP	9.76	19.81	NA	NA	661.08	661.08
			02/05/18	NP	10.20	19.81	NA	NA	660.64	660.64
			05/07/18	NP	9.84	19.94	NA	NA	661.00	661.00
			08/16/18	NP	9.47	NM	NA	NA	661.37	661.37
			11/19/18	NP	10.18	19.63	NA	NA	660.66	660.66
			02/22/19	NP	10.79	19.64	NA	NA	660.05	660.05
MW-47	671.33	16-21	05/09/16	NP	7.53	11.92	NA	NA	663.80	663.80
			04/19/17	NP	9.88	20.76	NA	NA	661.45	661.45
			07/24/17	NP	10.11	19.96	NA	NA	661.22	661.22
			11/06/17	NP	9.87	19.98	NA	NA	661.46	661.46
			02/05/18	NP	10.11	19.98	NA	NA	661.22	661.22
			05/07/18	NP	9.49	19.94	NA	NA	661.84	661.84
			08/16/18	NP	9.65	NM	NA	NA	661.68	661.68
			11/19/18	NP	10.02	19.93	NA	NA	661.31	661.31
			02/22/19	NP	10.50	19.92	NA	NA	660.83	660.83

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Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

ARCADIS Design & Consultancy for natural and built assets

Well ID	TOC Elevation[1] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-48	670.98	17-22	05/09/16	NP	6.33	21.76	NA	NA	664.65	664.65
			04/19/17	NP	8.93	21.62	NA	NA	662.05	662.05
			07/24/17	NP	9.70	20.42	NA	NA	661.28	661.28
			11/06/17	NP	9.33	20.34	NA	NA	661.65	661.65
			02/05/18	NP	10.08	20.35	NA	NA	660.90	660.90
			05/07/18	NP	8.84	20.60	NA	NA	662.14	662.14
			08/16/18	NP	9.34	NM	NA	NA	661.64	661.64
			11/19/18	NP	8.97	NM	NA	NA	662.01	662.01
			03/04/19	NP	9.80	20.40	NA	NA	661.18	661.18
MW-49	669.07	12.5-17.5	05/12/16	NP	6.57	17.31	NA	NA	662.50	662.50
			04/19/17	NP	7.03	17.31	NA	NA	662.04	662.04
			07/24/17	NP	6.94	17.37	NA	NA	662.13	662.13
			11/06/17	NM	NM	NM	NA	NA	NM	NM
			02/05/18	NP	7.32	17.44	NA	NA	661.75	661.75
			05/07/18	NP	6.88	17.28	NA	NA	662.19	662.19
			08/16/18	NP	6.39	NM	NA	NA	662.68	662.68
			11/19/18	NP	6.11	17.14	NA	NA	662.96	662.96
			02/22/19	NP	6.75	17.27	NA	NA	662.32	662.32
MW-50	670.16	16-21	05/09/16	NP	5.42	20.34	NA	NA	664.74	664.74
			04/19/17	NP	6.77	20.23	NA	NA	663.39	663.39
			07/24/17	NP	8.16	18.42	NA	NA	662.00	662.00
			11/06/17	NP	8.15	18.81	NA	NA	662.01	662.01
			02/05/18	NP	8.47	18.44	NA	NA	661.69	661.69
			05/07/18	NP	6.81	19.00	NA	NA	663.35	663.35
			08/16/18	NP	7.55	NM	NA	NA	662.61	662.61
			11/19/18	NP	7.44	NM	NA	NA	662.72	662.72
			02/22/19	NP	7.61	18.81	NA	NA	662.55	662.55
MW-51	671.07	15-20	04/19/17	NP	6.12	19.04	NA	NA	664.95	664.95
			07/24/17	NP	7.82	18.92	NA	NA	663.25	663.25
			11/06/17	NP	7.58	18.91	NA	NA	663.49	663.49
			02/05/18	NP	7.89	18.95	NA	NA	663.18	663.18
			05/07/18	NP	6.24	18.85	NA	NA	664.83	664.83
			08/16/18	NP	7.33	NM	NA	NA	663.74	663.74
			11/19/18	NP	7.05	NM	NA	NA	664.02	664.02
			03/01/19	NP	7.03	14.56	NA	NA	664.04	664.04
MW-52	669.16	15-20	05/09/16	NP	6.39	19.81	NA	NA	662.77	662.77
			04/19/17	NP	6.59	19.76	NA	NA	662.57	662.57
			07/24/17	NP	8.33	19.75	NA	NA	660.83	660.83
			11/06/17	NP	8.87	19.83	NA	NA	660.29	660.29
			02/05/18	NP	8.43	19.57	NA	NA	660.73	660.73
			05/07/18	NP	6.57	19.76	NA	NA	662.59	662.59
			08/16/18	NP	8.30	NM	NA	NA	660.86	660.86
			11/19/18	NP	7.52	NM	NA	NA	661.64	661.64
			02/22/19	NP	7.36	19.73	NA	NA	661.80	661.80
MW-53	668.59	16-21	05/09/16	NP	6.05	20.85	NA	NA	662.54	662.54
			04/18/17	NP	6.03	20.83	NA	NA	662.56	662.56
			07/24/17	NP	7.92	20.63	NA	NA	660.67	660.67
			11/06/17	NP	8.35	21.08	NA	NA	660.24	660.24
			02/05/18	NP	7.98	20.68	NA	NA	660.61	660.61
			05/07/18	NP	6.08	20.81	NA	NA	662.51	662.51
			08/16/18	NP	7.87	NM	NA	NA	660.72	660.72
			11/19/18	NP	7.10	NM	NA	NA	661.49	661.49
			02/22/19	NP	6.73	20.62	NA	NA	661.86	661.86
MW-54	668.49	16-21	04/19/17	NP	6.01	20.86	NA	NA	662.48	662.48
			07/24/17	NP	8.08	20.52	NA	NA	660.41	660.41
			11/06/17	NP	8.17	20.71	NA	NA	660.32	660.32
			02/05/18	NP	7.96	20.56	NA	NA	660.53	660.53
			05/07/18	NP	6.09	20.82	NA	NA	662.40	662.40
			08/16/18	NP	8.01	NM	NA	NA	660.48	660.48
			11/19/18	NP	7.06	NM	NA	NA	661.43	661.43
			02/22/19	Could Not Access, covered by ice/snow						

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Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

ARCADIS Design & Consultancy for natural and built assets

Well ID	TOC Elevation[1] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-55	670.04	15-20	04/19/17	NP	6.84	19.82	NA	NA	663.20	663.20
			07/24/17	NP	8.95	19.56	NA	NA	661.09	661.09
			11/06/17	NP	8.98	20.03	NA	NA	661.06	661.06
			02/05/18	NP	8.78	19.64	NA	NA	661.26	661.26
			05/07/18	NP	6.91	19.74	NA	NA	663.13	663.13
			08/16/18	NP	8.66	NM	NA	NA	661.38	661.38
			11/19/18	NP	7.86	NM	NA	NA	662.18	662.18
			02/22/19	NP	7.63	19.55	NA	NA	662.41	662.41
MW-56	670.26	16-21	04/19/17	NP	6.67	20.69	NA	NA	663.59	663.59
			07/24/17	NP	8.18	20.58	NA	NA	662.08	662.08
			11/06/17	NP	8.37	20.76	NA	NA	661.89	661.89
			02/05/18	NP	8.08	20.59	NA	NA	662.18	662.18
			05/07/18	NP	6.62	26.44	NA	NA	663.64	663.64
			08/16/18	NP	7.95	NM	NA	NA	662.31	662.31
			11/19/18	NP	7.40	NM	NA	NA	662.86	662.86
			02/22/19	NP	7.19	20.39	NA	NA	663.07	663.07
MW-57	668.93	17-22	04/19/17	NP	5.89	21.72	NA	NA	663.04	663.04
			07/24/17	NP	7.83	21.63	NA	NA	661.10	661.10
			11/06/17	NP	8.12	21.83	NA	NA	660.81	660.81
			02/06/18	NP	7.86	21.80	NA	NA	661.07	661.07
			05/07/18	NP	5.79	21.73	NA	NA	663.14	663.14
			08/16/18	NP	7.59	NM	NA	NA	661.34	661.34
			11/19/18	NP	6.78	NM	NA	NA	662.15	662.15
			02/22/19	NP	6.73	21.66	NA	NA	662.20	662.20
MW-58	668.73	15-20	05/09/16	NP	3.51	19.74	NA	NA	665.22	665.22
			04/19/17	NP	4.28	19.72	NA	NA	664.45	664.45
			07/24/17	NP	5.68	18.70	NA	NA	663.05	663.05
			11/06/17	NP	5.78	19.69	NA	NA	662.95	662.95
			02/05/18	NP	5.63	19.40	NA	NA	663.10	663.10
			05/07/18	NP	4.01	19.68	NA	NA	664.72	664.72
			08/16/18	NP	5.43	NM	NA	NA	663.30	663.30
			11/19/18	NP	5.03	NM	NA	NA	663.70	663.70
			03/01/19	NP	4.65	19.66	NA	NA	664.08	664.08
MW-62	671.06	16.3-21.3	04/20/17	NP	7.89	21.13	NA	NA	663.17	663.17
			07/24/17	NP	10.11	21.01	NA	NA	660.95	660.95
			11/06/17	NP	9.43	21.14	NA	NA	661.63	661.63
			02/05/18	NP	9.46	21.15	NA	NA	661.60	661.60
			05/07/18	NP	7.72	21.15	NA	NA	663.34	663.34
			08/16/18	NP	8.75	NM	NA	NA	662.31	662.31
			11/19/18	NP	8.46	NM	NA	NA	662.60	662.60
			02/22/19	NP	8.52	21.13	NA	NA	662.54	662.54
MW-63	669.96	7-12	04/20/17	NP	7.32	11.75	NA	NA	662.64	662.64
			07/24/17	NP	8.45	11.78	NA	NA	661.51	661.51
			11/06/17	NP	8.18	11.80	NA	NA	661.78	661.78
			02/05/18	NP	8.77	11.80	NA	NA	661.19	661.19
			05/07/18	NP	7.24	11.80	NA	NA	662.72	662.72
			08/16/18	NP	7.82	NM	NA	NA	662.14	662.14
			11/19/18	NP	7.89	NM	NA	NA	662.07	662.07
			02/22/19	NP	8.36	11.79	NA	NA	661.60	661.60
MW-64	671.09	15-20	04/20/17	NP	8.55	21.10	NA	NA	662.54	662.54
			07/24/17	NP	9.83	20.05	NA	NA	661.26	661.26
			11/06/17	NP	10.20	20.36	NA	NA	660.89	660.89
			02/06/18	NP	10.14	20.19	NA	NA	660.95	660.95
			05/07/18	NP	8.44	20.05	NA	NA	662.65	662.65
			08/16/18	NP	9.42	NM	NA	NA	661.67	661.67
			11/19/18	NP	9.12	NM	NA	NA	661.97	661.97
			02/28/19	NP	9.05	20.20	NA	NA	662.04	662.04
MW-65	671.98	16-21	04/20/17	NP	8.26	21.18	NA	NA	663.72	663.72
			07/24/17	NP	9.87	21.11	NA	NA	662.11	662.11
			11/06/17	NP	9.68	21.11	NA	NA	662.30	662.30
			02/05/18	NP	10.05	21.16	NA	NA	661.93	661.93
			05/07/18	NP	8.37	21.04	NA	NA	663.61	663.61
			08/16/18	NP	9.13	NM	NA	NA	662.85	662.85
			11/19/18	NP	9.06	NM	NA	NA	662.92	662.92
			02/28/19	NP	9.49	19.59	NA	NA	662.49	662.49

See Notes on Last Page.

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

ARCADIS Design & Consultancy for natural and built assets

Well ID	TOC Elevation[1] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-66	669.83	15-20	04/20/17	NP	6.55	19.49	NA	NA	663.28	663.28
			07/24/17	NP	7.81	19.35	NA	NA	662.02	662.02
			11/06/17	NP	7.51	19.23	NA	NA	662.32	662.32
			02/05/18	NP	8.03	19.06	NA	NA	661.80	661.80
			05/07/18	NP	6.79	19.02	NA	NA	663.04	663.04
			08/16/18	NP	7.33	NM	NA	NA	662.50	662.50
			11/19/18	NP	7.25	NM	NA	NA	662.58	662.58
			03/04/19	NP	7.65	19.11	NA	NA	662.18	662.18
MW-67	671.32	9-14	04/20/17	NP	9.44	13.97	NA	NA	661.88	661.88
			07/24/17	NP	9.84	13.84	NA	NA	661.48	661.48
			11/06/17	NP	9.76	14.01	NA	NA	661.56	661.56
			02/05/18	NP	10.00	14.02	NA	NA	661.32	661.32
			05/07/18	NP	9.14	14.01	NA	NA	662.18	662.18
			08/16/18	NP	9.48	NM	NA	NA	661.84	661.84
			11/19/18	NP	9.30	NM	NA	NA	662.02	662.02
			02/28/19	NP	9.89	14.12	NA	NA	661.43	661.43
MW-68	670.71	15-20	04/20/17	NP	9.39	21.85	NA	NA	661.32	661.32
			07/24/17	NP	9.55	19.86	NA	NA	661.16	661.16
			11/06/17	NP	9.51	19.85	NA	NA	661.20	661.20
			02/05/18	NP	9.68	19.85	NA	NA	661.03	661.03
			05/15/18	NP	8.68	19.82	NA	NA	662.03	662.03
			08/16/18	NP	9.04	NM	NA	NA	661.67	661.67
			11/19/18	NP	9.17	19.79	NA	NA	661.54	661.54
			03/08/19	NP	9.69	15.29	NA	NA	661.02	661.02
MW-69	670.27	15-20	04/20/17	NP	9.71	19.91	NA	NA	660.56	660.56
			07/24/17	NP	NM	NM	NA	NA	NM	NM
			11/06/17	NP	9.91	19.98	NA	NA	660.36	660.36
			02/05/18	NP	9.78	20.01	NA	NA	660.49	660.49
			05/07/18	NP	14.78	19.91	NA	NA	655.49	655.49
			08/16/18	NP	8.90	NM	NA	NA	661.37	661.37
			11/19/18	NP	8.79	NM	NA	NA	661.48	661.48
			02/22/19	NP	9.30	19.98	NA	NA	660.97	660.97
MW-70	671.36	15-20	04/20/17	NP	11.46	20.14	NA	NA	659.90	659.90
			07/24/17	NP	11.02	20.18	NA	NA	660.34	660.34
			11/06/17	NP	10.23	20.15	NA	NA	661.13	661.13
			02/05/18	NP	10.74	20.12	NA	NA	660.62	660.62
			05/07/18	NP	9.72	20.13	NA	NA	661.64	661.64
			08/16/18	NP	9.67	NM	NA	NA	661.69	661.69
			11/19/18	NP	10.40	20.09	NA	NA	660.96	660.96
			02/22/19	NP	11.13	15.30	NA	NA	660.23	660.23
MW-71	671.04	15-20	04/20/17	NP	12.45	20.16	NA	NA	658.59	658.59
			07/24/17	NP	11.84	20.22	NA	NA	659.20	659.20
			11/06/17	NP	10.74	20.21	NA	NA	660.30	660.30
			02/05/18	NP	11.13	20.18	NA	NA	659.91	659.91
			05/07/18	NP	10.23	20.35	NA	NA	660.81	660.81
			08/16/18	NP	9.79	NM	NA	NA	661.25	661.25
			11/19/18	NP	11.03	20.14	NA	NA	660.01	660.01
			02/22/19	NP	11.66	20.24	NA	NA	659.38	659.38
PW-16-01	670.23	9.7-19.7	07/24/17	NP	9.04	21.58	NA	NA	661.19	661.19
			11/06/17	NP	8.45	21.58	NA	NA	661.78	661.78
			02/05/18	NP	8.70	21.62	NA	NA	661.53	661.53
			05/07/18	NP	7.24	21.44	NA	NA	662.99	662.99
			08/16/18	NP	7.56	NM	NA	NA	662.67	662.67
			11/19/18	NP	8.00	NM	NA	NA	662.23	662.23
			02/22/19	NP	8.71	21.60	NA	NA	661.52	661.52

See Notes on Last Page.

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

ARCADIS Design & Consultancy for natural and built assets

Well ID	TOC Elevation[(1)] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
PW-16-02	669.97	6-21	07/24/17	NP	6.77	8.36	NA	NA	663.20	663.20
			11/06/17	NP	6.54	23.79	NA	NA	663.43	663.43
			02/05/18	NP	6.65	24.55	NA	NA	663.32	663.32
			05/07/18	NP	4.85	23.65	NA	NA	665.12	665.12
			08/16/18	NP	6.40	NM	NA	NA	663.57	663.57
			11/19/18	NP	5.72	NM	NA	NA	664.25	664.25
			02/25/19	NP	5.29	23.69	NA	NA	664.68	664.68
TW-16-01	669.53	12-17	07/24/17	NP	8.36	16.80	NA	NA	661.17	661.17
			11/06/17	NP	7.68	16.64	NA	NA	661.85	661.85
			02/05/18	NP	7.91	16.87	NA	NA	661.62	661.62
			05/07/18	NP	6.87	16.64	NA	NA	662.66	662.66
			08/16/18	NP	6.78	NM	NA	NA	662.75	662.75
			11/19/18	NP	7.14	NM	NA	NA	662.39	662.39
			02/22/19	NP	7.91	16.62	NA	NA	661.62	661.62
TW-16-02	669.43	12-17	04/20/17	NP	4.48	18.85	NA	NA	664.95	664.95
			07/24/17	NP	8.00	17.14	NA	NA	661.43	661.43
			11/06/17	NP	7.48	17.17	NA	NA	661.95	661.95
			02/05/18	NP	7.71	17.15	NA	NA	661.72	661.72
			05/07/18	NP	6.85	16.91	NA	NA	662.58	662.58
			08/16/18	NP	6.62	NM	NA	NA	662.81	662.81
			11/19/18	NP	6.94	NM	NA	NA	662.49	662.49
			02/22/19	NP	7.67	17.13	NA	NA	661.76	661.76
TW-16-03	669.34	9-19	07/24/17	NP	6.10	18.65	NA	NA	663.24	663.24
			11/06/17	NP	6.00	18.65	NA	NA	663.34	663.34
			02/05/18	NP	6.05	18.75	NA	NA	663.29	663.29
			05/07/18	NP	4.29	18.72	NA	NA	665.05	665.05
			08/16/18	NP	5.79	NM	NA	NA	663.55	663.55
			11/19/18	NP	5.13	NM	NA	NA	664.21	664.21
			02/25/19	NP	4.74	18.89	NA	NA	664.60	664.60
TW-16-04	669.80	9-19	04/20/17	NP	4.90	19.02	NA	NA	664.90	664.90
			07/24/17	NP	6.46	18.93	NA	NA	663.34	663.34
			11/06/17	NP	6.36	18.93	NA	NA	663.44	663.44
			02/05/18	NP	6.43	18.73	NA	NA	663.37	663.37
			05/07/18	NP	4.65	18.90	NA	NA	665.15	665.15
			08/16/18	NP	6.17	NM	NA	NA	663.63	663.63
			11/19/18	NP	5.59	NM	NA	NA	664.21	664.21
			02/25/19	NP	5.10	18.92	NA	NA	664.70	664.70
PZ-01	670.88	15-20	02/22/19	NP	8.64	19.42	NA	NA	662.24	662.24
PZ-02	670.67	15-20	02/22/19	NP	8.90	19.70	NA	NA	661.77	661.77
PZ-03	670.62	15-20	02/22/19	NP	9.23	19.68	NA	NA	661.39	661.39
PZ-04	671.03	16-21	02/22/19	NP	10.18	19.75	NA	NA	660.85	660.85
PZ-05	670.92	15-20	02/22/19	NP	10.60	19.63	NA	NA	660.32	660.32
PZ-06	671.82	16-21	02/22/19	NP	10.85	20.97	NA	NA	660.97	660.97
PZ-07	670.87	15-20	02/22/19	NP	9.49	19.78	NA	NA	661.38	661.38
PZ-08	668.62	15-20	02/22/19	NP	5.85	19.50	NA	NA	662.77	662.77
PZ-09	671.91	15-20	03/08/19	NP	10.36	19.75	NA	NA	661.55	661.55
PZ-10	671.42	15-20	02/22/19	NP	10.39	19.76	NA	NA	661.03	661.03
PZ-11	671.06	15-20	02/22/19	NP	10.72	19.83	NA	NA	660.34	660.34
PZ-12	671.29	15-20	02/22/19	NP	11.74	19.65	NA	NA	659.55	659.55
PZ-13	671.21	15-20	02/22/19	NP	10.46	18.77	NA	NA	660.75	660.75

Notes:
Water level measurements collected from top of well casing.
(1) TOC elevation re-surveyed on October 12-13, and/or November 20, 2017 by Geodetic Designs Inc.
(2) MW-1 submerged under water during the first quarter of 2018 sampling event.
* Monitoring well TOC could not be re-surveyed due to access.
** Unable to calculate a corrected groundwater elevation due to LNAPL thickness throughout well screen.

Abbreviations:
ft. feet
ft. amsl feet above mean sea level
ft. bgs feet below ground surface
ft. btoc feet below top of casing
LNAPL light non-aqueous phase liquid
NA not applicable
NM not measured
NP no product detected
TOC top of casing

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-1							MW-2								MW-3							
Screen Interval (ft. bgs):			14-19							15.5-20.5								14-19							
Date:	Unit		4/26/2017	7/28/2017	11/10/2017	5/11/2018	8/14/2018	10/29/2018	03/01/2019	4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/10/2018	10/26/2018	03/01/2019	4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	03/01/2019
Semi-volatile Organic Compounds (SVOCs)																									
1,4-Dioxane	µg/l	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.5 J	1.8 J	4.5	4.4	5.7	5.1	4.9	3.9	0.67 J	0.79 J	0.57 J	< 2.0	0.50 J	1.4 J	1.3 J	1.0 J
Volatile Organic Compounds (VOCs)																									
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 130	< 250	< 330	< 330	< 130	< 710	< 250	< 500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.33 J	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.37 J	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	0.21 J
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	1.0 J	< 10	< 10	< 10	< 10	3.8 J	< 250	< 500	< 670	< 670	< 250	< 1,400	< 500	< 1,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	1.2 J	< 250	< 500	< 670	< 670	< 250	< 1,400	< 500	< 1,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	4.0 J	< 10	2.8 J	< 10	< 10	28	< 250	< 500	< 670	< 670	< 250	< 1,400	< 500	< 1,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 130	< 250	< 330	< 330	< 130	< 710	< 250	< 500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**630**	**1,200**	**1,000**	**1,400**	**1,700 J**	**2,300**	**1,900**	**2,600**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 130	< 250	< 330	< 330	< 130	< 710	< 250	< 500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 50	< 100	< 130	< 130	< 50	< 290	< 100	< 200	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 250	< 500	< 670	< 670	< 250	< 1,400	< 500	< 1,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 250	< 500	< 670	< 670	< 250	< 1,400	< 500	< 1,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-1							MW-2								MW-3							
Screen Interval (ft. bgs):		MDEQ Non-Residential Drinking Water Criteria	14-19							15.5-20.5								14-19							
Date:	Unit		4/26/2017	7/28/2017	11/10/2017	5/11/2018	8/14/2018	10/29/2018	03/01/2019	4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/10/2018	10/26/2018	03/01/2019	4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	03/01/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 50	< 100	< 130	< 130	< 50	< 290	< 100	< 200	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**200**	**270**	**260**	**390**	**510**	**510**	**530**	**760**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	**8.2 J**	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**200**	**160**	**140**	**210**	**190**	**170**	**190**	**230**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gases																									
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																									
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																									
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-4								MW-5							MW-7						
Screen Interval (ft. bgs):			15.5-20.5								15.5-20.5							18-23						
Date:	Unit		4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	03/01/2019	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	03/01/2019	7/31/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	02/27/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	1.1 J	0.78 J	< 20	0.38 J	0.76 J	< 200	< 200	< 200	0.35 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5,000	< 5,000	< 5,000	< 8,300	< 5,000 J	< 5,000	< 2,500	< 10,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.73 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10,000	< 10,000	< 10,000	< 17,000	< 10,000 J	< 10,000	< 5,000	< 20,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10,000	< 10,000	< 10,000	< 17,000	< 10,000 J	< 10,000	< 5,000	< 20,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10,000	< 10,000	< 10,000	< 17,000	< 10,000 J	< 10,000	< 5,000	< 20,000	< 10	< 10	< 10	1.9 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5,000	< 5,000	< 5,000	< 8,300	< 5,000 J	< 5,000	< 2,500	< 10,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	**32,000**	**27,000**	**21,000**	**26,000**	**21,000 J**	**22,000**	**24,000**	**21,000**	< 1.0	< 1.0	< 1.0	0.58 J	< 1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5,000	< 5,000	< 5,000	< 8,300	< 5,000 J	< 5,000	< 2,500	< 10,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2,000	< 2,000	< 2,000	< 3,300	< 2,000 J	< 2,000	< 1,000	< 4,000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10,000	< 10,000	< 10,000	< 17,000	< 10,000 J	< 10,000	< 5,000	< 20,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10,000	< 10,000	< 10,000	< 17,000	< 10,000 J	< 10,000	< 5,000	< 20,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-4								MW-5							MW-7						
Screen Interval (ft. bgs):			15.5-20.5								15.5-20.5							18-23						
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	03/01/2019	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	03/01/2019	7/31/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	02/27/2019
Methyl-tert-butylether	µg/l	40	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2,000	< 2,000	< 2,000	< 3,300	< 2,000 J	< 2,000	< 1,000	< 4,000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	**1,200**	**1,100**	**850 J**	**1,100 J**	**860 J**	**1,000**	**1,100**	**1,000 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	**21,000**	**18,000**	**19,000**	**23,000**	**23,000 J**	**31,000**	**35,000**	**41,000**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.18 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	**570 J**	**640 J**	**470 J**	< 1,700	**610 J**	< 1,000	**610**	**1,100 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-9							MW-10								MW-14						
Screen Interval (ft. bgs):			19.5-24.5							16.5-21.5								15-20						
Date:	Unit		7/28/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	03/01/2019	4/27/2017	8/4/2017	11/9/2017	2/13/2018	5/10/2018	8/9/2018	11/7/2018	03/01/2019	7/28/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	02/26/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	8.6	11	12	3.6	4.3	3.9	3.8	5.9	4.5	5.6	4.4	4.4	4.8	5.5	4.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 330	< 500	< 1,000	< 500	< 710	< 1,300	< 500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 500	< 670	< 1,000	< 2,000	< 1,000	< 1,400	< 2,500	< 1,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 500	< 670	< 1,000	< 2,000	< 1,000	< 1,400	< 2,500	< 1,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 500	< 670	< 1,000	< 2,000	< 1,000	< 1,400	< 2,500	< 1,000	< 10	< 10	< 10	3.0 J	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 330	< 500	< 1,000	< 500	< 710	< 1,300	< 500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	0.31 J	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 330	< 500	< 1,000	< 500	< 710	< 1,300	< 500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 100	< 130	< 200	< 400	< 200	< 290	< 500	< 200	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 500	< 670	< 1,000	< 2,000	< 1,000	< 1,400	< 2,500	< 1,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 500	< 670	< 1,000	< 2,000	< 1,000	< 1,400	< 2,500	< 1,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-9							MW-10								MW-14						
Screen Interval (ft. bgs):			19.5-24.5							16.5-21.5								15-20						
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	7/28/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	03/01/2019	4/27/2017	8/4/2017	11/9/2017	2/13/2018	5/10/2018	8/9/2018	11/7/2018	03/01/2019	7/28/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	02/26/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 100	< 130	< 200	< 400	< 200	< 290	< 500	< 200	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	**14 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	**5.5**	**7.1**	**4.6**	**2.2**	1.7	1.5	0.94 J	**1,200**	**2,100**	**2,000**	**1,900**	**3,100**	**2,300**	**3,100**	**3,300**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-15-59D								MW-15-60D								MW-15-61D							
Screen Interval (ft. bgs):			94-99								93-98								88-93							
Date:	Unit		4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/15/2018	8/9/2018	10/31/2018	03/05/2019	4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/11/2018	8/7/2018	10/29/2018	03/05/2019	4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/15/2018	8/7/2018	11/1/2018	03/02/2019
Semi-volatile Organic Compounds (SVOCs)																										
1,4-Dioxane	µg/l	350	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																										
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	3.3 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	12	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.57 J	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	1.6 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.51 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.91 J	0.58 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	0.86 J	0.58 J	0.62 J	0.76 J	0.69 J	0.43 J	0.34 J	0.62 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.48 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.50 J	< 1.0	< 1.0	< 1.0	0.12 J	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	0.62 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.47 J	< 1.0	< 1.0	< 1.0

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-15-59D								MW-15-60D								MW-15-61D							
Screen Interval (ft. bgs):		MDEQ Non-Residential Drinking Water Criteria	94-99								93-98								88-93							
Date:	Unit		4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/15/2018	8/9/2018	10/31/2018	03/05/2019	4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/11/2018	8/7/2018	10/29/2018	03/05/2019	4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/15/2018	8/7/2018	11/1/2018	03/02/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	0.35 J	0.46 J	0.30 J	0.31 J	< 1.0	0.17 J	< 1.0	< 1.0	< 1.0	0.33 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	0.25 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.28 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.13 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.31 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gases																										
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																										
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																										
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-18								MW-19						MW-20							MW-21				
Screen Interval (ft. bgs):			13-18								15-20						13.5-18.5							13.5-18.5				
Date:	Unit		4/21/2017	7/28/2017	11/10/2017	2/14/2018	5/8/2018	8/7/2018	10/29/2018	02/26/2019	11/14/2017	2/14/2018	5/14/2018	8/10/2018	10/26/2018	02/28/2019	7/31/2017	11/10/2017	2/12/2018	5/11/2018	8/9/2018	10/29/2018	02/26/2019	2/13/2018	5/15/2018	8/14/2018	10/26/2018	02/26/2019
Semi-volatile Organic Compounds (SVOCs)																												
1,4-Dioxane	µg/l	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	120	130	140	130	150	170	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	25	5.3	6.5	14	18
Volatile Organic Compounds (VOCs)																												
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	6.3	4.8	3.6	4.7	6.6	5.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA*	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5,000	< 5,000	< 5,000	< 8,300	< 13,000
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.49 J	0.52 J	0.36 J	0.48 J	0.47 J	0.47 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.17 J	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.3 J	< 10	< 10	< 10	< 10	< 10	1.4 J	< 10	< 10	< 10	< 10,000	< 10,000	1,500 J	< 17,000	< 25,000
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	0.87 J	< 10	< 10	< 10	< 10	0.81 J	2.0 J	0.63 J	< 10	0.52 J	< 10,000	< 10,000	830 J	< 17,000	< 25,000
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	3.2 J	5.6 J	< 10	< 10	< 10	< 10	2.2 J	3.8 J	6.9 J	< 10	< 10	< 10,000	2,100 J	< 10,000	< 17,000	< 25,000
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5,000	< 5,000	< 5,000	< 8,300	< 13,000
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.9	6.5	1.7	< 1.0	4.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	0.94 J	0.71 J	1.0	1.6	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**20,000**	**18,000**	**26,000**	**40,000**	**25,000**
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5,000	**560 J**	< 5,000	< 8,300	< 13,000
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2,000	< 2,000	< 2,000	< 3,300	< 5,000
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10,000	< 10,000	< 10,000	< 17,000	< 25,000
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.1 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10,000	< 10,000	910 J	< 17,000	< 25,000
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-18								MW-19						MW-20							MW-21				
Screen Interval (ft. bgs):		MDEQ Non-Residential Drinking Water Criteria	13-18								15-20						13.5-18.5							13.5-18.5				
Date:	Unit		4/21/2017	7/28/2017	11/10/2017	2/14/2018	5/8/2018	8/7/2018	10/29/2018	02/26/2019	11/14/2017	2/14/2018	5/14/2018	8/10/2018	10/26/2018	02/28/2019	7/31/2017	11/10/2017	2/12/2018	5/11/2018	8/9/2018	10/29/2018	02/26/2019	2/13/2018	5/15/2018	8/14/2018	10/26/2018	02/26/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000 J	< 1,000	< 1,700	< 2,500
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2,000	< 2,000	< 2,000	< 3,300	< 5,000
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	**190 J**	< 1,700	< 2,500
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	1.0	0.91 J	1.0	0.97 J	0.66 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**460 J**	< 1,000	< 1,000	**1,900**	**570 J**
Vinyl chloride	µg/l	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.8	1.5	1.3	< 1.0	1.6	1.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**5,400**	**3,700**	**3,400**	**7,800**	**5,600**
Gases																												
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																												
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																												
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-22								MW-23							MW-24							
Screen Interval (ft. bgs):			16.5-21.5								15-20							19-24							
Date:	Unit		4/25/2017	8/2/2017	11/7/2017	2/6/2018	5/10/2018	8/6/2018	10/30/2018	02/25/2019	8/3/2017	11/7/2017	2/6/2018	5/7/2018	8/6/2018	10/30/2018	2/25/2019	4/26/2017	8/2/2017	11/10/2017	2/14/2018	5/14/2018	8/14/2018	10/29/2018	03/01/2019
Semi-volatile Organic Compounds (SVOCs)																									
1,4-Dioxane	µg/l	350	32	26	49	22	34	19	37	23	0.50 J	< 20	< 20	< 2.0	< 200	< 200	NS	< 2.0	0.26 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																									
1,1,1-Trichloroethane	µg/l	200	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 310	< 500	< 250	< 710	< 330	< 250	< 500	< 250	< 5,000	< 10,000	< 5,000	< 500	< 13,000	< 13,000	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 630	< 1,000	< 500	< 1,400	< 670	< 500	< 1,000	< 500	< 10,000	< 20,000	< 10,000	< 1,000	< 25,000	< 25,000	NS	< 10	< 10	< 10	< 10	< 10	1.7 J	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 630	< 1,000	< 500	< 1,400	< 670	< 500	< 1,000	< 500	< 10,000	< 20,000	< 10,000	< 1,000	< 25,000	< 25,000	NS	< 10	< 10	< 10	< 10	< 10	0.77 J	< 10	< 10
Acetone	µg/l	2,100	< 630	< 1,000	< 500	< 1,400	< 670	< 500	< 1,000	< 500	< 10,000	< 20,000	< 10,000	< 1,000	< 25,000	< 25,000	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 310	< 500	< 250	< 710	< 330	< 250	< 500	< 250	< 5,000	< 10,000	< 5,000	< 500	< 13,000	< 13,000	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	**130**	**210**	25 J	**200**	**180**	**310**	**180 J**	**190**	**21,000**	**78,000**	**33,000**	**2,400**	**43,000**	**66,000**	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	**140 J**	< 500	< 250	**120 J**	< 330	< 250	< 500	< 250	< 5,000	< 10,000	**750 J**	< 500	< 13,000	< 13,000	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 130	< 200	< 100	< 290	< 130	< 100	< 200	< 100	< 2,000	< 4,000	< 2,000	< 200	< 5,000	< 5,000	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 630	< 1,000	< 500	< 1,400	< 670	< 500	< 1,000	< 500	< 10,000	< 20,000	< 10,000	< 1,000	< 25,000	< 25,000	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 630	< 1,000	< 500	< 1,400	< 670	< 500	< 1,000	< 500	< 10,000	< 20,000	< 10,000	< 1,000	< 25,000	< 25,000	NS	< 10	< 10	< 10	< 10	< 10	0.88 J	< 10	< 10
Methylcyclohexane	µg/l	NS	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-22								MW-23							MW-24							
Screen Interval (ft. bgs):		MDEQ Non-Residential Drinking Water Criteria	16.5-21.5								15-20							19-24							
Date:	Unit		4/25/2017	8/2/2017	11/7/2017	2/6/2018	5/10/2018	8/6/2018	10/30/2018	02/25/2019	8/3/2017	11/7/2017	2/6/2018	5/7/2018	8/6/2018	10/30/2018	2/25/2019	4/26/2017	8/2/2017	11/10/2017	2/14/2018	5/14/2018	8/14/2018	10/29/2018	03/01/2019
Methyl-tert-butylether	µg/l	40	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 130	< 200	< 100	< 290	< 130	< 100	< 200	< 100	< 2,000	< 4,000	< 2,000	< 200	< 5,000	< 5,000	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	**1,200**	**4,100**	**1,800**	**180**	**2,300 J**	**3,000**	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	**5,300**	**25,000**	**11,000**	**1,000**	**12,000**	**18,000**	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	**2,300**	**2,100**	**1,600**	**1,500**	**2,400**	**1,300**	**2,600 J**	**1,700**	**1,100**	**2,400**	**820 J**	**77 J**	< 2,500	**1,600 J**	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gases																									
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																									
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																									
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-25								MW-26						MW-28						
Screen Interval (ft. bgs):			16-21								4.5-14.5						2-12						
Date:	Unit		4/21/2017	8/2/2017	11/14/2017	2/13/2018	5/9/2018	8/13/2018	10/29/2018	02/27/2019	8/4/2017	11/14/2017	5/15/2018	8/9/2018	10/26/2018	02/28/2019	8/3/2017	11/8/2017	2/7/2018	5/15/2018	8/13/2018	10/31/2018	02/26/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	0.75 J	1.1 J	0.86 J	0.68 J	0.99 J	1.9 J	3.2	4.5	0.25 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.44 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																							
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	28	26	25	24	37	35	15
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	14	12	10	13	15	15	7.9
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.71 J	1.6	0.90 J	0.57 J	0.33 J	0.43 J	0.40 J
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	0.91 J	0.50 J	0.43 J	0.86 J	0.51 J	0.24 J
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	3.1 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-25								MW-26						MW-28						
Screen Interval (ft. bgs):			16-21								4.5-14.5						2-12						
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/21/2017	8/2/2017	11/14/2017	2/13/2018	5/9/2018	8/13/2018	10/29/2018	02/27/2019	8/4/2017	11/14/2017	5/15/2018	8/9/2018	10/26/2018	02/28/2019	8/3/2017	11/8/2017	2/7/2018	5/15/2018	8/13/2018	10/31/2018	02/26/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 2.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.22 J	< 2.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.68 J	0.59 J	0.45 J	0.51 J	0.66 J	0.70 J	0.30 J
Vinyl chloride	µg/l	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	0.33 J
Gases																							
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																							
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																							
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-29								MW-30								MW-31							
Screen Interval (ft. bgs):			5-15								19-24								17-22							
Date:	Unit		4/26/2017	8/4/2017	11/14/2017	2/14/2018	5/14/2018	8/9/2018	10/26/2018	02/28/2019	4/25/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019	4/21/2017	7/28/2017	11/10/2017	2/14/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019
Semi-volatile Organic Compounds (SVOCs)																										
1,4-Dioxane	µg/l	350	1.4 J	3.8	9.0	0.90 J	0.47 J	< 2.0	4.3	< 2.0	10	11	13	12	14	15	15	15	< 2.0	0.47 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																										
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	NA*	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.18 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	4.4 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	3.4 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-29								MW-30								MW-31							
Screen Interval (ft. bgs):			5-15								19-24								17-22							
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/26/2017	8/4/2017	11/14/2017	2/14/2018	5/14/2018	8/9/2018	10/26/2018	02/28/2019	4/25/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019	4/21/2017	7/28/2017	11/10/2017	2/14/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.68 J	0.84 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gases																										
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.50	NA	0.31 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.50	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	65	NA	360	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																										
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	2.6	NA	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	< 0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	52	NA	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	2.1	NA	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																										
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	**3,700**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	**630**	NA	**3,700**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	**77**	NA	**150**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	**70**	NA	**150**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-32							MW-33							MW-34							
Screen Interval (ft. bgs):			18-23							14-19							16.5-21.5							
Date:	Unit		7/28/2017	11/7/2017	2/12/2018	5/8/2018	8/7/2018	11/7/2018	02/28/2019	7/28/2017	11/8/2017	2/14/2018	5/8/2018	8/9/2018	11/2/2018	02/27/2019	4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	0.28 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	8.3	6.1	6.6	7.4	4.9	7.6	6.7	6.9
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.17 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	2.7 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 1.0	0.31 J	0.37 J	0.50 J	0.32 J	0.38 J	0.48 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.37 J	0.35 J	< 1.0	< 1.0	0.33 J	0.44 J	0.32 J
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-32							MW-33							MW-34							
Screen Interval (ft. bgs):			18-23							14-19							16.5-21.5							
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	7/28/2017	11/7/2017	2/12/2018	5/8/2018	8/7/2018	11/7/2018	02/28/2019	7/28/2017	11/8/2017	2/14/2018	5/8/2018	8/9/2018	11/2/2018	02/27/2019	4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	< 1.0	0.67 J	< 1.0	< 1.0	< 1.0	0.38 J	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.52 J	1.5	2.0	0.97 J	0.87 J	1.1	1.2	0.85 J
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-35							MW-36							MW-37						
Screen Interval (ft. bgs):			19.5-24.5							20-25							18-23						
Date:	Unit		7/27/2017	11/7/2017	2/14/2018	5/9/2018	8/10/2018	11/1/2018	03/02/2019	7/28/2017	11/10/2017	2/15/2018	5/14/2018	8/14/2018	10/29/2018	03/01/2019	8/1/2017	11/10/2017	2/12/2018	5/10/2018	8/9/2018	10/31/2018	02/27/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	4.9	4.6	4.3	4.7	4.3	4.5	5.8	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.37 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																							
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.17 J	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	1.7 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	0.89 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.32 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	1.1 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-35							MW-36							MW-37						
Screen Interval (ft. bgs):			19.5-24.5							20-25							18-23						
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	7/27/2017	11/7/2017	2/14/2018	5/9/2018	8/10/2018	11/1/2018	03/02/2019	7/28/2017	11/10/2017	2/15/2018	5/14/2018	8/14/2018	10/29/2018	03/01/2019	8/1/2017	11/10/2017	2/12/2018	5/10/2018	8/9/2018	10/31/2018	02/27/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.14 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.11 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	**3.5**	**2.4**	**4.5**	**7.2**	**3.0**	1.8	**4.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gases																							
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																							
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																							
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-38								MW-39								MW-40					
Screen Interval (ft. bgs):		MDEQ Non-Residential Drinking Water Criteria	15-20								20-25								20-25					
Date:	Unit		4/26/2017	7/28/2017	11/8/2017	2/15/2018	5/8/2018	8/9/2018	11/1/2018	02/27/2019	4/26/2017	7/28/2017	11/7/2017	2/15/2018	5/8/2018	8/7/2018	11/1/2018	02/28/2019	7/28/2017	11/15/2017	5/8/2018	8/10/2018	11/1/2018	2/25/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NS
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NS
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NS
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NS
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.7	3.2	2.3 J	2.4	2.6	NS
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NS
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NS
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NS
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-38								MW-39								MW-40					
Screen Interval (ft. bgs):			15-20								20-25								20-25					
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/26/2017	7/28/2017	11/8/2017	2/15/2018	5/8/2018	8/9/2018	11/1/2018	02/27/2019	4/26/2017	7/28/2017	11/7/2017	2/15/2018	5/8/2018	8/7/2018	11/1/2018	02/28/2019	7/28/2017	11/15/2017	5/8/2018	8/10/2018	11/1/2018	2/25/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NS
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.41 J	0.48 J	0.34 J	0.37 J	0.39 J	NS
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Vinyl chloride	µg/l	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.77 J	1.8	1.3 J	0.54 J	1.4	NS
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-41								MW-42								MW-43							
Screen Interval (ft. bgs):			16-21								16-21								17-22							
Date:	Unit		4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019	4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/9/2018	8/10/2018	11/1/2018	03/02/2019	4/27/2017	7/27/2017	11/9/2017	2/13/2018	5/9/2018	8/10/2018	11/1/2018	03/02/2019
Semi-volatile Organic Compounds (SVOCs)																										
1,4-Dioxane	µg/l	350	1.9 J	1.4 J	2.2	0.77 J	0.75 J	1.6 J	1.9 J	1.4 J	1.3 J	1.8 J	2.4	1.8 J	2.2	2.3	2.6	3.1	3.6	3.5	3.5	2.2	2.8	3.3	4.0	3.3
Volatile Organic Compounds (VOCs)																										
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0	0.20 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	1.9	1.8	2.3	2.1	2.6	2.5	2.9	3.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-41								MW-42								MW-43							
Screen Interval (ft. bgs):			16-21								16-21								17-22							
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019	4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/9/2018	8/10/2018	11/1/2018	03/02/2019	4/27/2017	7/27/2017	11/9/2017	2/13/2018	5/9/2018	8/10/2018	11/1/2018	03/02/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.34 J	0.35 J	0.42 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.13 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	**3.2**	1.9	**2.4**	**2.1**	**5.3**	**3.0**	2.0	**3.2**	0.81 J	0.99 J	1.0	0.81 J	0.99 J	0.60 J	0.60 J	0.70 J	**8.4**	**3.0**	**2.2**	**8.0**	**6.4 J**	1.0	0.71 J	**3.4**
Gases																										
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.48 J	NA	0.74 J	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.50	NA	0.27 J	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	190	NA	210	NA	NA	NA	NA	NA
Other																										
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.4	NA	4.3	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.50	NA	< 0.20	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	220	NA	**260**	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	4.3	NA	NA	NA	NA	NA
Metals																										
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**1,700**	NA	**2,800**	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**2,500**	NA	**3,900**	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**210**	NA	**190**	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**210**	NA	**200**	NA	NA	NA	NA	NA

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-44								MW-45								MW-46							
Screen Interval (ft. bgs):			16-21								15-20								16-21							
Date:	Unit		4/25/2017	8/2/2017	11/7/2017	2/6/2018	5/14/2018	8/13/2018	10/30/2018	02/25/2019	4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/8/2018	8/9/2018	11/2/2018	02/26/2019	4/24/2017	7/31/2017	11/13/2017	2/12/2018	5/14/2018	8/9/2018	11/2/2018	02/26/2019
Semi-volatile Organic Compounds (SVOCs)																										
1,4-Dioxane	µg/l	350	12	7.1	12	9.0	11	9.5	2.7	5.7	4.1	2.5	< 2.0	< 2.0	0.40 J	1.0 J	1.1 J	< 2.0	21	0.83 J	3.7	11	13	8.5	7.0	3.0
Volatile Organic Compounds (VOCs)																										
1,1,1-Trichloroethane	µg/l	200	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	1.9 J	2.8	3.6	2.4	1.0 J	1.3	0.80 J	0.32 J
1,1-Dichloroethene	µg/l	7.0	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	0.78 J	0.90 J	0.46 J	< 1.7	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 31	< 50	< 100	< 33	< 67	< 100	< 100	< 100	< 2,500	< 2,500	< 330	< 500	< 330	< 170	< 50	< 83	< 25	< 5.0	< 13	< 5.0	< 8.4	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	0.55 J	< 1.7	0.57 J	0.21 J	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	0.21 J	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 63	< 100	< 200	< 67	< 130	< 200	< 200	< 200	< 5,000	< 5,000	< 670	< 1,000	< 670	< 330	< 100	< 170	< 50	< 10	< 25	< 10	< 17	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 63	< 100	< 200	< 67	< 130	< 200	< 200	< 200	< 5,000	< 5,000	< 670	< 1,000	< 670	< 330	< 100	< 170	< 50	< 10	< 25	< 10	< 17	< 10	< 10	< 10
Acetone	µg/l	2,100	< 63	< 100	< 200	< 67	< 130	< 200	< 200	< 200	< 5,000	< 5,000	< 670	< 1,000	< 670	< 330	< 100	< 170	< 50	< 10	< 25	< 10	< 17	< 10	< 10	< 10
Benzene	µg/l	5.0	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 31	< 50	< 100	< 33	< 67	< 100	< 100	< 100	< 2,500	< 2,500	< 330	< 500	< 330	< 170	< 50	< 83	< 25	< 5.0	< 13	< 5.0	< 8.4	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	**10,000**	**8,100**	**2,100**	**1,800**	**1,200**	**1,000**	**640**	**340**	21	15	22	14	6.0	11	4.6	1.4
cis-1,3-Dichloropropene	µg/l	NS	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	**8.3 J**	< 50	**18 J**	4.1 J	**9.7 J**	< 100	< 100	< 100	**330 J**	< 2,500	< 330	< 500	< 330	< 170	< 50	< 83	4.1 J	< 5.0	< 13	< 5.0	< 8.4	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 13	< 20	< 40	< 13	< 27	< 40	< 40	< 40	< 1,000	< 1,000	< 130	< 200	< 130	< 67	5.0 J	< 33	< 10	< 2.0	< 5.0	< 2.0	< 3.3	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 63	< 100	< 200	< 67	< 130	< 200	< 200	< 200	< 5,000	< 5,000	< 670	< 1,000	< 670	< 330	< 100	< 170	< 50	< 10	< 25	< 10	< 17	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 63	< 100	< 200	< 67	< 130	< 200	< 200	< 200	< 5,000	< 5,000	< 670	< 1,000	< 670	< 330	< 100	< 170	< 50	< 10	< 25	< 10	< 17	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-44								MW-45								MW-46							
Screen Interval (ft. bgs):			16-21								15-20								16-21							
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/25/2017	8/2/2017	11/7/2017	2/6/2018	5/14/2018	8/13/2018	10/30/2018	02/25/2019	4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/8/2018	8/9/2018	11/2/2018	02/26/2019	4/24/2017	7/31/2017	11/13/2017	2/12/2018	5/14/2018	8/9/2018	11/2/2018	02/26/2019
Methyl-tert-butylether	µg/l	40	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	7.9	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 13	< 20	< 40	< 13	< 27	< 40	< 40	< 40	< 1,000	< 1,000	< 130	< 200	< 130	< 67	< 20	< 33	< 10	< 2.0	< 5.0	< 2.0	< 3.3	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	6.5 J	< 17	1.6 J	2.6	2.7	1.7	0.86 J	1.2	0.56 J	0.20 J
trans-1,3-Dichloropropene	µg/l	NS	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 500	< 500	< 67	< 100	< 67	< 33	2.7 J	< 17	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	**230**	**380**	**520**	**210**	**270**	**240**	**240**	**180**	**7,600**	**5,400**	**1,500**	**1,200**	**1,400**	**800**	**420**	**380**	**150**	**13**	**57**	**38**	**30**	**66**	**32**	**17**
Gases																										
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																										
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																										
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-47							MW-48								MW-49						
Screen Interval (ft. bgs):			16-21							17-22								12.5-17.5						
Date:	Unit		4/24/2017	7/31/2017	11/10/2017	5/10/2018	8/9/2018	10/25/2018	02/28/2019	4/21/2017	8/1/2017	11/14/2017	2/12/2018	5/15/2018	8/6/2018	10/25/2018	03/04/2019	4/21/2017	7/28/2017	2/13/2018	5/11/2018	8/14/2018	10/30/2018	02/27/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	0.72 J	0.62 J	0.52 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	9.5	2.1	7.7	12	6.2	6.5	1.6 J	12	9.4	7.0	5.5	5.0	5.4	8.1
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 5.0	2.2 J	< 10	1.9 J	2.0	3.1 J	2.2 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
1,1,2,2-Tetrachloroethane	µg/l	35	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
1,1,2-Trichloroethane	µg/l	5.0	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
1,1-Dichloroethane	µg/l	2,500	3.7 J	3.5 J	4.6 J	2.9 J	4.0	5.1	4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
1,1-Dichloroethene	µg/l	7.0	< 5.0	< 4.0	< 10	< 5.0 J	0.43 J	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
1,2,3-Trimethylbenzene	µg/l	NS	< 25	< 20	< 50	< 25 J	< 8.4	< 25	< 13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10,000	< 5,000	< 8,300	< 8,300	< 2,500	< 5,000	< 13,000
1,2,4-Trichlorobenzene	µg/l	70	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
1,2,4-Trimethylbenzene	µg/l	63	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
1,2-Dibromoethane	µg/l	0.05	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
1,2-Dichlorobenzene	µg/l	600	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
1,2-Dichloroethane	µg/l	5.0	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
1,2-Dichloropropane	µg/l	5.0	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
1,3,5-Trimethylbenzene	µg/l	72	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
1,3-Dichlorobenzene	µg/l	19	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
1,4-Dichlorobenzene	µg/l	75	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
2-Butanone (MEK)	µg/l	38,000	< 50	< 40	< 100	< 50 J	< 17	< 50	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.5 J	< 20,000	< 10,000	< 17,000	< 17,000	< 5,000	< 10,000	< 25,000
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 50	< 40	< 100	< 50 J	< 17	< 50	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20,000	< 10,000	< 17,000	< 17,000	< 5,000	< 10,000	< 25,000
Acetone	µg/l	2,100	< 50	< 40	< 100	< 50 J	< 17	< 50	< 25	< 10	< 10	5.1 J	< 10	3.8 J	< 10	< 10	8.4 J	< 20,000	< 10,000	< 17,000	**3,900 J**	< 5,000	< 10,000	< 25,000
Benzene	µg/l	5.0	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Bromodichloromethane	µg/l	80	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Bromoform	µg/l	80	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Bromomethane	µg/l	29	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Carbon Disulfide	µg/l	2,300	< 25	< 20	< 50	< 25 J	< 8.4	< 25	< 13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10,000	< 5,000	< 8,300	< 8,300	< 2,500	< 5,000	< 13,000
Carbon Tetrachloride	µg/l	5.0	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
CFC-11	µg/l	7,300	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
CFC-12	µg/l	4,800	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Chlorobenzene	µg/l	100	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Chlorodibromomethane	µg/l	80	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Chloroethane	µg/l	1,700	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Chloroform	µg/l	80	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Chloromethane	µg/l	1,100	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
cis-1,2-Dichloroethene	µg/l	70	69	69	**79**	49 J	55	48	32	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**43,000**	**29,000**	**20,000**	**17,000**	**15,000**	**22,000**	**37,000**
cis-1,3-Dichloropropene	µg/l	NS	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Cyclohexane	µg/l	NS	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Dichloromethane	µg/l	5.0	3.4 J	< 20	< 50	< 25 J	< 8.4	< 25	< 13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**1,100 J**	< 5,000	< 8,300	**940 J**	< 2,500	< 5,000	< 13,000
Diethyl ether	µg/l	10	< 10	< 8.0	< 20	< 10 J	< 3.3	< 10	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4,000	< 2,000	< 3,300	< 3,300	< 1,000	< 2,000	< 5,000
Ethylbenzene	µg/l	74	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Isopropylbenzene	µg/l	2,300	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Methyl Acetate	µg/l	NS	< 50	< 40	< 100	< 50 J	< 17	< 50	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20,000	< 10,000	< 17,000	< 17,000	< 5,000	< 10,000	< 25,000
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 50	< 40	< 100	< 50 J	< 17	< 50	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20,000	< 10,000	< 17,000	< 17,000	< 5,000	< 10,000	< 25,000
Methylcyclohexane	µg/l	NS	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-47							MW-48								MW-49						
Screen Interval (ft. bgs):			16-21							17-22								12.5-17.5						
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/24/2017	7/31/2017	11/10/2017	5/10/2018	8/9/2018	10/25/2018	02/28/2019	4/21/2017	8/1/2017	11/14/2017	2/12/2018	5/15/2018	8/6/2018	10/25/2018	03/04/2019	4/21/2017	7/28/2017	2/13/2018	5/11/2018	8/14/2018	10/30/2018	02/27/2019
Methyl-tert-butylether	µg/l	40	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Styrene (Monomer)	µg/l	100	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Tetrachloroethene	µg/l	5.0	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Toluene	µg/l	790	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Total Xylenes	µg/l	280	< 10	< 8.0	< 20	< 10 J	< 3.3	< 10	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4,000	< 2,000	< 3,300	< 3,300	< 1,000	< 2,000	< 5,000
trans-1,2-Dichloroethene	µg/l	100	7.1	8.6	9.3 J	6.5 J	7.2	7.1	5.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	**110 J**	< 1,000	< 2,500
trans-1,3-Dichloropropene	µg/l	NS	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Trichloroethene	µg/l	5.0	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500
Vinyl chloride	µg/l	2.0	**120**	**110**	**220**	**88 J**	**59**	**100**	**44**	0.85 J	**11**	**5.2**	**3.8**	**7.4**	**5.3**	**6.6**	0.24 J	**10,000**	**9,800**	**8,400**	**8,100**	**4,900**	**8,400**	**9,100**
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-50								MW-51								MW-52						
Screen Interval (ft. bgs):			16-21								15-20								15-20						
Date:	Unit		4/21/2017	7/31/2017	11/13/2017	2/12/2018	5/9/2018	8/6/2018	10/24/2018	02/27/2019	4/25/2017	8/3/2017	11/9/2017	2/8/2018	5/14/2018	8/6/2018	10/30/2018	03/01/2019	7/27/2017	11/10/2017	2/13/2018	5/9/2018	8/10/2018	10/31/2018	03/02/2019
Semi-volatile Organic Compounds (SVOCs)																									
1,4-Dioxane	µg/l	350	1.5 J	2.2	0.68 J	0.78 J	2.8	1.7 J	2.8	3.6	0.75 J	1.2 J	1.1 J	1.1 J	0.49 J	1.6 J	2.5	1.5 J	1.3 J	0.68 J	1.2 J	0.30 J	1.8 J	2.7	1.9 J
Volatile Organic Compounds (VOCs)																									
1,1,1-Trichloroethane	µg/l	200	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	0.48 J	< 5.0	< 6.7	0.41 J	0.72 J	0.70 J	0.84 J	0.45 J	0.77 J	1.0	0.57 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	0.26 J	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 25	< 20	< 25	< 25	< 25	< 5.0	< 25	< 33	< 5.0	< 5.0	< 5.0	< 5.0	NA*	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.40 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.18 J	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 50	< 40	< 50	< 50	< 50	< 10	< 50	< 67	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 50	< 40	< 50	< 50	< 50	< 10	< 50	< 67	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 50	< 40	< 50	< 50	< 50	< 10	< 50	< 67	< 10	< 10	< 10	< 10	3.9 J	< 10	< 10	< 10	2.2 J	< 10	< 10	2.7 J	< 10	< 10	< 10
Benzene	µg/l	5.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 25	< 20	< 25	< 25	< 25	< 5.0	< 25	< 33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	13	15	23	22	12	17	16	20	< 1.0	< 1.0	< 1.0	0.31 J	< 1.0	0.37 J	0.33 J	0.22 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 25	< 20	< 25	3.5 J	< 25	< 5.0	< 25	< 33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 10	< 8.0	< 10	< 10	< 10	< 2.0	< 10	< 13	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 50	< 40	< 50	< 50	< 50	< 10	< 50	< 67	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 50	< 40	< 50	< 50	< 50	< 10	< 50	< 67	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-50								MW-51								MW-52						
Screen Interval (ft. bgs):			16-21								15-20								15-20						
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/21/2017	7/31/2017	11/13/2017	2/12/2018	5/9/2018	8/6/2018	10/24/2018	02/27/2019	4/25/2017	8/3/2017	11/9/2017	2/8/2018	5/14/2018	8/6/2018	10/30/2018	03/01/2019	7/27/2017	11/10/2017	2/13/2018	5/9/2018	8/10/2018	10/31/2018	03/02/2019
Methyl-tert-butylether	µg/l	40	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 10	< 8.0	< 10	< 10	< 10	< 2.0	< 10	< 13	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	0.31 J	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	**48**	**140**	**150**	**76**	**150**	**97**	**99**	**170**	0.57 J	0.97 J	0.47 J	< 1.0	0.70 J	0.40 J	0.39 J	0.29 J	**7.0**	**9.1**	**4.0**	**4.3**	**4.5**	**5.0**	**3.9**
Gases																									
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																									
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																									
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-53								MW-54							MW-55						
Screen Interval (ft. bgs):			16-21								16-21							15-20						
Date:	Unit		4/24/2017	7/27/2017	11/8/2017	2/7/2018	5/9/2018	8/13/2018	10/31/2018	02/28/2019	7/27/2017	11/8/2017	2/7/2018	5/9/2018	8/13/2018	10/31/2018	2/25/2019	7/27/2017	11/8/2017	2/7/2018	5/10/2018	8/13/2018	10/31/2018	02/27/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	1.1 J	2.0	0.61 J	1.1 J	1.4 J	1.6 J	1.8 J	1.7 J	1.5 J	2.0	2.7	1.7 J	1.4 J	2.6	NS	1.2 J	1.4 J	0.96 J	1.2 J	1.1 J	1.6 J	< 2.0
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	0.18 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NS	< 10	< 10	< 10	2.7 J	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-53								MW-54							MW-55						
Screen Interval (ft. bgs):			16-21								16-21							15-20						
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/24/2017	7/27/2017	11/8/2017	2/7/2018	5/9/2018	8/13/2018	10/31/2018	02/28/2019	7/27/2017	11/8/2017	2/7/2018	5/9/2018	8/13/2018	10/31/2018	2/25/2019	7/27/2017	11/8/2017	2/7/2018	5/10/2018	8/13/2018	10/31/2018	02/27/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	< 1.0	0.63 J	< 1.0	< 1.0	< 1.0	0.45 J	0.60 J	< 1.0	0.88 J	1.5	1.2	0.98 J	0.34 J	0.85 J	NS	0.84 J	0.65 J	< 1.0	0.48 J	0.39 J	0.57 J	0.54 J
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-56								MW-57							MW-58						
Screen Interval (ft. bgs):			16-21								17-22							15-20						
Date:	Unit		4/24/2017	7/28/2017	11/8/2017	2/14/2018	5/9/2018	8/13/2018	10/31/2018	02/27/2019	7/27/2017	11/7/2017	2/9/2018	5/9/2018	8/6/2018	10/25/2018	02/28/2019	7/28/2017	11/8/2017	2/7/2018	5/14/2018	8/13/2018	10/31/2018	03/01/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	3.8	2.7	2.2	1.6 J	2.7	2.3	2.7	2.9	4.6	4.9	4.9	3.9	4.5	4.6	3.1	10	8.0	9.6	3.6	2.2	3.9	6.2
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA*	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.16 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	2.7 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.8 J	< 10	< 10	< 10	< 10	< 10	12	< 10	< 10	< 10	4.4 J	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	0.43 J	0.26 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	2.6 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-56								MW-57							MW-58						
Screen Interval (ft. bgs):		MDEQ Non-Residential Drinking Water Criteria	16-21								17-22							15-20						
Date:	Unit		4/24/2017	7/28/2017	11/8/2017	2/14/2018	5/9/2018	8/13/2018	10/31/2018	02/27/2019	7/27/2017	11/7/2017	2/9/2018	5/9/2018	8/6/2018	10/25/2018	02/28/2019	7/28/2017	11/8/2017	2/7/2018	5/14/2018	8/13/2018	10/31/2018	03/01/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.11 J	0.12 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.31 J	0.38 J	< 1.0	< 1.0	0.59 J	0.56 J	0.39 J	0.64 J	0.88 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-62								MW-63								
Screen Interval (ft. bgs):			16.3-21.3								7-12								
Date:	Unit		4/21/2017	7/31/2017	11/13/2017	2/6/2018	5/9/2018	8/6/2018	10/24/2018	02/27/2019	4/21/2017	5/25/2017	7/31/2017	11/13/2017	2/7/2018	5/9/2018	8/6/2018	10/24/2018	02/28/2019
Semi-volatile Organic Compounds (SVOCs)																			
1,4-Dioxane	µg/l	350	2.8	3.7	3.7	2.1	1.5 J	3.1	2.3	2.4	19	NA	0.36 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																			
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5,000	< 5,000	< 500	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10,000	< 10,000	< 1,000	< 100	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10,000	< 10,000	< 1,000	< 100	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10,000	< 10,000	< 1,000	< 100	< 10	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5,000	< 5,000	< 500	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	1.6	< 1.0	0.30 J	0.30 J	0.83 J	< 1.0	0.23 J	0.33 J	< 1,000	< 1,000	< 100	< 10	1.7	2.5	3.3	2.2	1.8
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5,000	< 5,000	< 500	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2,000	< 2,000	< 200	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	5.6 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10,000	< 10,000	< 1,000	< 100	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10,000	< 10,000	< 1,000	< 100	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-62								MW-63								
Screen Interval (ft. bgs):			16.3-21.3								7-12								
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/21/2017	7/31/2017	11/13/2017	2/6/2018	5/9/2018	8/6/2018	10/24/2018	02/27/2019	4/21/2017	5/25/2017	7/31/2017	11/13/2017	2/7/2018	5/9/2018	8/6/2018	10/24/2018	02/28/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**13,000**	**13,000**	**3,900**	**320**	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2,000	< 2,000	< 200	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	0.30 J	0.29 J	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	1.3	< 1.0	1.0	1.3	1.2	0.66 J	1.0	0.73 J	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gases																			
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																			
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-64								MW-65								MW-66							
Screen Interval (ft. bgs):			15-20								16-21								15-20							
Date:	Unit		4/24/2017	7/27/2017	11/7/2017	2/9/2018	5/10/2018	8/13/2018	11/5/2018	02/28/2019	4/25/2017	8/2/2017	11/8/2017	2/6/2018	5/10/2018	8/8/2018	10/30/2018	02/28/2019	4/25/2017	8/2/2017	11/13/2017	2/12/2018	5/10/2018	8/8/2018	11/2/2018	03/04/2019
Semi-volatile Organic Compounds (SVOCs)																										
1,4-Dioxane	µg/l	350	< 2.0	0.32 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.8	3.1	3.8	3.4	2.1	1.8 J	2.9	2.6	0.76 J	0.99 J	0.49 J	1.3 J	< 2.0	< 2.0	1.1 J	1.2 J
Volatile Organic Compounds (VOCs)																										
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	0.35 J	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 20	< 10	< 10	< 10	< 5.0	< 10	< 13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 40	< 20	< 20	< 20	< 10	< 20	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 40	< 20	< 20	< 20	< 10	< 20	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 40	< 20	< 20	< 20	< 10	< 20	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 20	< 10	< 10	< 10	< 5.0	< 10	< 13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.39 J	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 1.0	0.37 J	0.31 J	0.30 J	< 1.0	0.29 J	0.32 J	0.23 J	3.3	4.1	3.9	4.1	6.0	6.2	7.0	5.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 20	< 10	1.5 J	< 10	< 5.0	< 10	< 13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 8.0	< 4.0	< 4.0	< 4.0	< 2.0	< 4.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 40	< 20	< 20	< 20	< 10	< 20	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 40	< 20	< 20	< 20	< 10	< 20	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-64								MW-65								MW-66							
Screen Interval (ft. bgs):			15-20								16-21								15-20							
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/24/2017	7/27/2017	11/7/2017	2/9/2018	5/10/2018	8/13/2018	11/5/2018	02/28/2019	4/25/2017	8/2/2017	11/8/2017	2/6/2018	5/10/2018	8/8/2018	10/30/2018	02/28/2019	4/25/2017	8/2/2017	11/13/2017	2/12/2018	5/10/2018	8/8/2018	11/2/2018	03/04/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 8.0	< 4.0	< 4.0	< 4.0	< 2.0	< 4.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	**2.4**	**4.8**	**7.0**	**6.7**	1.3	**5.9**	**3.0**	**3.4**	**61**	**49**	**48**	**36**	**41**	**35**	**48**	**34**	**5.6**	**5.4**	**3.0**	**2.7**	**2.4**	**3.2**	1.2	**3.2**
Gases																										
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																										
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																										
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-67								MW-68								MW-69						
Screen Interval (ft. bgs):			9-14								15-20								15-20						
Date:	Unit		4/21/2017	7/31/2017	11/14/2017	2/12/2018	5/14/2018	8/13/2018	10/25/2018	02/28/2019	4/24/2017	8/1/2017	11/10/2017	2/12/2018	5/15/2018	8/9/2018	10/25/2018	02/27/2019	4/25/2017	11/10/2017	2/14/2018	5/10/2018	8/13/2018	11/6/2018	02/28/2019
Semi-volatile Organic Compounds (SVOCs)																									
1,4-Dioxane	µg/l	350	1.8 J	0.33 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.40 J	0.69 J	0.73 J	0.54 J	< 2.0	< 2.0	< 2.0	< 2.0	12	35	23	7.3	7.1	12	5.0
Volatile Organic Compounds (VOCs)																									
1,1,1-Trichloroethane	µg/l	200	2.3 J	2.0 J	2.1 J	< 3.3	0.94 J	0.80 J	1.3 J	0.78 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 10	1.0 J	< 5.0	< 3.3	0.25 J	< 2.5	< 3.3	0.49 J	1.6	1.7	3.7	2.0	1.4	1.9	2.1	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 50	< 20	< 25	< 17	NA*	< 13	< 17	< 13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 100	< 40	< 50	< 33	< 10	< 25	< 33	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 100	< 40	< 50	< 33	< 10	< 25	< 33	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 100	< 40	< 50	< 33	3.5 J	< 25	< 33	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	4.4 J	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 50	< 20	< 25	< 17	< 5.0	< 13	< 17	< 13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	47	36	15	9.6	5.7	4.5	5.6	5.6	20	18	13	13	10	13	17	31	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J
cis-1,3-Dichloropropene	µg/l	NS	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 50	< 20	< 25	1.8 J	< 5.0	< 13	< 17	< 13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 20	< 8.0	< 10	< 6.7	< 2.0	< 5.0	< 6.7	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 100	< 40	< 50	< 33	< 10	< 25	< 33	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 100	< 40	< 50	< 33	< 10	< 25	< 33	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-67								MW-68								MW-69						
Screen Interval (ft. bgs):		MDEQ Non-Residential Drinking Water Criteria	9-14								15-20								15-20						
Date:	Unit		4/21/2017	7/31/2017	11/14/2017	2/12/2018	5/14/2018	8/13/2018	10/25/2018	02/28/2019	4/24/2017	8/1/2017	11/10/2017	2/12/2018	5/15/2018	8/9/2018	10/25/2018	02/27/2019	4/25/2017	11/10/2017	2/14/2018	5/10/2018	8/13/2018	11/6/2018	02/28/2019
Methyl-tert-butylether	µg/l	40	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 20	< 8.0	< 10	< 6.7	< 2.0	< 5.0	< 6.7	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 10	2.4 J	1.7 J	1.1 J	0.75 J	0.78 J	0.88 J	1.4 J	1.9	1.9	1.5	1.8	1.4	1.7	2.1	3.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	**94**	**91**	**110**	**83**	**57**	**60**	**69**	**41**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	**14**	< 4.0	< 5.0	< 3.3	1.3	< 2.5	< 3.3	1.7 J	**12**	**2.1**	**18**	**2.5**	**2.1**	**2.2**	**2.1**	**17**	**2.8**	< 1.0	< 1.0	**3.3**	**2.7**	1.4	**4.1**
Gases																									
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																									
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																									
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-70								MW-71								PW-16-01						
Screen Interval (ft. bgs):			15-20								15-20								9.7-19.7						
Date:	Unit		4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/14/2018	8/9/2018	11/2/2018	02/26/2019	4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/8/2018	8/9/2018	11/6/2018	02/27/2019	8/2/2017	11/7/2017	2/7/2018	5/15/2018	8/6/2018	10/30/2018	02/26/2019
Semi-volatile Organic Compounds (SVOCs)																									
1,4-Dioxane	µg/l	350	0.76 J	0.68 J	1.1 J	0.91 J	3.0	1.6 J	2.2	6.5	4.3	1.4 J	0.72 J	0.57 J	0.38 J	0.95 J	1.1 J	< 2.0	< 2.0	14	0.76 J	< 2.0	< 2.0	1.3 J	< 2.0
Volatile Organic Compounds (VOCs)																									
1,1,1-Trichloroethane	µg/l	200	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
1,1-Dichloroethane	µg/l	2,500	2.4 J	3.3 J	3.4 J	< 13	2.2 J	< 13	2.5 J	2.3 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 6.7	< 10	< 10	< 13	2.1 J	< 13	1.3 J	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 33	< 50	< 50	< 67	NA*	< 63	< 20	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1,000	< 71	< 71	< 200	< 200	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 6.7	< 10	< 10	< 13	2.5 J	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.16 J	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 6.7	< 10	< 10	< 13	0.79 J	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 67	< 100	< 100	< 130	< 33	< 130	< 40	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2,000	< 140	< 140	< 400	< 400	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 67	< 100	< 100	< 130	< 33	< 130	< 40	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2,000	< 140	< 140	< 400	< 400	< 10
Acetone	µg/l	2,100	< 67	< 100	< 100	< 130	15 J	< 130	< 40	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2,000	< 140	32 J	< 400	< 400	< 10
Benzene	µg/l	5.0	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Bromodichloromethane	µg/l	80	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Bromoform	µg/l	80	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Bromomethane	µg/l	29	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Carbon Disulfide	µg/l	2,300	< 33	< 50	< 50	< 67	< 17	< 63	< 20	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1,000	< 71	< 71	< 200	< 200	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
CFC-11	µg/l	7,300	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
CFC-12	µg/l	4,800	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Chlorobenzene	µg/l	100	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Chlorodibromomethane	µg/l	80	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Chloroethane	µg/l	1,700	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.55 J	< 200	< 14	< 14	< 40	< 40	< 1.0
Chloroform	µg/l	80	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Chloromethane	µg/l	1,100	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
cis-1,2-Dichloroethene	µg/l	70	**190**	**200**	**200**	**230**	**260**	**200**	**250**	**290**	< 1.0	< 1.0	0.39 J	0.37 J	0.40 J	0.34 J	0.36 J	0.30 J	2.2	**550**	**82**	7.1 J	**180**	**250**	0.51 J
cis-1,3-Dichloropropene	µg/l	NS	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Cyclohexane	µg/l	NS	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Dichloromethane	µg/l	5.0	**8.9 J**	< 50	< 50	< 67	< 17	< 63	< 20	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1,000	**11 J**	**8.6 J**	< 200	< 200	< 5.0
Diethyl ether	µg/l	10	< 13	< 20	< 20	< 27	< 6.7	< 25	1.8 J	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 400	< 29	< 29	< 80	< 80	< 2.0
Ethylbenzene	µg/l	74	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Isopropylbenzene	µg/l	2,300	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Methyl Acetate	µg/l	NS	< 67	< 100	< 100	< 130	< 33	< 130	< 40	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2,000	< 140	< 140	< 400	< 400	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 67	< 100	< 100	< 130	< 33	< 130	< 40	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2,000	< 140	< 140	< 400	< 400	< 10
Methylcyclohexane	µg/l	NS	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-70								MW-71								PW-16-01						
Screen Interval (ft. bgs):		MDEQ Non-Residential Drinking Water Criteria	15-20								15-20								9.7-19.7						
Date:	Unit		4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/14/2018	8/9/2018	11/2/2018	02/26/2019	4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/8/2018	8/9/2018	11/6/2018	02/27/2019	8/2/2017	11/7/2017	2/7/2018	5/15/2018	8/6/2018	10/30/2018	02/26/2019
Methyl-tert-butylether	µg/l	40	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14 J	< 40	< 40	< 1.0
Styrene (Monomer)	µg/l	100	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.35 J	< 200	< 14	< 14	< 40	< 40	< 1.0
Tetrachloroethene	µg/l	5.0	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Toluene	µg/l	790	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Total Xylenes	µg/l	280	< 13	< 20	< 20	< 27	< 6.7	< 25	< 8.0	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 400	< 29	< 29	< 80	< 80	< 2.0
trans-1,2-Dichloroethene	µg/l	100	3.8 J	4.2 J	5.1 J	4.4 J	3.0 J	3.3 J	4.4	3.8 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	5.4 J	< 14	< 40	10 J	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Trichloroethene	µg/l	5.0	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0
Vinyl chloride	µg/l	2.0	**120**	**100**	**140**	**160**	**210**	**190**	**210**	**350**	< 1.0	0.68 J	0.83 J	0.59 J	0.59 J	< 1.0	0.31 J	0.40 J	**24**	**5,300**	**160**	**37 J**	**870**	**1,400**	0.92 J
Gases																									
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																									
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																									
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	PW-16-02							TW-16-01							TW-16-02							
Screen Interval (ft. bgs):			6-21							12-17							12-17							
Date:	Unit		8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019	8/2/2017	11/7/2017	2/7/2018	5/15/2018	8/6/2018	10/30/2018	02/26/2019	4/25/2017	8/2/2017	11/7/2017	2/14/2018	5/11/2018	8/6/2018	10/30/2018	02/26/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	0.51 J	< 2.0	< 2.0	< 2.0	1.5 J	1.4 J	< 2.0	0.32 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	7.2	3.9	5.8	3.9	5.0	2.7	5.3	4.6
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
1,1,2,2-Tetrachloroethane	µg/l	35	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
1,1,2-Trichloroethane	µg/l	5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
1,1-Dichloroethane	µg/l	2,500	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
1,1-Dichloroethene	µg/l	7.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
1,2,3-Trimethylbenzene	µg/l	NS	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 50	< 63	< 170	< 170	< 130	< 130	< 500	< 3,100	< 2,500	< 2,000	< 5,000	< 2,500	< 1,300	< 2,500	< 1,700
1,2,4-Trichlorobenzene	µg/l	70	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
1,2,4-Trimethylbenzene	µg/l	63	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
1,2-Dibromoethane	µg/l	0.05	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
1,2-Dichlorobenzene	µg/l	600	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
1,2-Dichloroethane	µg/l	5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
1,2-Dichloropropane	µg/l	5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
1,3,5-Trimethylbenzene	µg/l	72	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
1,3-Dichlorobenzene	µg/l	19	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
1,4-Dichlorobenzene	µg/l	75	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
2-Butanone (MEK)	µg/l	38,000	< 50	< 10	< 10	< 10	< 10	< 20	< 10	< 100	< 130	< 330	< 330	< 250	< 250	< 1,000	< 6,300	< 5,000	< 4,000	< 10,000	< 5,000	< 2,500	< 5,000	< 3,300
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 50	< 10	< 10	< 10	< 10	< 20	< 10	< 100	< 130	< 330	< 330	< 250	< 250	< 1,000	< 6,300	< 5,000	< 4,000	< 10,000	< 5,000	< 2,500	< 5,000	< 3,300
Acetone	µg/l	2,100	< 50	< 10	< 10	< 10	< 10	< 20	< 10	< 100	< 130	< 330	68 J	< 250	< 250	< 1,000	< 6,300	< 5,000	< 4,000	< 10,000	< 5,000	< 2,500	< 5,000	< 3,300
Benzene	µg/l	5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Bromodichloromethane	µg/l	80	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Bromoform	µg/l	80	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Bromomethane	µg/l	29	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Carbon Disulfide	µg/l	2,300	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 50	< 63	< 170	< 170	< 130	< 130	< 500	< 3,100	< 2,500	< 2,000	< 5,000	< 2,500	< 1,300	< 2,500	< 1,700
Carbon Tetrachloride	µg/l	5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
CFC-11	µg/l	7,300	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
CFC-12	µg/l	4,800	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Chlorobenzene	µg/l	100	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Chlorodibromomethane	µg/l	80	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Chloroethane	µg/l	1,700	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Chloroform	µg/l	80	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Chloromethane	µg/l	1,100	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
cis-1,2-Dichloroethene	µg/l	70	63	2.3	12	< 1.0	11	11	1.9	17	32	34	68	**140**	**180**	**150**	**5,200**	**3,100**	**6,000**	**3,500**	**4,400**	**4,100**	**6,900**	**7,700**
cis-1,3-Dichloropropene	µg/l	NS	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Cyclohexane	µg/l	NS	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Dichloromethane	µg/l	5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 50	**10 J**	**23 J**	**20 J**	< 130	< 130	< 500	**1,200 J**	< 2,500	< 2,000	< 5,000	< 2,500	< 1,300	< 2,500	< 1,700
Diethyl ether	µg/l	10	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 20	< 25	< 67	< 67	< 50	< 50	< 200	< 1,300	< 1,000	< 800	< 2,000	< 1,000	< 500	< 1,000	< 670
Ethylbenzene	µg/l	74	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Isopropylbenzene	µg/l	2,300	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Methyl Acetate	µg/l	NS	< 50	< 10	< 10	< 10	< 10	< 20	< 10	< 100	< 130	< 330	< 330	< 250	< 250	< 1,000	< 6,300	< 5,000	< 4,000	< 10,000	< 5,000	< 2,500	< 5,000	< 3,300
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 50	< 10	< 10	< 10	< 10	< 20	< 10	< 100	< 130	< 330	< 330	< 250	< 250	< 1,000	< 6,300	< 5,000	< 4,000	< 10,000	< 5,000	< 2,500	< 5,000	< 3,300
Methylcyclohexane	µg/l	NS	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			PW-16-02							TW-16-01							TW-16-02							
Screen Interval (ft. bgs):			6-21							12-17							12-17							
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019	8/2/2017	11/7/2017	2/7/2018	5/15/2018	8/6/2018	10/30/2018	02/26/2019	4/25/2017	8/2/2017	11/7/2017	2/14/2018	5/11/2018	8/6/2018	10/30/2018	02/26/2019
Methyl-tert-butylether	µg/l	40	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33 J	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Styrene (Monomer)	µg/l	100	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Tetrachloroethene	µg/l	5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Toluene	µg/l	790	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Total Xylenes	µg/l	280	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 20	< 25	< 67	< 67	< 50	< 50	< 200	< 1,300	< 1,000	< 800	< 2,000	< 1,000	< 500	< 1,000	< 670
trans-1,2-Dichloroethene	µg/l	100	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	11 J	7.5 J	14 J	22 J	< 630	< 500	< 400	< 1,000	< 500	56 J	< 500	**130 J**
trans-1,3-Dichloropropene	µg/l	NS	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Trichloroethene	µg/l	5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10	< 13	< 33	< 33	< 25	< 25	**15 J**	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330
Vinyl chloride	µg/l	2.0	**160**	2.0	**18**	< 1.0	**71**	**62**	0.94 J	**210**	**320**	**380**	**720**	**680**	**830**	**750**	**15,000**	**12,000**	**13,000**	**9,100**	**8,500**	**7,300**	**12,000**	**8,900**
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	TW-16-03							TW-16-04							
Screen Interval (ft. bgs):			9-19							9-19							
Date:	Unit		8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019	4/25/2017	8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019
Semi-volatile Organic Compounds (SVOCs)																	
1,4-Dioxane	µg/l	350	0.54 J	< 2.0	< 2.0	< 2.0	1.0 J	1.1 J	< 2.0	1.7 J	0.81 J	0.89 J	< 2.0	< 2.0	1.2 J	1.5 J	1.2 J
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	µg/l	200	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
1,1,2,2-Tetrachloroethane	µg/l	35	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
1,1,2-Trichloroethane	µg/l	5.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
1,1-Dichloroethane	µg/l	2,500	< 4.0	< 3.3	< 10	< 2.5	0.44 J	< 6.7	0.43 J	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	0.50 J	< 3.3	< 3.3
1,1-Dichloroethene	µg/l	7.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
1,2,3-Trimethylbenzene	µg/l	NS	< 20	< 17	< 50	< 13	< 10	< 33	< 8.4	< 20	< 20	< 33	< 33	< 13	< 5.0	< 17	< 17
1,2,4-Trichlorobenzene	µg/l	70	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
1,2,4-Trimethylbenzene	µg/l	63	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
1,2-Dibromoethane	µg/l	0.05	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
1,2-Dichlorobenzene	µg/l	600	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
1,2-Dichloroethane	µg/l	5.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
1,2-Dichloropropane	µg/l	5.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
1,3,5-Trimethylbenzene	µg/l	72	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
1,3-Dichlorobenzene	µg/l	19	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
1,4-Dichlorobenzene	µg/l	75	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
2-Butanone (MEK)	µg/l	38,000	< 40	< 33	< 100	< 25	< 20	< 67	< 17	< 40	< 40	< 67	< 67	< 25	< 10	< 33	< 33
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 40	< 33	< 100	< 25	< 20	< 67	< 17	< 40	< 40	< 67	< 67	< 25	< 10	< 33	< 33
Acetone	µg/l	2,100	< 40	< 33	< 100	< 25	< 20	< 67	< 17	< 40	< 40	< 67	< 67	< 25	5.5 J	< 33	< 33
Benzene	µg/l	5.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Bromodichloromethane	µg/l	80	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Bromoform	µg/l	80	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Bromomethane	µg/l	29	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Carbon Disulfide	µg/l	2,300	< 20	< 17	< 50	< 13	< 10	< 33	< 8.4	< 20	< 20	< 33	< 33	< 13	< 5.0	< 17	< 17
Carbon Tetrachloride	µg/l	5.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
CFC-11	µg/l	7,300	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
CFC-12	µg/l	4,800	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Chlorobenzene	µg/l	100	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Chlorodibromomethane	µg/l	80	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Chloroethane	µg/l	1,700	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Chloroform	µg/l	80	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Chloromethane	µg/l	1,100	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
cis-1,2-Dichloroethene	µg/l	70	37	36	40	39	36	42	33	20	18	23	25	20	21	20	14
cis-1,3-Dichloropropene	µg/l	NS	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Cyclohexane	µg/l	NS	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Dichloromethane	µg/l	5.0	< 20	< 17	< 50	< 13	< 10	< 33	< 8.4	4.4 J	< 20	< 33	< 33	< 13	< 5.0	< 17	< 17
Diethyl ether	µg/l	10	< 8.0	< 6.7	< 20	< 5.0	< 4.0	< 13	< 3.3	< 8.0	< 8.0	< 13	< 13	< 5.0	< 2.0	< 6.7	< 6.7
Ethylbenzene	µg/l	74	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Isopropylbenzene	µg/l	2,300	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Methyl Acetate	µg/l	NS	< 40	< 33	< 100	< 25	< 20	< 67	< 17	< 40	< 40	< 67	< 67	< 25	< 10	< 33	< 33
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 40	< 33	< 100	< 25	< 20	< 67	< 17	< 40	< 40	< 67	< 67	< 25	< 10	< 33	< 33
Methylcyclohexane	µg/l	NS	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	TW-16-03							TW-16-04							
Screen Interval (ft. bgs):			9-19							9-19							
Date:	Unit		8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019	4/25/2017	8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019
Methyl-tert-butylether	µg/l	40	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Styrene (Monomer)	µg/l	100	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Tetrachloroethene	µg/l	5.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Toluene	µg/l	790	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Total Xylenes	µg/l	280	< 8.0	< 6.7	< 20	< 5.0	< 4.0	< 13	< 3.3	< 8.0	< 8.0	< 13	< 13	< 5.0	< 2.0	< 6.7	< 6.7
trans-1,2-Dichloroethene	µg/l	100	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
trans-1,3-Dichloropropene	µg/l	NS	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Trichloroethene	µg/l	5.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3
Vinyl chloride	µg/l	2.0	**100**	**77**	**95**	**78**	**76**	**97**	**48**	**150**	**120**	**100**	**77**	**65**	**63**	**90**	**65**
Gases																	
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																	
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																	
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Notes:
Results are compared to the MDEQ Part 201 Generic Cleanup Criteria, December 31, 2013.
Bold Result denotes exceedance of MDEQ Non-Residential Drinking Water Criteria.
< Denotes not detected above reporting limit.

Abbreviations:

EGLE	Michigan Department of Environment, Great Lakes, and Energy
ft. bgs	feet below ground surface
J	estimated result
NA	not analyzed/not available
NA*	result not reported due to laboratory instrument calibration
NS	no standard / not sampled
mg/l	milligrams per liter
µg/l	micrograms per liter

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Table 3
Off-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-72	668.81	15-20	5/22/2017	NP	6.98	19.31	NM	661.83	661.83
			7/24/2017	NP	8.60	19.60	NM	660.21	660.21
			11/6/2017	NP	9.20	19.54	NM	659.61	659.61
			2/5/2018	NP	8.58	19.86	NM	660.23	660.23
			5/7/2018	NP	6.83	19.63	NM	661.98	661.98
			8/16/2018	NP	8.68	NM	NM	660.13	660.13
			11/19/2018	NP	7.72	19.64	NM	661.09	661.09
			2/22/2019	NP	7.48	19.61	NM	661.33	661.33
MW-72S	668.96	3-13	3/5/2019	NP	7.56	13.05	NM	661.40	661.40
MW-73S	666.89	7-12	5/22/2017	NP	4.72	11.31	NM	662.17	662.17
			7/24/2017	NP	6.38	11.48	NM	660.51	660.51
			11/6/2017	NP	6.94	11.42	NM	659.95	659.95
			2/5/2018	NP	6.30	11.62	NM	660.59	660.59
			5/7/2018	NP	4.77	11.55	NM	662.12	662.12
			8/16/2018	NP	6.25	NM	NM	660.64	660.64
			11/19/2018	NP	5.45	11.54	NM	661.44	661.44
			ABANDONED						
MW-73SR	667.00	2.5-12.5	2/22/2019	NP	5.56	12.38	NM	661.44	661.44
MW-73D	667.03	13.5-18.5	5/22/2017	NP	4.98	17.21	NM	662.05	662.05
			7/24/2017	NP	6.64	17.47	NM	660.39	660.39
			11/6/2017	NP	7.22	17.38	NM	659.81	659.81
			2/5/2018	NP	6.54	17.52	NM	660.49	660.49
			5/7/2018	NP	5.02	17.36	NM	662.01	662.01
			8/16/2018	NP	6.49	NM	NM	660.54	660.54
			11/19/2018	NP	5.73	17.35	NM	661.30	661.30
			2/22/2019	NP	5.54	17.37	NM	661.49	661.49
MW-74	667.90	14-19	5/22/2017	NP	5.94	18.52	NM	661.96	661.96
			7/24/2017	NP	7.47	18.81	NM	660.43	660.43
			11/6/2017	NP	8.12	18.76	NM	659.78	659.78
			2/5/2018	NP	7.49	18.85	NM	660.41	660.41
			5/7/2018	NP	5.95	18.77	NM	661.95	661.95
			8/16/2018	NP	7.38	NM	NM	660.52	660.52
			11/19/2018	NP	6.25	18.77	NM	661.65	661.65
			2/22/2019	NP	6.45	18.76	NM	661.45	661.45
MW-74S	667.93	3-13	2/22/2019	NP	6.44	12.78	NM	661.49	661.49
MW-75S	666.86	5-10	5/22/2017	NP	5.16	9.23	NM	661.70	661.70
			7/24/2017	NP	6.15	9.48	NM	660.71	660.71
			11/6/2017	NP	6.83	9.43	NM	660.03	660.03
			2/5/2018	NP	6.56	9.82	NM	660.30	660.30
			5/7/2018	NP	5.08	9.67	NM	661.78	661.78
			8/16/2018	NP	5.81	NM	NM	661.05	661.05
			11/19/2018	NP	5.47	9.62	NM	661.39	661.39
			ABANDONED						
MW-75SR	666.96	2.5-12.5	2/22/2019	NP	5.60	12.38	NM	661.36	661.36

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Table 3
Off-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-75D	666.89	12-17	5/22/2017	NP	5.20	16.59	NM	661.69	661.69
			7/24/2017	NP	6.19	16.78	NM	660.70	660.70
			11/6/2017	NP	6.81	17.80	NM	660.08	660.08
			2/5/2018	NP	6.59	16.83	NM	660.30	660.30
			5/7/2018	NP	5.04	16.77	NM	661.85	661.85
			8/16/2018	NP	6.09	NM	NM	660.80	660.80
			11/19/2018	NP	5.51	17.74	NM	661.38	661.38
			2/22/2019	NP	5.72	16.78	NM	661.17	661.17
MW-76	670.10	15-20	5/22/2017	NP	9.43	19.44	NM	660.67	660.67
			7/24/2017	NP	10.05	19.73	NM	660.05	660.05
			11/6/2017	NP	10.73	19.66	NM	659.37	659.37
			2/5/2018	NP	10.89	19.71	NM	659.21	659.21
			5/7/2018	NP	9.34	19.64	NM	660.76	660.76
			8/16/2018	NP	9.59	NM	NM	660.51	660.51
			11/19/2018	NP	9.25	19.60	NM	660.85	660.85
			2/22/2019	NP	9.75	19.62	NM	660.35	660.35
MW-76S	669.98	4.5-14.5	2/22/2019	NP	9.64	14.15	NM	660.34	660.34
MW-77	660.56	9-14	5/22/2017	NP	4.59	13.45	NM	655.97	655.97
			7/24/2017	NP	5.90	13.75	NM	654.66	654.66
			11/6/2017	NP	6.30	13.67	NM	654.26	654.26
			2/5/2018	NP	5.43	13.75	NM	655.13	655.13
			5/7/2018	NP	4.28	13.70	NM	656.28	656.28
			8/16/2018	NP	5.88	NM	NM	654.68	654.68
			11/19/2018	NP	4.59	13.69	NM	655.97	655.97
			2/22/2019	NP	4.64	13.72	NM	655.92	655.92
MW-77S	660.55	2.5-12.5	2/22/2019	NP	4.53	12.16	NM	656.02	656.02
MW-78	657.23	7-12	5/22/2017	NP	1.78	11.47	NM	655.45	655.45
			7/24/2017	NP	3.55	11.79	NM	653.68	653.68
			11/6/2017	NP	3.50	11.72	NM	653.73	653.73
			2/5/2018	NP	3.09	11.80	NM	654.14	654.14
			5/7/2018	NP	1.54	11.75	NM	655.69	655.69
			8/16/2018	NP	3.53	NM	NM	653.70	653.70
			11/19/2018	NP	1.68	11.71	NM	655.55	655.55
			2/22/2019	NP	2.02	11.75	NM	655.21	655.21
MW-78S	657.61	2.5-12.5	2/22/2019	NP	2.37	12.40	NM	655.24	655.24
MW-79S	663.10	5-10	5/22/2017	NP	4.15	9.49	NM	658.95	658.95
			7/24/2017	NP	6.37	9.76	NM	656.73	656.73
			11/6/2017	NP	6.56	9.71	NM	656.54	656.54
			2/5/2018	NP	5.46	9.78	NM	657.64	657.64
			5/7/2018	NP	3.49	9.73	NM	659.61	659.61
			8/16/2018	NP	6.40	NM	NM	656.70	656.70
			11/19/2018	NP	4.50	9.71	NM	658.60	658.60
			ABANDONED						
MW-79SR	663.06	2.5-12.5	2/22/2019	NP	4.19	12.28	NM	658.87	658.87

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Table 3
Off-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-79D	663.35	10-15	5/22/2017	NP	4.20	14.38	NM	659.15	659.15
			7/24/2017	NP	6.45	14.66	NM	656.90	656.90
			11/6/2017	NP	6.62	14.60	NM	656.73	656.73
			2/5/2018	NP	5.51	14.69	NM	657.84	657.84
			5/7/2018	NP	3.55	14.62	NM	659.80	659.80
			8/16/2018	NP	6.49	NM	NM	656.86	656.86
			11/19/2018	NP	4.58	14.60	NM	658.77	658.77
			2/22/2019	NP	4.33	14.64	NM	659.02	659.02
MW-80S	656.08	7-12	5/22/2017	NP	2.41	11.29	NM	653.67	653.67
			7/24/2017	NP	4.19	11.50	NM	651.89	651.89
			11/6/2017	NP	3.41	11.53	NM	652.67	652.67
			2/5/2018	NP	2.86	11.81	NM	653.22	653.22
			5/7/2018	NP	1.23	11.56	NM	654.85	654.85
			8/16/2018	NP	4.14	NM	NM	651.94	651.94
			11/19/2018	NP	2.17	11.53	NM	653.91	653.91
			ABANDONED						
MW-80SR	656.23	2.5-12.5	3/6/2019	NP	2.43	12.21	NM	653.80	653.80
MW-81	657.32	8-13	5/22/2017	NP	6.05	12.40	NM	651.27	651.27
			7/24/2017	NP	7.24	12.70	NM	650.08	650.08
			11/6/2017	NP	8.27	12.63	NM	649.05	649.05
			2/5/2018	NP	7.29	12.71	NM	650.03	650.03
			5/7/2018	NP	5.98	12.66	NM	651.34	651.34
			8/16/2018	NP	7.40	NM	NM	649.92	649.92
			11/19/2018	NP	6.62	12.64	NM	650.70	650.70
			2/22/2019	NP	6.19	12.67	NM	651.13	651.13
MW-81S	657.67	2.5-12.5	2/22/2019	NP	6.49	12.52	NM	651.18	651.18
MW-82S	658.63	9-14	5/22/2017	NP	6.93	13.12	NM	651.70	651.70
			7/24/2017	NP	8.24	11.50	NM	650.39	650.39
			11/6/2017	NP	9.08	13.34	NM	649.55	649.55
			2/5/2018	NP	8.32	13.44	NM	650.31	650.31
			5/7/2018	NP	7.10	13.36	NM	651.53	651.53
			8/16/2018	NP	8.38	NM	NM	650.25	650.25
			11/19/2018	NP	7.62	13.37	NM	651.01	651.01
			ABANDONED						
MW-82SR	658.92	5-15	2/22/2019	NP	7.47	16.12	NM	651.45	651.45
MW-82D	658.45	18-23	5/22/2017	NP	7.34	22.45	NM	651.11	651.11
			7/24/2017	NP	8.50	22.80	NM	649.95	649.95
			11/6/2017	NP	9.41	22.72	NM	649.04	649.04
			2/5/2018	NP	8.65	22.81	NM	649.80	649.80
			5/7/2018	NP	7.33	22.74	NM	651.12	651.12
			8/16/2018	NP	8.49	NM	NM	649.96	649.96
			11/19/2018	NP	7.59	22.70	NM	650.86	650.86
			3/6/2019	NP	7.65	23.00	NM	650.80	650.80

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Table 3
Off-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-83	660.09	8-13	5/22/2017	NP	6.46	12.11	NM	653.63	653.63
			7/24/2017	NP	7.61	12.44	NM	652.48	652.48
			11/6/2017	NP	8.08	12.46	NM	652.01	652.01
			2/5/2018	NP	7.53	12.48	NM	652.56	652.56
			5/7/2018	NP	6.28	12.43	NM	653.81	653.81
			8/16/2018	NP	7.71	NM	NM	652.38	652.38
			11/19/2018	NP	6.78	12.38	NM	653.31	653.31
			2/22/2019	NP	6.71	12.40	NM	653.38	653.38
MW-83S	660.26	3-13	2/22/2019	NP	6.87	12.80	NM	653.39	653.39
MW-84	662.50	8-13	5/22/2017	NP	3.26	12.28	NM	659.24	659.24
			7/24/2017	NP	5.19	12.59	NM	657.31	657.31
			11/6/2017	NP	5.54	12.52	NM	656.96	656.96
			2/5/2018	NP	4.60	12.60	NM	657.90	657.90
			5/7/2018	NP	2.90	12.55	NM	659.60	659.60
			8/16/2018	NP	5.22	NM	NM	657.28	657.28
			11/19/2018	NP	3.56	12.54	NM	658.94	658.94
			2/22/2019	NP	3.50	12.56	NM	659.00	659.00
MW-84S	662.69	2.5-12.5	2/22/2019	NP	3.67	12.71	NM	659.02	659.02
MW-85	658.85	8-13	5/22/2017	NP	4.71	12.43	NM	654.14	654.14
			7/24/2017	NP	6.12	12.75	NM	652.73	652.73
			11/6/2017	NP	6.34	12.70	NM	652.51	652.51
			2/5/2018	NP	5.53	12.76	NM	653.32	653.32
			5/7/2018	NP	4.16	12.69	NM	654.69	654.69
			8/16/2018	NP	6.12	NM	NM	652.73	652.73
			11/19/2018	NP	5.33	12.66	NM	653.52	653.52
			2/22/2019	NP	4.75	12.70	NM	654.10	654.10
MW-85S		2.5-12.5	2/22/2019	Abandoned					
MW-86	666.11	12-17	5/22/2017	NP	6.25	16.35	NM	659.86	659.86
			7/24/2017	NP	8.07	16.66	NM	658.04	658.04
			11/6/2017	NP	8.70	16.58	NM	657.41	657.41
			2/5/2018	NP	7.87	16.72	NM	658.24	658.24
			5/7/2018	NP	6.03	16.60	NM	660.08	660.08
			8/16/2018	NP	8.06	NM	NM	658.05	658.05
			11/19/2019	NP	6.66	16.59	NM	659.45	659.45
			2/22/2019	NP	6.67	16.61	NM	659.44	659.44
MW-86S	666.14	2.5-12.5	2/22/2019	NP	6.83	12.33	NM	659.31	659.31
MW-87	668.81	14-19	5/22/2017	NP	9.41	18.55	NM	659.40	659.40
			7/24/2017	NP	10.65	18.85	NM	658.16	658.16
			11/6/2017	NP	11.42	18.79	NM	657.39	657.39
			2/5/2018	NP	11.06	18.86	NM	657.75	657.75
			5/7/2018	NP	9.39	18.80	NM	659.42	659.42
			8/16/2018	NP	10.61	NM	NM	658.20	658.20
			11/19/2018	NP	9.68	18.79	NM	659.13	659.13
			2/22/2019	NP	9.79	18.82	NM	659.02	659.02

See Notes on Last Page.

Table 3
Off-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-87S	668.65	4.5-14.5	2/22/2019	NP	9.95	14.14	NM	658.70	658.70
MW-96S	662.21	2.5-12.5	2/22/2019	NP	5.13	12.10	NM	657.08	657.08
MW-97S	660.07	2.5-12.5	3/6/2019	NP	4.47	11.96	NM	655.60	655.60
MW-98S	656.10	2.5-12.5	2/22/2019	NP	1.60	12.09	NM	654.50	654.50
MW-99S	667.38	3.0-13.0	2/22/2019	NP	6.00	12.84	NM	661.38	661.38
MW-100S	667.64	3.0-13.0	2/22/2019	NP	6.64	12.90	NM	661.00	661.00
MW-101S	668.82	4.5-14.5	3/6/2019	NP	8.21	14.01	NM	660.61	660.61
MW-102	660.87	10.0-15.0	2/22/2019	NP	1.17	14.65	NM	659.70	659.70
MW-102S	661.01	2.5-12.5	2/22/2019	NP	1.33	12.35	NM	659.68	659.68
MW-105S	661.45	2.5-12.5	2/22/2019	NP	2.88	11.80	NM	658.57	658.57
MW-106S	655.03	2.5-12.5	2/22/2019	NP	2.76	11.70	NM	652.27	652.27
MW-107S	657.86	2.5-12.5	2/22/2019	NP	5.52	12.20	NM	652.34	652.34
MW-108S	657.54	2.5-12.5	2/22/2019	Could Not Locate					
MW-131S	660.96	2.5-12.5	2/22/2019	NP	4.13	12.70	NM	656.83	656.83
MW-132S	659.86	2.5-12.5	2/22/2019	NP	5.28	12.38	NM	654.58	654.58

Notes:
Water level measurements collected from top of well casing.
MW-81 and MW-83 were re-surveyed on November 20, 2017 by Geodetic Designs Inc.

Abbreviations:

ft.	feet
ft. amsl	feet above mean sea level
ft. bgs	feet below ground surface
ft. btoc	feet below top of casing
LNAPL	light non-aqueous phase liquid
NM	not measured
NP	no product detected
TOC	top of casing

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-72								MW-72S		MW-73D							
Screen Interval (ft. bgs):			15-20								3-13		13.5-18.5							
Date:	Unit	Residential Drinking Water Criteria	5/22/2017	7/26/2017	11/7/2017	2/6/2018	5/9/2018	8/10/2018	10/22/2018	03/05/2019	12/17/2018	03/05/2019	5/22/2017	7/26/2017	11/7/2017	2/6/2018	5/9/2018	8/10/2018	10/22/2018	03/04/2019
Semi-volatile Organic Compounds (SVOCs)																				
1,4-Dioxane	µg/l	7.2	1.1 J	0.53 J	0.97 J	0.78 J	0.32 J	1.1 J	1.4 J	0.91 J	< 2.0	< 2.0	3.2	3.1	2.8	1.5 J	3.0	1.9 J	3.8	1.6 J
Volatile Organic Compounds (VOCs)																				
1,1-Dichloroethene	µg/l	7.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	0.45 J	0.50 J	0.43 J	0.35 J	0.56 J	0.19 J	0.30 J
Tetrachloroethene	µg/l	5.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/l	100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J
Vinyl chloride	µg/l	1.0	**3.9**	**2.9**	**1.6**	**1.3**	**1.5 J**	**1.2**	**1.1**	**1.9**	< 1.0	0.24 J	**1.1**	0.85 J	**1.3**	0.79 J	0.80 J	0.75 J	< 1.0	0.71 J
Metals																				
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																				
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																				
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																				
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-73S							MW-73SR		MW-74								MW-74S	
Screen Interval (ft. bgs):		Residential Drinking Water Criteria	7-12							2.5-12.5		14-19								3-13	
Date:	Unit		5/22/2017	7/26/2017	11/7/2017	2/6/2018	5/9/2018	8/10/2018	10/22/2018	12/17/2018	03/04/2019	5/23/2017	7/26/2017	11/7/2017	2/6/2018	5/9/2018	8/9/2018	10/22/2018	03/08/2019	12/21/2018	03/08/2019
Semi-volatile Organic Compounds (SVOCs)																					
1,4-Dioxane	µg/l	7.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.86 J	0.87 J	< 2.0	< 2.0	1.5 J	1.3 J	0.66 J	0.34 J	1.6 J	2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																					
1,1-Dichloroethene	µg/l	7.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	NA	1.9	1.8	1.3	1.3	1.5	1.7	2.3	2.1	NA	< 1.0	< 1.0	0.42 J	0.96 J	0.41 J	0.45 J	0.84 J	1.3	0.82 J
Tetrachloroethene	µg/l	5.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.21 J
trans-1,2-Dichloroethene	µg/l	100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	0.43 J	0.25 J	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	0.40 J	0.48 J	0.48 J	0.33 J	0.38 J	0.51 J	0.46 J	0.29 J	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	1.0	**1.6**	**1.3**	**1.9**	**1.1**	**1.2**	0.62 J	0.96 J	**1.7**	**1.5**	< 1.0	**2.7**	**2.4**	**2.0**	0.70 J	**2.8**	**2.2**	**1.1**	< 1.0	< 1.0
Metals																					
Iron, Dissolved	µg/l	300	**3,900**	NA	**1,200**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	**3,900**	NA	**1,200**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	**1,200**	NA	**940**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	**1,200**	NA	**890**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																					
Nitrate-N	mg/l	10	< 1.0	NA	< 0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	80	NA	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																					
Carbon, Dissolved	mg/l	NS	6.1	NA	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	5.2	NA	4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																					
Ethane	µg/l	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-75D								MW-75S							MW-75SR	
Screen Interval (ft. bgs):			12-17								5-10							2.5-12.5	
Date:	Unit	Residential Drinking Water Criteria	5/23/2017	7/26/2017	11/8/2017	2/6/2018	5/9/2018	8/9/2018	10/22/2018	03/07/2019	5/23/2017	7/26/2017	11/8/2017	2/6/2018	5/9/2018	8/9/2018	10/22/2018	12/18/2018	03/07/2019
Semi-volatile Organic Compounds (SVOCs)																			
1,4-Dioxane	µg/l	7.2	1.9 J	1.8 J	1.8 J	0.91 J	0.65 J	2.0	2.3	1.5 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																			
1,1-Dichloroethene	µg/l	7.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/l	100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	1.0	**6.4**	**3.7**	**4.9 J**	**1.9**	**2.4**	**1.8**	**1.7**	**1.6**	0.45 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Metals																			
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	**330**	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	210	NA	**350**	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	**63**	NA	42	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	**70**	NA	42	NA	NA	NA	NA	NA	NA
Anions																			
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	**21**	NA	8.0 J	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	89	NA	110	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																			
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	4.6	NA	13	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	3.6	NA	13	NA	NA	NA	NA	NA	NA
Gases																			
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.95 J	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,200	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-76								MW-76S	MW-77							MW-77S	
Screen Interval (ft. bgs):			15-20								4.5-14.5	9-14							2.5-12.5	
Date:	Unit	Residential Drinking Water Criteria	5/23/2017	7/26/2017	11/8/2017	2/6/2018	5/10/2018	8/9/2018	10/22/2018	12/21/2018	3/1/2019	5/25/2017	7/26/2017	11/10/2017	2/8/2018	5/11/2018	8/6/2018	10/23/2018	03/04/2019	12/27/2018	03/04/2019
Semi-volatile Organic Compounds (SVOCs)																				
1,4-Dioxane	µg/l	7.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.0 J	< 2.0	< 2.0	NA	0.32 J	< 2.0	< 2.0	0.27 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																				
1,1-Dichloroethene	µg/l	7.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	NA	3.9	4.0	2.2	2.6	2.2	1.8	< 1.0	<1.0	NA	0.67 J	0.73 J	0.66 J	0.54 J	0.61 J	0.74 J	0.60 J	< 1.0	0.30 J
Tetrachloroethene	µg/l	5.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/l	100	NA	0.54 J	0.49 J	< 1.0	0.35 J	0.35 J	0.25 J	< 1.0	<1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.87 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.17 J	< 1.0	0.22 J
Vinyl chloride	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	0.51 J	0.45 J	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	0.48 J	< 1.0	0.20 J
Metals																				
Iron, Dissolved	µg/l	300	**340**	NA	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	**480**	NA	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	**760**	NA	**760**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	**800**	NA	**770**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																				
Nitrate-N	mg/l	10	1.2 J	NA	3.3 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	120	NA	160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																				
Carbon, Dissolved	mg/l	NS	1.1	NA	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	0.90 J	NA	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																				
Ethane	µg/l	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-78									MW-78S	MW-79D							
Screen Interval (ft. bgs):			7-12									2.5-12.5	10-15							
Date:	Unit	Residential Drinking Water Criteria	5/25/2017	7/25/2017	11/9/2017	2/8/2018	5/8/2018	8/6/2018	10/22/2018	02/26/2019	12/19/2018	02/26/2019	5/24/2017	7/25/2017	11/9/2017	2/8/2018	5/8/2018	8/6/2018	10/24/2018	03/07/2019
Semi-volatile Organic Compounds (SVOCs)																				
1,4-Dioxane	µg/l	7.2	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.90 J	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	0.49 J	0.87 J	0.95 J	< 2.0
Volatile Organic Compounds (VOCs)																				
1,1-Dichloroethene	µg/l	7.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	NA	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	0.26 J	0.22 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/l	100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.2**	**4.1**	**3.6**	**1.9**	**3.5**	**2.8**	**1.3**	**1.6**
Metals																				
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																				
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																				
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																				
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-79S							MW-79SR	MW-80S							MW-80SR	
Screen Interval (ft. bgs):			5-10							2.5-12.5	7-12							2.5-12.5	
Date:	Unit	Residential Drinking Water Criteria	5/24/2017	7/25/2017	11/9/2017	2/8/2018	5/8/2018	8/6/2018	10/30/2018	12/19/2018	5/24/2017	7/25/2017	11/8/2017	2/8/2018	5/8/2018	8/6/2018	10/22/2018	12/27/2018	03/06/2019
Semi-volatile Organic Compounds (SVOCs)																			
1,4-Dioxane	µg/l	7.2	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	0.52 J	0.55 J	0.33 J	0.46 J	< 2.0	1.2 J	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																			
1,1-Dichloroethene	µg/l	7.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.18 J
Tetrachloroethene	µg/l	5.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/l	100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.56 J	**4.6**	**7.1**	**7.6**	**2.9**	**6.3**	**6.2**	**4.1**	**1.4**	**2.1**
Metals																			
Iron, Dissolved	µg/l	300	**990**	NA	**2,500**	NA	NA	NA	NA	NA	**600**	NA	**3,600**	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	**1,100**	NA	**2,900**	NA	NA	NA	NA	NA	**530**	NA	**3,600**	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	**110**	NA	**200**	NA	NA	NA	NA	NA	**200**	NA	**230**	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	**120**	NA	**200**	NA	NA	NA	NA	NA	**190**	NA	**230**	NA	NA	NA	NA	NA	NA
Anions																			
Nitrate-N	mg/l	10	0.063 J	NA	< 0.10	NA	NA	NA	NA	NA	< 0.10	NA	< 0.10	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	41	NA	69	NA	NA	NA	NA	NA	97	NA	110	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																			
Carbon, Dissolved	mg/l	NS	4.1	NA	4.9	NA	NA	NA	NA	NA	5.6	NA	5.7	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	3.1	NA	4.4	NA	NA	NA	NA	NA	4.5	NA	5.2	NA	NA	NA	NA	NA	NA
Gases																			
Ethane	µg/l	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	6.6	NA	NA	NA	NA	NA	NA	NA	55	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-81								MW-81S		MW-82D							
Screen Interval (ft. bgs):			8-13								2.5-12.5		18-23							
Date:	Unit	Residential Drinking Water Criteria	5/26/2017	7/25/2017	11/9/2017	2/6/2018	5/10/2018	8/9/2018	10/23/2018	03/06/2019	12/26/2018	03/06/2019	5/24/2017	7/25/2017	11/8/2017	2/6/2018	5/10/2018	8/8/2018	10/23/2018	03/06/2019
Semi-volatile Organic Compounds (SVOCs)																				
1,4-Dioxane	µg/l	7.2	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																				
1,1-Dichloroethene	µg/l	7.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/l	100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.69 J	< 1.0	0.66 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.78 J
Metals																				
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																				
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																				
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																				
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-82S							MW-82SR		MW-83							MW-83S	
Screen Interval (ft. bgs):			9-14							5-15		8-13							3-13	
Date:	Unit	Residential Drinking Water Criteria	5/24/2017	7/25/2017	11/8/2017	2/6/2018	5/10/2018	8/8/2018	10/23/2018	12/26/2018	03/05/2019	5/26/2017	7/25/2017	11/9/2017	2/8/2018	5/11/2018	8/8/2018	10/22/2018	03/05/2019	12/26/2018	03/05/2019
Semi-volatile Organic Compounds (SVOCs)																				
1,4-Dioxane	µg/l	7.2	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.92 J	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																				
1,1-Dichloroethene	µg/l	7.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/l	100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.16 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.17 J	0.23 J	0.20 J
Vinyl chloride	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J
Metals																				
Iron, Dissolved	µg/l	300	180	NA	**710**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	**380**	NA	**720**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	**510**	NA	**390**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	**550**	NA	**380**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																				
Nitrate-N	mg/l	10	< 0.10	NA	< 0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	**470**	NA	**270**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																				
Carbon, Dissolved	mg/l	NS	2.7	NA	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	2.1	NA	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																				
Ethane	µg/l	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-84								MW-84S		MW-85								MW-85S
Screen Interval (ft. bgs):		Residential Drinking Water Criteria	8-13								2.5-12.5		8-13								2.5-12.5
Date:	Unit		5/25/2017	7/25/2017	11/9/2017	2/8/2018	5/8/2018	8/6/2018	10/23/2018	02/28/2019	12/21/2018	02/28/2019	5/25/2017	7/25/2017	11/7/2017	2/8/2018	5/8/2018	8/8/2018	10/22/2018	02/26/2019	12/21/2018
Semi-volatile Organic Compounds (SVOCs)																					
1,4-Dioxane	µg/l	7.2	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.86 J	< 2.0	< 2.0	< 2.0	NA	0.29 J	< 2.0	0.41 J	0.45 J	< 2.0	1.0 J	< 2.0	1.1 J
Volatile Organic Compounds (VOCs)																					
1,1-Dichloroethene	µg/l	7.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/l	100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.14 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**8.6**	**7.3**	**7.3**	**5.5**	**7.5**	**7.2**	**5.5**	**5.5**	**7.8**
Metals																					
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																					
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																					
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																					
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-86								MW-86S		MW-87								MW-87S
Screen Interval (ft. bgs):			12-17								2.5-12.5		14-19								4.5-14.5
Date:	Unit	Residential Drinking Water Criteria	5/25/2017	7/26/2017	11/10/2017	2/8/2018	5/10/2018	8/6/2018	10/24/2018	02/28/2019	12/18/2018	02/28/2019	5/23/2017	7/26/2017	11/10/2017	2/8/2018	5/10/2018	8/6/2018	10/23/2018	02/28/2019	12/21/2018	3/1/2019
Semi-volatile Organic Compounds (SVOCs)																						
1,4-Dioxane	µg/l	7.2	NA	0.99 J	0.87 J	< 2.0	1.2 J	< 2.0	1.4 J	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.88 J	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																						
1,1-Dichloroethene	µg/l	7.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/l	100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Metals																						
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																						
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																						
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																						
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-96S		MW-97S		MW-98S		MW-99S		MW-100S		MW-101S		MW-102		MW-102S		MW-105S	
Screen Interval (ft. bgs):		Residential Drinking Water Criteria	2.5-12.5		2.5-12.5		2.5-12.5		3-13		3-13		4.5-14.5		10-15		2.5-12.5		2.5-12.5	
Date:	Unit		12/18/2018	02/27/2019	12/27/2018	03/06/2019	12/19/2018	03/06/2019	12/21/2018	03/07/2019	12/18/2018	02/27/2019	12/21/2018	03/06/2019	12/19/2018	02/25/2019	12/19/2018	02/25/2019	12/26/2018	02/25/2019
Semi-volatile Organic Compounds (SVOCs)																				
1,4-Dioxane	µg/l	7.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.0 J	< 2.0	< 2.0	< 2.0	1.7 J	1.3 J	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																				
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.94 J	0.57 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	1.0	< 1.0	< 1.0	< 1.0	0.42 J	< 1.0	0.43 J	< 1.0	0.28 J	0.22 J	< 1.0	< 1.0	0.58J	**1.6**	**1.7**	< 1.0	< 1.0	< 1.0	< 1.0
Metals																				
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																				
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																				
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																				
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-106S		MW-107S		MW-108S		MW-131S		MW-132S		MW-133S	MW-134S	MW-135S	MW-136S	MW-137S	MW-138S	MW-139S	MW-140S	MW-141S	MW-142S
Screen Interval (ft. bgs):			2.5-12.5		2.5-12.5		2.5-12.5		2.5-12.5		2.5-12.5		4-9	5-10	5-10	2-7	2-7	2-7	2-7	2-7	3-8	2.5-7.5
Date:	Unit	Residential Drinking Water Criteria	12/19/2018	02/27/2019	12/26/2018	02/27/2019	12/26/2018	2/25/2019	12/26/2018	02/26/2019	12/26/2018	02/26/2019	2/14/2019	2/14/2019	2/14/2019	02/19/2019	02/23/2019	02/19/2019	02/26/2019	02/26/2019	02/27/2019	02/25/2019
Semi-volatile Organic Compounds (SVOCs)																						
1,4-Dioxane	µg/l	7.2	< 2.0	< 2.0	< 2.0	< 2.0	0.90 J	NS	1.0 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																						
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	0.98 J	0.69 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.7**	< 1.0	< 1.0	< 1.0	< 1.0
Metals																						
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																						
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																						
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																						
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Notes:
All results are compared to the MDEQ Part 201 Generic Cleanup Criteria, December 31, 2013.
Bolded Result exceeds residential Drinking Water criteria
< Result not detected above reporting limit.

Footnote:

* Residential Drinking Water Criteria for 1,4-dioxane is derived from the MDEQ Proposed Rule Changes (September 2016) and Emergency Rules (October 27, 2016).

** Groundwater results for Trichloroethene and Vinyl Chloride are compared to the published MDEQ Remediation and Redevelopment Division Target Detection Limit of 1.0 µg/l.

Abbreviations:

EGLE	Michigan Department of Environment, Great Lakes, and Energy
ft. bgs	feet below ground surface
J	estimated result
MDEQ	Michigan Department of Environmental Quality
mg/l	milligrams per liter
NA	not analyzed
NS	no standard / not sampled
µg/l	micrograms per liter

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Table 5
Soil Vapor Monitoring Point Helium Tracer Test Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location ID	Sample Depth (ft. bgs)	June 2017		September 2017		November 2017		February 2018		May 2018	
		Helium Pre-Sample (%)	Helium Post-Sample (%)	Helium Pre-Sample (%)	Helium Post-Sample (%)	Helium Pre-Sample (%)	Helium Post-Sample (%)	Helium Pre-Sample (%)	Helium Post-Sample (%)	Helium Pre-Sample (%)	Helium Post-Sample (%)
SVMP-01S	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-01D	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-02S	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-02D	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-03S	3.5	0.005	0.0075	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-03D	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-04	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-05	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-06	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-07	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-08	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-09	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-10	3	0.0	0.1475	0.0	0.0	0.0	0.0	0.0	0.0	NS	NS
SVMP-11	3.5	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-12	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-13	2	0.025	0.475	0.0	0.0	0.0	0.0	NS	NS	NS	NS
SVMP-14	2	0.0225	0.0	0.0	0.0	0.0	0.0	NS	NS	NS	NS
SVMP-15	2	0.245	0.38	0.0	0.0	0.0	0.0	NS	NS	NS	NS
SVMP-16	2	0.0450	0.1725	0.0	0.0	0.0	0.0	NS	NS	NS	NS
SVMP-17	2	0.4675	0.2925	0.0	0.0	0.0	NA	NS	NS	0.0	0.0
SVMP-18	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-19	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	NS	NS
SVMP-20	3	0.0	0.085	0.0	0.0	NS	NS	NS	NS	NS	NS
SVMP-21	2	0.0	0.0	0.0	0.0	0.0	0.0	NS	NS	0.0	0.0
SVMP-22	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NS	NS
SVMP-23	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NS	NS
SVMP-24	4	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
SVMP-25S	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-25D	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-26	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-27	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-28	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-29	3.5	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-29	7.5	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-30	4	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-31	5.5	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-32	3	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-32	6	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-33	4	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-34	4	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-35	4	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-36	4	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-37	2.5	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS

See Notes on Last Page.

Table 5
Soil Vapor Monitoring Point Helium Tracer Test Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location ID	Sample Depth (ft. bgs)	August 2018		November 2018		March 2019 (*)
		Helium Pre-Sample (%)	Helium Post-Sample (%)	Helium Pre-Sample (%)	Helium Post-Sample (%)	Helium Pre-Sample (%)
SVMP-01S	3.5	0.0	0.0	0.0	0.0	0.0
SVMP-01D	7	0.0	0.0	0.0	0.0	0.0
SVMP-02S	4.5	0.0	0.0	0.0	0.0	0.0
SVMP-02D	8.5	0.0	0.0	0.0	0.0	0.0
SVMP-03S	3.5	0.0	0.0	0.0	0.0	0.0
SVMP-03D	7	0.0	0.0	0.0	0.0	0.0
SVMP-04	3.5	0.0	0.175	0.0	0.0	0.0
SVMP-05	4.5	0.0	0.0	0.0	0.0	0.0
SVMP-06	4.5	0.0	0.0	0.0	0.0	0.0
SVMP-07	3.5	0.0	0.0	0.0	0.0	0.0
SVMP-08	3.5	0.0	0.0	0.0	0.0	0.0
SVMP-09	4	0.0	0.0	0.0	0.0	0.0
SVMP-10	3	0.0	0.0	0.0	0.0	NS
SVMP-11	3.5	NS	NS	NS	NS	NS
SVMP-12	3.5	0.0	0.0005	0.0	0.0	0.0
SVMP-13	2	0.0	0.0	NS	NS	NS
SVMP-14	2	0.0	0.0	NS	NS	0.0
SVMP-15	2	0.0	0.0	NS	NS	NS
SVMP-16	2	0.0	0.0	NS	NS	NS
SVMP-17	2	0.0	0.0	NS	NS	0.0
SVMP-18	3	0.0	0.0	0.0	0.0	0.0
SVMP-19	3	0.0	0.0	NS	NS	0.0
SVMP-20	3	0.0	0.0	NS	NS	NS
SVMP-21	2	0.0	0.0	NS	NS	0.0
SVMP-22	3	0.0	0.0	0.0	0.0	0.0
SVMP-23	3	0.0	0.0	0.0	0.0	NS
SVMP-24	4	0.0	0.0	0.0	0.0	0.0
SVMP-25S	3	0.0	0.0	0.0	0.0	0.0
SVMP-25D	6	0.0	0.0	0.0	0.0	0.0
SVMP-26	4	0.0	0.0005	0.0	0.0	0.0
SVMP-27	4.5	0.0	0.0005	0.0	0.0	0.0
SVMP-28	3	0.0	0.0005	0.0	0.0	0.0
SVMP-29	3.5	NS	NS	NS	NS	NS
SVMP-29	7.5	NS	NS	NS	NS	NS
SVMP-30	4	NS	NS	NS	NS	NS
SVMP-31	5.5	NS	NS	NS	NS	NS
SVMP-32	3	NS	NS	NS	NS	NS
SVMP-32	6	NS	NS	NS	NS	NS
SVMP-33	4	NS	NS	NS	NS	NS
SVMP-34	4	NS	NS	NS	NS	NS
SVMP-35	4	NS	NS	NS	NS	NS
SVMP-36	4	NS	NS	NS	NS	NS
SVMP-37	2.5	NS	NS	NS	NS	NS

See Notes on Last Page.

Table 5
Soil Vapor Monitoring Point Helium Tracer Test Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Notes:

Helium tracer test readings collected using a Helium Leak Detector MGD-2002.

Shroud concentrations ranged from 30-40% helium during all sampling events.

As discussed in the 2013 MDEQ VI Guidance, a tracer gas can be used to verify that soil gas samples are from the installed point and not from leaks in the sampling train.

No unacceptable helium leak test results were noted during any of the sampling events.

Samples were deemed acceptable, as all exhibited concentrations of helium in purged soil gas less than 10% of the initial shroud concentration of helium, as presented in the 2013 MDEQ VI guidance.

SVMP-11 abandoned after the initial sampling event per the adjacent property owner's request.

SVMP-29 through SVMP-37 are located on residential properties, and therefore, were only sampled during the initial sampling event.

SVMP-17 and SVMP-20 were not sampled during the November 2017 sampling event due to saturated screens.

SVMP-13 through SVMP-17, SVMP-20, and SVMP-21 were not sampled during the February 2018 sampling event due to saturated screens.

SVMP-10, SVMP-13 through SVMP-16, SVMP-19, SVMP-22, and SVMP-23 were not sampled during the May 2018 sampling event due to saturated screens.

SVMP-20 not sampled during the May 2018 sampling event due to a blockage in the tubing.

SVMP-13 through SVMP-17, SVMP-19, SVMP-20, and SVMP-21 were not sampled during the November 2018 sampling event due to saturated screens.

SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, and SVMP-23 were not sampled during the March 2019 sampling event due to saturated screens.

* - Starting in March 2019 only a pre-sampling helium test was completed consistent with the off-site vapor intrusion sampling program.

Abbreviations:

MDEQ	Michigan Department of Environmental Quality
NA	not analyzed
NS	not sampled
%	percent
SVMP	soil vapor monitoring point
VI	vapor intrusion

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Table 6
Soil Vapor Monitoring Point Purged Air Parameter Readings
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

ARCADIS Design & Consultancy for natural and built assets

Location ID	Sample Depth (ft. bgs)	June 2017		September 2017		November 2017		February 2018		May 2018		August 2018		November 2018		March 2019	
		CO_2 (%)	O_2 (%)	CO_2 (%)	O_2 (%)	CO_2 (%)	O_2 (%)	CO_2 (%)	O_2 (%)	CO_2 (%)	O_2 (%)	CO_2 (%)	O_2 (%)	CO_2 (%)	O_2 (%)	CO_2 (%)	O_2 (%)
SVMP-01S	3.5	1.3	19.7	1.2	19.3	1.7	21.1	1.8	18.5	1.7	17.9	3.2	17.3	1.1	19.9	1.6	19.6
SVMP-01D	7	0.9	19.4	1.7	19.2	2.4	20.0	1.9	18.9	1.2	16.2	3.1	16.2	1.6	19.6	1.5	19.5
SVMP-02S	4.5	4.8	17.4	0.9	20.1	9.3	7.7	0.1	21.6	6.7	16.1	3.7	17.4	2.3	17.5	3.1	16.6
SVMP-02D	8.5	6.7	16.3	1.7	19.3	10.5	5.4	0.0	21.6	7.2	14.5	4.5	16.7	2.8	17.1	3.6	15.4
SVMP-03S	3.5	0.3	20.6	0.6	20.4	0.7	21.4	0.0	21.4	0.9	17.2	1.0	19.0	0.4	20.5	0.5	20.7
SVMP-03D	7	0.4	21.2	0.8	19.9	0.9	21.1	0.0	21.2	0.7	19.6	1.0	18.8	0.5	20.4	0.4	18.4
SVMP-04	3.5	0.6	20.1	1.0	20.0	0.8	19.1	1.6	16.2	0.8	18.4	2.3	19.0	0.6	19.9	0.6	19.5
SVMP-05	4.5	0.2	22.0	0.2	20.7	0.5	26.9	1.2	19.6	0.6	20.0	1.0	20.1	2.4	19.1	0.3	21.0
SVMP-06	4.5	0.5	20.8	0.9	20.1	0.7	21.0	0.4	20.8	1.0	19.8	3.8	17.6	0.6	20.6	0.5	20.5
SVMP-07	3.5	1.2	20.5	0.0	20.8	1.3	19.7	1.0	20.4	2.2	19.9	4.0	18.5	1.3	19.7	0.9	17.6
SVMP-08	3.5	2.5	19.8	1.4	19.6	8.9	21.6	0.3	20.8	1.7	17.8	2.6	18.9	1.1	20.3	0.6	20.0
SVMP-09	4	0.3	21.2	0.0	20.8	0.7	21.6	0.0	21.0	0.7	20.5	3.2	17.8	0.4	20.4	0.0	20.9
SVMP-10	3	0.2	20.1	0.4	19.9	0.5	19.5	0.1	20.9	NS	NS	2.2	18.9	0.6	20.5	NS	NS
SVMP-11	3.5	0.3	21.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-12	3.5	0.2	21.2	1.2	19.9	1.0	19.9	0.0	20.9	0.9	16.5	1.6	18.5	0.6	20.1	0.5	21.2
SVMP-13	2	0.6	20.0	1.2	18.6	2.6	11.8	NS	NS	NS	NS	3.8	17.5	NS	NS	NS	NS
SVMP-14	2	0.9	18.5	1.5	19.5	1.4	19.1	NS	NS	NS	NS	4.2	16.9	NS	NS	0.8	18.6
SVMP-15	2	0.8	21.4	0.7	20.3	0.1	20.1	NS	NS	NS	NS	11.2	6.1	NS	NS	NS	NS
SVMP-16	2	0.9	20.8	1.2	19.8	0.3	20.5	NS	NS	NS	NS	NA	NA	NS	NS	NS	NS
SVMP-17	2	1.3	19.5	4.9	16.8	NS	NS	NS	NS	2.8	16.9	NA	NA	NS	NS	0.5	19.9
SVMP-18	3	2.6	18.6	5.2	16.8	4.3	17.6	2.7	16.6	5.5	15.6	6.3	12.4	2.8	16.8	2.8	16.6
SVMP-19	3	6.4	14.8	6.4	16.3	7.0	15.0	NA	NA	NS	NS	10.3	10.6	NS	NS	5.3	11.1
SVMP-20	3	6.3	15.7	6.0	16.1	NS	NS	NS	NS	NS	NS	10.3	7.9	NS	NS	NS	NS
SVMP-21	2	2.5	19.8	1.8	19.3	0.8	19.9	NS	NS	8.8	14.0	3.0	19.8	NS	NS	0.9	19.7
SVMP-22	3	0.9	20.3	1.8	19.8	1.3	20.2	0.0	21.0	NS	NS	9.2	11.2	1.1	19.6	0.3	20.0
SVMP-23	3	1.4	20.2	0.1	15.8	1.1	20.6	NA	NA	NS	NS	9.7	11.1	1.1	19.9	NS	NS
SVMP-24	4	2.8	19.4	2.5	18.9	2.6	19.5	2.0	19.2	3.1	17.5	9.6	10.9	3.0	17.8	2.0	19.2
SVMP-25S	3	3.2	18.0	4.0	15.5	4.0	18.0	0.2	20.9	2.9	17.4	3.5	17.9	1.9	18.5	1.5	20.2
SVMP-25D	6	2.4	18.4	5.4	14.0	4.6	17.4	0.0	21.0	2.1	17.6	4.0	17.2	2.1	18.3	1.6	20.0
SVMP-26	4	3.8	12.0	11.4	8.6	12.0	5.6	0.6	20.7	6.1	10.2	15.3	2.2	11.1	8.2	7.3	9.4
SVMP-27	4.5	3.8	20.3	1.1	19.2	1.5	20.4	0.1	21.3	1.1	18.4	2.5	17.7	1.2	19.7	1.1	19.3
SVMP-28	3	1.8	21.0	3.4	16.7	2.3	16.2	0.1	21.1	2.4	16.6	4.6	11.3	2.4	18.1	1.8	18.3
SVMP-29	3.5	0.6	20.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-29	7.5	0.9	20.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-30	4	0.4	20.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-31	5.5	1.2	19.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-32	3	1.6	19.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-32	6	1.3	19.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-33	4	5.7	16.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-34	4	0.9	20.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-35	4	1.1	21.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-36	4	1.4	19.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-37	2.5	7.2	15.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

See Notes on Last Page.

Table 6
Soil Vapor Monitoring Point Purged Air Parameter Readings
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Notes:

Air parameter readings collected directly after each round of sample collection using a GEM 2000.
SVMP-11 abandoned after the initial sampling event per the adjacent property owner's request.
SVMP-29 through SVMP-37 are located on residential properties, and therefore, were only sampled during the initial sampling event.
SVMP-17 and SVMP-20 were not sampled during the November 2017 sampling event due to saturated screens.
SVMP-13 through SVMP-17, SVMP-20, and SVMP-21 were not sampled during the February 2018 sampling event due to saturated screens.
SVMP-10, SVMP-13 through SVMP-16, SVMP-19, SVMP-22, and SVMP-23 were not sampled during the May 2018 sampling event due to saturated screens.
SVMP-20 not sampled during the May 2018 sampling event due to a blockage in the tubing.
SVMP-13 through SVMP-17, SVMP-19, SVMP-20, and SVMP-21 were not sampled during the November 2018 sampling event due to saturated screens.
SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, and SVMP-23 were not sampled during the March 2019 sampling event due to saturated screens.

Abbreviations:

CO_2	carbon dioxide
NA	not analyzed
NS	not sampled
NR	not recorded
O_2	oxygen
SVMP	soil vapor monitoring point

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Table 7
Off-Site Soil Vapor Monitoring Point Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:	Residential RIASL	SVMP-01S								SVMP-01D								SVMP-02S							
Sample Depth (ft. bgs):		3.5								7								4.5							
Sample Date:		6/8/2017	9/20/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/6/2018	3/4/2019	6/8/2017	9/20/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/6/2018	3/4/2019	6/9/2017	9/20/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/7/2018	3/21/2019
VOCs (Method TO-15) µg/m^3																									
1,1-Dichloroethene	7,000	NA	< 5.0	< 4.2	< 4.6	< 4.8	< 4.8	< 4.6	< 4.5	NA	< 4.8	< 4.8	< 4.5	< 5.1	< 4.7	< 4.5	< 4.6	NA	< 5.2	< 4.5	< 8.3	< 4.9	< 5.0	< 4.6	< 4.7
1,4-Dioxane	170	NA	< 18	< 15	< 16	< 18	< 18	< 17	< 16	NA	< 17	< 17	< 16	< 18	< 17	< 16	< 17	NA	< 19	< 16	< 30	< 18	< 18	< 17	< 17
cis-1,2-Dichloroethene	280	NA	< 5.0	< 4.2	< 4.6	< 4.8	< 4.8	< 4.6	< 4.5	NA	< 4.8	< 4.8	< 4.5	< 5.1	< 4.7	< 4.5	< 4.6	NA	< 5.2	< 4.5	< 8.3	< 4.9	< 5.0	< 4.6	< 4.7
Tetrachloroethene	1,400	NA	< 8.5	< 7.1	< 7.8	< 8.3	< 8.3	< 7.9	< 7.7	NA	< 8.2	< 8.2	< 7.6	< 8.7	< 8.1	< 7.7	< 8.0	NA	< 9.0	< 7.8	< 14	< 8.4	< 8.5	< 7.8	< 8.1
trans-1,2-Dichloroethene	9,000	NA	< 5.0	< 4.2	< 4.6	< 4.8	< 4.8	< 4.6	< 4.5	NA	< 4.8	< 4.8	< 4.5	< 5.1	< 4.7	< 4.5	< 4.6	NA	< 5.2	< 4.5	< 8.3	< 4.9	< 5.0	< 4.6	< 4.7
Trichloroethene	67	< 6.2	< 6.8	< 5.6	< 6.2	< 6.6	< 6.6	< 6.3	< 6.1	< 6.2	< 6.5	< 6.5	< 6.0	< 6.9	< 6.4	< 6.1	< 6.3	< 6.0	< 7.1	< 6.2	< 11	< 6.7	< 6.8	< 6.2	< 6.4
Vinyl Chloride	54	< 3.0	< 3.2	< 2.7	< 2.9	< 3.1	< 3.1	< 3.0	< 2.9	< 3.0	< 3.1	< 3.1	< 2.9	< 3.3	< 3.0	< 2.9	< 3.0	< 2.8	< 3.4	< 2.9	< 5.3	< 3.2	< 3.2	< 3.0	< 3.0

Location:	Residential RIASL	SVMP-02D								SVMP-03S								SVMP-03D							
Sample Depth (ft. bgs):		8.5								3.5								7							
Sample Date:		6/9/2017	9/20/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/7/2018	3/5/2019	6/12/2017	9/21/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/7/2018	3/21/2019	6/12/2017	9/21/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/7/2018	3/21/2019
VOCs (Method TO-15) µg/m^3																									
1,1-Dichloroethene	7,000	NA	< 5.2	< 4.6	< 8.3	< 5.1	< 4.9	< 4.6	< 4.8	NA	< 4.9	< 4.0	< 4.3	< 5.5	< 4.6	< 4.5	NS	NA	< 4.7	< 4.3	< 4.6	< 5.0	< 4.6	< 4.4	< 4.8
1,4-Dioxane	170	NA	< 19	< 17	< 30	< 18	< 18	< 17	< 17	NA	< 18	< 15	< 16	< 20	< 17	< 16	NS	NA	< 17	< 16	< 17	< 18	< 17	< 16	< 18
cis-1,2-Dichloroethene	280	NA	< 5.2	< 4.6	< 8.3	< 5.1	< 4.9	< 4.6	< 4.8	NA	< 4.9	< 4.0	< 4.3	< 5.5	< 4.6	< 4.5	NS	NA	< 4.7	< 4.3	< 4.6	< 5.0	< 4.6	< 4.4	< 4.8
Tetrachloroethene	1,400	NA	< 9.0	< 7.9	< 14	< 8.7	< 8.4	< 7.9	< 8.1	NA	< 8.3	< 6.9	< 7.3	< 9.4	< 7.8	< 7.7	NS	NA	< 8.1	< 7.4	< 7.9	< 8.5	< 7.8	< 7.5	< 8.3
trans-1,2-Dichloroethene	9,000	NA	< 5.2	< 4.6	< 8.3	< 5.1	< 4.9	< 4.6	< 4.8	NA	< 4.9	< 4.0	< 4.3	< 5.5	< 4.6	< 4.5	NS	NA	< 4.7	< 4.3	< 4.6	< 5.0	< 4.6	< 4.4	< 4.8
Trichloroethene	67	< 6.1	< 7.1	< 6.3	< 11	< 6.9	< 6.6	< 6.3	< 6.4	< 6.3	< 6.6	< 5.5	< 5.8	< 7.4	< 6.2	< 6.1	NS	< 6.8	< 6.4	< 5.8	< 6.3	< 6.7	< 6.2	< 6.0	< 6.6
Vinyl Chloride	54	< 2.9	< 3.4	< 3.0	< 5.3	< 3.3	< 3.2	< 3.0	< 3.1	< 3.0	< 3.1	< 2.6	< 2.8	< 3.5	< 3.0	< 2.9	NS	< 3.2	< 3.0	< 2.8	< 3.0	< 3.2	< 3.0	< 2.8	< 3.1

Location:	Residential RIASL	SVMP-04								SVMP-05								SVMP-06							
Sample Depth (ft. bgs):		3.5								4.5								4.5							
Sample Date:		6/12/2017	9/20/2017	11/20/2017	2/21/2018	5/30/2018	8/23/2018	11/5/2018	3/5/2019	6/12/2017	9/20/2017	11/20/2017	2/21/2018	5/30/2018	8/23/2018	11/5/2018	3/21/2019	6/13/2017	9/20/2017	11/20/2017	2/21/2018	5/30/2018	8/23/2018	11/5/2018	3/21/2019
VOCs (Method TO-15) µg/m^3																									
1,1-Dichloroethene	7,000	NA	< 4.9	< 4.9	< 4.7	< 4.8	< 4.9	< 5.1	< 5.9	NA	< 4.8	< 4.6	< 4.2	< 4.7	< 4.6	< 4.6	< 5.0	NA	< 4.6	< 4.5	< 4.6	< 4.7	< 4.6	< 4.4	< 4.9
1,4-Dioxane	170	NA	< 18	< 18	< 17	< 17	< 18	< 18	< 22	NA	< 17	< 16	< 15	< 17	< 17	< 16	< 18	NA	< 17	< 16	< 17	< 17	< 16	< 16	< 18
cis-1,2-Dichloroethene	280	NA	< 4.9	< 4.9	< 4.7	< 4.8	< 4.9	< 5.1	< 5.9	NA	< 4.8	< 4.6	< 4.2	< 4.7	< 4.6	< 4.6	< 5.0	NA	< 4.6	< 4.5	< 4.6	< 4.7	< 4.6	< 4.4	< 4.9
Tetrachloroethene	1,400	NA	**8.3 J**	< 8.4	< 8.1	< 8.2	< 8.4	< 8.7	< 10	NA	< 8.2	< 7.8	< 7.2	< 8.0	< 7.8	< 7.8	< 8.5	NA	**24**	< 7.7	< 7.8	< 8.1	< 7.8	< 7.6	< 8.4
trans-1,2-Dichloroethene	9,000	NA	< 4.9	< 4.9	< 4.7	< 4.8	< 4.9	< 5.1	< 5.9	NA	< 4.8	< 4.6	< 4.2	< 4.7	< 4.6	< 4.6	< 5.0	NA	< 4.6	< 4.5	< 4.6	< 4.7	< 4.6	< 4.4	< 4.9
Trichloroethene	67	< 6.0	< 6.6	< 6.7	< 6.4	< 6.5	< 6.6	< 6.9	< 8.1	< 6.7	< 6.5	< 6.2	< 5.7	< 6.3	< 6.2	< 6.2	< 6.8	< 6.0	< 6.3	< 6.1	< 6.2	< 6.4	< 6.2	< 6.0	< 6.7
Vinyl Chloride	54	< 2.9	< 3.2	< 3.2	< 3.0	< 3.1	< 3.2	< 3.3	< 3.8	< 3.2	< 3.1	< 2.9	< 2.7	< 3.0	< 3.0	< 2.9	< 3.2	< 2.9	< 3.0	< 2.9	< 3.0	< 3.0	< 2.9	< 2.9	< 3.2

Location:	Residential RIASL	SVMP-07								SVMP-08								SVMP-09							
Sample Depth (ft. bgs):		3.5								3.5								4							
Sample Date:		6/13/2017	9/20/2017	11/20/2017	2/19/2018	5/30/2018	8/23/2018	11/5/2018	3/4/2019	6/15/2017	9/20/2017	11/20/2017	2/20/2018	5/29/2018	8/23/2018	11/5/2018	3/5/2019	6/14/2017	9/20/2017	11/20/2017	2/20/2018	5/30/2018	8/23/2018	11/5/2018	3/5/2019
VOCs (Method TO-15) µg/m^3																									
1,1-Dichloroethene	7,000	NA	< 4.8	< 4.7	< 4.5	< 4.9	< 4.7	< 4.8	< 4.5	NA	< 4.7	< 4.6	< 4.6	< 5.0	< 4.8	< 4.6	< 4.8	NA	< 4.9	< 4.5	< 4.8	< 4.5	< 4.9	< 4.4	< 4.7
1,4-Dioxane	170	NA	< 17	< 17	< 16	< 18	< 17	< 17	< 16	NA	< 17	< 17	< 17	< 18	< 17	< 17	< 17	NA	< 18	< 16	< 17	< 16	< 18	< 16	< 17
cis-1,2-Dichloroethene	280	NA	< 4.8	< 4.7	< 4.5	< 4.9	< 4.7	< 4.8	< 4.5	NA	< 4.7	< 4.6	< 4.6	< 5.0	< 4.8	< 4.6	< 4.8	NA	< 4.9	< 4.5	< 4.8	< 4.5	< 4.9	< 4.4	< 4.7
Tetrachloroethene	1,400	NA	< 8.2	< 8.1	< 7.7	< 8.4	< 8.1	< 8.1	< 7.7	NA	< 8.1	< 7.9	< 7.9	< 8.6	< 8.2	< 7.9	< 8.2	NA	< 8.4	< 7.7	< 8.2	< 7.7	< 8.4	< 7.5	< 8.1
trans-1,2-Dichloroethene	9,000	NA	< 4.8	< 4.7	< 4.5	< 4.9	< 4.7	< 4.8	< 4.5	NA	< 4.7	< 4.6	< 4.6	< 5.0	< 4.8	< 4.6	< 4.8	NA	< 4.9	< 4.5	< 4.8	< 4.5	< 4.9	< 4.4	< 4.7
Trichloroethene	67	< 6.3	< 6.5	< 6.4	< 6.1	< 6.7	< 6.4	< 6.4	< 6.1	< 6.5	< 6.4	< 6.2	< 6.3	**11**	< 6.5	< 6.3	< 6.5	**6.9**	< 6.6	< 6.1	< 6.5	< 6.1	< 6.6	< 5.9	< 6.4
Vinyl Chloride	54	< 3.0	< 3.1	< 3.0	< 2.9	< 3.2	< 3.0	< 3.1	< 2.9	< 3.1	< 3.0	< 3.0	< 3.0	< 3.2	< 3.1	< 3.0	< 3.1	< 3.0	< 3.2	< 2.9	< 3.1	< 2.9	< 3.2	< 2.8	< 3.0

See Notes on Last Page.

Table 7
Off-Site Soil Vapor Monitoring Point Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:	Residential RIASL	SVMP-10								SVMP-11	SVMP-12								SVMP-13							
Sample Depth (ft. bgs):		3								3.5	3.5								2							
Sample Date:		6/13/2017	9/20/2017	11/21/2017	2/20/2018	5/31/2018	8/23/2018	11/5/2018	3/5/2019	6/13/2017	6/13/2017	9/19/2017	11/21/2017	2/20/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/16/2017	9/19/2017	11/21/2017	2/19/2018	5/31/2018	8/24/2018	11/7/2018	3/21/2019
VOCs (Method TO-15) µg/m^3																										
1,1-Dichloroethene	7,000	NA	< 4.8	< 4.4	< 4.7	NS	< 4.9	< 4.7	NS	NA	NA	< 4.8	< 4.7	< 4.7	< 4.8	< 4.7	< 4.8	< 4.8	NA	< 4.6	< 4.6	NS	NS	< 4.8	NS	NS
1,4-Dioxane	170	NA	< 17	< 16	< 17	NS	< 18	< 17	NS	NA	NA	< 17	< 17	< 17	< 18	< 17	< 18	< 17	NA	< 17	< 16	NS	NS	< 17	NS	NS
cis-1,2-Dichloroethene	280	NA	< 4.8	< 4.4	< 4.7	NS	< 4.9	< 4.7	NS	NA	NA	< 4.8	< 4.7	< 4.7	< 4.8	< 4.7	< 4.8	< 4.8	NA	< 4.6	< 4.6	NS	NS	< 4.8	NS	NS
Tetrachloroethene	1,400	NA	< 8.2	< 7.5	< 8.1	NS	< 8.4	< 8.1	NS	NA	NA	< 8.2	< 8.0	< 8.1	< 8.2	< 8.0	< 8.2	< 8.2	NA	< 7.9	< 7.8	NS	NS	< 8.2	NS	NS
trans-1,2-Dichloroethene	9,000	NA	< 4.8	< 4.4	< 4.7	NS	< 4.9	< 4.7	NS	NA	NA	< 4.8	< 4.7	< 4.7	< 4.8	< 4.7	< 4.8	< 4.8	NA	< 4.6	< 4.6	NS	NS	< 4.8	NS	NS
Trichloroethene	67	< 6.7	< 6.5	< 5.9	< 6.4	NS	< 6.6	< 6.4	NS	< 6.3	< 6.4	< 6.5	< 6.3	< 6.4	< 6.5	< 6.4	< 6.5	< 6.5	< 6.6	< 6.3	< 6.2	NS	NS	< 6.5	NS	NS
Vinyl Chloride	54	< 3.2	< 3.1	< 2.8	< 3.0	NS	< 3.2	< 3.0	NS	< 3.0	< 3.0	< 3.1	< 3.0	< 3.0	< 3.1	< 3.0	< 3.1	< 3.1	< 3.2	< 3.0	< 2.9	NS	NS	< 3.1	NS	NS

Location:	Residential RIASL	SVMP-14								SVMP-15								SVMP-16							
Sample Depth (ft. bgs):		2								2								2							
Sample Date:		6/16/2017	9/19/2017	11/21/2017	2/19/2018	5/31/2018	8/24/2018	11/7/2018	3/5/2019	6/16/2017	9/19/2017	11/20/2017	2/19/2018	5/31/2018	8/24/2018	11/7/2018	3/21/2019	6/16/2017	9/19/2017	11/20/2017	2/19/2018	5/31/2018	8/24/2018	11/7/2018	3/21/2019
VOCs (Method TO-15) µg/m^3																									
1,1-Dichloroethene	7,000	NA	< 4.5	< 4.1	NS	NS	< 4.7	NS	< 5.3	NA	< 4.7	< 4.4	NS	NS	< 4.8	NS	NS	NA	< 4.5	< 4.3	NS	NS	< 5.0	NS	NS
1,4-Dioxane	170	NA	< 16	< 15	NS	NS	< 17	NS	< 19	NA	< 17	< 16	NS	NS	< 17	NS	NS	NA	< 16	< 16	NS	NS	< 18	NS	NS
cis-1,2-Dichloroethene	280	NA	< 4.5	< 4.1	NS	NS	< 4.7	NS	< 5.3	NA	< 4.7	< 4.4	NS	NS	< 4.8	NS	NS	NA	< 4.5	< 4.3	NS	NS	< 5.0	NS	NS
Tetrachloroethene	1,400	NA	< 7.8	< 7.0	NS	NS	< 8.1	NS	< 9.0	NA	< 8.1	< 7.6	NS	NS	< 8.2	NS	NS	NA	< 7.8	< 7.4	NS	NS	< 8.5	NS	NS
trans-1,2-Dichloroethene	9,000	NA	< 4.5	< 4.1	NS	NS	< 4.7	NS	< 5.3	NA	< 4.7	< 4.4	NS	NS	< 4.8	NS	NS	NA	< 4.5	< 4.3	NS	NS	< 5.0	NS	NS
Trichloroethene	67	< 6.4	< 6.2	< 5.6	NS	NS	< 6.4	NS	< 7.2	< 6.3	< 6.4	< 6.0	NS	NS	< 6.5	NS	NS	< 6.4	< 6.2	< 5.9	NS	NS	< 6.8	NS	NS
Vinyl Chloride	54	< 3.0	< 2.9	< 2.6	NS	NS	< 3.0	NS	< 3.4	< 3.0	< 3.0	< 2.9	NS	NS	< 3.1	NS	NS	< 3.0	< 2.9	< 2.8	NS	NS	< 3.2	NS	NS

Location:	Residential RIASL	SVMP-17								SVMP-18								SVMP-19							
Sample Depth (ft. bgs):		2								3								3							
Sample Date:		6/16/2017	9/19/2017	11/20/2017	2/19/2018	5/30/2018	8/24/2018	11/7/2018	3/5/2019	6/16/2017	9/18/2017	11/17/2017	2/20/2018	5/30/2018	8/22/2018	11/7/2018	3/5/2019	6/16/2017	9/18/2017	11/17/2017	2/20/2018	5/31/2018	8/22/2018	11/7/2018	3/5/2019
VOCs (Method TO-15) µg/m^3																									
1,1-Dichloroethene	7,000	NA	< 4.8	NS	NS	< 4.8	< 4.9	NS	< 4.9	NA	< 4.6	< 4.3	< 4.5	< 4.7	< 5.1	< 4.6	< 5.6	NA	< 5.1	< 4.3	< 4.1	NS	< 4.5	NS	< 4.8
1,4-Dioxane	170	NA	< 17	NS	NS	< 17	< 18	NS	< 18	NA	< 17	< 16	< 16	< 17	< 18	< 16	< 20	NA	< 18	< 16	< 15	NS	< 16	NS	< 18
cis-1,2-Dichloroethene	280	NA	< 4.8	NS	NS	< 4.8	< 4.9	NS	< 4.9	NA	< 4.6	< 4.3	< 4.5	< 4.7	< 5.1	< 4.6	< 5.6	NA	< 5.1	< 4.3	< 4.1	NS	< 4.5	NS	< 4.8
Tetrachloroethene	1,400	NA	< 8.2	NS	NS	< 8.1	< 8.4	NS	< 8.3	NA	< 7.9	< 7.3	< 7.8	< 8.1	< 8.8	< 7.8	< 9.6	NA	< 8.8	< 7.4	< 7.1	NS	< 7.7	NS	< 8.3
trans-1,2-Dichloroethene	9,000	NA	< 4.8	NS	NS	< 4.8	< 4.9	NS	< 4.9	NA	< 4.6	< 4.3	< 4.5	< 4.7	< 5.1	< 4.6	< 5.6	NA	< 5.1	< 4.3	< 4.1	NS	< 4.5	NS	< 4.8
Trichloroethene	67	**18**	**22**	NS	NS	< 6.4	< 6.6	NS	< 6.6	< 6.6	< 6.3	< 5.8	< 6.2	< 6.4	< 6.9	< 6.2	< 7.6	< 6.4	< 6.9	< 5.9	< 5.6	NS	< 6.1	NS	< 6.6
Vinyl Chloride	54	< 3.0	< 3.1	NS	NS	< 3.1	< 3.2	NS	< 3.1	< 3.2	< 3.0	< 2.8	< 2.9	< 3.0	< 3.3	< 2.9	< 3.6	< 3.0	< 3.3	< 2.8	< 2.7	NS	< 2.9	NS	< 3.1

Location:	Residential RIASL	SVMP-20								SVMP-21								SVMP-22							
Sample Depth (ft. bgs):		3								2								3							
Sample Date:		6/19/2017	9/19/2017	11/20/2017	2/19/2018	5/31/2018	8/22/2018	11/7/2018	3/5/2019	6/19/2017	9/19/2017	11/20/2017	2/19/2018	5/30/2018	8/24/2018	11/7/2018	3/5/2019	6/19/2017	9/18/2017	11/17/2017	2/20/2018	5/31/2018	8/21/2018	11/5/2018	3/5/2019
VOCs (Method TO-15) µg/m^3																									
1,1-Dichloroethene	7,000	NA	< 4.8	NS	NS	NS	< 4.7	NS	NS	NA	< 4.6	< 4.6	NS	< 4.8	< 4.8	NS	< 5.2	NA	< 4.8	< 4.9	< 4.7	NS	< 4.7	< 4.7	< 4.8
1,4-Dioxane	170	NA	< 17	NS	NS	NS	< 17	NS	NS	NA	< 17	< 17	NS	< 18	< 17	NS	< 19	NA	< 17	< 18	< 17	NS	< 17	< 17	< 18
cis-1,2-Dichloroethene	280	NA	< 4.8	NS	NS	NS	< 4.7	NS	NS	NA	< 4.6	< 4.6	NS	< 4.8	< 4.8	NS	< 5.2	NA	< 4.8	< 4.9	< 4.7	NS	< 4.7	< 4.7	< 4.8
Tetrachloroethene	1,400	NA	< 8.2	NS	NS	NS	< 8.0	NS	NS	NA	< 7.9	< 7.9	NS	< 8.3	< 8.2	NS	< 8.8	NA	< 8.2	< 8.4	< 8.1	NS	< 8.0	< 8.1	< 8.3
trans-1,2-Dichloroethene	9,000	NA	< 4.8	NS	NS	NS	< 4.7	NS	NS	NA	< 4.6	< 4.6	NS	< 4.8	< 4.8	NS	< 5.2	NA	< 4.8	< 4.9	< 4.7	NS	< 4.7	< 4.7	< 4.8
Trichloroethene	67	< 5.8	< 6.5	NS	NS	NS	< 6.3	NS	NS	< 6.2	< 6.3	< 6.2	NS	< 6.6	< 6.5	NS	< 7.0	< 6.4	< 6.5	< 6.7	< 6.4	NS	< 6.3	< 6.4	< 6.6
Vinyl Chloride	54	< 2.7	< 3.1	NS	NS	NS	< 3.0	NS	NS	< 3.0	< 3.0	< 3.0	NS	< 3.1	< 3.1	NS	< 3.3	< 3.1	< 3.1	< 3.2	< 3.0	NS	< 3.0	< 3.0	< 3.1

See Notes on Last Page.

Table 7
Off-Site Soil Vapor Monitoring Point Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:	Residential RIASL	SVMP-23								SVMP-24								SVMP-25S							
Sample Depth (ft. bgs):		3								4								3							
Sample Date:		6/19/2017	9/18/2017	11/17/2017	2/20/2018	5/31/2018	8/22/2018	11/5/2018	3/21/2019	6/19/2017	9/18/2017	11/17/2017	2/21/2018	5/30/2018	8/22/2018	11/5/2018	3/21/2019	6/19/2017	9/21/2017	11/21/2017	2/21/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019
VOCs (Method TO-15) µg/m^3																									
1,1-Dichloroethene	7,000	NA	< 4.6	< 4.3	< 4.2	NS	< 4.6	< 4.5	NS	NA	< 4.6	< 4.4	< 4.7	< 4.6	< 4.7	< 4.5	< 4.8	NA	< 4.7	< 4.5	< 4.4	< 5.0	< 5.0	< 4.6	< 5.0
1,4-Dioxane	170	NA	< 17	< 16	< 15	NS	< 17	< 16	NS	NA	< 17	< 16	< 17	< 17	< 17	< 16	< 18	NA	< 17	< 16	< 16	< 18	< 18	< 17	< 18
cis-1,2-Dichloroethene	280	NA	< 4.6	< 4.3	< 4.2	NS	< 4.6	< 4.5	NS	NA	< 4.6	< 4.4	< 4.7	< 4.6	< 4.7	< 4.5	< 4.8	NA	< 4.7	< 4.5	< 4.4	< 5.0	< 5.0	< 4.6	< 5.0
Tetrachloroethene	1,400	NA	< 7.9	< 7.4	< 7.2	NS	< 7.9	< 7.7	NS	NA	< 7.9	< 7.5	< 8.1	< 7.9	< 8.1	< 7.8	< 8.2	NA	< 8.1	< 7.7	< 7.6	< 8.5	< 8.5	**1.6 J**	< 8.5
trans-1,2-Dichloroethene	9,000	NA	< 4.6	< 4.3	< 4.2	NS	< 4.6	< 4.5	NS	NA	< 4.6	< 4.4	< 4.7	< 4.6	< 4.7	< 4.5	< 4.8	NA	< 4.7	< 4.5	< 4.4	< 5.0	< 5.0	< 4.6	< 5.0
Trichloroethene	67	< 6.4	< 6.3	< 5.8	< 5.7	NS	< 6.3	< 6.1	NS	< 6.2	< 6.3	< 5.9	< 6.4	< 6.3	**6.9**	< 6.2	< 6.5	< 6.2	< 6.4	< 6.1	< 6.0	< 6.7	< 6.7	< 6.2	< 6.7
Vinyl Chloride	54	< 3.1	< 3.0	< 2.8	< 2.7	NS	< 3.0	< 2.9	NS	< 3.0	< 3.0	< 2.8	< 3.0	< 3.0	< 3.0	< 2.9	< 3.1	< 3.0	< 3.0	< 2.9	< 2.9	< 3.2	< 3.2	< 3.0	< 3.2

Location:	Residential RIASL	SVMP-25D								SVMP-26								SVMP-27							
Sample Depth (ft. bgs):		6								4								4.5							
Sample Date:		6/19/2017	9/21/2017	11/21/2017	2/21/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/19/2017	9/21/2017	11/21/2017	2/21/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/19/2017	9/21/2017	11/21/2017	2/21/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019
VOCs (Method TO-15) µg/m^3																									
1,1-Dichloroethene	7,000	NA	< 4.4	< 4.7	< 4.4	< 5.1	< 4.7	< 4.7	< 5.2	NA	< 4.9	< 4.4	< 4.4	< 4.9	< 4.6	< 4.9	< 5.0	NA	< 4.4	< 4.4	< 4.4	< 4.9	< 5.0	< 4.5	< 5.0
1,4-Dioxane	170	NA	< 16	< 17	< 16	< 19	< 17	< 17	< 19	NA	< 18	< 16	< 16	< 18	< 17	< 18	< 18	NA	< 16	< 16	< 16	< 18	< 18	< 16	< 18
cis-1,2-Dichloroethene	280	NA	< 4.4	< 4.7	< 4.4	< 5.1	< 4.7	< 4.7	< 5.2	NA	< 4.9	< 4.4	< 4.4	< 4.9	**14**	< 4.9	< 5.0	NA	**11**	< 4.4	< 4.4	< 4.9	< 5.0	< 4.5	< 5.0
Tetrachloroethene	1,400	NA	**12**	< 8.1	< 7.6	< 8.8	< 8.1	**2.5 J**	< 8.8	NA	< 8.4	< 7.6	< 7.5	< 8.4	< 8.0	< 8.4	< 8.5	NA	< 7.6	< 7.5	< 7.6	< 8.4	< 8.5	< 7.6	< 8.5
trans-1,2-Dichloroethene	9,000	NA	< 4.4	< 4.7	< 4.4	< 5.1	< 4.7	< 4.7	< 5.2	NA	< 4.9	< 4.4	< 4.4	< 4.9	< 4.6	< 4.9	< 5.0	NA	< 4.4	< 4.4	< 4.4	< 4.9	< 5.0	< 4.5	< 5.0
Trichloroethene	67	< 6.4	< 6.0	< 6.4	< 6.0	< 7.0	< 6.4	< 6.4	< 7.0	< 6.2	< 6.6	< 6.0	< 5.9	< 6.7	**24**	< 6.7	< 6.8	< 6.2	**7.2**	< 5.9	< 6.0	< 6.7	< 6.7	< 6.0	< 6.7
Vinyl Chloride	54	< 3.0	< 2.9	< 3.0	< 2.9	< 3.3	< 3.0	< 3.0	< 3.3	< 3.0	< 3.2	< 2.9	< 2.8	< 3.2	< 3.0	< 3.2	< 3.2	< 3.0	< 2.9	< 2.8	< 2.9	< 3.2	< 3.2	< 2.9	< 3.2

Location:	Residential RIASL	SVMP-28								SVMP-29		SVMP-30	SVMP-31	SVMP-32		SVMP-33	SVMP-34	SVMP-35	SVMP-36	SVMP-37
Sample Depth (ft. bgs):		3								3.5	7.5	4	5.5	3	6	4	4	4	4	2.5
Sample Date:		6/19/2017	9/21/2017	11/21/2017	2/21/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/14/2017	6/14/2017	6/14/2017	6/14/2017	6/15/2017	6/15/2017	6/15/2017	6/15/2017	6/15/2017	6/16/2017	6/16/2017
VOCs (Method TO-15) µg/m^3																				
1,1-Dichloroethene	7,000	NA	< 4.8	< 4.6	< 4.3	< 5.2	< 4.7	< 4.7	< 5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	170	NA	< 17	< 17	< 16	< 19	< 17	< 17	< 18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	280	NA	< 4.8	< 4.6	< 4.3	< 5.2	< 4.7	< 4.7	< 5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1,400	NA	**25**	< 7.9	< 7.3	< 8.9	**8.9**	< 8.1	< 8.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	9,000	NA	< 4.8	< 4.6	< 4.3	< 5.2	< 4.7	< 4.7	< 5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	67	< 6.1	< 6.5	< 6.3	< 5.8	< 7.1	< 6.3	< 6.4	< 6.7	< 6.3	< 6.0	**31**	< 6.1	< 6.4	< 6.5	< 6.5	< 6.3	< 6.9	< 6.2	< 6.2
Vinyl Chloride	54	< 2.9	< 3.1	< 3.0	< 2.8	< 3.4	< 3.0	< 3.0	< 3.2	< 3.0	< 2.8	< 2.9	< 2.9	< 3.0	< 3.1	< 3.1	< 3.0	< 3.3	< 2.9	< 3.0

See Notes on Last Page.

Table 7
Off-Site Soil Vapor Monitoring Point Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Notes:

The residential RIASLs apply to a residential structure with a basement.
SVMP-11 abandoned after the initial sampling event per the adjacent property owner's request.
SVMP-29 through SVMP-37 are located on residential properties, and therefore, were only sampled during the initial sampling event.
SVMP-17 and SVMP-20 were not sampled during the November 2017 sampling event due to saturated screens.
SVMP-13 through SVMP-17, SVMP-20, and SVMP-21 were not sampled during the February 2018 sampling event due to saturated screens.
SVMP-10, SVMP-13 through SVMP-16, SVMP-19, SVMP-22, and SVMP-23 were not sampled during the May 2018 sampling event due to saturated screens.
SVMP-20 was not sampled during the May 2018 sampling event due to a blockage in the tubing.
SVMP-13 through SVMP-17, and SVMP-19 through SVMP-21 were not sampled during the November 2018 sampling event due to saturated screens.
SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, and SVMP-23 were not sampled during the March 2019 sampling event due to saturated screens.
SVMP-03S was not sampled during the March 2019 sampling event due to technical difficulties with the canister.

Bold Concentration was detected above reporting limit.

Abbreviations:

<	denotes not detected above reporting limit
µg/m^3	micrograms per cubic meter
ft. bgs	feet below ground surface
J	reported value is estimated
NA	not analyzed
NS	not sampled
RIASL	recommended interim action screening levels
SVMP	soil vapor monitoring point
VOC	volatile organic compound

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Table 8
Hydraulic Control System Monthly Discharge Volumes
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Date	Approximate Volume of Treated Water Discharged [¥] (Gallons)	Date	Approximate Volume of Treated Water Discharged [¥] (Gallons)	Date	Approximate Volume of Treated Water Discharged [¥] (Gallons)
1/1/2019	37,773	2/1/2019[ΩE]	52,657	3/1/2019[ΩS]	22,315
1/2/2019[Ω]	38,003	2/2/2019[E]	51,135	3/2/2019	59,240
1/3/2019	38,026	2/3/2019[E]	51,135	3/3/2019	58,912
1/4/2019[Ω*]	37,997	2/4/2019[ΩE]	53,740	3/4/2019	58,665
1/5/2019	37,849	2/5/2019	53,977	3/5/2019	58,534
1/6/2019	37,419	2/6/2019[*]	53,968	3/6/2019	57,631
1/7/2019[Ω]	36,919	2/7/2019	53,241	3/7/2019[*M]	38,316
1/8/2019	37,748	2/8/2019[Ω]	52,835	3/8/2019	59,093
1/9/2019	44,192	2/9/2019	54,434	3/9/2019	58,323
1/10/2019	55,635	2/10/2019	53,993	3/10/2019	53,897
1/11/2019	53,401	2/11/2019[Ω]	52,240	3/11/2019[Ω]	47,933
1/12/2019	55,667	2/12/2019	54,466	3/12/2019	55,955
1/13/2019	55,392	2/13/2019	53,998	3/13/2019	54,787
1/14/2019[ΩS]	53,513	2/14/2019	52,087	3/14/2019	53,352
1/15/2019	55,023	2/15/2019[Ω]	50,334	3/15/2019[Ω]	51,137
1/16/2019	54,652	2/16/2019	49,515	3/16/2019	54,240
1/17/2019	53,484	2/17/2019	48,468	3/17/2019	53,935
1/18/2019[Ω]	53,407	2/18/2019	47,440	3/18/2019	52,792
1/19/2019	54,237	2/19/2019[Ω]	48,699	3/19/2019	51,565
1/20/2019	52,301	2/20/2019	52,765	3/20/2019	50,048
1/21/2019[Ω]	49,692	2/21/2019	50,801	3/21/2019	48,394
1/22/2019	39,027	2/22/2019[Ω]	51,290	3/22/2019[Ω]	46,619
1/23/2019[Ω]	36,359	2/23/2019	58,505	3/23/2019	39,574
1/24/2019	34,974	2/24/2019	57,346	3/24/2019	43,806
1/25/2019[Ω]	34,666	2/25/2019[Ω]	56,466	3/25/2019[Ω]	50,235
1/26/2019	34,324	2/26/2019	58,130	3/26/2019	49,888
1/27/2019	33,610	2/27/2019	57,937	3/27/2019	49,306
1/28/2019[Ω]	33,280	2/28/2019[S]	38,130	3/28/2019	47,696
1/29/2019[S]	37,397	--	--	3/29/2019[Ω]	47,125
1/30/2019[Ω]	52,537	--	--	3/30/2019	46,492
1/31/2019	53,528	--	--	3/31/2019	45,864
Total volume discharged during January 2019	**1,382,032**	**Total volume discharged during February 2019**	**1,469,732**	**Total volume discharged during March 2019**	**1,565,669**

Notes:
Treated groundwater discharge volume readings are recorded daily.

Footnotes:
[¥] Volume of treated groundwater discharged from the groundwater remediation system is based on a totalizer flow meter installed on the effluent discharge pipe inside the system building.
[*] Monthly treated groundwater discharge compliance sample collected as required by the Wastewater Discharge Permit Addendum #1 (Permit No.: 006-27510-IU).
[Ω] Groundwater remediation treatment system inspection visit.
[M] System offline to perform maintenance activities.
[S] System shut down.
[E] Daily discharge amounts estimated from totalizer readings recorded on 2/1/2019 and 2/4/2019, end of day 24-hour readings were not recorded during this time.

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

FIGURES

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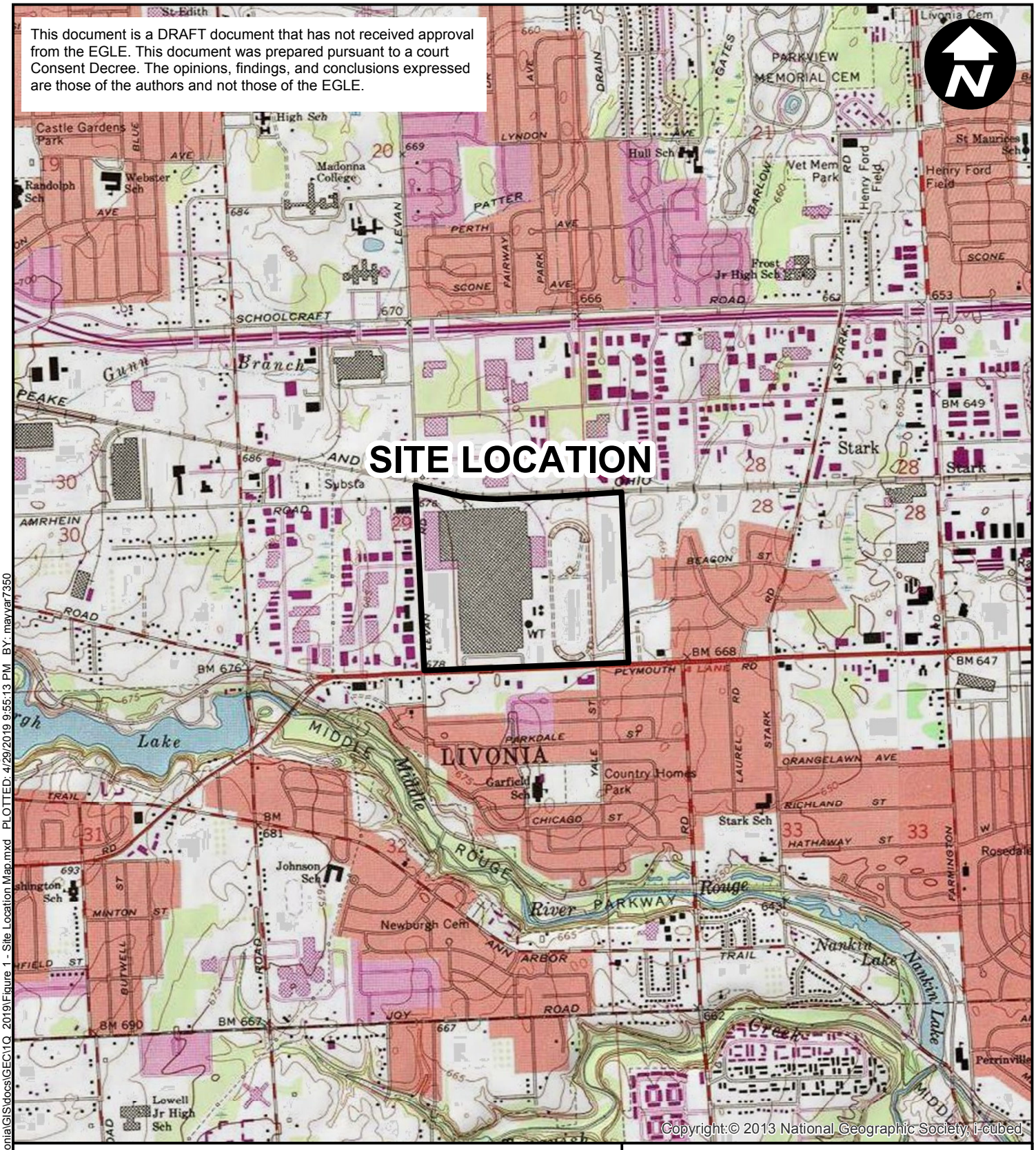

0 2,000 4,000

SCALE IN FEET

NOTES:

MEGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

SOURCE:

USGS 7.5 MINUTE TOPOGRAPHIC MAP
NORTHVILLE AND WAYNE QUADRANGLES

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: MI001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects\ ENV\Novi\Brighton MI\Ford\Livonia\GIS\docs\GEC\1Q 2019\Figure 1 - Site Location Map.mxd PLOTTED: 4/29/2019 9:55:13 PM BY: mayvar7350

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ON-SITE AREA

OFF-SITE AREA

LIVONIA TRANSMISSION PLANT

TEST TRACK

ATNPC BUILDING

SSDS Location

HCS Location

VERONICA AVE

GLENDALE ST

AMRHEIN RD

LEVAN RD

ROSATI AVE

CONCORD ST

CAPITOL ST

STARK RD

WADSWORTH ST

BELDEN CT

PRISCILLA LN

PLYMOUTH RD

LAUREL ST

PARKDALE AVE

0 400 800

SCALE IN FEET

LEGEND

- SOIL VAPOR MONITORING POINT
- MONITORING WELL
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- SUCTION PITS
- PIEZOMETER
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- SSDS CONVEYANCE PIPING
- FORD PROPERTY BOUNDARY
- COMMERCIAL/RESIDENTIAL PROPERTY BOUNDARY
- AREA OF CONCERN

NOTES:

ATNPC - AUTOMATIC TRANSMISSION NEW PRODUCT CENTER

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

HDPE = HIGH-DENSITY POLYETHYLENE

SSDS = SUB-SLAB DEPRESSURIZATION SYSTEM

HCS = HYDRAULIC CONTROL SYSTEM

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

SITE LAYOUT

ARCADIS Design & Consultancy for natural and built assets

FIGURE 2

CITY: Novi DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY PROJECT NUMBER: MI001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MIFordLivoniaGIS\docs\2019-04\Figure 2 - Site Layout On-site and Off-site.mxd PLOTTED: 5/1/2019 9:56:35 AM BY: msmiller

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CITY: Novi DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY PROJECT NUMBER: MI001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
Z:\GISProjects_ENV\NoviBrighton_MIFord\Livonia\GIS\docs\2019-04\GWE_DataposfQ1_OnsiteOffsite.mxd PLOTTED: 5/1/2019 9:47:51 AM BY: msmiller

LEGEND

- OFF-SITE MONITORING WELL
- ON-SITE MONITORING WELL LOCATION
- PIEZOMETER LOCATION
- ESD VAULT LOCATIONS
- HYDRAULIC CONTROL SYSTEM PATH LINE
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- FORD PROPERTY BOUNDARY
- PROPERTY BOUNDARY
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPARENT GROUNDWATER FLOW DIRECTION

NOTES:
1. WHERE NESTED WELLS ARE PRESENT, THE SHALLOW WELL IS USED FOR CONTOURING
2. GROUNDWATER ELEVATIONS MEASURED IN LATE FEBRUARY AND EARLY MARCH, 2019
3. ALL ELEVATIONS ARE REFERENCED TO A MEAN SEA LEVEL DATUM AND ARE IN UNITS OF FEET ABOVE SEA LEVEL
4. * MONITORING WELL SCREENED IN DEEPER AQUIFER. ELEVATION NOT USED FOR CONTOURING
5. HDPE - HIGH DENSITY POLYETHYLENE
6. NM = NOT MEASURED

0 400 800
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

SITE-WIDE GROUNDWATER ELEVATION CONTOUR MAP UNDER PUMPING CONDITIONS FEBRUARY 2019

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

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MW-15-59D (94-99 FT)
5/15/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)

MW-26 (4.5-14.5 FT)
5/15/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-27

MW-28 (2-12 FT)
5/15/2018: 0.43 J µg/L
8/13/2018: 0.86 J µg/L
10/31/2018: 0.51 J µg/L
2/26/2019: 0.24 J µg/L

MW-56 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/13/2018: 0.24 J µg/L
10/31/2018: 0.43 J µg/L
2/27/2019: 0.26 J µg/L

MW-55 (15-20 FT)
5/10/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: 0.19 J µg/L
2/27/2019: ND (< 1.0 µg/L)

MW-54 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
CNA Q1 2019

MW-57 (17-22 FT)
5/9/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/25/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-53 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-58 (15-20 FT)
5/14/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

VAULT V-ESD-1

MW-52 (15-20 FT)
5/9/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

TW-16-04 (9-19 FT)
5/11/2018: 20 µg/L
8/8/2018: 21 µg/L
10/30/2018: 20 µg/L
2/25/2019: 14 µg/L

TW-16-03 (9-19 FT)
5/11/2018: 39 µg/L
8/8/2018: 36 µg/L
10/30/2018: 42 µg/L
2/25/2019: 33 µg/L

MW-62 (16.3-21.3 FT)
5/9/2018: 0.83 J µg/L
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: 0.23 J µg/L
2/27/2019: 0.33 J µg/L

MW-43 (17-22 FT)
5/9/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

LMW-15-06

LMW-15-08

LMW-15-10

MW-50 (16-21 FT)
5/9/2018: 12 µg/L
8/6/2018: 17 µg/L
10/24/2018: 16 µg/L
2/27/2019: 20 µg/L

MW-29 (5-15 FT)
5/14/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: 0.20 J µg/L
2/28/2019: ND (< 1.0 µg/L)

PW-16-02 (6-21 FT)
5/11/2018: ND (< 1.0 µg/L)
8/8/2018: 11 µg/L
10/30/2018: 11 µg/L
2/25/2019: 1.9 µg/L

MW-65 (16-21 FT)
5/10/2018: 6.0 µg/L
8/8/2018: 6.2 µg/L
10/30/2018: 7.0 µg/L
2/28/2019: 5.9 µg/L

ESD-1

MW-63 (7-12 FT)
5/9/2018: 2.5 µg/L
8/6/2018: 3.3 µg/L
10/24/2018: 2.2 µg/L
2/28/2019: 1.8 µg/L

MW-35 (19.5-24.5 FT)
5/9/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

VAULT V-ESD-2

LMW-15-09

MW-51 (15-20 FT)
5/14/2018: ND (< 1.0 µg/L)
8/6/2018: 0.37 J µg/L
10/30/2018: 0.33 J µg/L
3/1/2019: 0.22 J µg/L

MW-66 (15-20 FT)
5/10/2018: ND (< 1.0 µg/L)
8/8/2018: ND (< 1.0 µg/L)
11/2/2018: 0.19 J µg/L
3/4/2019: ND (< 1.0 µg/L)

MW-64 (15-20 FT)
5/10/2018: ND (< 1.0 µg/L)
8/13/2018: 0.29 J µg/L
11/5/2018: 0.32 J µg/L
2/28/2019: 0.23 J µg/L

MW-42 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

ESD-2

MW-48 (17-22 FT)
5/15/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/25/2018: ND (< 1.0 µg/L)
3/4/2019: ND (< 1.0 µg/L)

MW-15-61D (88-93 FT)
5/15/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

MW-44 (16-21 FT)
5/14/2018: ND (< 13 µg/L)
8/13/2018: ND (< 20 µg/L)
10/30/2018: ND (< 20 µg/L)
2/25/2019: ND (< 20 µg/L)

MW-47 (16-21 FT)
5/10/2018: 49 J µg/L
8/9/2018: 55 µg/L
10/25/2018: 48 µg/L
2/28/2019: 32 µg/L

VAULT V-ESD-3

MW-34 (16.5-21.5 FT)
5/8/2018: ND (< 1.0 µg/L)
8/10/2018: 0.33 J µg/L
11/1/2018: 0.44 J µg/L
3/2/2019: 0.32 J µg/L

LMW-15-02

MW-19 (15-20 FT)
5/14/2018: 0.71 J µg/L
8/10/2018: 1.0 µg/L
10/26/2018: 1.6 µg/L
2/28/2019: 1.3 µg/L

MW-67 (9-14 FT)
5/14/2018: 5.7 µg/L
8/13/2018: 4.5 µg/L
10/25/2018: 5.6 µg/L
2/28/2019: 5.6 µg/L

MW-46 (16-21 FT)
5/14/2018: 6.0 µg/L
8/9/2018: 11 µg/L
11/2/2018: 4.6 µg/L
2/26/2019: 1.4 µg/L

MW-22 (16.5-21.5 FT)
5/10/2018: 180 µg/L
8/6/2018: 310 µg/L
10/30/2018: 180 J µg/L
2/25/2019: 190 µg/L

MW-68 (15-20 FT)
5/15/2018: 10 µg/L
8/9/2018: 13 µg/L
10/25/2018: 17 µg/L
2/27/2019: 31 µg/L

MW-41 (16-21 FT)
5/8/2018: 2.6 µg/L
8/10/2018: 2.5 µg/L
11/1/2018: 2.9 µg/L
3/2/2019: 3.1 µg/L

MW-3 (14-19 FT)
5/10/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

LMW-15-05

LMW-15-03

MW-10 (16.5-21.5 FT)
5/10/2018: ND (< 100 µg/L)
8/9/2018: ND (< 140 µg/L)
11/7/2018: ND (< 250 µg/L)
3/1/2019: ND (< 100 µg/L)

SSDS Location

MW-21 (13.5-18.5 FT)
5/15/2018: 18,000 µg/L
8/14/2018: 26,000 µg/L
10/26/2018: 40,000 µg/L
2/26/2019: 25,000 µg/L

MW-49 (12.5-17.5 FT)
5/11/2018: 17,000 µg/L
8/14/2018: 15,000 µg/L
10/30/2018: 22,000 µg/L
2/27/2019: 37,000 µg/L

MW-70 (15-20 FT)
5/14/2018: 260 µg/L
8/9/2018: 200 µg/L
11/2/2018: 250 µg/L
2/26/2019: 290 µg/L

ESD-3

VAULT V-ESD-4

MW-5 (15.5-20.5 FT)
5/10/2018: 0.58 J µg/L
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: 0.39 J µg/L
3/1/2019: ND (< 1.0 µg/L)

LEVAN RD

LMW-15-04

MW-45 (15-20 FT)
5/8/2018: 1,200 µg/L
8/9/2018: 1,000 µg/L
11/2/2018: 640 µg/L
2/26/2019: 340 µg/L

TW-16-02 (12-17 FT)
5/11/2018: 4,400 µg/L
8/6/2018: 4,100 µg/L
10/30/2018: 6,900 µg/L
2/26/2019: 7,700 µg/L

MW-69 (15-20 FT)
5/10/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
11/6/2018: ND (< 1.0 µg/L)
2/28/2019: 0.19 J µg/L

MW-30 (19-24 FT)
5/8/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

MW-25 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-2 (15.5-20.5 FT)
5/10/2018: 1,700 J µg/L
8/10/2018: 2,300 µg/L
10/26/2018: 1,900 µg/L
3/1/2019: 2,600 µg/L

MW-4 (15.5-20.5 FT)
5/10/2018: 21,000 J µg/L
8/7/2018: 22,000 µg/L
10/26/2018: 24,000 µg/L
3/1/2019: 21,000 µg/L

MW-18 (13-18 FT)
5/8/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-23 (15-20 FT)
5/7/2018: 2,400 µg/L
8/6/2018: 43,000 µg/L
10/30/2018: 66,000 µg/L
CNA Q1 2019

HCS Location

PW-16-01 (9.7-19.7 FT)
5/15/2018: 7.1 J µg/L
8/6/2018: 180 µg/L
10/30/2018: 250 µg/L
2/26/2019: 0.51 J µg/L

MW-71 (15-20 FT)
5/8/2018: 0.40 J µg/L
8/9/2018: 0.34 J µg/L
11/6/2018: 0.36 J µg/L
2/27/2019: 0.30 J µg/L

MW-40 (20-25 FT)
5/8/2018: 2.3 J µg/L
8/10/2018: 2.4 µg/L
11/1/2018: 2.6 µg/L
CNA Q1 2019

MW-31 (17-22 FT)
5/8/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

ESD-4

LMW-15-01

MW-1 (14-19 FT)
5/11/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-7 (18-23 FT)
5/11/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-9 (19.5-24.5 FT)
5/11/2018: ND (< 1.0 µg/L)
8/14/2018: 0.29 J µg/L
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-14 (15-20 FT)
5/11/2018: ND (< 1.0 µg/L)
8/14/2018: 0.31 J µg/L
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-20 (13.5-18.5 FT)
5/11/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

TW-16-01 (12-17 FT)
5/15/2018: 68 µg/L
8/6/2018: 140 µg/L
10/30/2018: 180 µg/L
2/26/2019: 150 µg/L

MW-32 (18-23 FT)
5/8/2018: 0.50 J µg/L
8/7/2018: 0.32 J µg/L
11/7/2018: 0.38 J µg/L
2/28/2019: 0.48 J µg/L

VAULT V-ESD-5

MW-15-60D (93-98 FT)
5/11/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)

MW-36 (20-25 FT)
5/14/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-24 (19-24 FT)
5/14/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-37 (18-23 FT)
5/10/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-38 (15-20 FT)
5/8/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-33 (14-19 FT)
5/8/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
11/2/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-39 (20-25 FT)
5/8/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

WESTERN DIVERSION CHAMBER

PLYMOUTH RD

EASTERN DIVERSION CHAMBER

LEGEND

- ON-SITE MONITORING WELL CIS-1,2-DICHLOROETHENE ≤ 70 µg/L
- ON-SITE MONITORING WELL CIS-1,2-DICHLOROETHENE > 70 µg/L
- BLUE/BOLD TEXT — EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA FROM PAST AND PRESENT SAMPLING EVENTS
- WELL NOT SAMPLED
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- FORD PROPERTY BOUNDARY

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (MAY 2018, AUGUST 2018, OCTOBER/NOVEMBER 2018 AND FEBRUARY/MARCH 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

> - GREATER THAN

THE NONRESIDENTIAL DRINKING WATER CRITERIA FOR CIS-1,2-DICHLOROETHENE IS 70 µg/L.

FT = FEET BELOW GROUND SURFACE

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR CIS-1,2-DICHLOROETHENE.

J = ESTIMATED RESULT

MW = MONITORING WELL

LMW = LIGHT NON-AQUEOUS PHASE LIQUIDMONITORING WELL

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

HDPE = HIGH-DENSITY POLYETHYLENE

SSDS = SUB-SLAB DEPRESSURIZATION SYSTEM

HCS = HYDRAULIC CONTROL SYSTEM

CNA = COULD NOT ACCESS

BLUE BOX INDICATES EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA ASSOCIATED WITH THE MOST RECENT SAMPLING EVENT POSSIBLE

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

ON-SITE MONITORING WELLS CIS-1,2-DICHLOROETHENE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE 4

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\FordLivonia\GIS\docs\GEC\1Q_2019\Figure 5_On-Site GWA cis.mxd PLOTTED: 4/29/2019 10:17:15 PM BY: mayyar7350

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

MW-15-59D (94-99 FT)
5/15/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)

MW-26 (4.5-14.5 FT)
5/15/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-28 (2-12 FT)
5/15/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-56 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-55 (15-20 FT)
5/10/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-54 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
CNA Q1 2019

MW-57 (17-22 FT)
5/9/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/25/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-53 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 J µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-27

LMW-15-07

MW-58 (15-20 FT)
5/14/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

TW-16-03 (9-19 FT)
5/11/2018: ND (< 2.5 µg/L)
8/8/2018: ND (< 2.0 µg/L)
10/30/2018: ND (< 6.7 µg/L)
2/25/2019: ND (< 1.7 µg/L)

VAULT ESD-1

MW-62 (16.3-21.3 FT)
5/9/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-52 (15-20 FT)
5/9/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

LMW-15-06

LMW-15-08

LMW-15-10

TW-16-04 (9-19 FT)
5/11/2018: ND (< 2.5 µg/L)
8/8/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 3.3 µg/L)
2/25/2019: ND (< 3.3 µg/L)

MW-50 (16-21 FT)
5/9/2018: ND (< 5.0 µg/L)
8/6/2018: 0.31 J µg/L
10/24/2018: ND (< 5.0 µg/L)
2/27/2019: ND (< 6.7 µg/L)

ESD-1

MW-43 (17-22 FT)
5/9/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

MW-29 (5-15 FT)
5/14/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

PW-16-02 (6-21 FT)
5/11/2018: ND (< 1.0 µg/L)
8/8/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 2.0 µg/L)
2/25/2019: ND (< 1.0 µg/L)

MW-63 (7-12 FT)
5/9/2018: ND (< 1.0 µg/L)
8/6/2018: 0.30 J µg/L
10/24/2018: 0.29 J µg/L
2/28/2019: ND (< 1.0 µg/L)

VAULT ESD-2

MW-35 (19.5-24.5 FT)
5/9/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: 0.19 J µg/L

LMW-15-09

MW-64 (15-20 FT)
5/10/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
11/5/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-42 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

MW-51 (15-20 FT)
5/14/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-65 (16-21 FT)
5/10/2018: ND (< 2.0 µg/L)
8/8/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.5 µg/L)

MW-48 (17-22 FT)
5/15/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/25/2018: ND (< 1.0 µg/L)
3/4/2019: ND (< 1.0 µg/L)

MW-15-61D (88-93 FT)
5/15/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

MW-44 (16-21 FT)
5/14/2018: ND (< 13 µg/L)
8/13/2018: ND (< 20 µg/L)
10/30/2018: ND (< 20 µg/L)
2/25/2019: ND (< 20 µg/L)

MW-66 (15-20 FT)
5/10/2018: ND (< 1.0 µg/L)
8/8/2018: ND (< 1.0 µg/L)
11/2/2018: ND (< 1.0 µg/L)
3/4/2019: ND (< 1.0 µg/L)

ESD-2

MW-34 (16.5-21.5 FT)
5/8/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

LMW-15-02

VAULT ESD-3

MW-67 (9-14 FT)
5/14/2018: 0.75 J µg/L
8/13/2018: 0.78 J µg/L
10/25/2018: 0.88 J µg/L
2/28/2019: 1.4 J µg/L

MW-3 (14-19 FT)
5/10/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-19 (15-20 FT)
5/14/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-22 (16.5-21.5 FT)
5/10/2018: ND (< 67 µg/L)
8/6/2018: ND (< 50 µg/L)
10/30/2018: ND (< 100 µg/L)
2/25/2019: ND (< 50 µg/L)

MW-47 (16-21 FT)
5/10/2018: 6.5 J µg/L
8/9/2018: 7.2 µg/L
10/25/2018: 7.1 µg/L
2/28/2019: 5.4 µg/L

MW-41 (16-21 FT)
5/8/2018: ND (< 1.0 µg/L)
8/10/2018: 0.34 J µg/L
11/1/2018: 0.35 J µg/L
3/2/2019: 0.42 J µg/L

LMW-15-05

LMW-15-03

MW-46 (16-21 FT)
5/14/2018: 0.86 J µg/L
8/9/2018: 1.2 µg/L
11/2/2018: 0.56 J µg/L
2/26/2019: 0.20 J µg/L

MW-68 (15-20 FT)
5/15/2018: 1.4 µg/L
8/9/2018: 1.7 µg/L
10/25/2018: 2.1 µg/L
2/27/2019: 3.6 µg/L

MW-5 (15.5-20.5 FT)
5/10/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-10 (16.5-21.5 FT)
5/10/2018: ND (< 100 µg/L)
8/9/2018: ND (< 140 µg/L)
11/7/2018: ND (< 250 µg/L)
3/1/2019: ND (< 100 µg/L)

MW-21 (13.5-18.5 FT)
5/15/2018: ND (< 1,000 µg/L)
8/14/2018: 190 J µg/L
10/26/2018: ND (< 1,700 µg/L)
2/26/2019: ND (< 2,500 µg/L)

SSDS Location

TW-16-02 (12-17 FT)
5/11/2018: ND (< 500 µg/L)
8/6/2018: 56 J µg/L
10/30/2018: ND (< 500 µg/L)
2/26/2019: 130 J µg/L

ESD-3

VAULT ESD-4

MW-30 (19-24 FT)
5/8/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

LEVAN RD

MW-4 (15.5-20.5 FT)
5/10/2018: 860 J µg/L
8/7/2018: 1,000 µg/L
10/26/2018: 1,100 µg/L
3/1/2019: 1,000 J µg/L

LMW-15-04

MW-49 (12.5-17.5 FT)
5/11/2018: ND (< 1,700 µg/L)
8/14/2018: 110 J µg/L
10/30/2018: ND (< 1,000 µg/L)
2/27/2019: ND (< 2,500 µg/L)

PW-16-01 (9.7-19.7 FT)
5/15/2018: ND (< 14 µg/L)
8/6/2018: ND (< 40 µg/L)
10/30/2018: 10 J µg/L
2/26/2019: ND (< 1.0 µg/L)

MW-70 (15-20 FT)
5/14/2018: 3.0 J µg/L
8/9/2018: 3.3 J µg/L
11/2/2018: 4.4 µg/L
2/26/2019: 3.8 J µg/L

MW-69 (15-20 FT)
5/10/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
11/6/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-25 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-2 (15.5-20.5 FT)
5/10/2018: 510 µg/L
8/10/2018: 510 µg/L
10/26/2018: 530 µg/L
3/1/2019: 760 µg/L

MW-18 (13-18 FT)
5/8/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-23 (15-20 FT)
5/7/2018: 180 µg/L
8/6/2018: 2,300 J µg/L
10/30/2018: 3,000 µg/L
CNA Q1 2019

TW-16-01 (12-17 FT)
5/15/2018: 11 J µg/L
8/6/2018: 7.5 J µg/L
10/30/2018: 14 J µg/L
2/26/2019: 22 J µg/L

ESD-4

MW-71 (15-20 FT)
5/8/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
11/6/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-31 (17-22 FT)
5/8/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

LMW-15-01

MW-1 (14-19 FT)
5/11/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-7 (18-23 FT)
5/11/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-9 (19.5-24.5 FT)
5/11/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-14 (15-20 FT)
5/11/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-20 (13.5-18.5 FT)
5/11/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

HCS Location
EASTERN DIVERSION CHAMBER

VAULT ESD-5

MW-45 (15-20 FT)
5/8/2018: ND (< 67 µg/L)
8/9/2018: ND (< 33 µg/L)
11/2/2018: 6.5 J µg/L
2/26/2019: ND (< 17 µg/L)

MW-40 (20-25 FT)
5/8/2018: 0.34 J µg/L
8/10/2018: 0.37 J µg/L
11/1/2018: 0.39 J µg/L
CNA Q1 2019

MW-15-60D (93-98 FT)
5/11/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)

MW-36 (20-25 FT)
5/14/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

WESTERN DIVERSION CHAMBER

MW-24 (19-24 FT)
5/14/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

PLYMOUTH RD

MW-37 (18-23 FT)
5/10/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-38 (15-20 FT)
5/8/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-33 (14-19 FT)
5/8/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
11/2/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-39 (20-25 FT)
5/8/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-32 (18-23 FT)
5/8/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
11/7/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

LEGEND

- ON-SITE MONITORING WELL TRANS-1,2-DICHLOROETHENE ≤ 100 µg/L
- ON-SITE MONITORING WELL TRANS-1,2-DICHLOROETHENE > 100 µg/L
- BLUE/BOLD TEXT — EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA FROM PAST AND PRESENT SAMPLING EVENTS
- WELL NOT SAMPLED
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- FORD PROPERTY BOUNDARY

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (MAY 2018, AUGUST 2018, OCTOBER/NOVEMBER 2018 AND FEBRUARY/MARCH 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

> - GREATER THAN

THE NONRESIDENTIAL DRINKING WATER CRITERIA FOR TRANS-1,2-DICHLOROETHENE IS 100 µg/L.

FT = FEET BELOW GROUND SURFACE

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR TRANS-1,2-DICHLOROETHENE.

J = ESTIMATED RESULT

MW = MONITORING WELL

LMW = LIGHT NON-AQUEOUS PHASE LIQUID MONITORING WELL

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HCS = HYDRAULIC CONTROL SYSTEM

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BLUE BOX INDICATES EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA ASSOCIATED WITH THE MOST RECENT SAMPLING EVENT POSSIBLE

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

ON-SITE MONITORING WELLS TRANS-1,2-DICHLOROETHENE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE 5

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\Ford\Livonia\GIS\docs\GEC\1Q_2019\Figure 6_On-Site GWA trans.mxd PLOTTED: 4/29/2019 10:24:31 PM BY: mayyar7350

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MW-15-59D (94-99 FT)
5/15/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/5/2019: 0.13 J µg/L

MW-28 (2-12 FT)
5/15/2018: 0.51 J µg/L
8/13/2018: 0.66 J µg/L
10/31/2018: 0.70 J µg/L
2/26/2019: 0.30 J µg/L

MW-56 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-55 (15-20 FT)
5/10/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-57 (17-22 FT)
5/9/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/25/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-54 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
CNA Q1 2019

MW-53 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 J µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-52 (15-20 FT)
5/9/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

MW-43 (17-22 FT)
5/9/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

MW-35 (19.5-24.5 FT)
5/9/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: 0.11 J µg/L

MW-42 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: 0.13 J µg/L

MW-15-61D (88-93 FT)
5/15/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

MW-34 (16.5-21.5 FT)
5/8/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

MW-41 (16-21 FT)
5/8/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

MW-30 (19-24 FT)
5/8/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

MW-31 (17-22 FT)
5/8/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

MW-40 (20-25 FT)
5/8/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
CNA Q1 2019

MW-32 (18-23 FT)
5/8/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
11/7/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-39 (20-25 FT)
5/8/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-26 (4.5-14.5 FT)
5/15/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-27

LMW-15-07

TW-16-03 (9-14 FT)
5/11/2018: ND (< 2.5 µg/L)
8/8/2018: ND (< 2.0 µg/L)
10/30/2018: ND (< 6.7 µg/L)
2/25/2019: ND (< 1.7 µg/L)

TW-16-04 (9-19 FT)
5/11/2018: ND (< 2.5 µg/L)
8/8/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 3.3 µg/L)
2/25/2019: ND (< 3.3 µg/L)

MW-58 (15-20 FT)
5/14/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

VAULT ESD-1

MW-62 (16.3-21.3 FT)
5/9/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-50 (16-21 FT)
5/9/2018: ND (< 5.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 5.0 µg/L)
2/27/2019: ND (< 6.7 µg/L)

ESD-1

MW-63 (7-12 FT)
5/9/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

LMW-15-06

LMW-15-08

LMW-15-10

MW-29 (5-15 FT)
5/14/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

PW-16-02 (6-21 FT)
5/11/2018: ND (< 1.0 µg/L)
8/8/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 2.0 µg/L)
2/25/2019: ND (< 1.0 µg/L)

MW-65 (16-21 FT)
5/10/2018: ND (< 2.0 µg/L)
8/8/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.5 µg/L)

VAULT ESD-2

MW-48 (17-22 FT)
5/15/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/25/2018: ND (< 1.0 µg/L)
3/4/2019: ND (< 1.0 µg/L)

LMW-15-09

MW-66 (15-20 FT)
5/10/2018: ND (< 1.0 µg/L)
8/8/2018: ND (< 1.0 µg/L)
11/2/2018: ND (< 1.0 µg/L)
3/4/2019: ND (< 1.0 µg/L)

MW-51 (15-20 FT)
5/14/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

ESD-2

MW-64 (15-20 FT)
5/10/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
11/5/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-68 (15-20 FT)
5/15/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/25/2018: ND (< 1.0 µg/L)
2/27/2019: 0.20 J µg/L

MW-44 (16-21 FT)
5/14/2018: ND (< 13 µg/L)
8/13/2018: ND (< 20 µg/L)
10/30/2018: ND (< 20 µg/L)
2/25/2019: ND (< 20 µg/L)

LMW-15-02

VAULT ESD-3

MW-67 (9-14 FT)
5/14/2018: 57 µg/L
8/13/2018: 60 µg/L
10/25/2018: 69 µg/L
2/28/2019: 41 µg/L

MW-3 (14-19 FT)
5/10/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-19 (15-20 FT)
5/14/2018: 0.91 J µg/L
8/10/2018: 1.0 µg/L
10/26/2018: 0.97 J µg/L
2/28/2019: 0.66 J µg/L

MW-22 (16.5-21.5 FT)
5/10/2018: ND (< 67 µg/L)
8/6/2018: ND (< 50 µg/L)
10/30/2018: ND (< 100 µg/L)
2/25/2019: ND (< 50 µg/L)

MW-47 (16-21 FT)
5/10/2018: ND (< 5.0 J µg/L)
8/9/2018: ND (< 1.7 µg/L)
10/25/2018: ND (< 5.0 µg/L)
2/28/2019: ND (< 2.5 µg/L)

MW-69 (15-20 FT)
5/10/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
11/6/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

LMW-15-05

LMW-15-03

SSDS Location

MW-10 (16.5-21.5 FT)
5/10/2018: ND (< 100 µg/L)
8/9/2018: ND (< 140 µg/L)
11/7/2018: ND (< 250 µg/L)
3/1/2019: 14 J µg/L

MW-5 (15.5-20.5 FT)
5/10/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: 0.18 J µg/L
3/1/2019: ND (< 1.0 µg/L)

MW-70 (15-20 FT)
5/14/2018: ND (< 3.3 µg/L)
8/9/2018: ND (< 13 µg/L)
11/2/2018: ND (< 4.0 µg/L)
2/26/2019: ND (< 10 µg/L)

ESD-3

MW-46 (16-21 FT)
5/14/2018: ND (< 1.7 µg/L)
8/9/2018: ND (< 1.0 µg/L)
11/2/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

LEVAN RD

LMW-15-04

MW-4 (15.5-20.5 FT)
5/10/2018:23,000 J µg/L
8/7/2018: 31,000 µg/L
10/26/2018: 35,000 µg/L
3/1/2019: 41,000 µg/L

MW-21 (13.5-18.5 FT)
5/15/2018: ND (< 1,000 µg/L)
8/14/2018: ND (< 1,000 µg/L)
10/26/2018: 1,900 µg/L
2/26/2019: 570 J µg/L

TW-16-02 (12-17 FT)
5/11/2018: ND (< 500 µg/L)
8/6/2018: ND (< 250 µg/L)
10/30/2018: ND (< 500 µg/L)
2/26/2019: ND (< 330 µg/L)

PW-16-01 (9.7-19.7 FT)
5/15/2018: ND (< 14 µg/L)
8/6/2018: ND (< 40 µg/L)
10/30/2018: ND (< 40 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-2 (15.5-20.5 FT)
5/10/2018: ND (< 25 µg/L)
8/10/2018: ND (< 140 µg/L)
10/26/2018: 8.2 J µg/L
3/1/2019: ND (< 100 µg/L)

MW-49 (12.5-17.5 FT)
5/11/2018: ND (< 1,700 µg/L)
8/14/2018: ND (< 500 µg/L)
10/30/2018: ND (< 1,000 µg/L)
2/27/2019: ND (< 2,500 µg/L)

TW-16-01 (12-17 FT)
5/15/2018: ND (< 33 µg/L)
8/6/2018: ND (< 25 µg/L)
10/30/2018: ND (< 25 µg/L)
2/26/2019: 15 J µg/L

ESD-4

MW-71 (15-20 FT)
5/8/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
11/6/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-25 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-1 (14-19 FT)
5/11/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-7 (18-23 FT)
5/11/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-9 (19.5-24.5 FT)
5/11/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

LMW-15-01

MW-24 (19-24 FT)
5/14/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-20 (13.5-18.5 FT)
5/11/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

HCS Location

MW-23 (15-20 FT)
5/7/2018: 1,000 µg/L
8/6/2018: 12,000 µg/L
10/30/2018: 18,000 µg/L
CNA Q1 2019

EASTERN DIVERSION CHAMBER

MW-45 (15-20 FT)
5/8/2018: ND (< 67 µg/L)
8/9/2018: ND (< 33 µg/L)
11/2/2018: 2.7 J µg/L
2/26/2019: ND (< 17 µg/L)

VAULT ESD-5

MW-15-60D (93-98 FT)
5/11/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)

MW-36 (20-25 FT)
5/14/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

WESTERN DIVERSION CHAMBER

PLYMOUTH RD

MW-14 (15-20 FT)
5/11/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-18 (13-18 FT)
5/8/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-37 (18-23 FT)
5/10/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-38 (15-20 FT)
5/8/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-33 (14-19 FT)
5/8/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
11/2/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

LEGEND

- ON-SITE MONITORING WELL TRICHLOROETHENE ≤ 5.0 µg/L
- ON-SITE MONITORING WELL TRICHLOROETHENE > 5.0 µg/L
- BLUE/BOLD TEXT — EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA FROM PAST AND PRESENT SAMPLING EVENTS
- WELL NOT SAMPLED
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- FORD PROPERTY BOUNDARY

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (MAY 2018, AUGUST 2018, OCTOBER/NOVEMBER 2018 AND FEBRUARY/MARCH 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

> - GREATER THAN

THE NONRESIDENTIAL DRINKING WATER CRITERIA FOR TRICHLOROETHENE IS 5.0 µg/L.

FT = FEET BELOW GROUND SURFACE

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR TRICHLOROETHENE.

J = ESTIMATED RESULT

MW = MONITORING WELL

LMW = LIGHT NON-AQUEOUS PHASE LIQUID MONITORING WELL

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

HDPE = HIGH-DENSITY POLYETHYLENE

SSDS = SUB-SLAB DEPRESSURIZATION SYSTEM

HCS = HYDRAULIC CONTROL SYSTEM

CNA = COULD NOT ACCESS

BLUE BOX INDICATES EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA ASSOCIATED WITH THE MOST RECENT SAMPLING EVENT POSSIBLE

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

ON-SITE MONITORING WELLS TRICHLOROETHENE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE
6

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\FordLivoniaGIS\docs\GEC\1Q_2019\Figure 7_On-Site GWA TCE.mxd PLOTTED: 4/29/2019 10:38:01 PM BY: mayyar7350

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

MW-15-59D (94-99 FT)
5/15/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)

MW-26 (4.5-14.5 FT)
5/15/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-28 (2-12 FT)
5/15/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 2.0 µg/L)
2/26/2019: 0.33 J µg/L

MW-56 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: 0.31 J µg/L
2/27/2019: 0.38 J µg/L

MW-55 (15-20 FT)
5/10/2018: 0.48 J µg/L
8/13/2018: 0.39 J µg/L
10/31/2018: 0.57 J µg/L
2/27/2019: 0.54 J µg/L

MW-54 (16-21 FT)
5/9/2018: 0.98 J µg/L
8/13/2018: 0.34 J µg/L
10/31/2018: 0.85 J µg/L
CNA Q1 2019

MW-53 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/13/2018: 0.45 J µg/L
10/31/2018: 0.60 J µg/L
2/28/2019: ND (< 1.0 µg/L)

MW-27

LMW-15-07

MW-58 (15-20 FT)
5/14/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

TW-16-03 (9-19 FT)
5/11/2018: 78 µg/L
8/8/2018: 76 µg/L
10/30/2018: 97 µg/L
2/25/2019: 48 µg/L

VAULT V-ESD-1

MW-57 (17-22 FT)
5/9/2018: 0.56 J µg/L
8/6/2018: 0.39 J µg/L
10/25/2018: 0.64 J µg/L
2/28/2019: 0.88 J µg/L

MW-52 (15-20 FT)
5/9/2018: 4.3 µg/L
8/10/2018: 4.5 µg/L
10/31/2018: 5 µg/L
3/2/2019: 3.9 µg/L

MW-50 (16-21 FT)
5/9/2018: 150 µg/L
8/6/2018: 97 µg/L
10/24/2018: 99 µg/L
2/27/2019: 170 µg/L

LMW-15-06

LMW-15-08

LMW-15-10

TW-16-04 (9-19 FT)
5/11/2018: 65 µg/L
8/8/2018: 63 µg/L
10/30/2018: 90 µg/L
2/25/2019: 65 µg/L

ESD-1

MW-62 (16.3-21.3 FT)
5/9/2018: 1.2 µg/L
8/6/2018: 0.66 J µg/L
10/24/2018: 1.0 µg/L
2/27/2019: 0.73 J µg/L

MW-43 (17-22 FT)
5/9/2018: 6.4 J µg/L
8/10/2018: 1.0 µg/L
11/1/2018: 0.71 J µg/L
3/2/2019: 3.4 µg/L

MW-29 (5-15 FT)
5/14/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: 0.20 J µg/L
2/28/2019: ND (< 1.0 µg/L)

PW-16-02 (6-21 FT)
5/11/2018: ND (< 1.0 µg/L)
8/8/2018: 71 µg/L
10/30/2018: 62 µg/L
2/25/2019: 0.94 J µg/L

MW-63 (7-12 FT)
5/9/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

VAULT V-ESD-2

MW-64 (15-20 FT)
5/10/2018: 1.3 µg/L
8/13/2018: 5.9 µg/L
11/5/2018: 3.0 µg/L
2/28/2019: 3.4 µg/L

MW-35 (19.5-24.5 FT)
5/9/2018: 7.2 µg/L
8/10/2018: 3.0 µg/L
11/1/2018: 1.8 µg/L
3/2/2019: 4.1 µg/L

LMW-15-09

MW-65 (16-21 FT)
5/10/2018: 41 µg/L
8/8/2018: 35 µg/L
10/30/2018: 48 µg/L
2/28/2019: 34 µg/L

MW-51 (15-20 FT)
5/14/2018: 0.70 J µg/L
8/6/2018: 0.40 J µg/L
10/30/2018: 0.39 J µg/L
3/1/2019: 0.29 J µg/L

MW-48 (17-22 FT)
5/15/2018: 7.4 µg/L
8/6/2018: 5.3 µg/L
10/25/2018: 6.6 µg/L
3/4/2019: 0.24 J µg/L

MW-42 (16-21 FT)
5/9/2018: 0.99 J µg/L
8/10/2018: 0.60 J µg/L
11/1/2018: 0.60 J µg/L
3/2/2019: 0.70 J µg/L

ESD-2

MW-67 (9-14 FT)
5/14/2018: 1.3 µg/L
8/13/2018: ND (< 2.5 µg/L)
10/25/2018: ND (< 3.3 µg/L)
2/28/2019: 1.7 J µg/L

MW-15-61D (88-93 FT)
5/15/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

MW-66 (15-20 FT)
5/10/2018: 2.4 µg/L
8/8/2018: 3.2 µg/L
11/2/2018: 1.2 µg/L
3/4/2019: 3.2 µg/L

MW-44 (16-21 FT)
5/14/2018: 270 µg/L
8/13/2018: 240 µg/L
10/30/2018: 240 µg/L
2/25/2019: 180 µg/L

MW-47 (16-21 FT)
5/10/2018: 88 J µg/L
8/9/2018: 59 µg/L
10/25/2018: 100 µg/L
2/28/2019: 44 µg/L

MW-34 (16.5-21.5 FT)
5/8/2018: 0.87 J µg/L
8/10/2018: 1.1 µg/L
11/1/2018: 1.2 µg/L
3/2/2019: 0.85 J µg/L

LMW-15-02

VAULT V-ESD-3

MW-19 (15-20 FT)
5/14/2018: 1.3 µg/L
8/10/2018: ND (< 1.0 µg/L)
10/26/2018: 1.6 µg/L
2/28/2019: 1.9 µg/L

MW-46 (16-21 FT)
5/14/2018: 30 µg/L
8/9/2018: 66 µg/L
11/2/2018: 32 µg/L
2/26/2019: 17 µg/L

MW-68 (15-20 FT)
5/15/2018: 2.1 µg/L
8/9/2018: 2.2 µg/L
10/25/2018: 2.1 µg/L
2/27/2019: 17 µg/L

MW-41 (16-21 FT)
5/8/2018: 5.3 µg/L
8/10/2018: 3.0 µg/L
11/1/2018: 2.0 µg/L
3/2/2019: 3.2 µg/L

MW-3 (14-19 FT)
5/10/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

LMW-15-05

LEVAN RD

MW-5 (15.5-20.5 FT)
5/10/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-14 (15-20 FT)
5/11/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

SSDS Location

LMW-15-03

MW-22 (16.5-21.5 FT)
5/10/2018: 2,400 µg/L
8/6/2018: 1,300 µg/L
10/30/2018: 2,600 J µg/L
2/25/2019: 1,700 µg/L

MW-70 (15-20 FT)
5/14/2018: 210 µg/L
8/9/2018: 190 µg/L
11/2/2018: 210 µg/L
2/26/2019: 350 µg/L

ESD-3

VAULT V-ESD-4

MW-30 (19-24 FT)
5/8/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

MW-2 (15.5-20.5 FT)
5/10/2018: 190 µg/L
8/10/2018: 170 µg/L
10/26/2018: 190 µg/L
3/1/2019: 230 µg/L

MW-4 (15.5-20.5 FT)
5/10/2018: 610 J µg/L
8/7/2018: ND (< 1,000 µg/L)
10/26/2018: 610 µg/L
3/1/2019: 1,100 J µg/L

LMW-15-04

MW-10 (16.5-21.5 FT)
5/10/2018: 3,100 µg/L
8/9/2018: 2,300 µg/L
11/7/2018: 3,100 µg/L
3/1/2019: 3,300 µg/L

MW-21 (13.5-18.5 FT)
5/15/2018: 3,700 µg/L
8/14/2018: 3,400 µg/L
10/26/2018: 7,800 µg/L
2/26/2019: 5,600 µg/L

PW-16-01 (9.7-19.7 FT)
5/15/2018: 37 J µg/L
8/6/2018: 870 µg/L
10/30/2018: 1,400 µg/L
2/26/2019: 0.92 J µg/L

MW-45 (15-20 FT)
5/8/2018: 1,400 µg/L
8/9/2018: 800 µg/L
11/2/2018: 420 µg/L
2/26/2019: 380 µg/L

MW-69 (15-20 FT)
5/10/2018: 3.3 µg/L
8/13/2018: 2.7 µg/L
11/6/2018: 1.4 µg/L
2/28/2019: 4.1 µg/L

MW-31 (17-22 FT)
5/8/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)

MW-25 (16-21 FT)
5/9/2018: ND (< 1.0 µg/L)
8/13/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-49 (12.5-17.5 FT)
5/11/2018: 8,100 µg/L
8/14/2018: 4,900 µg/L
10/30/2018: 8,400 µg/L
2/27/2019: 9,100 µg/L

TW-16-02 (12-17 FT)
5/11/2018: 8,500 µg/L
8/6/2018: 7,300 µg/L
10/30/2018: 12,000 µg/L
2/26/2019: 8,900 µg/L

MW-71 (15-20 FT)
5/8/2018: 0.59 J µg/L
8/9/2018: ND (< 1.0 µg/L)
11/6/2018: 0.31 J µg/L
2/27/2019: 0.40 J µg/L

MW-40 (20-25 FT)
5/8/2018: 1.3 J µg/L
8/10/2018: 0.54 J µg/L
11/1/2018: 1.4 µg/L
CNA Q1 2019

MW-7 (18-23 FT)
5/11/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-1 (14-19 FT)
5/11/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

LMW-15-01

MW-9 (19.5-24.5 FT)
5/11/2018: 2.2 µg/L
8/14/2018: 1.7 µg/L
10/29/2018: 1.5 µg/L
3/1/2019: 0.94 J µg/L

MW-18 (13-18 FT)
5/8/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

HCS Location

MW-23 (15-20 FT)
5/7/2018: 77 J µg/L
8/6/2018: ND (< 2,500 µg/L)
10/30/2018: 1,600 J µg/L
CNA Q1 2019

EASTERN DIVERSION CHAMBER

TW-16-01 (12-17 FT)
5/15/2018: 720 µg/L
8/6/2018: 680 µg/L
10/30/2018: 830 µg/L
2/26/2019: 750 µg/L

MW-32 (18-23 FT)
5/8/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
11/7/2018: 0.38 J µg/L
2/28/2019: 0.39 J µg/L

VAULT V-ESD-5

MW-15-60D (93-98 FT)
5/11/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/5/2019: 0.31 J µg/L

MW-36 (20-25 FT)
5/14/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

WESTERN DIVERSION CHAMBER

PLYMOUTH RD

MW-24 (19-24 FT)
5/14/2018: ND (< 1.0 µg/L)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-20 (13.5-18.5 FT)
5/11/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-37 (18-23 FT)
5/10/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-38 (15-20 FT)
5/8/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-33 (14-19 FT)
5/8/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
11/2/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-39 (20-25 FT)
5/8/2018: ND (< 1.0 µg/L)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

LEGEND

- ON-SITE MONITORING WELL VINYL CHLORIDE ≤ 2.0 µg/L
- ON-SITE MONITORING WELL VINYL CHLORIDE > 2.0 µg/L
- **BLUE/BOLD TEXT** — EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA FROM PAST AND PRESENT SAMPLING EVENTS
- WELL NOT SAMPLED
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- FORD PROPERTY BOUNDARY

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (MAY 2018, AUGUST 2018, OCTOBER/NOVEMBER 2018 AND FEBRUARY/MARCH 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

> - GREATER THAN

THE NONRESIDENTIAL DRINKING WATER CRITERIA FOR VINYL CHLORIDE IS 2.0 µg/L.

FT = FEET BELOW GROUND SURFACE

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR VINYL CHLORIDE.

J = ESTIMATED RESULT

MW = MONITORING WELL
LMW = LIGHT NON-AQUEOUS PHASE LIQUID MONITORING WELL

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

HDPE = HIGH-DENSITY POLYETHYLENE

SSDS = SUB-SLAB DEPRESSURIZATION SYSTEM

HCS = HYDRAULIC CONTROL SYSTEM

CNA = COULD NOT ACCESS

BLUE BOX INDICATES EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA ASSOCIATED WITH THE MOST RECENT SAMPLING EVENT POSSIBLE

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

ON-SITE MONITORING WELLS VINYL CHLORIDE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE 7

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\Ford\LivoniaGIS\docs\GEC\1Q_2019\Figure 8_On-Site GWA VC.mxd PLOTTED: 4/30/2019 4:34:09 AM BY: mayyar7350

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

MW-15-59D (94-99 FT)
5/15/2018: ND (< 2.0 µg/L)
8/9/2018: ND (< 2.0 µg/L)
10/31/2018: ND (< 2.0 µg/L)
3/5/2019: ND (< 2.0 µg/L)

MW-26 (4.5-14.5 FT)
5/15/2018: ND (< 2.0 µg/L)
8/9/2018: ND (< 2.0 µg/L)
10/26/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)

MW-27

MW-28 (2-12 FT)
5/15/2018: ND (< 2.0 µg/L)
8/13/2018: ND (< 2.0 µg/L)
10/31/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 2.0 µg/L)

MW-56 (16-21 FT)
5/9/2018: 2.7 µg/L
8/13/2018: 2.3 µg/L
10/31/2018: 2.7 µg/L
2/27/2019: 2.9 µg/L

MW-55 (15-20 FT)
5/10/2018: 1.2 J µg/L
8/13/2018: 1.1 J µg/L
10/31/2018: 1.6 J µg/L
2/27/2019: ND (< 2.0 µg/L)

MW-54 (16-21 FT)
5/9/2018: 1.7 J µg/L
8/13/2018: 1.4 J µg/L
10/31/2018: 2.6 µg/L
CNA Q1 2019

MW-57 (17-22 FT)
5/9/2018: 3.9 µg/L
8/6/2018: 4.5 µg/L
10/25/2018: 4.6 µg/L
2/28/2019: 3.1 µg/L

MW-53 (16-21 FT)
5/9/2018: 1.4 J µg/L
8/13/2018: 1.6 J µg/L
10/31/2018: 1.8 J µg/L
2/28/2019: 1.7 J µg/L

MW-52 (15-20 FT)
5/9/2018: 0.30 J µg/L
8/10/2018: 1.8 J µg/L
10/31/2018: 2.7 µg/L
3/2/2019: 1.9 J µg/L

MW-58 (15-20 FT)
5/14/2018: 3.6 µg/L
8/13/2018: 2.2 µg/L
10/31/2018: 3.9 µg/L
3/1/2019: 6.2 µg/L

VAULT V-ESD-1

MW-62 (16.3-21.3 FT)
5/9/2018: 1.5 J µg/L
8/6/2018: 3.1 µg/L
10/24/2018: 2.3 µg/L
2/27/2019: 2.4 µg/L

MW-43 (17-22 FT)
5/9/2018: 2.8 µg/L
8/10/2018: 3.3 µg/L
11/1/2018: 4.0 µg/L
3/2/2019: 3.3 µg/L

TW-16-03 (9-19 FT)
5/11/2018: ND (< 2.0 µg/L)
8/8/2018: 1.0 J µg/L
10/30/2018: 1.1 J µg/L
2/25/2019: ND (< 2.0 µg/L)

PW-16-02 (6-21 FT)
5/11/2018: ND (< 2.0 µg/L)
8/8/2018: 1.5 J µg/L
10/30/2018: 1.4 J µg/L
2/25/2019: ND (< 2.0 µg/L)

MW-50 (16-21 FT)
5/9/2018: 2.8 µg/L
8/6/2018: 1.7 J µg/L
10/24/2018: 2.8 µg/L
2/27/2019: 3.6 µg/L

MW-35 (19.5-24.5 FT)
5/9/2018: 4.7 µg/L
8/10/2018: 4.3 µg/L
11/1/2018: 4.5 µg/L
3/2/2019: 5.8 µg/L

TW-16-04 (9-19 FT)
5/11/2018: ND (< 2.0 µg/L)
8/8/2018: 1.2 J µg/L
10/30/2018: 1.5 J µg/L
2/25/2019: 1.2 J µg/L

MW-63 (7-12 FT)
5/9/2018: ND (< 2.0 µg/L)
8/6/2018: ND (< 2.0 µg/L)
10/24/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)

VAULT V-ESD-2

MW-64 (15-20 FT)
5/10/2018: ND (< 2.0 µg/L)
8/13/2018: ND (< 2.0 µg/L)
11/5/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)

MW-42 (16-21 FT)
5/9/2018: 2.2 µg/L
8/10/2018: 2.3 µg/L
11/1/2018: 2.6 µg/L
3/2/2019: 3.1 µg/L

MW-29 (5-15 FT)
5/14/2018: 0.47 J µg/L
8/9/2018: ND (< 2.0 µg/L)
10/26/2018: 4.3 µg/L
2/28/2019: ND (< 2.0 µg/L)

MW-65 (16-21 FT)
5/10/2018: 2.1 µg/L
8/8/2018: 1.8 J µg/L
10/30/2018: 2.9 µg/L
2/28/2019: 2.6 µg/L

MW-51 (15-20 FT)
5/14/2018: 0.49 J µg/L
8/6/2018: 1.6 J µg/L
10/30/2018: 2.5 µg/L
3/1/2019: 1.5 J µg/L

MW-66 (15-20 FT)
5/10/2018: ND (< 2.0 µg/L)
8/8/2018: ND (< 2.0 µg/L)
11/2/2018: 1.1 J µg/L
3/4/2019: 1.2 J µg/L

MW-15-61D (88-93 FT)
5/15/2018: ND (< 2.0 µg/L)
8/7/2018: ND (< 2.0 µg/L)
11/1/2018: ND (< 2.0 µg/L)
3/2/2019: ND (< 2.0 µg/L)

MW-48 (17-22 FT)
5/15/2018: 12 µg/L
8/6/2018: 6.2 µg/L
10/25/2018: 6.5 µg/L
3/4/2019: 1.6 J µg/L

MW-34 (16.5-21.5 FT)
5/8/2018: 4.9 µg/L
8/10/2018: 7.6 µg/L
11/1/2018: 6.7 µg/L
3/2/2019: 6.9 µg/L

MW-44 (16-21 FT)
5/14/2018: 11 µg/L
8/13/2018: 9.5 µg/L
10/30/2018: 2.7 µg/L
2/25/2019: 5.7 µg/L

MW-47 (16-21 FT)
5/10/2018: ND (< 2.0 µg/L)
8/9/2018: ND (< 2.0 µg/L)
10/25/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)

VAULT V-ESD-3

MW-67 (9-14 FT)
5/14/2018: ND (< 2.0 µg/L)
8/13/2018: ND (< 2.0 µg/L)
10/25/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)

MW-41 (16-21 FT)
5/8/2018: 0.75 J µg/L
8/10/2018: 1.6 J µg/L
11/1/2018: 1.9 J µg/L
3/2/2019: 1.4 J µg/L

MW-46 (16-21 FT)
5/14/2018: 13 µg/L
8/9/2018: 8.5 µg/L
11/2/2018: 7.0 µg/L
2/26/2019: 3.0 µg/L

MW-68 (15-20 FT)
5/15/2018: ND (< 2.0 µg/L)
8/9/2018: ND (< 2.0 µg/L)
10/25/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)

MW-30 (19-24 FT)
5/8/2018: 14 µg/L
8/10/2018: 15 µg/L
11/1/2018: 15 µg/L
3/2/2019: 15 µg/L

MW-19 (15-20 FT)
5/14/2018: 140 µg/L
8/10/2018: 130 µg/L
10/26/2018: 150 µg/L
2/28/2019: 170 µg/L

MW-22 (16.5-21.5 FT)
5/10/2018: 34 µg/L
8/6/2018: 19 µg/L
10/30/2018: 37 µg/L
2/25/2019: 23 µg/L

MW-70 (15-20 FT)
5/14/2018: 3.0 µg/L
8/9/2018: 1.6 J µg/L
11/2/2018: 2.2 µg/L
2/26/2019: 6.5 µg/L

MW-3 (14-19 FT)
5/10/2018: 0.50 J µg/L
8/7/2018: 1.4 J µg/L
10/26/2018: 1.3 J µg/L
3/1/2019: 1.0 J µg/L

MW-21 (13.5-18.5 FT)
5/15/2018: 5.3 µg/L
8/14/2018: 6.5 µg/L
10/26/2018: 14 µg/L
2/26/2019: 18 µg/L

MW-14 (15-20 FT)
5/11/2018: ND (< 2.0 µg/L)
8/14/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 2.0 µg/L)

PW-16-01 (9.7-19.7 FT)
5/15/2018: ND (< 2.0 µg/L)
8/6/2018: ND (< 2.0 µg/L)
10/30/2018: 1.3 J µg/L
2/26/2019: ND (< 2.0 µg/L)

MW-69 (15-20 FT)
5/10/2018: 7.3 µg/L
8/13/2018: 7.1 µg/L
11/6/2018: 12 µg/L
2/28/2019: 5.0 µg/L

MW-71 (15-20 FT)
5/8/2018: 0.38 J µg/L
8/9/2018: 0.95 J µg/L
11/6/2018: 1.1 J µg/L
2/27/2019: ND (< 2.0 µg/L)

MW-5 (15.5-20.5 FT)
5/10/2018: ND (< 2.0 µg/L)
8/7/2018: ND (< 2.0 µg/L)
10/26/2018: ND (< 2.0 µg/L)
3/1/2019: ND (< 2.0 µg/L)

MW-49 (12.5-17.5 FT)
5/11/2018: 5.5 µg/L
8/14/2018: 5.0 µg/L
10/30/2018: 5.4 µg/L
2/27/2019: 8.1 µg/L

MW-10 (16.5-21.5 FT)
5/10/2018: 4.4 µg/L
8/9/2018: 4.8 µg/L
11/7/2018: 5.5 µg/L
3/1/2019: 4.5 µg/L

MW-25 (16-21 FT)
5/9/2018: 0.99 J µg/L
8/13/2018: 1.9 J µg/L
10/29/2018: 3.2 µg/L
2/27/2019: 4.5 µg/L

MW-2 (15.5-20.5 FT)
5/10/2018: 5.7 µg/L
8/10/2018: 5.1 µg/L
10/26/2018: 4.9 µg/L
3/1/2019: 3.9 µg/L

MW-23 (15-20 FT)
5/7/2018: ND (< 2.0 µg/L)
8/6/2018: ND (< 200 µg/L)
10/30/2018: ND (< 200 µg/L)
CNA Q1 2019

TW-16-02 (12-17 FT)
5/11/2018: 5.0 µg/L
8/6/2018: 2.7 µg/L
10/30/2018: 5.3 µg/L
2/26/2019: 4.6 µg/L

MW-45 (15-20 FT)
5/8/2018: 0.40 J µg/L
8/9/2018: 1.0 J µg/L
11/2/2018: 1.1 J µg/L
2/26/2019: ND (< 2.0 µg/L)

MW-4 (15.5-20.5 FT)
5/10/2018: 0.76 J µg/L
8/7/2018: ND (< 200 µg/L)
10/26/2018: ND (< 200 µg/L)
3/1/2019: ND (< 200 µg/L)

MW-7 (18-23 FT)
5/11/2018: ND (< 2.0 µg/L)
8/14/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)

MW-9 (19.5-24.5 FT)
5/11/2018: 3.6 µg/L
8/14/2018: 4.3 µg/L
10/29/2018: 3.9 µg/L
3/1/2019: 3.8 µg/L

MW-20 (13.5-18.5 FT)
5/11/2018: ND (< 2.0 µg/L)
8/9/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 2.0 µg/L)

TW-16-01 (12-17 FT)
5/15/2018: ND (< 2.0 µg/L)
8/6/2018: ND (< 2.0 µg/L)
10/30/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 2.0 µg/L)

MW-15-60D (93-98 FT)
5/11/2018: ND (< 2.0 µg/L)
8/7/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
3/5/2019: ND (< 2.0 µg/L)

MW-40 (20-25 FT)
5/8/2018: ND (< 2.0 µg/L)
8/10/2018: ND (< 2.0 µg/L)
11/1/2018: ND (< 2.0 µg/L)
CNA Q1 2019

MW-32 (18-23 FT)
5/8/2018: ND (< 2.0 µg/L)
8/7/2018: ND (< 2.0 µg/L)
11/7/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)

MW-1 (14-19 FT)
5/11/2018: ND (< 2.0 µg/L)
8/14/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
3/1/2019: ND (< 2.0 µg/L)

MW-36 (20-25 FT)
5/14/2018: ND (< 2.0 µg/L)
8/14/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
3/1/2019: ND (< 2.0 µg/L)

MW-24 (19-24 FT)
5/14/2018: ND (< 2.0 µg/L)
8/14/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
3/1/2019: ND (< 2.0 µg/L)

MW-18 (13-18 FT)
5/8/2018: ND (< 2.0 µg/L)
8/7/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 2.0 µg/L)

MW-37 (18-23 FT)
5/10/2018: ND (< 2.0 µg/L)
8/9/2018: ND (< 2.0 µg/L)
10/31/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)

MW-38 (15-20 FT)
5/8/2018: ND (< 2.0 µg/L)
8/9/2018: ND (< 2.0 µg/L)
11/1/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)

MW-33 (14-19 FT)
5/8/2018: ND (< 2.0 µg/L)
8/9/2018: ND (< 2.0 µg/L)
11/2/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)

MW-39 (20-25 FT)
5/8/2018: ND (< 2.0 µg/L)
8/7/2018: ND (< 2.0 µg/L)
11/1/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)

LMW-15-07
LMW-15-06
LMW-15-08
LMW-15-10
LMW-15-09
LMW-15-02
LMW-15-05
LMW-15-03
LMW-15-04
LMW-15-01

SSDS Location
HCS Location
EASTERN DIVERSION CHAMBER
WESTERN DIVERSION CHAMBER

VAULT V-ESD-1
VAULT V-ESD-2
VAULT V-ESD-3
VAULT V-ESD-4
VAULT V-ESD-5

ESD-1
ESD-2
ESD-3
ESD-4

LEVAN RD
PLYMOUTH RD
STANDISH ST

LEGEND

- ON-SITE MONITORING WELL 1,4-DIOXANE ≤ 350 µg/L
- WELL NOT SAMPLED
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- FORD PROPERTY BOUNDARY

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (MAY 2018, AUGUST 2018, OCTOBER/NOVEMBER 2018 AND FEBRUARY/MARCH 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

> - GREATER THAN

THE NONRESIDENTIAL DRINKING WATER CRITERIA FOR 1,4-DIOXANE IS 350 µNTg/L.

FT = FEET BELOW GROUND SURFACE

"ND", "<" INDICATES VALUE IS BELOW THE LABORA TORY REPORTING LIMIT FOR 1,4-DIOXANE.

J = ESTIMATED RESULT

MW = MONITORING WELL

LMW = LIGHT NON-AQUEOUS PHASE LIQUID MONITORING WELL

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

HDPE = HIGH-DENSITY POLYETHYLENE

SSDS = SUB-SLAB DEPRESSURIZATION SYSTEM

HCS = HYDRAULIC CONTROL SYSTEM

CNA = COULD NOT ACCESS

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

ON-SITE MONITORING WELLS 1,4-DIOXANE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE 8

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\FordLivoniaGIS\docs\GEC\1Q_2019\Figure 9_On-Site GWA DX.mxd PLOTTED: 4/30/2019 2:46:13 AM BY: mayyar7350

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

MW-102 (10-15 FT)
12/19/2018: 1.7 J µg/L
2/25/2019: 1.3 J µg/L

MW-102S (2.5-12.5 FT)
12/19/2018: ND (< 2.0 µg/L)
2/25/2019: ND (< 2.0 µg/L)

MW-131S (2.5-12.5 FT)
12/26/2018: 1.0 J µg/L
2/26/2019: ND (< 2.0 µg/L)

MW-132S (2.5-12.5 FT)
12/26/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 2.0 µg/L)

MW-72 (15-20 FT)
5/9/2018: 0.32 J µg/L
8/10/2018: 1.1 J µg/L
10/22/2018: 1.4 J µg/L
3/5/2019: 0.91 J µg/L

MW-72S (3-13 FT)
12/17/2018: ND (< 2.0 µg/L)
3/5/2019: ND (< 2.0 µg/L)

ROSATI AVE

MW-105S (2.5-12.5 FT)
12/26/2018: ND (< 2.0 µg/L)
2/25/2019: ND (< 2.0 µg/L)

MW-85S (2.5-12.5 FT)
Abandoned

MW-142S (2.5-7.5 FT)
2/25/2019: ND (< 2.0 µg/L)

MW-108S (2.5-12.5 FT)
12/26/2018: 0.90 J µg/L
CNL Q1 2019

MW-83S (3-13 FT)
12/26/2018: ND (< 2.0 µg/L)
3/5/2019: ND (< 2.0 µg/L)

MW-85 (8-13 FT)
5/8/2018: 0.45 J µg/L
8/8/2018: ND (< 2.0 µg/L)
10/22/2018: 1.0 J µg/L
2/26/2019: ND (< 2.0 µg/L)

MW-136S (2-7 FT)
2/19/2019: ND (< 2.0 µg/L)

MW-107S (2.5-12.5 FT)
12/26/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)

MW-83 (8-13 FT)
5/11/2018: ND (< 2.0 µg/L)
8/8/2018: ND (< 2.0 µg/L)
10/22/2018: ND (0.92 J µg/L)
3/5/2019: ND (< 2.0 µg/L)

MW-141S (3-8 FT)
2/26/2019: ND (< 2.0 µg/L)

MW-137S (2-7 FT)
2/19/2019: ND (< 2.0 µg/L)

MW-82S (9-14 FT)
Abandoned

MW-73D (13.5-18.5 FT)
5/9/2018: 3.0 µg/L
8/10/2018: 1.9 J µg/L
10/22/2018: 3.8 µg/L
3/4/2019: 1.6 J µg/L

MW-79D (10-15 FT)
5/8/2018: 0.49 J µg/L
8/6/2018: 0.87 J µg/L
10/24/2018: 0.95 J µg/L
3/7/2019: ND (< 2.0 µg/L)

MW-80S (7-12 FT)
Abandoned

CAPITOL ST

MW-82SR (5-15 FT)
12/26/2018: ND (< 2.0 µg/L)
3/5/2019: ND (< 2.0 µg/L)

MW-73S (7-12 FT)
Abandoned

MW-79S (5-10 FT)
Abandoned

MW-80SR (2.5-12.5 FT)
12/27/2018: ND (< 2.0 µg/L)
3/6/2019: ND (< 2.0 µg/L)

MW-82D (18-23 FT)
5/10/2018: ND (< 2.0 µg/L)
8/8/2018: ND (< 2.0 µg/L)
10/23/2018: ND (< 2.0 µg/L)
3/6/2019: ND (< 2.0 µg/L)

MW-133S (4-9 FT)
2/14/2019: ND (< 2.0 µg/L)

MW-73SR (2.5-12.5 FT)
12/17/2018: 0.87 J µg/L
3/4/2019: ND (< 2.0 µg/L)

MW-79SR (2.5-12.5 FT)
12/19/2018: ND (< 2.0 µg/L)
3/1/2019: ND (< 2.0 µg/L)

MW-98S (3-13 FT)
12/19/2018: ND (< 2.0 µg/L)
3/6/2019: ND (< 2.0 µg/L)

MW-134S (5-10 FT)
2/14/2019: ND (< 2.0 µg/L)

MW-140S (2-7 FT)
2/26/2019: ND (< 2.0 µg/L)

MW-74 (14-19 FT)
5/9/2018: 0.34 J µg/L
8/9/2018: 1.6 J µg/L
10/22/2018: 2.0 µg/L
3/8/2019: ND (< 2.0 µg/L)

BREWSTER ST

BEACON ST

STARK RD

MW-135S (5-10 FT)
2/14/2019: ND (< 2.0 µg/L)

MW-139S (2-7 FT)
2/26/2019: ND (< 2.0 µg/L)

MW-78S (2.5-12.5 FT)
12/19/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 2.0 µg/L)

MW-74S (3-13 FT)
12/21/2018: ND (< 2.0 µg/L)
3/8/2019: ND (< 2.0 µg/L)

MW-84 (8-13 FT)
5/8/2018: ND (< 2.0 µg/L)
8/6/2018: ND (< 2.0 µg/L)
10/23/2018: 0.86 J µg/L
2/28/2019: ND (< 2.0 µg/L)

MW-78 (7-12 FT)
5/8/2018: ND (< 2.0 µg/L)
8/6/2018: ND (< 2.0 µg/L)
10/22/2018: 0.90 J µg/L
2/26/2019: ND (< 2.0 µg/L)

MW-138S (2-7 FT)
2/19/2019: ND (< 2.0 µg/L)

MW-81S (2.5-12.5 FT)
12/26/2018: ND (< 2.0 µg/L)
3/6/2019: ND (< 2.0 µg/L)

MW-99S (3-13 FT)
12/21/2018: ND (< 2.0 µg/L)
3/7/2019: ND (< 2.0 µg/L)

MW-84S (2.5-12.5 FT)
12/21/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)

MW-96S (2.5-12.5 FT)
12/18/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)

MW-106S (2.5-12.5 FT)
12/19/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)

MW-81 (8-13 FT)
5/10/2018: ND (< 2.0 µg/L)
8/9/2018: ND (< 2.0 µg/L)
10/23/2018: ND (< 2.0 µg/L)
3/6/2019: ND (< 2.0 µg/L)

BELDEN CT

MW-75SR (2.5-12.5 FT)
12/18/2018: ND (< 2.0 µg/L)
3/7/2019: ND (< 2.0 µg/L)

MW-75S (5-10 FT)
Abandoned

BOSTON POST ST

MW-77 (9-14 FT)
5/11/2018: 0.27 J µg/L
8/6/2018: ND (< 2.0 µg/L)
10/23/2018: ND (< 2.0 µg/L)
3/4/2019: ND (< 2.0 µg/L)

WADSWORTH ST

MW-75D (12-17 FT)
5/9/2018: 0.65 J µg/L
8/9/2018: 2.0 µg/L
10/22/2018: 2.3 µg/L
3/7/2019: 1.5 J µg/L

MW-86S (2.5-12.5 FT)
12/18/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)

MW-86 (12-17 FT)
5/10/2018: 1.2 J µg/L
8/6/2018: ND (< 2.0 µg/L)
10/24/2018: 1.4 J µg/L
2/28/2019: ND (< 2.0 µg/L)

MW-77S (2.5-12.5 FT)
12/27/2018: ND (< 2.0 µg/L)
3/4/2019: ND (< 2.0 µg/L)

MW-97S (2.5-12.5 FT)
12/27/2018: ND (< 2.0 µg/L)
3/6/2019: ND (< 2.0 µg/L)

MW-100S (3-13 FT)
12/18/2018: 1.0 J µg/L
2/27/2019: ND (< 2.0 µg/L)

STANDISH ST

MW-87S (4.5-14.5 FT)
12/21/2018: ND (< 2.0 µg/L)
3/1/2019: ND (< 2.0 µg/L)

MW-87 (14-19 FT)
5/10/2018: ND (< 2.0 µg/L)
8/6/2018: ND (< 2.0 µg/L)
10/23/2018: 0.88 J µg/L
2/28/2019: ND (< 2.0 µg/L)

PRISCILLA LN

MW-101S (4.5-14.5 FT)
12/21/2018: ND (< 2.0 µg/L)
3/6/2019: ND (< 2.0 µg/L)

MW-76 (15-20 FT)
5/10/2018: ND (< 2.0 µg/L)
8/9/2018: ND (< 2.0 µg/L)
10/22/2018: 1.0 J µg/L
3/1/2019: ND (< 2.0 µg/L)

MW-76S (4.5-14.5 FT)
12/21/2018: ND (< 2.0 µg/L)
3/1/2019: ND (< 2.0 µg/L)

PLYMOUTH RD

YALE ST

WAYNE RD

LAUREL ST

FAIRLANE ST

LEGEND

- PROPERTY BOUNDARY
- FORD PROPERTY BOUNDARY
- OFF-SITE MONITORING WELL 1,4-DIOXANE ≤ 7.2 µg/L
- OFF-SITE MONITORING WELL NOT SAMPLED FOR 1,4-DIOXANE

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (MAY 2018, AUGUST 2018, OCTOBER/DECEMBER 2018 AND FEBRUARY/MARCH 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

> - GREATER THAN

THE SITE SPECIFIC RESIDENTIAL DRINKING WATER CRITERIA FOR 1,4-DIOXANE IS 7.2 µg/L.

FT = FEET BELOW GROUND SURFACE

J = ESTIMATED CONCENTRATION ABOVE THE METHOD DETECTION LIMIT AND BELOW THE REPORTING LIMIT.

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR 1,4-DIOXANE.

MW = MONITORING WELL

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE MONITORING WELLS 1,4-DIOXANE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE 9

CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY TM: R. WISMAN TR: P. CURRY PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MIFord\Livonia\GIS\docs\2019-05\Figure 9_Off-Site GWA DX.mxd PLOTTED: 5/2/2019 1:38:51 PM BY: msmiller

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

MW-102S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
2/25/2019: ND (< 1.0 µg/L)

MW-102 (10-15 FT)
12/19/2018: ND (< 1.0 µg/L)
2/25/2019: ND (< 1.0 µg/L)

MW-131S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-132S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-142S (2.5-7.5 FT)
2/25/2019: ND (< 1.0 µg/L)

MW-83S (3-13 FT)
12/26/2018: 0.23 J µg/L
3/5/2019: 0.20 J µg/L

MW-85S (2.5-12.5 FT)
Abandoned

MW-108S (2.5-12.5 FT)
12/26/2019: ND (< 1.0 µg/L)
CNL Q1 2019

MW-105S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
2/25/2019: ND (< 1.0 µg/L)

MW-72S (3-13 FT)
12/17/2018: ND (< 1.0 µg/L)
3/5/2019: 0.20 J µg/L

MW-72 (15-20 FT)
5/9/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)

MW-85 (8-13 FT)
5/8/2018: ND (< 1.0 µg/L)
8/8/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

ROSATI AVE

MW-136S (2-7 FT)
2/19/2019: ND (< 1.0 µg/L)

MW-107S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-83 (8-13 FT)
5/11/2018: ND (< 1.0 µg/L)
8/8/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
3/5/2019: 0.17 J µg/L

MW-73S (7-12 FT)
Abandoned

MW-141S (3-8 FT)
2/27/2019: ND (< 1.0 µg/L)

MW-137S (2-7 FT)
2/23/2019: ND (< 1.0 µg/L)

MW-82D (18-23 FT)
5/10/2018: ND (< 1.0 µg/L)
8/8/2018: ND (< 1.0 J µg/L)
10/23/2018: ND (< 1.0 µg/L)
3/6/2019: ND (< 1.0 µg/L)

MW-73SR (2.5-12.5 FT)
12/17/2018: 0.29 J µg/L
3/4/2019: 0.23 J µg/L

MW-79D (10-15 FT)
5/8/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 1.0 µg/L)
3/7/2019: ND (< 1.0 µg/L)

MW-79S (5-10 FT)
Abandoned

MW-80S (7-12 FT)
Abandoned

MW-82SR (5-15 FT)
12/26/2018: ND (< 1.0 µg/L)
3/5/2019: 0.16 J µg/L

MW-82S (9-14 FT)
Abandoned

MW-80SR (2.5-12.5 FT)
12/27/2018: ND (< 1.0 µg/L)
3/6/2019: ND (< 1.0 µg/L)

MW-73D (13.5-18.5 FT)
5/9/2018: ND (< 1.0 µg/L)
8/10/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
3/4/2019: 0.19 J µg/L

MW-79SR (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-140S (2-7 FT)
2/26/2019: ND (< 1.0 µg/L)

MW-139S (2-7 FT)
2/26/2019: ND (< 1.0 µg/L)

MW-138S (2-7 FT)
2/19/2019: ND (< 1.0 µg/L)

MW-133S (4-9 FT)
2/14/2019: ND (< 1.0 µg/L)

MW-134S (5-10 FT)
2/14/2019: ND (< 1.0 µg/L)

MW-135S (5-10 FT)
2/14/2019: ND (< 1.0 µg/L)

MW-74 (14-19 FT)
5/9/2018: ND (< 1.0 J µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
3/8/2019: ND (< 1.0 µg/L)

MW-74S (3-13 FT)
12/21/2018: ND (< 1.0 µg/L)
3/8/2019: ND (< 1.0 µg/L)

BEACON ST

STARK RD

MW-84S (2.5-12.5 FT)
12/21/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-78S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-98S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
3/6/2019: ND (< 1.0 µg/L)

MW-99S (2.5-12.5 FT)
12/21/2018: ND (< 1.0 µg/L)
3/7/2019: ND (< 1.0 µg/L)

MW-84 (8-13 FT)
5/8/2018: ND (< 1.0 µg/L)
8/6/2018: 0.14 J µg/L
10/23/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-78 (7-12 FT)
5/8/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-106S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-81 (8-13 FT)
5/10/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/23/2018: ND (< 1.0 µg/L)
3/6/2019: ND (< 1.0 µg/L)

BELDEN CT

MW-75D (12-17 FT)
5/9/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
3/7/2019: ND (< 1.0 µg/L)

MW-96S (2.5-12.5 FT)
12/18/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-81S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
3/6/2019: ND (< 1.0 µg/L)

MW-75S (5-10 FT)
Abandoned

MW-77 (9-14 FT)
5/11/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/23/2018: ND (< 1.0 µg/L)
3/4/2019: 0.17 J µg/L

WADSWORTH ST

MW-77S (2.5-12.5 FT)
12/27/2018: ND (< 1.0 µg/L)
3/4/2019: 0.22 J µg/L

MW-86 (12-17 FT)
5/10/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-75SR (2.5-12.5 FT)
12/18/2018: ND (< 1.0 µg/L)
3/7/2019: ND (< 1.0 µg/L)

MW-87 (14-19 FT)
5/10/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/23/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-97S (2.5-12.5 FT)
12/27/2018: ND (< 1.0 µg/L)
3/6/2019: ND (< 1.0 µg/L)

MW-100S (3-13 FT)
12/18/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-86S (2.5-12.5 FT)
12/18/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

STANDISH ST

BOSTON POST ST

MW-87S (4.5-14.5 FT)
12/21/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

PRISCILLA LN

MW-101S (4.5-14.5 FT)
12/21/2018: ND (< 1.0 µg/L)
3/6/2019: ND (< 1.0 µg/L)

MW-76 (15-20 FT)
5/10/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-76S (4.5-14.5 FT)
12/21/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

PLYMOUTH RD

WAYNE RD

LAUREL ST

LEGEND

- PROPERTY BOUNDARY
- FORD PROPERTY BOUNDARY
- OFF-SITE MONITORING WELL VINYL CHLORIDE ≤ 2.0 µg/L
- OFF-SITE MONITORING WELL VINYL CHLORIDE > 2.0 µg/L
- OFF-SITE MONITORING WELL TRICHLOROETHENE ≤ 1.0 µg/L
- OFF-SITE MONITORING WELL NOT SAMPLED FOR TRICHLOROETHENE

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (MAY 2018, AUGUST 2018, OCTOBER/DECEMBER 2018 AND FEBRUARY/MARCH 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

THE PUBLISHED 2016 MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY REMEDIATION AND REDEVELOPMENT DIVISION TARGET DETECTION LIMIT FOR TRICHLOROETHENE IS 1.0 µg/L.

FT = FEET BELOW GROUND SURFACE

J = ESTIMATED CONCENTRATION ABOVE THE METHOD DETECTION LIMIT AND BELOW THE REPORTING LIMIT.

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR TRICHLOROETHENE.

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

MW = MONITORING WELL

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE MONITORING WELLS TRICHLOROETHENE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE
10

CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY TM: R. WISMAN TR: P. CURRY PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MIFord\LivoniaGIS\docs\2019-05\Figure 10_Off-Site GWA TCE.mxd PLOTTED: 5/2/2019 1:50:37 PM BY: msmiller

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

MW-102 (10-15 FT)
12/19/2018: 1.6 µg/L
2/25/2019: 1.7 µg/L

MW-102S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
2/25/2019: ND (< 1.0 µg/L)

MW-131S (2.5-12.5 FT)
12/26/2018: 0.98 J µg/L
2/26/2019: 0.69 J µg/L

MW-132S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-142S (2.5-7.5 FT)
2/25/2019: ND (< 1.0 µg/L)

MW-83 (8-13 FT)
5/11/2018: ND (< 1.0 µg/L)
8/8/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)

MW-72 (15-20 FT)
5/9/2018: 1.5 J µg/L
8/10/2018: 1.2 µg/L
10/22/2018: 1.1 µg/L
3/5/2019: 1.9 µg/L

MW-105S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
2/25/2019: ND (< 1.0 µg/L)

ROSATI AVE

MW-85 (8-13 FT)
5/8/2018: 7.5 µg/L
8/8/2018: 7.2 µg/L
10/22/2018: 5.5 µg/L
2/26/2019: 5.5 µg/L

MW-85S (2.5-12.5 FT)
Abandoned

MW-108S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
CNL Q1 2019

MW-83S (3-13 FT)
12/26/2018: ND (< 1.0 µg/L)
3/5/2019: 0.27 J µg/L

MW-72S (3-13FT)
12/17/2018: ND (< 1.0 µg/L)
3/5/2019: 0.24 J µg/L

MW-79D (10-15 FT)
5/8/2018: 3.5 µg/L
8/6/2018: 2.8 µg/L
10/24/2018: 1.3 µg/L
3/7/2019: 1.6 µg/L

MW-141S (3-8 FT)
2/27/2019: ND (< 1.0 µg/L)

MW-136S (2-7 FT)
2/19/2019: ND (< 1.0 µg/L)

MW-107S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-82D (18-23 FT)
5/10/2018: ND (< 1.0 µg/L)
8/8/2018: ND (< 1.0 J µg/L)
10/23/2018: ND (< 1.0 µg/L)
3/6/2019: 0.78 J µg/L

MW-137S (2-7 FT)
2/23/2019: ND (< 1.0 µg/L)

MW-80S (7-12 FT)
Abandoned

MW-73SR (2.5-12.5 FT)
12/17/2018: 1.7 µg/L
3/4/2019: 1.5 µg/L

MW-79SR (2.5-12.5 FT)
12/19/2018: 0.56 J µg/L
3/1/2019: 0.53 J µg/L

MW-79S (5-10 FT)
Abandoned

MW-80SR (2.5-12.5 FT)
12/27/2018: 1.4 µg/L
3/6/2019: 2.1 µg/L

CAPITOL ST

MW-82S (9-14 FT)
Abandoned

MW-73D (13.5-18.5 FT)
5/9/2018: 0.80 J µg/L
8/10/2018: 0.75 J µg/L
10/22/2018: ND (< 1.0 µg/L)
3/4/2019: 0.71 J µg/L

MW-73S (7-12 FT)
Abandoned

MW-140S (2-7 FT)
2/26/2019: ND (< 1.0 µg/L)

MW-78S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-98S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
3/6/2019: 0.43 J µg/L

MW-133S (4-9 FT)
2/14/2019: ND (< 1.0 µg/L)

MW-82SR (5-15 FT)
12/26/2018: ND (< 1.0 µg/L)
3/5/2019: 0.27 J µg/L

STARK RD

MW-134S (5-10 FT)
2/14/2019: ND (< 1.0 µg/L)

MW-74 (14-19 FT)
5/9/2018: 0.70 J µg/L
8/9/2018: 2.8 µg/L
10/22/2018: 2.2 µg/L
3/8/2019: 1.1 µg/L

MW-139S (2-7 FT)
2/26/2019: ND (< 1.0 µg/L)

BEACON ST

MW-135S (5-10 FT)
2/14/2019: ND (< 1.0 µg/L)

MW-74S (3-13 FT)
12/21/2018: ND (< 1.0 µg/L)
3/8/2019: ND (< 1.0 µg/L)

MW-138S (2-7 FT)
2/19/2019: 1.7 µg/L

MW-78 (7-12 FT)
5/8/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)

MW-84S (2.5-12.5 FT)
12/21/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-99S (3-13FT)
12/21/2018: ND (< 1.0 µg/L)
3/8/2019: 0.28 J µg/L

MW-84 (8-13 FT)
5/8/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/23/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-96S (2.5-12.5 FT)
12/18/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-106S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)

MW-81 (8-13 FT)
5/10/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/23/2018: ND (< 1.0 µg/L)
3/6/2019: 0.69 J µg/L

BELDEN CT

MW-86 (12-17 FT)
5/10/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-75D (12-17 FT)
5/9/2018: 2.4 µg/L
8/9/2018: 1.8 µg/L
10/22/2018: 1.7 µg/L
3/7/2019: 1.6 µg/L

MW-77 (9-14 FT)
5/11/2018: ND (< 1.0 µg/L)
8/6/2018: 0.24 J µg/L
10/23/2018: ND (< 1.0 µg/L)
3/4/2019: 0.48 J µg/L

MW-81S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
3/6/2019: 0.66 J µg/L

WADSWOR

MW-86S (2.5-12.5 FT)
12/18/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-75SR (2.5-12.5 FT)
12/18/2018: ND (< 1.0 µg/L)
3/7/2019: ND (< 1.0 µg/L)

MW-75S (5-10 FT)
Abandoned

MW-87 (14-19 FT)
5/10/2018: ND (< 1.0 µg/L)
8/6/2018: ND (< 1.0 µg/L)
10/23/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)

MW-97S (2.5-12.5 FT)
12/27/2018: ND (< 1.0 µg/L)
3/6/2019: 0.42 J µg/L

MW-77S (2.5-12.5 FT)
12/27/2018: ND (< 1.0 µg/L)
3/4/2019: 0.20 J µg/L

STANDISH ST

BOSTON POST ST

PRISCILLA LN

MW-100S (3-13 FT)
12/18/2018: 0.22 J µg/L
2/27/2019: ND (< 1.0 µg/L)

MW-87S (4.5-14.5 FT)
12/21/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-101S (4.5-14.5 FT)
12/21/2018: ND (< 1.0 µg/L)
3/6/2019: 0.58 J µg/L

MW-76 (15-20 FT)
5/10/2018: ND (< 1.0 µg/L)
8/9/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

MW-76S (4.5-14.5 FT)
12/21/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)

PLYMOUTH RD

WAYNE RD

LAUREL ST

LEGEND

- PROPERTY BOUNDARY
- FORD PROPERTY BOUNDARY
- OFF-SITE MONITORING WELL VINYL CHLORIDE ≤ 1.0 µg/L
- OFF-SITE MONITORING WELL VINYL CHLORIDE > 1.0 µg/L
- OFF-SITE MONITORING WELL NOT SAMPLED FOR VINYL CHLORIDE
- **BLUE/BOLD TEXT** EXCEEDANCE OF THE TDL FROM PAST AND PRESENT SAMPLING EVENTS

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (MAY 2018, AUGUST 2018, OCTOBER/DECEMBER 2018 AND FEBRUARY/MARCH 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

> - GREATER THAN

TDL - TARGET DETECTION LIMIT

THE PUBLISHED 2016 MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY REMEDIATION AND REDEVELOPMENT DIVISION TARGET DETECTION LIMIT FOR VINYL CHLORIDE IS 1.0 µg/L.

FT = FEET BELOW GROUND SURFACE

J = ESTIMATED CONCENTRATION ABOVE THE METHOD DETECTION LIMIT AND BELOW THE REPORTING LIMIT.

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR VINYL CHLORIDE.

MW = MONITORING WELL

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

BLUE BOX INDICATES EXCEEDANCE OF THE TARGET DETECTION LIMIT FOR VINYL CHLORIDE ASSOCIATED WITH THE MOST RECENT SAMPLING EVENT POSSIBLE

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE MONITORING WELLS VINYL CHLORIDE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE
11

CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY TM: R. WISMAN TR: P. CURRY PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MIFord\Livonia\GIS\docs\2019-05\Figure 11_Off-Site GWA VC.mxd PLOTTED: 5/2/2019 1:26:34 PM BY: msmiller

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

SVMP-25S (3.0 FT)
5/29/2018: ND (< 5.0 µg/m^3)
8/23/2018: ND (< 5.0 µg/m^3)
11/6/2018: ND (< 4.6 µg/m^3)
3/21/2019: ND (< 5.0 µg/m^3)

SVMP-25D (6.0 FT)
5/29/2018: ND (< 5.1 µg/m^3)
8/23/2018: ND (< 4.7 µg/m^3)
11/6/2018: ND (< 4.7 µg/m^3)
3/21/2019: ND (< 5.2 µg/m^3)

SVMP-26 (4.0 FT)
5/29/2018: ND (< 4.9 µg/m^3)
8/23/2018: ND (14 µg/m^3)
11/6/2018: ND (< 4.9 µg/m^3)
3/21/2019: ND (< 5.0 µg/m^3)

SVMP-27 (4.5 FT)
5/29/2018: ND (< 4.9 µg/m^3)
8/23/2018: ND (< 5.0 µg/m^3)
11/6/2018: ND (< 4.5 µg/m^3)
3/21/2019: ND (< 5.0 µg/m^3)

SVMP-28 (3.0 FT)
5/29/2018: ND (< 5.2 µg/m^3)
8/23/2018: ND (< 4.7 µg/m^3)
11/6/2018: ND (< 4.7 µg/m^3)
3/21/2019: ND (< 5.0 µg/m^3)

SVMP-32 (3.0 FT)

SVMP-32 (6.0 FT)

SVMP-08 (3.5 FT)
5/29/2018: ND (< 5.0 µg/m^3)
8/23/2018: ND (< 4.8 µg/m^3)
11/5/2018: ND (< 4.6 µg/m^3)
3/5/2019: ND (< 4.8 µg/m^3)

SVMP-33 (4.0 FT)

SVMP-34 (4.0 FT)

SVMP-09 (4.0 FT)
5/30/2018: ND (< 4.5 µg/m^3)
8/23/2018: ND (< 4.9 µg/m^3)
11/5/2018: ND (< 4.4 µg/m^3)
3/5/2019: ND (< 4.7 µg/m^3)

SVMP-06 (4.5 FT)
5/30/2018: ND (< 4.7 µg/m^3)
8/23/2018: ND (< 4.6 µg/m^3)
11/5/2018: ND (< 4.4 µg/m^3)
3/21/2019: ND (< 4.9 µg/m^3)

SVMP-07 (3.5 FT)
5/30/2018: ND (< 4.9 µg/m^3)
8/23/2018: ND (< 4.7 µg/m^3)
11/5/2018: ND (< 4.8 µg/m^3)
3/4/2019: ND (< 4.5 µg/m^3)

SVMP-35 (4.0 FT)

SVMP-31 (5.5 FT)

SVMP-30 (4.0 FT)

SVMP-29 (7.5 FT)

SVMP-29 (3.5 FT)

SVMP-01D (7.0 FT)
5/29/2018: ND (< 5.1 µg/m^3)
8/22/2018: ND (< 4.7 µg/m^3)
11/6/2018: ND (< 4.5 µg/m^3)
3/4/2019: ND (< 4.6 µg/m^3)

SVMP-01S (3.5 FT)
5/29/2018: ND (< 4.8 µg/m^3)
8/22/2018: ND (< 4.8 µg/m^3)
11/6/2018: ND (< 4.6 µg/m^3)
3/4/2019: ND (< 4.5 µg/m^3)

SVMP-02S (4.5 FT)
5/29/2018: ND (< 4.9 µg/m^3)
8/22/2018: ND (< 5.0 µg/m^3)
11/7/2018: ND (< 4.6 µg/m^3)
3/21/2019: ND (< 4.7 µg/m^3)

SVMP-02D (8.5 FT)
5/29/2018: ND (< 5.1 µg/m^3)
8/22/2018: ND (< 4.9 µg/m^3)
11/7/2018: ND (< 4.6 µg/m^3)
3/5/2019: ND (< 4.8 µg/m^3)

SVMP-10 (3.0 FT)
8/23/2018: ND (< 4.9 µg/m^3)
11/5/2018: ND (< 4.7 µg/m^3)

SVMP-05 (4.5 FT)
5/30/2018: ND (< 4.7 µg/m^3)
8/23/2018: ND (< 4.6 µg/m^3)
11/5/2018: ND (< 4.6 µg/m^3)
3/21/2019: ND (< 5.0 µg/m^3)

SVMP-03S (3.5 FT)
5/29/2018: ND (< 5.5 µg/m^3)
8/22/2018: ND (< 4.6 µg/m^3)
11/7/2018: ND (< 4.5 µg/m^3)

SVMP-03D (7.0 FT)
5/29/2018: ND (< 5.0 µg/m^3)
8/22/2018: ND (< 4.6 µg/m^3)
11/7/2018: ND (< 4.4 µg/m^3)
3/21/2019: ND (< 4.8 µg/m^3)

SVMP-04 (3.5 FT)
5/30/2018: ND (< 4.8 µg/m^3)
8/23/2018: ND (< 4.9 µg/m^3)
11/5/2018: ND (< 5.1 µg/m^3)
3/5/2019: ND (< 5.9 µg/m^3)

SVMP-12 (3.5 FT)
5/29/2018: ND (< 4.8 µg/m^3)
8/23/2018: ND (< 4.7 µg/m^3)
11/6/2018: ND (< 4.8 µg/m^3)
3/21/2019: ND (< 4.8 µg/m^3)

SVMP-13 (2.0 FT)
8/24/2018: ND (< 4.8 µg/m^3)

SVMP-15 (2.0 FT)
8/24/2018: ND (< 4.8 µg/m^3)

SVMP-14 (2.0 FT)
8/24/2018: ND (< 4.7 µg/m^3)
3/5/2019: ND (< 5.3 µg/m^3)

SVMP-16 (2.0 FT)
8/24/2018: ND (< 5.0 µg/m^3)

SVMP-20 (3.0 FT)
8/22/2018: ND (< 4.7 µg/m^3)

SVMP-22 (3.0 FT)
8/21/2018: ND (< 4.7 µg/m^3)
11/5/2018: ND (< 4.7 µg/m^3)
3/5/2019: ND (< 4.8 µg/m^3)

SVMP-23 (3.0 FT)
8/22/2018: ND (< 4.6 µg/m^3)
11/5/2018: ND (< 4.5 µg/m^3)

SVMP-19 (3.0 FT)
8/22/2018: ND (< 4.5 µg/m^3)
3/5/2019: ND (< 4.8 µg/m^3)

SVMP-24 (4.0 FT)
5/30/2018: ND (< 4.6 µg/m^3)
8/22/2018: ND (< 4.7 µg/m^3)
11/5/2018: ND (< 4.5 µg/m^3)
3/21/2019: ND (< 4.8 µg/m^3)

SVMP-36 (4.0 FT)

SVMP-18 (3.0 FT)
5/30/2018: ND (< 4.7 µg/m^3)
8/22/2018: ND (< 5.1 µg/m^3)
11/7/2018: ND (< 4.6 µg/m^3)
3/5/2019: ND (< 5.6 µg/m^3)

SVMP-21 (2.0 FT)
5/30/2018: ND (< 4.8 µg/m^3)
8/24/2018: ND (< 4.8 µg/m^3)
3/5/2019: ND (< 5.2 µg/m^3)

SVMP-37 (2.5 FT)

SVMP-17 (2.0 FT)
5/30/2018: ND (< 4.8 µg/m^3)
8/24/2018: ND (< 4.9 µg/m^3)
3/5/2019: ND (< 4.9 µg/m^3)

ROSATI AVE
CONCORD ST
CAPITOL ST
STARK RD
BEACON ST
BREWSTER ST
BOSTON POST ST
WADSWORTH ST
STANDISH ST
PRISCILLA LN
BELDEN CT
WAYNE RD
LAUREL ST
PLYMOUTH RD

LEGEND

- PROPERTY BOUNDARIES
- FORD PROPERTY BOUNDARY
- OFF-SITE SVMP CIS-1,2-DICHLOROETHENE < 280 µg/m^3
- OFF-SITE SVMP NOT SAMPLED FOR CIS-1,2-DICHLOROETHENE

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (MAY 2018, AUGUST 2018, NOVEMBER 2018, AND MARCH 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/m^3 - MICROGRAMS PER CUBIC METER

THE EGLE PROVIDED RESIDENTIAL VOLATILIZATION TO INDOOR AIR SOIL VAPOR SCREENING LEVEL FOR CIS-1,2-DICHLOROETHENE IS 280 µg/m.^{3}

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

FT = FEET BELOW GROUND SURFACE

"ND", "<" = NON-DETECT INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR CIS-1,2-DICHLOROETHENE.

SVMP = SOIL VAPOR MONITORING POINT

SVMP-29 THROUGH 37 WERE NOT SAMPLED DURING THE MAY 2018, AUGUST 2018, NOVEMBER 2018, OR MARCH 2019 SAMPLING EVENTS.

SVMP-10, SVMP-13 THROUGH SVMP-16, SVMP-19, SVMP-22, AND SVMP-23 WERE NOT SAMPLED DURING THE MAY 2018 SAMPLING EVENT DUE TO SATURATED SCREENS. SVMP-20 WAS NOT SAMPLED DURING THE MAY 2018 SAMPLING EVENT DUE TO A BLOCKAGE IN THE TUBING.

SVMP-11, WHICH RESIDED IN THE CITY OF LIVONIA RIGHT-OF-WAY, WAS REMOVED PER THE ADJACENT PROPERTY OWNERS REQUEST.

SVMP-13 THROUGH SVMP-17, AND SVMP-19 THROUGH SVMP-21 WERE NOT SAMPLED DURING THE NOVEMBER 2018 SAMPLING EVENT DUE TO SATURATED SCREENS.

SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, AND SVMP-23 WERE NOT SAMPLED DURING THE MARCH 2019 SAMPLING EVENT DUE TO SATURATED SCREENS.SVMP-03S WAS NOT SAMPLED DURING MARCH 2019 SAMPLING EVENT DUE TO TECHNICAL DIFFICULTIES WITH THE CANISTER.

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE VAPOR INTRUSION ASSESSMENT CIS-1,2-DICHLOROETHENE IN SOIL VAPOR

ARCADIS Design & Consultancy for natural and built assets

FIGURE
12

CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY TM: R. WISMAN TR: M.WACKSMAN PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\Ford\Livonia\GIS\docs\GEC\1Q_2019\Figure 13_Off-Site SVMP cis-DCE.mxd PLOTTED: 4/30/2019 3:09:27 AM BY: mayyar7350

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SVMP-25S (3.0 FT)
5/29/2018: ND (< 8.5 µg/m^3)
8/23/2018: ND (< 8.5 µg/m^3)
11/6/2018: 1.6 J µg/m^3
3/21/2019: ND (< 8.5 µg/m^3)

SVMP-25D (6.0 FT)
5/29/2018: ND (< 8.8 µg/m^3)
8/23/2018: ND (< 8.1 µg/m^3)
11/6/2018: 2.5 J µg/m^3
3/21/2019: ND (< 8.8 µg/m^3)

SVMP-26 (4.0 FT)
5/29/2018: ND (< 8.4 µg/m^3)
8/23/2018: ND (< 8.0 µg/m^3)
11/6/2018: ND (< 8.4 µg/m^3)
3/21/2019: ND (< 8.5 µg/m^3)

SVMP-27 (4.5 FT)
5/29/2018: ND (< 8.4 µg/m^3)
8/23/2018: ND (< 8.5 µg/m^3)
11/6/2018: ND (< 7.6 µg/m^3)
3/21/2019: ND (< 8.5 µg/m^3)

SVMP-28 (3.0 FT)
5/29/2018: ND (< 8.9 µg/m^3)
8/23/2018: ND (<8.9 µg/m^3)
11/6/2018: ND (< 8.1 µg/m^3)
3/21/2019: ND (< 8.5 µg/m^3)

SVMP-32 (3.0 FT)

SVMP-32 (6.0 FT)

SVMP-33 (4.0 FT)

SVMP-34 (4.0 FT)

SVMP-08 (3.5 FT)
5/29/2018: ND (< 8.6 µg/m^3)
8/23/2018: ND (< 8.2 µg/m^3)
11/5/2018: ND (< 7.9 µg/m^3)
3/5/2019: ND (< 8.2 µg/m^3)

SVMP-09 (4.0 FT)
5/30/2018: ND (< 7.7 µg/m^3)
8/23/2018: ND (< 8.4 µg/m^3)
11/5/2018: ND (< 7.5 µg/m^3)
3/5/2019: ND (< 8.1 µg/m^3)

SVMP-10 (3.0 FT)
8/23/2018: ND (< 8.4 µg/m^3)
11/5/2018: ND (< 8.1 µg/m^3)

SVMP-06 (4.5 FT)
5/30/2018: ND (< 8.1 µg/m^3)
8/23/2018: ND (< 7.8 µg/m^3)
11/5/2018: ND (< 7.6 µg/m^3)
3/21/2019: ND (< 8.4 µg/m^3)

SVMP-05 (4.5 FT)
5/30/2018: ND (< 8.0 µg/m^3)
8/23/2018: ND (< 7.8 µg/m^3)
11/5/2018: ND (< 7.8 µg/m^3)
3/21/2019: ND (< 8.5 µg/m^3)

SVMP-07 (3.5 FT)
5/30/2018: ND (< 8.4 µg/m^3)
8/23/2018: ND (< 8.1 µg/m^3)
11/5/2018: ND (< 8.1 µg/m^3)
3/4/2019: ND (< 7.7 µg/m^3)

SVMP-31 (5.5 FT)

SVMP-35 (4.0 FT)

SVMP-29 (3.5 FT)

SVMP-29 (7.5 FT)

SVMP-01D (7.0 FT)
5/29/2018: ND (< 8.7 µg/m^3)
8/22/2018: ND (< 8.1 µg/m^3)
11/6/2018: ND (< 7.7 µg/m^3)
3/4/2019: ND (< 8.0 µg/m^3)

SVMP-01S (3.5 FT)
5/29/2018: ND (< 8.3 µg/m^3)
8/22/2018: ND (< 8.3 µg/m^3)
11/6/2018: ND (< 7.9 µg/m^3)
3/4/2019: ND (< 7.7 µg/m^3)

SVMP-02S (4.5 FT)
5/29/2018: ND (< 8.4 µg/m^3)
8/22/2018: ND (< 8.5 µg/m^3)
11/7/2018: ND (< 7.8 µg/m^3)
3/21/2019: ND (< 8.1 µg/m^3)

SVMP-02D (8.5 FT)
5/29/2018: ND (< 8.7 µg/m^3)
8/22/2018: ND (< 8.4 µg/m^3)
11/7/2018: ND (< 7.9 µg/m^3)
3/5/2019: ND (< 8.1 µg/m^3)

SVMP-30 (4.0 FT)

SVMP-03D (7.0 FT)
5/29/2018: ND (< 8.5 µg/m^3)
8/22/2018: ND (< 7.8 µg/m^3)
11/7/2018: ND (< 7.5 µg/m^3)
3/21/2019: ND (< 8.3 µg/m^3)

SVMP-03S (3.5 FT)
5/29/2018: ND (< 9.4 µg/m^3)
8/22/2018: ND (< 7.8 µg/m^3)
11/7/2018: ND (< 7.7 µg/m^3)

SVMP-22 (3.0 FT)
8/21/2018: ND (< 8.0 µg/m^3)
11/5/2018: ND (< 8.1 µg/m^3)
3/5/2019: ND (< 8.3 µg/m^3)

SVMP-23 (3.0 FT)
8/22/2018: ND (< 7.9 µg/m^3)
11/5/2018: ND (< 7.7 µg/m^3)

SVMP-24 (4.0 FT)
5/30/2018: ND (< 7.9 µg/m^3)
8/22/2018: ND (< 8.1 µg/m^3)
11/5/2018: ND (< 7.8 µg/m^3)
3/21/2019: ND (< 8.2 µg/m^3)

SVMP-19 (3.0 FT)
8/22/2018: ND (< 7.7 µg/m^3)
3/5/2019: ND (< 8.3 µg/m^3)

SVMP-36 (4.0 FT)

SVMP-18 (3.0 FT)
5/30/2018: ND (< 8.1 µg/m^3)
8/22/2018: ND (< 8.8 µg/m^3)
11/7/2018: ND (< 7.8 µg/m^3)
3/5/2019: ND (< 9.6 µg/m^3)

SVMP-12 (3.5 FT)
5/29/2018: ND (< 8.2 µg/m^3)
8/23/2018: ND (< 8.0 µg/m^3)
11/6/2018: ND (< 8.2 µg/m^3)
3/21/2019: ND (< 8.2 µg/m^3)

SVMP-21 (2.0 FT)
5/30/2018: ND (< 8.3 µg/m^3)
8/24/2018: ND (< 8.2 µg/m^3)
3/5/2019: ND (< 8.8 µg/m^3)

SVMP-20 (3.0 FT)
8/22/2018: ND (< 8.0 µg/m^3)

SVMP-37 (2.5 FT)

SVMP-13 (2.0 FT)
8/24/2018: ND (< 8.2 µg/m^3)

SVMP-15 (2.0 FT)
8/24/2018: ND (< 8.2 µg/m^3)

SVMP-17 (2.0 FT)
5/30/2018: ND (< 8.1 µg/m^3)
8/24/2018: ND (< 8.4 µg/m^3)
3/5/2019: ND (< 8.3 µg/m^3)

SVMP-14 (2.0 FT)
8/24/2018: ND (< 8.1 µg/m^3)
3/5/2019: ND (< 9.0 µg/m^3)

SVMP-16 (2.0 FT)
8/24/2018: ND (< 8.5 µg/m^3)

SVMP-04 (3.5 FT)
5/30/2018: ND (< 8.2 µg/m^3)
8/23/2018: ND (< 8.4 µg/m^3)
11/5/2018: ND (< 8.7 µg/m^3)
3/5/2019: ND (< 10 µg/m^3)

ROSATI AVE
CONCORD ST
CAPITOL ST
STARK RD
BEACON ST
BREWSTER ST
WADSWORTH ST
BOSTON POST ST
BELDEN CT
PRISCILLA LN
PLYMOUTH RD
WAYNE RD
LAUREL ST

LEGEND

- PROPERTY BOUNDARIES
- FORD PROPERTY BOUNDARY
- OFF-SITE SVMP TETRACHLOROETHENE < 1,400 µg/m^3
- OFF-SITE SVMP NOT SAMPLED FOR TETRACHLOROETHENE

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (MAY 2018, AUGUST 2018, NOVEMBER 2018, AND MARCH 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/m^3 - MICROGRAMS PER CUBIC METER

THE EGLE PROVIDED RESIDENTIAL VOLATILIZATION TO INDOOR AIR SOIL VAPOR SCREENING LEVEL FOR TETRACLOROETHENE IS 1,400 µg/m.^{3}

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

FT = FEET BELOW GROUND SURFACE

"ND", "<" = NON-DETECT INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR TETRACHLOROETHENE.

SVMP = SOIL VAPOR MONITORING POINT

SVMP-29 THROUGH 37 WERE NOT SAMPLED DURING THE MAY 2018, AUGUST 2018, NEVEMBER 2018, OR MARCH 2019 SAMPLING EVENTS.

SVMP-10, SVMP-13 THROUGH SVMP-16, SVMP-19, SVMP-22, AND SVMP-23 WERE NOT SAMPLED DURING THE MAY 2018 SAMPLING EVENT DUE TO SATURATED SCREENS. SVMP-20 WAS NOT SAMPLED DURING THE MAY 2018 SAMPLING EVENT DUE TO A BLOCKAGE IN THE TUBING.

SVMP-11, WHICH RESIDED IN THE CITY OF LIVONIA RIGHT-OF-WAY, WAS REMOVED PER THE ADJACENT PROPERTY OWNERS REQUEST.

SVMP-13 THROUGH SVMP-17, AND SVMP-19 THROUGH SVMP-21 WERE NOT SAMPLED DURING THE NOVEMBER 2018 SAMPLING EVENT DUE TO SATURATED SCREENS.

SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, AND SVMP-23 WERE NOT SAMPLED DURING THE MARCH 2019 SAMPLING EVENT DUE TO SATURATED SCREENS.SVMP-03S WAS NOT SAMPLED DURING MARCH 2019 SAMPLING EVENT DUE TO TECHNICAL DIFFICULTIES WITH THE CANISTER.

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE VAPOR INTRUSION ASSESSMENT TETRACHLOROETHENE IN SOIL VAPOR

ARCADIS Design & Consultancy for natural and built assets

FIGURE
13

CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY TM: R. WISMAN TR: M.WACKSMAN PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\Ford\Livonia\GIS\docs\GEC\1Q_2019\Figure 14 - Off-Site SVMP PCE.mxd PLOTTED: 4/30/2019 3:10:42 AM BY: mayyar7350

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

SVMP-25S (3.0 FT)
5/29/2018: ND (< 6.7 µg/m^3)
8/23/2018: ND (< 6.7 µg/m^3)
11/6/2018: ND (< 6.2 µg/m^3)
3/21/2019: ND (< 6.7 µg/m^3)

SVMP-25D (6.0 FT)
5/29/2018: ND (< 7.0 µg/m^3)
8/23/2018: ND (< 6.4 µg/m^3)
11/6/2018: ND (< 6.4 µg/m^3)
3/21/2019: ND (< 7.0 µg/m^3)

SVMP-22 (3.0 FT)
8/21/2018: ND (< 6.3 µg/m^3)
11/5/2018: ND (< 6.4 µg/m^3)
3/5/2019: ND (< 6.6 µg/m^3)

SVMP-23 (3.0 FT)
8/22/2018: ND (< 6.3 µg/m^3)
11/5/2018: ND (< 6.1 µg/m^3)

SVMP-24 (4.0 FT)
5/30/2018: ND (< 6.3 µg/m^3)
8/22/2018: ND (<6.9 µg/m^3)
11/5/2018: ND (< 6.2 µg/m^3)
3/21/2019: ND (< 6.5 µg/m^3)

SVMP-26 (4.0 FT)
5/29/2018: ND (< 6.7 µg/m^3)
8/23/2018: ND (<24 µg/m^3)
11/6/2018: ND (< 6.7 µg/m^3)
3/21/2019: ND (< 6.8 µg/m^3)

SVMP-19 (3.0 FT)
8/22/2018: ND (< 6.1 µg/m^3)
3/5/2019: ND (< 6.6 µg/m^3)

SVMP-36 (4.0 FT)

SVMP-18 (3.0 FT)
5/30/2018: ND (< 6.4 µg/m^3)
8/22/2018: ND (< 6.9 µg/m^3)
11/7/2018: ND (< 6.2 µg/m^3)
3/5/2019: ND (< 7.6 µg/m^3)

SVMP-20 (3.0 FT)
8/22/2018: ND (< 6.3 µg/m^3)

SVMP-12 (3.5 FT)
5/29/2018: ND (< 6.5 µg/m^3)
8/23/2018: ND (< 6.4 µg/m^3)
11/6/2018: ND (< 6.5 µg/m^3)
3/21/2019: ND (< 6.5 µg/m^3)

SVMP-21 (2.0 FT)
5/30/2018: ND (< 6.6 µg/m^3)
8/24/2018: ND (< 6.5 µg/m^3)
3/5/2019: ND (< 7.0 µg/m^3)

SVMP-34 (4.0 FT)

SVMP-16 (2.0 FT)
8/24/2018: ND (< 6.8 µg/m^3)

SVMP-33 (4.0 FT)

SVMP-10 (3.0 FT)
8/23/2018: ND (< 6.6 µg/m^3)
11/5/2018: ND (< 6.4 µg/m^3)

SVMP-14 (2.0 FT)
8/24/2018: ND (< 6.4 µg/m^3)
3/5/2019: ND (< 7.2 µg/m^3)

SVMP-37 (2.5 FT)

SVMP-32 (3.0 FT)

SVMP-32 (6.0 FT)

SVMP-27 (4.5 FT)
5/29/2018: ND (< 6.7 µg/m^3)
8/23/2018: ND (< 6.7 µg/m^3)
11/6/2018: ND (< 6.0 µg/m^3)
3/21/2019: ND (< 6.7 µg/m^3)

SVMP-08 (3.5 FT)
5/29/2018: 11 µg/m^3
8/23/2018: ND (< 6.5 µg/m^3)
11/5/2018: ND (< 6.3 µg/m^3)
3/5/2019: ND (< 6.5 µg/m^3)

SVMP-09 (4.0 FT)
5/30/2018: ND (< 6.1 µg/m^3)
8/23/2018: ND (< 6.6 µg/m^3)
11/5/2018: ND (< 5.9 µg/m^3)
3/5/2019: ND (< 6.4 µg/m^3)

SVMP-13 (2.0 FT)
8/24/2018: ND (< 6.5 µg/m^3)

SVMP-15 (2.0 FT)
8/24/2018: ND (< 6.5 µg/m^3)

SVMP-17 (2.0 FT)
5/30/2018: ND (< 6.4 µg/m^3)
8/24/2018: ND (< 6.6 µg/m^3)
3/5/2019: ND (< 6.6 µg/m^3)

SVMP-04 (3.5 FT)
5/30/2018: ND (< 6.5 µg/m^3)
8/23/2018: ND (< 6.6 µg/m^3)
11/5/2018: ND (< 6.9 µg/m^3)
3/5/2019: ND (< 8.1 µg/m^3)

SVMP-05 (4.5 FT)
5/30/2018: ND (< 6.3 µg/m^3)
8/23/2018: ND (< 6.2 µg/m^3)
11/5/2018: ND (< 6.2 µg/m^3)
3/21/2019: ND (< 6.8 µg/m^3)

SVMP-07 (3.5 FT)
5/30/2018: ND (< 6.7 µg/m^3)
8/23/2018: ND (< 6.4 µg/m^3)
11/5/2018: ND (< 6.4 µg/m^3)
3/4/2019: ND (< 6.1 µg/m^3)

SVMP-28 (3.0 FT)
5/29/2018: ND (< 7.1 µg/m^3)
8/23/2018: ND (< 6.3 µg/m^3)
11/6/2018: ND (< 6.4 µg/m^3)
3/21/2019: ND (< 6.7 µg/m^3)

SVMP-35 (4.0 FT)

SVMP-31 (5.5 FT)

SVMP-06 (4.5 FT)
5/30/2018: ND (< 6.4 µg/m^3)
8/23/2018: ND (< 6.2 µg/m^3)
11/5/2018: ND (< 6.0 µg/m^3)
3/21/2019: ND (< 6.7 µg/m^3)

SVMP-30 (4.0 FT)

SVMP-29 (7.5 FT)

SVMP-29 (3.5 FT)

SVMP-02S (4.5 FT)
5/29/2018: ND (< 6.7 µg/m^3)
8/22/2018: ND (< 6.8 µg/m^3)
11/7/2018: ND (< 6.2 µg/m^3)
3/21/2019: ND (< 6.4 µg/m^3)

SVMP-03S (3.5 FT)
5/29/2018: ND (< 7.4 µg/m^3)
8/22/2018: ND (< 6.2 µg/m^3)
11/7/2018: ND (< 6.1 µg/m^3)

SVMP-01S (3.5 FT)
5/29/2018: ND (< 6.6 µg/m^3)
8/22/2018: ND (< 6.6 µg/m^3)
11/6/2018: ND (< 6.3 µg/m^3)
3/4/2019: ND (< 6.1 µg/m^3)

SVMP-03D (7.0 FT)
5/29/2018: ND (< 6.7 µg/m^3)
8/22/2018: ND (< 6.2 µg/m^3)
11/7/2018: ND (< 6.0 µg/m^3)
3/21/2019: ND (< 6.6 µg/m^3)

SVMP-01D (7.0 FT)
5/29/2018: ND (< 6.9 µg/m^3)
8/22/2018: ND (< 6.4 µg/m^3)
11/6/2018: ND (< 6.1 µg/m^3)
3/4/2019: ND (< 6.3 µg/m^3)

SVMP-02D (8.5 FT)
5/29/2018: ND (< 6.9 µg/m^3)
8/22/2018: ND (< 6.6 µg/m^3)
11/7/2018: ND (< 6.3 µg/m^3)
3/5/2019: ND (< 6.4 µg/m^3)

ROSATI AVE
CONCORD ST
CAPITOL ST
STARK RD
BEACON ST
BOSTON POST ST
BREWSTER ST
WADSWORTH ST
BELDEN CT
STANDISH ST
PRISCILLA LN
WAYNE RD
LAUREL ST
PLYMOUTH RD

LEGEND

- PROPERTY BOUNDARIES
- FORD PROPERTY BOUNDARY
- OFF-SITE SVMP TRICHLOROETHENE < 67 µg/m^3
- OFF-SITE SVMP NOT SAMPLED FOR TRICHLOROETHENE

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (MAY 2018, AUGUST 2018, NOVEMBER 2018, AND MARCH2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/m^3 - MICROGRAMS PER CUBIC METER

THE EGLE PROVIDED RESIDENTIAL VOLATILIZATION TO INDOOR AIR SOIL VAPOR SCREENING LEVEL FOR TRICHLOROETHENE IS 67 µg/m.^{3}

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

FT = FEET BELOW GROUND SURFACE

"ND", "<" = NON-DETECT INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR TRICHLOROETHENE.

SVMP = SOIL VAPOR MONITORING POINT

SVMP-29 THROUGH 37 WERE NOT SAMPLED DURING THE MAY 2018, AUGUST 2018, NOVEMBER 2018, OR MARCH 2019 SAMPLING EVENTS.

SVMP-10, SVMP-13 THROUGH SVMP-16, SVMP-19, SVMP-22, AND SVMP-23 WERE NOT SAMPLED DURING THE MAY 2018 SAMPLING EVENT DUE TO SATURATED SCREENS. SVMP-20 WAS NOT SAMPLED DURING THE MAY 2018 SAMPLING EVENT DUE TO A BLOCKAGE IN THE TUBING.

SVMP-11, WHICH RESIDED IN THE CITY OF LIVONIA RIGHT-OF-WAY, WAS REMOVED PER THE ADJACENT PROPERTY OWNERS REQUEST.

SVMP-13 THROUGH SVMP-17, AND SVMP-19 THROUGH SVMP-21 WERE NOT SAMPLED DURING THE NOVEMBER 2018 SAMPLING EVENT DUE TO SATURATED SCREENS.

SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, AND SVMP-23 WERE NOT SAMPLED DURING THE MARCH 2019 SAMPLING EVENT DUE TO SATURATED SCREENS.SVMP-03S WAS NOT SAMPLED DURING MARCH 2019 SAMPLING EVENT DUE TO TECHNICAL DIFFICULTIES WITH THE CANISTER.

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE VAPOR INTRUSION ASSESSMENT TRICHLOROETHENE IN SOIL VAPOR

ARCADIS Design & Consultancy for natural and built assets

FIGURE
14

CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY TM: R. WISMAN TR: M.WACKSMAN PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MIFord\LivoniaGIS\docs\GEC\1Q_2019\Figure 15 - Off-Site SVMP TCE.mxd PLOTTED: 4/30/2019 3:29:47 AM BY: mayyar7350

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

SVMP-25S (3.0 FT)
5/29/2018: ND (< 3.2 µg/m^3)
8/23/2018: ND (< 3.2 µg/m^3)
11/6/2018: ND (< 3.0 µg/m^3)
3/21/2019: ND (< 3.2 µg/m^3)

SVMP-25D (6.0 FT)
5/29/2018: ND (< 3.3 µg/m^3)
8/23/2018: ND (< 3.0 µg/m^3)
11/6/2018: ND (< 3.0 µg/m^3)
3/21/2019: ND (< 3.3 µg/m^3)

SVMP-22 (3.0 FT)
8/21/2018: ND (< 3.0 µg/m^3)
11/5/2018: ND (< 3.0 µg/m^3)
3/5/2019: ND (< 3.1 µg/m^3)

SVMP-23 (3.0 FT)
8/22/2018: ND (< 3.0 µg/m^3)
11/5/2018: ND (< 2.9 µg/m^3)

SVMP-24 (4.0 FT)
5/30/2018: ND (< 3.0 µg/m^3)
8/22/2018: ND (< 3.0 µg/m^3)
11/5/2018: ND (< 2.9 µg/m^3)
3/21/2019: ND (< 3.1 µg/m^3)

ROSATI AVE

CONCORD ST

SVMP-26 (4.0 FT)
5/29/2018: ND (< 3.2 µg/m^3)
8/23/2018: ND (< 3.0 µg/m^3)
11/6/2018: ND (< 3.2 µg/m^3)
3/21/2019: ND (< 3.2 µg/m^3)

SVMP-19 (3.0 FT)
8/22/2018: ND (< 2.9 µg/m^3)
3/5/2019: ND (< 3.1 µg/m^3)

SVMP-36 (4.0 FT)

SVMP-18 (3.0 FT)
5/30/2018: ND (< 3.0 µg/m^3)
8/22/2018: ND (< 3.3 µg/m^3)
11/7/2018: ND (< 2.9 µg/m^3)
3/5/2019: ND (< 3.6 µg/m^3)

SVMP-20 (3.0 FT)
8/22/2018: ND (< 3.0 µg/m^3)

CAPITOL ST

SVMP-12 (3.5 FT)
5/29/2018: ND (< 3.1 µg/m^3)
8/23/2018: ND (< 3.0 µg/m^3)
11/6/2018: ND (< 3.1 µg/m^3)
3/21/2019: ND (< 3.1 µg/m^3)

SVMP-21 (2.0 FT)
5/30/2018: ND (< 3.1 µg/m^3)
8/24/2018: ND (< 3.1 µg/m^3)
3/5/2019: ND (< 3.3 µg/m^3)

SVMP-34 (4.0 FT)

SVMP-33 (4.0 FT)

SVMP-37 (2.5 FT)

STARK RD

SVMP-27 (4.5 FT)
5/29/2018: ND (< 3.2 µg/m^3)
8/23/2018: ND (< 3.2 µg/m^3)
11/6/2018: ND (< 2.9 µg/m^3)
3/21/2019: ND (< 3.2 µg/m^3)

SVMP-32 (3.0 FT)

SVMP-13 (2.0 FT)
8/24/2018: ND (< 3.1 µg/m^3)

SVMP-15 (2.0 FT)
8/24/2018: ND (< 3.1 µg/m^3)

SVMP-17 (2.0 FT)
5/30/2018: ND (< 3.1 µg/m^3)
8/24/2018: ND (< 3.2 µg/m^3)
3/5/2019: ND (< 3.1 µg/m^3)

SVMP-32 (6.0 FT)

BEACON ST

SVMP-16 (2.0 FT)
8/24/2018: ND (< 3.2 µg/m^3)

SVMP-08 (3.5 FT)
5/29/2018: ND (< 3.2 µg/m^3)
8/23/2018: ND (< 3.1 µg/m^3)
11/5/2018: ND (< 3.0 µg/m^3)
3/5/2019: ND (< 3.1 µg/m^3)

SVMP-09 (4.0 FT)
5/30/2018: ND (< 2.9 µg/m^3)
8/23/2018: ND (< 3.2 µg/m^3)
11/5/2018: ND (< 2.8 µg/m^3)
3/5/2019: ND (< 3.0 µg/m^3)

SVMP-10 (3.0 FT)
8/23/2018: ND (< 3.2 µg/m^3)
11/5/2018: ND (< 3.0 µg/m^3)

SVMP-14 (2.0 FT)
8/24/2018: ND (< 3.0 µg/m^3)
3/5/2019: ND (< 3.4 µg/m^3)

BREWSTER ST

SVMP-04 (3.5 FT)
5/30/2018: ND (< 3.1 µg/m^3)
8/23/2018: ND (< 3.2 µg/m^3)
11/5/2018: ND (< 3.3 µg/m^3)
3/5/2019: ND (< 3.8 µg/m^3)

SVMP-07 (3.5 FT)
5/30/2018: ND (< 3.2 µg/m^3)
8/23/2018: ND (< 3.0 µg/m^3)
11/5/2018: ND (< 3.1 µg/m^3)
3/4/2019: ND (< 2.9 µg/m^3)

SVMP-06 (4.5 FT)
5/30/2018: ND (< 3.0 µg/m^3)
8/23/2018: ND (< 2.9 µg/m^3)
11/5/2018: ND (< 2.9 µg/m^3)
3/21/2019: ND (< 3.2 µg/m^3)

BELDEN CT

SVMP-28 (3.0 FT)
5/29/2018: ND (< 3.4 µg/m^3)
8/23/2018: ND (< 3.0 µg/m^3)
11/6/2018: ND (< 3.0 µg/m^3)
3/21/2019: ND (< 3.2 µg/m^3)

SVMP-05 (4.5 FT)
5/30/2018: ND (< 3.0 µg/m^3)
8/23/2018: ND (< 3.0 µg/m^3)
11/5/2018: ND (< 2.9 µg/m^3)
3/21/2019: ND (< 3.2 µg/m^3)

SVMP-30 (4.0 FT)

WADSWORTH ST

SVMP-35 (4.0 FT)

SVMP-31 (5.5 FT)

BOSTON POST ST

SVMP-29 (7.5 FT)

SVMP-02S (4.5 FT)
5/29/2018: ND (< 3.2 µg/m^3)
8/22/2018: ND (< 3.2 µg/m^3)
11/7/2018: ND (< 3.0 µg/m^3)
3/21/2019: ND (< 3.0 µg/m^3)

SVMP-29 (3.5 FT)

SVMP-01D (7.0 FT)
5/29/2018: ND (< 3.3 µg/m^3)
8/22/2018: ND (< 3.0 µg/m^3)
11/6/2018: ND (< 2.9 µg/m^3)
3/4/2019: ND (< 3.0 µg/m^3)

SVMP-03S (3.5 FT)
5/29/2018: ND (< 3.5 µg/m^3)
8/22/2018: ND (< 3.0 µg/m^3)
11/7/2018: ND (< 2.9 µg/m^3)

PRISCILLA LN

SVMP-01S (3.5 FT)
5/29/2018: ND (< 3.1 µg/m^3)
8/22/2018: ND (< 3.1 µg/m^3)
11/6/2018: ND (< 3.0 µg/m^3)
3/4/2019: ND (< 2.9 µg/m^3)

SVMP-02D (8.5 FT)
5/29/2018: ND (< 3.3 µg/m^3)
8/22/2018: ND (< 3.2 µg/m^3)
11/7/2018: ND (< 3.0 µg/m^3)
3/5/2019: ND (< 3.1 µg/m^3)

SVMP-03D (7.0 FT)
5/29/2018: ND (< 3.2 µg/m^3)
8/22/2018: ND (< 3.0 µg/m^3)
11/7/2018: ND (< 2.8 µg/m^3)
3/21/2019: ND (< 3.1 µg/m^3)

PLYMOUTH RD

WAYNE RD

LAUREL ST

LEGEND

- PROPERTY BOUNDARIES
- FORD PROPERTY BOUNDARY
- OFF-SITE SVMP VINYL CHLORIDE < 54 µg/m^3
- OFF-SITE SVMP NOT SAMPLED FOR VINYL CHLORIDE

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (MAY 2018, AUGUST 2018, NOVEMBER 2018, AND MARCH 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/m^3 - MICROGRAMS PER CUBIC METER

THE EGLE PROVIDED RESIDENTIAL VOLATILIZATION TO INDOOR AIR SOIL VAPOR SCREENING LEVEL FOR VINYL CHLORIDE IS 54 µg/m.^{3}

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

FT = FEET BELOW GROUND SURFACE

"ND", "<" = NON-DETECT INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR VINYL CHLORIDE.

SVMP = SOIL VAPOR MONITORING POINT

SVMP-29 THROUGH 37 WERE NOT SAMPLED DURING THE MAY 2018, AUGUST 2018, NOVEMBER 2018, OR MARCH 2019 SAMPLING EVENTS.

SVMP-10, SVMP-13 THROUGH SVMP-16, SVMP-19, SVMP-22, AND SVMP-23 WERE NOT SAMPLED DURING THE MAY 2018 SAMPLING EVENT DUE TO SATURATED SCREENS. SVMP-20 WAS NOT SAMPLED DURING THE MAY 2018 SAMPLING EVENT DUE TO A BLOCKAGE IN THE TUBING.

SVMP-11, WHICH RESIDED IN THE CITY OF LIVONIA RIGHT-OF-WAY, WAS REMOVED PER THE ADJACENT PROPERTY OWNERS REQUEST.

SVMP-13 THROUGH SVMP-17, AND SVMP-19 THROUGH SVMP-21 WERE NOT SAMPLED DURING THE NOVEMBER 2018 SAMPLING EVENT DUE TO SATURATED SCREENS.

SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, AND SVMP-23 WERE NOT SAMPLED DURING THE MARCH 2019 SAMPLING EVENT DUE TO SATURATED SCREENS.SVMP-03S WAS NOT SAMPLED DURING MARCH 2019 SAMPLING EVENT DUE TO TECHNICAL DIFFICULTIES WITH THE CANISTER.

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

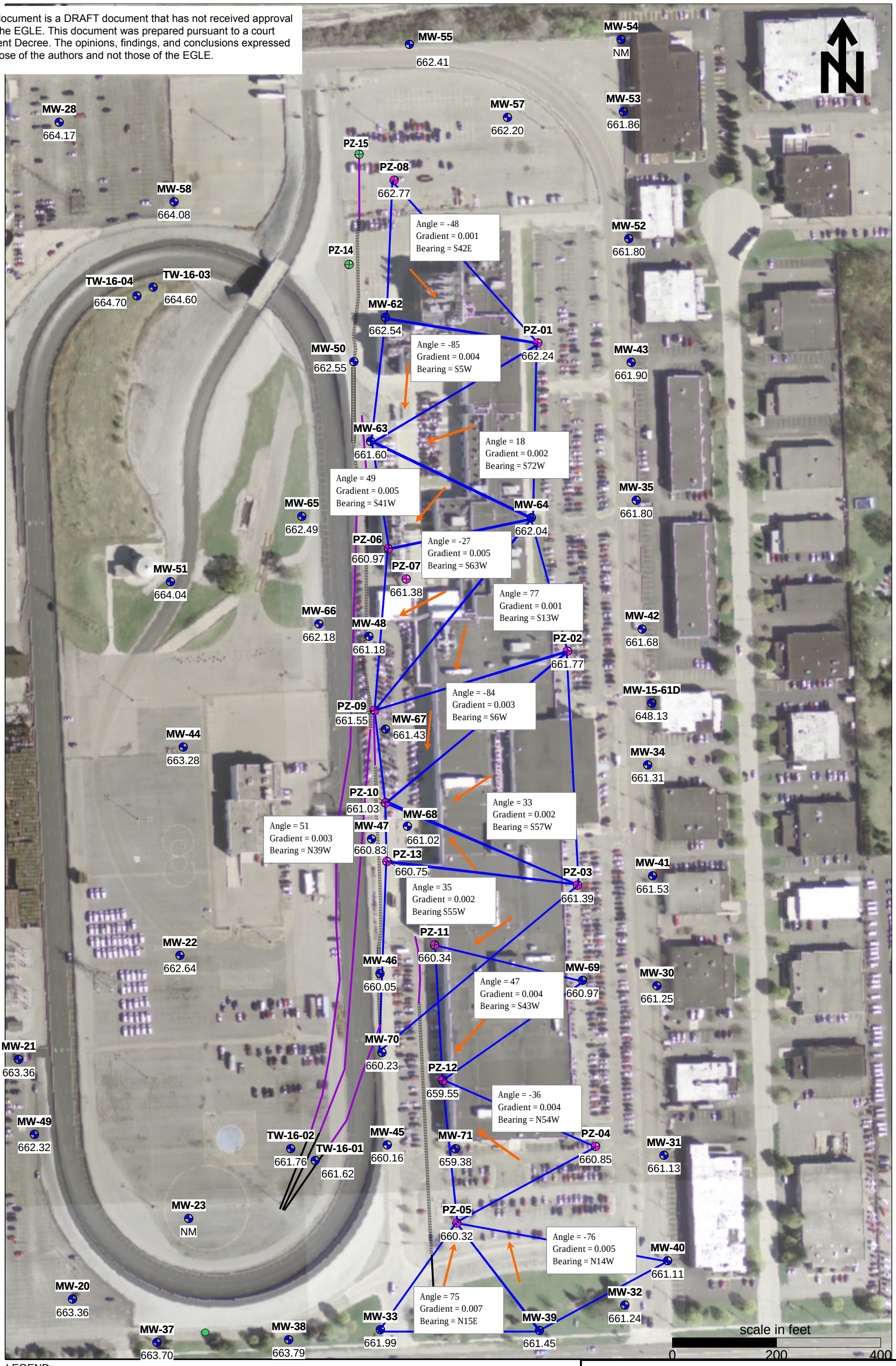
OFF-SITE VAPOR INTRUSION ASSESSMENT
VINYL CHLORIDE IN SOIL VAPOR

ARCADIS Design & Consultancy for natural and built assets

FIGURE
15

CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY TM: R. WISMAN TR: M.WACKSMAN PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\Novi\Brighton_MI\Ford\Livonia\GIS\docs\GEC\1Q_2019\Figure 16 - Off-Site SVMP VC.mxd PLOTTED: 4/30/2019 3:12:08 AM BY: mayyar7350

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.



LEGEND:

- **MW-32** LOCATION ID
- MONITORING WELL
- PIEZOMETER
- PIEZOMETER INSTALLED IN APRIL 2019 (APPROXIMATE LOCATION)
- **661.63** GROUNDWATER ELEVATION (ft amsl)
- WELL TRIPLET PLANE WITH HYDRAULIC GRADIENT DIRECTION
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH HDPE)
- WELL BLANK CASING (6-INCH HDPE)

Notes:
1. All elevations collected on February 22, 2019 and measured from top of well casing.
2. All elevations are referenced to a mean sea level datum and are in units of feet above sea level (ft amsl).
3. NM - not measured
4. HDPE - high density polyethylene

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

Hydraulic Gradient Map
February 2019

ARCADIS Design & Consultancy for natural and built assets

FIGURE
16

APPENDICES

APPENDIX A

Off-Site Residential Monitoring Wells

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CITY: Novi DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY PROJECT NUMBER: MI001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
\\corpstorage\Data\ArcGisData\GISProjects_ENV\NoviBrighton_MI\FordLivonia\GIS\docs\2019-03\Offsite_MW_Install_Completed_ContoursUpdatedSurvey.mxd PLOTTED: 3/14/2019 11:19:19 AM BY: dolexa

MW-102 MW-102S MW-105S MW-131S MW-132S
1.7 µg/L VC
ROSATI AVE
7.8 µg/L VC
MW-85S MW-142S
ROSATI AVE
MW-72S
STARK RD
CONCORD ST
MW-103S MW-90S
MW-83S
MW-168S MW-169S
MW-171S MW-128S
MW-160S
1.1 µg/L VC
MW-137S MW-148S MW-136S MW-146S MW-107S
1.2 µg/L VC
MW-141S
MW-151S
MW-95S MW-118S
BOSTON POST ST
3.2 µg/L VC
MW-147S MW-145S
MW-123S MW-80SR
CAPITOL ST
1.7 µg/L VC
MW-73SR MW-73D
BELDEN CT
MW-79SR MW-156S
1.1 µg/L VC
1.4 µg/L VC
1.4 µg/L VC
MW-82SR
MW-149S
MW-150S
MW-133S
MW-143S
MW-117S
2.7 µg/L VC
MW-115S
MW-153S
MW-152S
MW-89S
MW-127S
MW-158S
MW-140S
MW-130S
1.5 µg/L VC
MW-111S
MW-134S
MW-74 MW-74S
MW-157S
MW-154S
MW-138S
MW-135S
MW-109S
MW-155S
MW-159S
MW-139S
MW-78S
MW-98S
1.7 µg/L VC
MW-106S
MW-81S
BEACON ST
MW-84S
BEACON ST
MW-92S
MW-161S MW-119S
MW-163S
MW-167S
BEACON ST
MW-164S
MW-170S
MW-162S
MW-91S
BOSTON POST ST
MW-99S
MW-175S
MW-179S
MW-177S
BREWSTER ST
MW-174S
MW-178S
STARK RD
MW-181S
WADSWORTH ST
MW-86S
MW-96S
WADSWORTH ST
MW-112S
MW-176S
MW-75SR
MW-180SR
MW-116S
MW-93S
MW-121S
MW-88S
MW-77S
MW-94S
MW-173S
MW-97S
MW-172S
MW-126S
MW-104S
BOSTON POST ST
MW-182S
MW-183S
MW-110S
MW-100S
MW-87
MW-87S
STANDISH ST
BOSTON POST ST
BELDEN CT
PRISCILLA LN
STARK RD
MW-101S
MW-76S
MW-76
PLYMOUTH RD
PLYMOUTH RD
WAYNE RD
PLYMOUTH RD
PLYMOUTH RD
STARK RD

LEGEND

GROUNDWATER QUALITY DATA

- RESULT EITHER NON-DETECT OR DETECTED BELOW THE MOST RESTRICTIVE CRITERIA
- RESULT EXCEEDS MOST RESTRICITIVE CRITERIA FOR AT LEAST ONE COMPOUND. HIGHLIGHTED ORANGE EXCEEDS MOST RESTRICTIVE CRITERIA (TDL OF 1.0 µg/L FOR VC)

BOUNDARIES

- PROPERTY BOUNDARY
- FORD PROPERTY BOUNDARY

NOTES:
COMPLETED MONITORING WELL LOCATIONS ESTIMATED BASED ON FIELD OBSERVATION. LOCATIONS WILL BE UPDATED FOLLOWING FINAL FIELD SURVEY.

VC - VINYL CHLORIDE

0 250 500
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

1Q 2019 SHALLOW MONITORING WELL RESULTS

ARCADIS Design & Consultancy for natural and built assets

APPENDIX
A

Appendix A – Summary of 1Q 2019 Off-Site Shallow Groundwater Sampling Results
Ford Livonia Transmission Plant

					Location:	MW-72	MW-72	MW-72	MW-72	MW-72S	MW-73D	MW-73D	MW-73D	MW-73D	MW-73S	MW-73S	MW-73S	MW-73S	MW-73SR
					Date:	2/6/2018	5/9/2018	8/10/2018	10/22/2018	12/17/2018	2/6/2018	5/9/2018	8/10/2018	10/22/2018	2/6/2018	5/9/2018	8/10/2018	10/22/2018	12/17/2018
					Sample Name:	MW-72-020618	MW-72_050818	MW-72_081018	MW-72_102218	MW-72S-121718	MW-73D-020618	MW-73D_050918	MW-73D_081018	MW-73D_102218	MW-73S-020618	MW-73S_050818	MW-73S_081018	MW-73S_102218	MW-73SR-121718
					Screen Interval (ft. bgs):	15-20	15-20	15-20	15-20	3-13	13.5-18.5	13.5-18.5	13.5-18.5	13.5-18.5	7-12	7-12	7-12	7-12	2.5-12.5
					Lab SDG #:	91361-1	95403-1	99859-1	103231-1	106083-1	91361-1	95547-1	99859-1	103231-1	91361-1	95403-1	99859-1	103231-1	106083-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP_ Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	0.78 J	0.32 J	1.1 J	1.4 J	< 2.0	1.5 J	3.0	1.9 J	3.8	< 2.0	< 2.0	< 2.0	0.86 J	0.87 J
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.43 J	0.35 J	0.56 J	0.19 J	1.3	1.3	1.5	1.7	2.3
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	0.43 J
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.33 J	0.38 J	0.51 J	0.46 J	0.29 J
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	1.3	1.5 J	1.2	1.1	< 1.0	0.79 J	0.80 J	0.75 J	< 1.0	1.1	1.2	0.62 J	0.96 J	1.7

					Location:	MW-74	MW-74	MW-74	MW-74	MW-74S	MW-75D	MW-75D	MW-75D	MW-75D	MW-75S	MW-75S	MW-75S	MW-75S	MW-75SR
					Date:	2/6/2018	5/9/2018	8/9/2018	10/22/2018	12/21/2018	2/6/2018	5/9/2018	8/9/2018	10/22/2018	2/6/2018	5/9/2018	8/9/2018	10/22/2018	12/18/2018
					Sample Name:	MW-74-020618	MW-74_050918	MW-74_080918	MW-74_102218	MW-74S-122118	MW-75D-020618	MW-75D_050918	MW-75D_080918	MW-75D_102218	MW-75S-020618	MW-75S_050918	MW-75S_080918	MW-75S_102218	MW-75 SR-121818
					Screen Interval (ft. bgs):	14-19	14-19	14-19	14-19	3-13	12-17	12-17	12-17	12-17	5-10	5-10	5-10	5-10	2.5-12.5
					Lab SDG #:	91361-1	95547-1	99859-1	103231-1	106317-1	91361-1	95547-1	99859-1	103231-1	91361-1	95547-1	99859-1	103231-1	106083-2
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP_ Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	0.66 J	0.34 J	1.6 J	2.0	< 2.0	0.91 J	0.65 J	2.0	2.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	0.42 J	0.96 J	0.41 J	0.45 J	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	2.0	0.70 J	2.8	2.2	< 1.0	1.9	2.4	1.8	1.7	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0

					Location:	MW-76	MW-76	MW-76	MW-76	MW-76S	MW-77	MW-77	MW-77	MW-77	MW-77S	MW-78	MW-78	MW-78	MW-78
					Date:	2/6/2018	5/10/2018	8/9/2018	10/22/2018	12/21/2018	2/8/2018	5/11/2018	8/6/2018	10/23/2018	12/27/2018	2/8/2018	5/8/2018	8/6/2018	10/22/2018
					Sample Name:	MW-76-020618	MW-76_051018	MW-76_080918	MW-76_102218	MW-76S-MS/MSD-122118	MW-77_020818	MW-77_051118	MW-77_080618	MW-77_102318	MW-77S_122718	MW-78_020818	MW-78_050818	MW-78_080618	MW-78_102218
					Screen Interval (ft. bgs):	15-20	15-20	15-20	15-20	4.5-14.5	9-14	9-14	9-14	9-14	2.5-12.5	7-12	7-12	7-12	7-12
					Lab SDG #:	91361-1	95547-1	99859-1	103231-1	106318-1	91428-1	95547-1	99575-1	103472-1	106464-1	91428-1	95403-1	99575-1	103230-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP_ Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	1.0 J	< 2.0	< 2.0	0.27 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.90 J
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	2.2	2.6	2.2	1.8	< 1.0	0.66 J	0.54 J	0.61 J	0.74 J	< 1.0	< 1.0	< 1.0	0.28 J	0.26 J
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	0.35 J	0.35 J	0.25 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
All units are measured in micrograms per liter.

Abbreviations:

ft bgs	Feet below ground surface
J	Estimated value
<	Less than

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Appendix A – Summary of 1Q 2019 Off-Site Shallow Groundwater Sampling Results
Ford Livonia Transmission Plant

					Location:	MW-78S	MW-79D	MW-79D	MW-79D	MW-79D	MW-79S	MW-79S	MW-79S	MW-79S	MW-79SR	MW-80S	MW-80S	MW-80S	MW-80S
					Date:	12/19/2018	2/8/2018	5/8/2018	8/6/2018	10/24/2018	2/8/2018	5/8/2018	8/6/2018	10/30/2018	12/19/2018	2/8/2018	5/8/2018	8/6/2018	10/22/2018
					Sample Name:	MW-78S_121918	MW-79D_020818	MW-79D_050818	MW-79D_080618	MW-79_102418	MW-79S_020818	MW-79S_050818	MW-79S_080618	MW-79S_103018	MW-79SR-121918	MW-80S_020818	MW-80S_050818	MW-80S_080618	MW-80S_102218
					Screen Interval (ft. bgs):	2.5-12.5	10-15	10-15	10-15	10-15	5-10	5-10	5-10	5-10	2.5-12.5	7-12	7-12	7-12	7-12
					Lab SDG #:	106260-1	91428-1	95403-1	99575-1	103472-1	91428-1	95403-1	99575-1	103818-1	106257-1	91428-1	95403-1	99575-1	103230-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP_ Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	0.49 J	0.87 J	0.95 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.33 J	0.46 J	< 2.0	1.2 J
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	< 1.0	1.9	3.5	2.8	1.3	< 1.0	< 1.0	< 1.0	< 1.0	0.56 J	2.9	6.3	6.2	4.1

					Location:	MW-80SR	MW-81	MW-81	MW-81	MW-81	MW-81S	MW-82D	MW-82D	MW-82D	MW-82D	MW-82S	MW-82S	MW-82S	MW-82S
					Date:	12/27/2018	2/6/2018	5/10/2018	8/9/2018	10/23/2018	12/26/2018	2/6/2018	5/10/2018	8/8/2018	10/23/2018	2/6/2018	5/10/2018	8/8/2018	10/23/2018
					Sample Name:	MW-80SR_122718	MW-81-020618	MW-81_051018	MW-81_080918	MW-81_102318	MW-81S_122618	MW-82D-020618	MW-82D_051018	MW-82D-080818	MW-82D_102318	MW-82S-020618	MW-82S_051018	MW-82S-080818	MW-82S_102318
					Screen Interval (ft. bgs):	2.5-12.5	8-13	8-13	8-13	8-13	2.5-12.5	18-23	18-23	18-23	18-23	9-14	9-14	9-14	9-14
					Lab SDG #:	106467-1	91361-1	95547-1	99859-1	103472-1	106456-1	91361-1	95547-1	99733-1	103472-1	91361-1	95547-1	99733-1	103472-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP_ Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

					Location:	MW-82SR	MW-83	MW-83	MW-83	MW-83	MW-83S	MW-84	MW-84	MW-84	MW-84	MW-84S	MW-85	MW-85	MW-85
					Date:	12/26/2018	2/8/2018	5/11/2018	8/8/2018	10/22/2018	12/26/2018	2/8/2018	5/8/2018	8/6/2018	10/23/2018	12/21/2018	2/8/2018	5/8/2018	8/8/2018
					Sample Name:	MW-82SR_122618	MW-83_020818	MW-83_051118	MW-83-080818	MW-83_102218	MW-83S-MS/MSD_122618	MW-84_020818	MW-84_050818	MW-84_080618	MW-84_102318	MW-84S-122118	MW-85_020818	MW-85_050818	MW-85-080818
					Screen Interval (ft. bgs):	5-15	8-13	8-13	8-13	8-13	3-13	8-13	8-13	8-13	8-13	2.5-12.5	8-13	8-13	8-13
					Lab SDG #:	106456-1	91428-1	95547-1	99733-1	103230-1	106456-1	91428-1	95403-1	99575-1	103472-1	106318-1	91428-1	95403-1	99733-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP_ Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	0.92 J	< 2.0	< 2.0	< 2.0	< 2.0	0.86 J	< 2.0	0.41 J	0.45 J	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0	< 1.0	0.14 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.5	7.5	7.2

Notes:
All units are measured in micrograms per liter.

Abbreviations:

ft bgs	Feet below ground surface
J	Estimated value
<	Less than

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Appendix A – Summary of 1Q 2019 Off-Site Shallow Groundwater Sampling Results
Ford Livonia Transmission Plant

					Location:	MW-85	MW-85S	MW-86	MW-86	MW-86	MW-86	MW-86S	MW-87	MW-87	MW-87	MW-87	MW-87S	MW-88S	MW-89S
					Date:	10/22/2018	12/21/2018	2/8/2018	5/10/2018	8/6/2018	10/24/2018	12/18/2018	2/8/2018	5/10/2018	8/6/2018	10/23/2018	12/21/2018	12/17/2018	12/19/2018
					Sample Name:	MW-85_102218	MW-85S-122118	MW-86_020818	MW-86_051018	MW-86_080618	MW-86_102418	MW-86S-121818	MW-87_020818	MW-87_051018	MW-87_080618	MW-87_102318	MW-87S-122118	MW-88S-121718	MW-89S-121918
					Screen Interval (ft. bgs):	8-13	2.5-12.5	12-17	12-17	12-17	12-17	2.5-12.5	14-19	14-19	14-19	14-19	4.5-14.5	3-13	3-13
					Lab SDG #:	103230-1	106318-1	91428-1	95547-1	99575-1	103472-1	106083-2	91428-1	95547-1	99575-1	103472-1	106317-1	106083-1	106257-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP_ Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	1.0 J	1.1 J	< 2.0	1.2 J	< 2.0	1.4 J	< 2.0	< 2.0	< 2.0	< 2.0	0.88 J	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	5.5	7.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

					Location:	MW-90S	MW-91S	MW-92S	MW-93S	MW-94S	MW-94S	MW-95S	MW-96S	MW-97S	MW-98S	MW-99S	MW-100S	MW-101S	MW-102
					Date:	12/27/2018	12/28/2018	12/19/2018	12/17/2018	12/21/2018	12/21/2018	12/19/2018	12/18/2018	12/27/2018	12/19/2018	12/21/2018	12/18/2018	12/21/2018	12/19/2018
					Sample Name:	MW-90S_122718	MW-91S_122818	MW-92S-121918	MW-93S-121718	MW-94S-122118	DUP-02-122118	MW-95S-121918	MW-96S-121818	MW-97S_122718	MW-98S_121918	MW-99S-122118	MW-100S-121818	MW-101S-122118	MW-102_121918
					Screen Interval (ft. bgs):	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	3-13	3-13	4.5-14.5	10-15
					Lab SDG #:	106467-1	106462-1	106257-1	106083-1	106317-1	106317-1	106257-1	106083-2	106464-1	106260-1	106317-1	106083-2	106318-1	106260-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP_ Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.0 J	< 2.0	1.7 J
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	0.16 J	0.18 J	< 1.0	< 1.0	< 1.0	< 1.0	0.94 J	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0	0.22 J	< 1.0	1.6

					Location:	MW-102	MW-102S	MW-102S	MW-103S	MW-104S	MW-105S	MW-105S	MW-106S	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	MW-112S
					Date:	2/25/2019	12/19/2018	2/25/2019	2/5/2019	2/5/2019	12/26/2018	2/25/2019	12/19/2018	12/26/2018	12/26/2018	12/28/2018	2/5/2019	2/4/2019	12/28/2018
					Sample Name:	MW-102_022519	MW-102S_121918	MW-102S_022519	MW-103S-020519	MW-104S-020519	MW-105S_122618	MW-105S_022519	MW-106S_121918	MW-107S_122618	MW-108S_122618	MW-109S_122818	MW-110S-020519	MW-111S_020419	MW-112S_122818
					Screen Interval (ft. bgs):	10-15	2.5-12.5	2.5-12.5	2-7	9-14	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	8-13	8-13	2.5-12.5
					Lab SDG #:	108565-1	106260-1	108565-1	107779-1	107781-1	106468-1	108565-1	106260-1	106456-1	106468-1	106461-1	107782-1	107780-1	106461-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP_ Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	1.3 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.90 J	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.45 J	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	1.7	< 1.0	< 1.0	0.58 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	< 1.0	< 1.0

Notes:
All units are measured in micrograms per liter.

Abbreviations:

ft bgs	Feet below ground surface
J	Estimated value
<	Less than

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Appendix A – Summary of 1Q 2019 Off-Site Shallow Groundwater Sampling Results
Ford Livonia Transmission Plant

					Location:	MW-115S	MW-116S	MW-117S	MW-118S	MW-118S	MW-119S	MW-121S	MW-123S	MW-123S	MW-126S	MW-127S	MW-128S	MW-128S	MW-130S
					Date:	12/26/2018	12/26/2018	12/26/2018	12/27/2018	12/27/2018	12/27/2018	12/27/2018	12/28/2018	12/28/2018	12/27/2018	12/28/2018	12/27/2018	12/27/2018	12/28/2018
					Sample Name:	MW-115S_122618	MW-116S_122618	MW-117S_122618	MW-118S_122718	DUP-04_122718	MW-119S_122718	MW-121S_122718	MW-123S_122818	DUP-05_122818	MW-126S_122718	MW-127S_122818	MW-128S_122718	DUP-03_122718	MW-130S_122818
					Screen Interval (ft. bgs):	2.5-12.5	3-13	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	3-13	3-13	4-14	4-14	3-13
					Lab SDG #:	106465-1	106465-1	106465-1	106466-1	106466-1	106466-1	106466-1	106463-1	106463-1	106464-1	106462-1	106467-1	106467-1	106463-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP_ Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	2.7	< 1.0	0.92 J	0.68 J	0.74 J	< 1.0	< 1.0	4.6	3.2	< 1.0	1.5	< 1.0	< 1.0	1.1

					Location:	MW-131S	MW-132S	MW-133S	MW-134S	MW-135S	MW-136S	MW-137S	MW-138S	MW-139S	MW-140S	MW-141S	MW-142S	MW-143S	MW-145S
					Date:	12/26/2018	12/26/2018	2/14/2019	2/14/2019	2/14/2019	2/19/2019	2/23/2019	2/19/2019	2/26/2019	2/26/2019	2/27/2019	2/25/2019	2/20/2019	2/20/2019
					Sample Name:	MW-131S_122618	MW-132S_122618	MW-133S_021419	MW-134S_021419	MW-135S_021419	MW-136S_021919	MW-137S-022319	MW-138S-021919	MW-139S-022619	MW-140S-022619	MW-141S_022719	MW-142S_022519	MW-143S-022019	MW-145S-022019
					Screen Interval (ft. bgs):	2.5-12.5	2.5-12.5	4-9	5-10	5-10	2-7	2-7	2-7	2-7	2-7	3-8	2.5-7.5	5.5-10.5	6-11
					Lab SDG #:	106468-1	106468-1	108101-1	108101-1	108101-1	108389-1	108500-1	108384-1	108628-1	108630-1	108722-1	108560-1	108383-1	108385-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP_ Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	1.0 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	0.98 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

					Location:	MW-146S	MW-147S	MW-148S	MW-149S	MW-150S	MW-151S	MW-152S	MW-153S	MW-154S	MW-155S	MW-155S	MW-156S	MW-158S	MW-159S
					Date:	2/20/2019	2/20/2019	2/23/2019	2/21/2019	2/25/2019	2/23/2019	2/21/2019	2/21/2019	2/21/2019	2/26/2019	2/26/2019	2/27/2019	2/22/2019	2/22/2019
					Sample Name:	MW-146S-022019	MW-147S-022019	MW-148S-022319	MW-149S-022119	MW-150S_022519	MW-151S-022319	MW-152S-022119	MW-153S-022119	MW-154S-022119	MW-155S-022619	DUP-03-022619	MW-156S_022719	MW-158S-022219	MW-159S-022219
					Screen Interval (ft. bgs):	6-11	2-7	2-7	2-7	2-7	2.5-7.5	2.5-7.5	2-7	2-7	2-7	2-7	3-8	2.5-7.5	4-9
					Lab SDG #:	108387-1	108386-1	108504-1	108469-1	108559-1	108502-1	108464-1	108463-1	108462-1	108631-1	108631-1	108723-1	108465-1	108467-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP_ Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	0.23 J	0.38 J	0.94 J	1.4	0.46 J	1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
All units are measured in micrograms per liter.

Abbreviations:

ft bgs	Feet below ground surface
J	Estimated value
<	Less than

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Appendix A – Summary of 1Q 2019 Off-Site Shallow Groundwater Sampling Results
Ford Livonia Transmission Plant

					Location:	MW-160S	MW-161S	MW-162S	MW-163S	MW-163S	MW-164S	MW-167S	MW-168S
					Date:	2/27/2019	2/27/2019	2/28/2019	2/28/2019	2/28/2019	2/22/2019	2/25/2019	2/25/2019
					Sample Name:	MW-160S_022719	MW-161S_022719	MW-162S-022819	MW-163S-022819	DUP-04-022819	MW-164S-022219	MW-167S_022519	MW-168S_022519
					Screen Interval (ft. bgs):	4-9	2.5-7.5	3-8	2-7	2-7	3-8	5-10	2-7
					Lab SDG #:	108721-1	108720-1	108810-1	108808-1	108808-1	108468-1	108557-1	108561-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP_Offsite Res DW	MI GW (DEQ2018) NON-RES DW								
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

					Location:	MW-169S	MW-170S	MW-171S	MW-172S	MW-173S	MW-174S	MW-175S	MW-176S
					Date:	2/25/2019	3/6/2019	2/23/2019	2/28/2019	2/28/2019	2/28/2019	3/1/2019	3/5/2019
					Sample Name:	MW-169S_022519	MW-170S_030619	MW-171S-022319	MW-172S-022819	MW-173S-022819	MW-174S-022819	MW-175S-030119	MW-176S_030519
					Screen Interval (ft. bgs):	2-7	4.5-9.5	2-7	4.5-9.5	5.5-10.5	5.5-10.5	6-11	5-10
					Lab SDG #:	108555-1	109088-1	108503-1	108806-1	108812-1	108804-1	108807-1	109011-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP_Offsite Res DW	MI GW (DEQ2018) NON-RES DW								
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.14 J	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	0.21 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

					Location:	MW-177S	MW-178S	MW-179S	MW-181S	MW-182S	MW-182S	MW-183S
					Date:	3/5/2019	3/4/2019	3/4/2019	3/4/2019	3/5/2019	3/5/2019	3/1/2019
					Sample Name:	MW-177S_030519	MW-178S_030419	MW-179S_030419	MW-181S_030419	MW-182S_030519	DUP-05_030519	MW-183S-030119
					Screen Interval (ft. bgs):	4-9	4.5-9.5	6-11	3.5-8.5	4-9	4-9	8-13
					Lab SDG #:	109013-1	108923-1	108922-1	108920-1	109010-1	109010-1	108813-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP_Offsite Res DW	MI GW (DEQ2018) NON-RES DW							
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
All units are measured in micrograms per liter.

Abbreviations:

ft bgs	Feet below ground surface
J	Estimated value
<	Less than

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APPENDIX B

On-Site Groundwater Field Sampling Logs

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/25/2019
Site/Well No.	MW-22	Replicate No.	--	Code No.	--
Weather	19F, windy	Sampling Time:	Begin 11:36	End	11:36

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	10.6
MP Elevation (ft)	NA	CND (mS/cm)	13.89
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.53
Sounded Well Depth (ft bmp)	20.45	pH (s.u.)	7.15
Depth to Water (ft bmp)	7.5	ORP (mV)	204.8
Water-Level Elevation (ft)	NA	Turbidity (NTU)	13.40
Water Column in Well (ft)	12.95	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	2.1		
Volume Pumped/Bailed Prior to Sampling	4.07 gallons		
Sample Pump Intake Setting (ft bmp)	19.00	Sampling Method	Low-Flow
Purge Time	begin 10:36 end 11:36	Remarks	
Pumping Rate (ml/min)	256.8181818		Missing cover
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-22 PROJ #: MI001454.0006.00003

DATE : 2/25/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
10:36	11.0	16.28	0.08	7.13	242.0	300	35.2	7.73
10:44	10.7	15.93	0.66	7.14	238.1	250	26.9	7.73
10:48	10.8	15.65	0.11	7.15	233.7	275	667	7.76
10:53	10.8	15.21	1.86	7.15	228.8	250	13.6	7.76
10:58	11.1	14.68	1.49	7.15	224.6	250	12	7.76
11:03	11.3	14.36	1.02	7.14	220.9	250	8.54	7.77
11:10	11.1	14.14	0.88	7.14	216.5	250	7.12	7.75
11:16	11.2	13.94	0.69	7.14	213.4	250	5.57	7.78
11:21	11.3	13.88	0.61	7.14	211.1	250	4.83	7.76
11:25	11.2	13.89	0.85	7.14	208.7	250	4.57	7.75
11:36	10.6	13.89	0.53	7.15	204.8	250	13.4	7.69
Total Depth of Well:		20.45						
Depth To Water Before Purging:			7.73					
Depth To Water After Purging:			7.69					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/25/2019
Site/Well No.	MW-44	Replicate No.	--	Code No.	--
Weather	19F, partly sunny, windy	Sampling Time:	Begin 13:14	End	13:14

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	20.72		
Depth to Water (ft bmp)	8.19		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	12.53		
Casing Diameter/Type	2"	PVC	
Gallons in Well	2.04		
Volume Pumped/Bailed Prior to Sampling	2.97 gallons		
Sample Pump Intake Setting (ft bmp)	18.50		
Purge Time	begin 12:14	end 13:14	
Pumping Rate (ml/min)	187.5		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	10.6
CND (mS/cm)	5.78
Dissolved Oxygen (mg/L)	0.09
pH (s.u.)	7.36
ORP (mV)	-30.7
Turbidity (NTU)	5.02
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	Missing bolts, bad rubber seal

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-44 PROJ #: MI001454.0006.00003

DATE : 2/25/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
12:14	10.3	7.64	0.34	7.29	206.4	200	41.9	8.19
12:18	10.9	7.67	0.19	7.28	158.2	200	29	8.37
12:23	10.7	5.62	0.15	7.30	129.1	200	24.5	8.36
12:29	10.6	5.58	0.12	7.32	92.0	200	15.8	8.36
12:34	10.5	5.56	0.12	7.33	65.0	200	12.4	8.36
12:39	10.6	5.58	0.12	7.34	47.9	175	9.93	8.36
12:44	10.3	5.60	0.12	7.35	19.5	200	8.4	8.34
12:50	10.4	5.64	0.12	7.35	12.6	175	9.85	8.34
12:55	10.5	5.70	0.10	7.35	-2.3	175	7.18	8.34
13:00	10.5	5.72	0.10	7.35	-13.0	175	6.89	8.35
13:05	10.7	5.77	0.09	7.36	-22.8	175	7.6	8.35
13:14	10.6	5.78	0.09	7.36	-30.7	175	5.02	8.35
Total Depth of Well:		20.72						
Depth To Water Before Purgin			8.19					
Depth To Water After Purging:			8.35					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/25/2019
Site/Well No.	PW-16-02	Replicate No.	--	Code No.	--
Weather	23F, sunny, windy	Sampling Time:	Begin 15:43	End	15:43

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	8.9
MP Elevation (ft)	NA	CND (mS/cm)	0.72
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.36
Sounded Well Depth (ft bmp)	23.69	pH (s.u.)	6.88
Depth to Water (ft bmp)	5.29	ORP (mV)	196.6
Water-Level Elevation (ft)	NA	Turbidity (NTU)	5.72
Water Column in Well (ft)	18.4	Color	Clear
Casing Diameter/Type	6" PVC	Odor	None
Gallons in Well	26.91		
Volume Pumped/Bailed Prior to Sampling	2.53 gallons		
Sample Pump Intake Setting (ft bmp)	14.50	Sampling Method	Low-Flow
Purge Time	begin 15:01 end 15:42	Remarks	
Pumping Rate (ml/min)	233.8888889		None
Evacuation Method	Low-Flow Peristaltic		

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : PW-16-02 PROJ #: MI001454.0006.00003

DATE : 2/25/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
15:01	9.1	1.05	0.40	6.81	204.2	240	7.14	5.41
15:08	9.0	0.73	0.35	6.85	203.5	245	10.8	5.47
15:13	8.9	0.72	0.36	6.86	205.3	220	8.36	5.48
15:17	8.9	0.72	0.41	6.87	206.7	220	8.97	5.48
15:21	8.9	0.73	0.39	6.87	206.6	235	8.03	5.50
15:25	9.1	0.73	0.35	6.88	205.0	235	6.88	5.50
15:29	9.0	0.73	0.35	6.88	202.4	235	5.27	5.50
15:34	8.9	0.72	0.37	6.88	199.3	235	5.9	5.51
15:39	8.9	0.72	0.36	6.88	196.6	240	5.72	5.51
Total Depth of Well:		23.69						
Depth To Water Before Purging:			5.41					
Depth To Water After Purging:			5.51					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/25/2019
Site/Well No.	TW-16-03	Replicate No.	NA	Code No.	--
Weather	25 F windy	Sampling Time:	Begin 16:10	End	16:10

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	8.0
MP Elevation (ft)	NA	CND (mS/cm)	1.13
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.25
Sounded Well Depth (ft bmp)	18.89	pH (s.u.)	6.82
Depth to Water (ft bmp)	4.74	ORP (mV)	-20.2
Water-Level Elevation (ft)	NA	Turbidity (NTU)	4.35
Water Column in Well (ft)	14.15	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	2.3		
Volume Pumped/Bailed Prior to Sampling	2.85 gallons		
Sample Pump Intake Setting (ft bmp)	14.00	Sampling Method	Low-Flow
Purge Time	begin 15:01 end 16:12	Remarks	
Pumping Rate (ml/min)	152.0833333		Depth to bottom of well from top of casing 18.89’
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Rachel Stern		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : TW-16-03 PROJ #: MI001454.0006.00003

DATE : 2/25/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
15:06	7.7	18.50	0.95	6.80	16.7	150	17.9	4.83
15:12	7.8	1.11	0.30	6.82	2.9	175	16.5	4.84
15:19	8.0	1.12	0.28	6.82	-1.1	150	11.7	4.83
15:24	8.1	1.13	0.25	6.82	-5.4	150	6.33	4.83
15:29	8.2	1.13	0.32	6.82	-8.1	150	6.77	4.86
15:34	8.3	1.14	0.34	6.82	-10.6	150	8.36	4.86
15:39	7.9	1.14	0.34	6.82	-12.9	150	5.09	4.91
15:44	8.0	1.13	0.20	6.82	-14.1	150	5.58	4.93
15:49	8.1	1.14	0.20	6.82	-15.8	150	4.83	4.93
15:54	8.0	1.13	0.22	6.82	-17.1	150	4.18	4.94
15:59	8.1	1.14	0.23	6.82	-18.4	150	3.76	4.94
16:06	8.0	1.13	0.25	6.82	-20.2	150	4.35	4.95
Total Depth of Well:		18.89						
Depth To Water Before Purgin			4.83					
Depth To Water After Purging:			4.95					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/25/2019
Site/Well No.	TW 16-04	Replicate No.	--	Code No.	--
Weather	19 degrees F, windy, sunny	Sampling Time:	Begin 16:19	End	16:19

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	8.9
MP Elevation (ft)	NA	CND (mS/cm)	1.09
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.20
Sounded Well Depth (ft bmp)	18.92	pH (s.u.)	6.95
Depth to Water (ft bmp)	5.1	ORP (mV)	-77.5
Water-Level Elevation (ft)	NA	Turbidity (NTU)	8.90
Water Column in Well (ft)	13.82	Color	Clear
Casing Diameter/Type	24" PVC	Odor	None
Gallons in Well	323.37		
Volume Pumped/Bailed Prior to Sampling	3.31 gallons		
Sample Pump Intake Setting (ft bmp)	15.00	Sampling Method	Low-Flow
Purge Time	begin 15:19 end 16:19	Remarks	
Pumping Rate (ml/min)	209.0909091		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Madison Olender		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : TW 16-04 PROJ #: MI001454.0006.00003

DATE : 2/25/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
15:19	8.6	1.08	0.40	6.91	-36.5	225	14.8	5.10
15:24	8.9	1.09	0.56	6.94	-57.8	225	14.7	5.16
15:29	8.7	1.09	0.42	6.94	-63.6	225	13.9	0.18
15:34	8.6	1.09	0.30	6.95	-67.1	225	27.5	5.18
15:44	8.5	1.09	0.40	6.95	-74.0	200	12.3	5.18
15:49	8.5	1.09	0.28	6.95	-77.9	200	9.04	5.18
15:56	8.7	1.10	0.87	6.95	-81.1	200	9.08	5.18
16:01	7.0	1.06	0.34	6.95	-75.6	200	7.59	5.18
16:06	6.9	1.06	0.31	6.96	-73.2	200	5.38	5.18
16:12	7.3	1.06	0.32	6.96	-69.3	200	4.19	5.18
16:19	8.9	1.09	0.20	6.95	-77.5	200	8.9	5.18
Total Depth of Well:		18.92						
Depth To Water Before Purgin			5.10					
Depth To Water After Purging:			5.18					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/26/2019
Site/Well No.	TW-16-01	Replicate No.	--	Code No.	--
Weather	16F, cloudy	Sampling Time:	Begin 10:37	End	10:37

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	5.2
MP Elevation (ft)	NA	CND (mS/cm)	0.00
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	9.85
Sounded Well Depth (ft bmp)	16.62	pH (s.u.)	5.67
Depth to Water (ft bmp)	7.89	ORP (mV)	339.5
Water-Level Elevation (ft)	NA	Turbidity (NTU)	2.90
Water Column in Well (ft)	8.73	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.42		
Volume Pumped/Bailed Prior to Sampling	4.94 gallons		
Sample Pump Intake Setting (ft bmp)	14.50	Sampling Method	Low-Flow
Purge Time	begin 9:31 end 10:37	Remarks	
Pumping Rate (ml/min)	283.3333333		Water/ice inside casing
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : TW-16-01 PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
9:35	6.3	0.00	11.72	6.05	366.2	300	17	7.90
9:43	6.0	0.00	11.69	6.06	383.9	300	13.7	7.99
9:49	5.9	0.00	11.49	6.06	410.6	300	6.21	7.99
9:54	5.7	0.00	89.60	5.98	412.8	275	7.65	7.99
9:59	5.4	0.00	89.00	5.84	404.7	275	5.38	7.98
10:06	5.2	0.00	10.80	5.77	432.8	300	4.21	7.96
10:11	5.0	0.00	10.80	5.76	387.8	275	4.99	7.98
10:17	5.0	0.00	82.60	5.75	411.7	275	3.77	7.98
10:22	5.3	0.00	10.15	5.71	407.8	275	3.72	7.98
10:27	5.3	0.00	78.40	5.69	107.2	275	14.4	7.97
10:32	5.2	0.00	9.88	5.68	153.0	275	2.8	7.97
10:35	5.2	0.002	9.85	5.67	339.5	275	2.9	7.97
Total Depth of Well:		16.62						
Depth To Water Before Purging:			7.90					
Depth To Water After Purging:			7.97					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/26/2019
Site/Well No.	PW-16-01	Replicate No.	--	Code No.	--
Weather	16 degrees F, partly cloudy	Sampling Time:	Begin 10:44	End	10:44

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	9.3
MP Elevation (ft)	NA	CND (mS/cm)	2.68
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	8.77
Sounded Well Depth (ft bmp)	19.7	pH (s.u.)	9.72
Depth to Water (ft bmp)	8.7	ORP (mV)	147.6
Water-Level Elevation (ft)	NA	Turbidity (NTU)	10.90
Water Column in Well (ft)	11	Color	Clear
Casing Diameter/Type	6" PVC	Odor	None
Gallons in Well	16.09		
Volume Pumped/Bailed Prior to Sampling	2.95 gallons		
Sample Pump Intake Setting (ft bmp)	14.00	Sampling Method	Low-Flow
Purge Time	begin 9:43 end 10:43	Remarks	
Pumping Rate (ml/min)	186.3636364		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Madison Olender		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : PW-16-01 PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
9:43	8.9	2.65	29.55	9.74	116.4	250	11.4	8.70
9:52	8.7	2.64	17.62	9.74	113.2	250	11.5	8.80
9:58	9.3	2.67	12.82	9.73	116.7	150	11.1	8.78
10:03	8.9	2.66	11.37	9.73	120.7	150	10.6	8.78
10:09	8.6	2.64	12.65	9.73	125.8	150	10.8	8.78
10:14	9.1	2.66	9.92	9.72	129.9	150	11.2	8.78
10:21	6.7	2.52	10.44	9.74	135.8	150	9.51	8.78
10:27	9.3	2.68	10.44	9.72	138.5	200	9.5	8.78
10:33	9.2	2.68	9.21	9.72	142.3	200	7.23	8.78
10:38	9.4	2.68	8.76	9.72	145.4	200	11.7	8.78
10:43	9.3	2.68	8.77	9.72	147.6	200	10.9	8.78
Total Depth of Well:		19.7						
Depth To Water Before Purging:			8.70					
Depth To Water After Purging:			8.78					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/26/2019
Site/Well No.	TW-16-02	Replicate No.	--	Code No.	--
Weather	17 F cloudy	Sampling Time:	Begin 11:10	End	11:10

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	9.1
MP Elevation (ft)	NA	CND (mS/cm)	2.94
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.20
Sounded Well Depth (ft bmp)	17.13	pH (s.u.)	7.34
Depth to Water (ft bmp)	7.69	ORP (mV)	9.4
Water-Level Elevation (ft)	NA	Turbidity (NTU)	39.80
Water Column in Well (ft)	9.44	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.53		
Volume Pumped/Bailed Prior to Sampling	2.65 gallons		
Sample Pump Intake Setting (ft bmp)	14.00	Sampling Method	Low-Flow
Purge Time	begin 10:05 end 11:10	Remarks	
Pumping Rate (ml/min)	154.0909091		YSI froze and died at 10:57. Sampled at 11:10
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : TW-16-02 PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
10:05	8.1	2.80	2.00	7.17	109.2	150	133	7.69
10:10	7.7	2.78	4.29	7.27	100.0	150	123	7.79
10:15	8.5	2.85	0.38	7.28	86.7	150	103	7.79
10:20	9.3	2.91	0.33	7.30	76.0	150	90.7	7.81
10:25	9.0	2.90	0.29	7.31	65.6	175	73	7.81
10:30	9.0	2.91	0.25	7.32	55.3	150	73	7.81
10:35	9.1	2.91	0.26	7.32	46.7	150	60.3	7.82
10:40	9.0	2.93	0.25	7.33	39.0	150	47.1	7.82
10:45	9.3	2.94	0.22	7.34	29.6	150	45.5	7.82
10:50	9.3	2.94	0.22	7.34	19.4	160	40	7.82
10:55	9.1	2.94	0.20	7.34	9.4	160	39.8	7.82
Total Depth of Well:		17.13						
Depth To Water Before Purging:			7.69					
Depth To Water After Purging:			7.82					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/26/2019
Site/Well No.	MW-28	Replicate No.	--	Code No.	--
Weather	22F, cloudy	Sampling Time:	Begin 13:09	End	13:09

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	5.3
MP Elevation (ft)	NA	CND (mS/cm)	19.58
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	1.74
Sounded Well Depth (ft bmp)	11.64	pH (s.u.)	7.43
Depth to Water (ft bmp)	3.84	ORP (mV)	190.2
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.79
Water Column in Well (ft)	7.8	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.27		
Volume Pumped/Bailed Prior to Sampling	2.8 gallons		
Sample Pump Intake Setting (ft bmp)	7.00	Sampling Method	Low-Flow
Purge Time	begin 12:25 end 13:09	Remarks	
Pumping Rate (ml/min)	241.1111111		All three blots missing on top of casing.
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-28 PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
12:25	5.5	22.42	2.60	7.51	197.3	300	3.3	3.95
12:30	5.4	22.13	2.56	7.51	196.0	250	1.84	3.95
12:35	5.2	21.65	2.46	7.51	193.6	245	3.24	3.95
12:40	5.2	21.15	2.46	7.49	192.3	215	3.24	3.95
12:45	5.1	20.76	2.42	7.47	191.3	220	1.18	3.95
12:50	5.2	20.40	2.06	7.46	190.8	230	0.91	3.95
12:55	5.3	20.17	1.90	7.45	190.6	230	0.02	3.94
13:00	5.4	19.94	1.89	7.44	190.3	230	0.84	3.93
13:05	5.3	19.58	1.74	7.43	190.2	250	0.79	3.94
Total Depth of Well:		11.64						
Depth To Water Before Purging:			3.95					
Depth To Water After Purging:			3.94					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1	of	1
Site Location	Livonia, MI			Date	2/26/2019		
Site/Well No.	MW-20	Replicate No.	--	Code No.	--		
Weather	18 F overcast	Sampling Time:	Begin 13:45	End	13:45		

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	9.3
MP Elevation (ft)	NA	CND (mS/cm)	13.40
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	7.70
Sounded Well Depth (ft bmp)	15.81	pH (s.u.)	8.79
Depth to Water (ft bmp)	5.81	ORP (mV)	45.3
Water-Level Elevation (ft)	NA	Turbidity (NTU)	28.20
Water Column in Well (ft)	10	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.62		
Volume Pumped/Bailed Prior to Sampling	2.93 gallons		
Sample Pump Intake Setting (ft bmp)	14.00	Sampling Method	Low-Flow
Purge Time	begin 12:37 end 13:50	Remarks	
Pumping Rate (ml/min)	151.9230769		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-20 PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
12:38	8.8	16.88	10.16	9.25	57.7	200	166	5.81
12:43	7.5	16.01	10.64	9.09	60.4	150	133	5.92
12:48	8.0	15.04	9.87	9.01	53.3	150	112	5.95
12:53	8.2	15.21	9.29	8.95	49.3	125	88.5	5.95
12:58	8.3	14.71	8.81	8.94	47.2	150	71.1	5.95
13:03	8.3	14.37	8.34	8.92	43.6	150	65	5.95
13:08	8.7	14.38	7.74	8.90	50.1	150	52.2	5.96
13:13	8.3	14.04	7.86	8.88	51.1	150	48.9	5.96
13:18	8.2	13.90	7.86	8.87	51.4	150	41.7	5.96
13:23	8.6	13.97	7.71	8.84	47.3	150	37.5	5.96
13:28	8.7	13.86	7.74	8.83	49.2	150	36.6	5.96
13:33	8.9	13.27	7.71	8.81	47.7	150	28.7	5.96
13:38	9.3	13.4	7.7	8.79	45.3	150	28.2	5.96
Total Depth of Well:		15.81						
Depth To Water Before Purging:			5.81					
Depth To Water After Purging:			5.96					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/26/2019
Site/Well No.	MW-21	Replicate No.	--	Code No.	--
Weather	22 degrees F, overcast	Sampling Time:	Begin 13:50	End	13:50

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	11.0
MP Elevation (ft)	NA	CND (mS/cm)	10.27
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	2.77
Sounded Well Depth (ft bmp)	18.5	pH (s.u.)	6.91
Depth to Water (ft bmp)	7.25	ORP (mV)	-50.3
Water-Level Elevation (ft)	NA	Turbidity (NTU)	16.90
Water Column in Well (ft)	11.25	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.83		
Volume Pumped/Bailed Prior to Sampling	2.94 gallons		
Sample Pump Intake Setting (ft bmp)	15.50	Sampling Method	Low-Flow
Purge Time	begin 12:49 end 13:49	Remarks	
Pumping Rate (ml/min)	185.4166667		Casing is cracked, vault is cracked and missing a bolt, remaining bolt is stripped
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Madison Olender		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-21 PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
12:49	10.7	7.90	7.82	6.96	84.0	250	147	7.25
12:54	11.0	9.52	6.25	6.88	4.6	250	100	7.25
12:59	10.8	10.41	5.04	6.89	-11.7	175	55.2	7.50
13:04	11.0	10.89	4.68	6.92	-18.1	200	52.8	7.50
13:09	10.5	11.19	4.14	6.92	-24.0	150	29.7	7.50
13:14	10.7	10.93	3.65	6.93	-30.1	150	27.1	7.50
13:19	10.6	10.62	6.82	6.93	-33.9	150	26.1	7.50
13:24	10.6	10.58	3.73	6.92	-36.9	150	18.1	7.50
13:29	10.8	10.49	3.50	6.92	-42.2	150	17.4	7.50
13:34	11.0	10.46	3.06	6.92	-45.7	200	18.4	7.50
13:39	11.1	10.41	2.88	6.92	-46.8	200	15.9	7.50
13:44	11.0	10.27	2.77	6.91	-50.3	200	16.9	7.50
Total Depth of Well:		18.5						
Depth To Water Before Purging:			7.25					
Depth To Water After Purging:			7.5					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1	of	1
Site Location	Livonia, MI			Date	2/26/2019		
Site/Well No.	MW-45	Replicate No.	--	Code No.	--		
Weather	23F, partly cloudy	Sampling Time:	Begin 15:30	End	15:30		

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	12.8
MP Elevation (ft)	NA	CND (mS/cm)	2.65
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.18
Sounded Well Depth (ft bmp)	19.71	pH (s.u.)	7.20
Depth to Water (ft bmp)	10.88	ORP (mV)	36.6
Water-Level Elevation (ft)	NA	Turbidity (NTU)	5.45
Water Column in Well (ft)	8.83	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.43		
Volume Pumped/Bailed Prior to Sampling	3.38 gallons		
Sample Pump Intake Setting (ft bmp)	17.50	Sampling Method	Low-Flow
Purge Time	begin 14:30 end 15:30	Remarks	
Pumping Rate (ml/min)	213.0769231		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-45 PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
14:30	13.3	3.92	0.43	7.17	161.1	250	52.6	10.93
14:35	13.2	3.82	0.27	7.16	151.4	200	39.8	10.93
14:40	13.4	3.74	0.28	7.16	142.0	200	29.6	10.93
14:45	13.5	3.68	0.26	7.16	133.4	220	24.1	10.95
14:50	13.5	3.37	0.23	7.17	109.0	250	18.5	10.94
14:55	13.5	3.14	0.16	7.18	92.0	250	13	10.94
15:00	12.9	2.89	0.20	7.19	81.8	200	10.8	10.92
15:05	12.8	2.79	0.20	7.20	72.2	200	7.88	10.92
15:10	12.6	2.73	0.21	7.20	62.6	200	7.88	10.92
15:15	12.6	2.69	0.20	7.20	52.4	200	7.41	10.92
15:20	12.5	2.66	0.20	7.20	46.5	200	6.28	10.92
15:25	12.8	2.65	0.23	7.20	39	200	4.75	10.94
15:30	12.8	2.65	0.18	7.20	36.6	200	5.45	10.94
Total Depth of Well:		19.71						
Depth To Water Before Purging:			10.93					
Depth To Water After Purging:			10.94					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/26/2019
Site/Well No.	MW-18	Replicate No.	--	Code No.	--
Weather	16 F and overcast	Sampling Time:	Begin 15:55	End	15:55

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	10.2
MP Elevation (ft)	NA	CND (mS/cm)	3.88
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	6.44
Sounded Well Depth (ft bmp)	18.01	pH (s.u.)	7.14
Depth to Water (ft bmp)	6.62	ORP (mV)	-9.8
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.02
Water Column in Well (ft)	11.39	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.85		
Volume Pumped/Bailed Prior to Sampling	3.22 gallons		
Sample Pump Intake Setting (ft bmp)	15.00	Sampling Method	Low-Flow
Purge Time	begin 14:43 end 15:55	Remarks	
Pumping Rate (ml/min)	169.2307692		Turbidity meter froze and died at 1541
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-18 PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
14:46	10.8	7.26	7.35	7.79	6.9	200	196	6.62
14:51	11.0	7.41	9.25	7.51	-7.7	200	131	6.72
14:56	10.7	7.22	4.48	7.42	-16.7	200	80	6.73
15:01	10.6	6.86	8.82	7.35	-23.8	200	47.7	6.75
15:06	10.7	6.28	7.96	7.28	-30.3	200	37.2	6.75
15:11	10.2	5.59	1.85	7.21	-35.5	150	39.2	6.75
15:16	10.1	5.23	1.52	7.20	-38.5	150	30.8	6.75
15:21	10.2	5.01	3.47	7.20	-32.5	150	22.3	6.75
15:26	10.1	4.66	3.67	7.19	-27.0	150	18.6	6.75
15:31	10.1	4.41	3.46	7.17	-21.8	150	15.9	6.75
15:36	10.2	4.25	6.68	7.17	-15.2	150	14.3	6.75
15:41	9.9	4.03	7.27	7.16	-12.6	150	0.02	6.75
15:47	10.2	3.88	6.44	7.14	-9.8	150	0.02	6.75
Total Depth of Well:		18.01						
Depth To Water Before Purging:			6.62					
Depth To Water After Purging:			6.75					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/26/2019
Site/Well No.	MW-70	Replicate No.	--	Code No.	--
Weather	24 degrees F, overcast	Sampling Time:	Begin 16:14	End	16:14

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	20		
Depth to Water (ft bmp)	11.26		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	8.74		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.42		
Volume Pumped/Bailed Prior to Sampling	3.23 gallons		
Sample Pump Intake Setting (ft bmp)	17.50	Sampling Method	Low-Flow
Purge Time	begin 15:13	end 16:13	
Pumping Rate (ml/min)	203.8461538		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	12.9
CND (mS/cm)	3.32
Dissolved Oxygen (mg/L)	8.35
pH (s.u.)	7.21
ORP (mV)	-54.0
Turbidity (NTU)	2.54
Color	Clear
Odor	None

Remarks: Well vault missing one bolt

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Madison Olender		

	Well Casing Volumes				
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-70 PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
15:13	13.0	3.06	17.32	7.32	-46.0	250	47.3	11.26
15:18	12.6	3.12	10.66	7.27	-51.2	200	23.7	11.26
15:23	12.6	3.12	10.26	7.26	-53.2	200	15.7	11.38
15:28	12.8	3.14	9.93	7.26	-53.2	200	15.6	11.38
15:33	12.7	3.15	9.78	7.25	-54.3	200	11.9	11.38
15:38	12.7	3.16	9.50	7.25	-52.8	200	13	11.38
15:43	12.8	3.22	9.82	7.23	-54.2	200	10.3	11.38
15:48	12.7	3.23	9.00	7.23	-53.1	200	8.18	11.38
15:53	12.8	3.27	8.73	7.22	-54.8	200	6.72	11.38
15:58	12.8	3.29	8.47	7.22	-55.1	200	6.32	11.38
16:03	12.7	3.29	8.28	7.22	-52.0	200	3.02	11.38
16:08	12.6	3.3	8.05	7.21	-53.4	200	2.65	11.38
16:13	12.9	3.32	8.35	7.21	-54	200	2.54	11.38
Total Depth of Well:		20						
Depth To Water Before Purging:			11.26					
Depth To Water After Purging:			11.38					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1	of	1
Site Location	Livonia, MI			Date	2/26/2019		
Site/Well No.	MW-46	Replicate No.	--	Code No.	--		
Weather	23F, cloudy	Sampling Time:	Begin 17:35	End	17:35		

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	11.9
MP Elevation (ft)	NA	CND (mS/cm)	4.66
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.52
Sounded Well Depth (ft bmp)	19.64	pH (s.u.)	7.90
Depth to Water (ft bmp)	10.8	ORP (mV)	96.7
Water-Level Elevation (ft)	NA	Turbidity (NTU)	2.98
Water Column in Well (ft)	8.84	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.44		
Volume Pumped/Bailed Prior to Sampling	3.4 gallons		
Sample Pump Intake Setting (ft bmp)	18.50	Sampling Method	Low-Flow
Purge Time	begin 16:30 end 17:35	Remarks	
Pumping Rate (ml/min)	198.0769231		1 bolt missing
Evacuation Method	Low-Flow Peristaltic		

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

	Well Casing Volumes				
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-46 PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
16:34	11.5	3.10	4.30	7.95	88.3	175	64.1	11.26
16:40	11.7	3.19	3.66	7.98	88.6	200	56.3	11.26
16:45	11.5	3.36	2.99	7.98	89.9	200	52.8	11.27
16:50	11.6	3.51	2.36	7.98	90.6	200	41.6	11.27
16:55	11.7	3.74	1.73	7.98	92.1	200	30.6	11.27
17:00	11.8	3.95	1.38	7.96	93.1	200	17.8	11.27
17:05	12.0	4.09	1.16	7.96	93.6	200	13.7	11.26
17:10	11.7	4.21	1.31	7.95	94.5	200	9.95	11.24
17:15	11.9	4.39	0.76	7.93	95.3	200	6.77	11.26
17:20	12.0	4.50	6.50	7.92	95.8	200	4.42	11.27
17:25	12.0	4.56	0.60	7.91	96.1	200	3.5	11.27
17:30	11.9	4.61	0.54	7.90	96.4	200	3.53	11.27
17:35	11.9	4.66	0.52	7.90	96.7	200	2.98	11.28
Total Depth of Well:		19.64						
Depth To Water Before Purging:			11.26					
Depth To Water After Purging:			11.28					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/26/2019
Site/Well No.	MW-14	Replicate No.	--	Code No.	--
Weather	18 F overcast	Sampling Time:	Begin 18:00	End	18:00

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	9.5
MP Elevation (ft)	NA	CND (mS/cm)	4.43
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.16
Sounded Well Depth (ft bmp)	19.49	pH (s.u.)	7.20
Depth to Water (ft bmp)	6.21	ORP (mV)	35.5
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.02
Water Column in Well (ft)	13.28	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	2.16		
Volume Pumped/Bailed Prior to Sampling	3.96 gallons		
Sample Pump Intake Setting (ft bmp)	17.00	Sampling Method	Low-Flow
Purge Time	begin 16:50 end 17:55	Remarks	
Pumping Rate (ml/min)	230.3846154		Turbidity meter froze at 1734
Evacuation Method	Low-Flow Peristaltic		

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-14 PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
16:52	9.1	1.69	5.62	8.76	-12.0	260	147	6.21
16:57	10.1	10.05	1.96	7.89	17.6	260	103	6.51
17:02	9.8	11.30	0.53	7.64	7.7	225	52.8	6.51
17:07	10.0	9.45	0.27	7.42	-2.9	225	32.2	6.51
17:12	9.5	7.74	0.19	7.32	-11.1	225	23.2	6.51
17:17	9.7	6.47	0.16	7.27	-18.2	225	12	6.51
17:22	9.7	5.90	0.18	7.26	-22.0	225	12.3	6.51
17:27	9.7	5.43	0.20	7.24	-25.8	225	7.45	6.52
17:32	9.6	5.10	0.20	7.23	-28.5	225	0.02	6.52
17:37	9.6	4.88	0.20	7.22	-30.3	225	0.02	6.52
17:42	9.6	4.69	0.18	7.21	-32.2	225	0.02	6.52
17:47	9.6	4.55	0.16	7.21	-34	225	0.02	6.52
17:52	9.5	4.43	0.16	7.20	35.5	225	0.02	6.52
Total Depth of Well:		19.49						
Depth To Water Before Purging:			6.21					
Depth To Water After Purging:			6.52					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-56	Replicate No.	--	Code No.	--
Weather	20F, cloudy, snowy	Sampling Time:	Begin 10:50	End	10:50

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	20.39		
Depth to Water (ft bmp)	6.72		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	13.67		
Casing Diameter/Type	2"	PVC	
Gallons in Well	2.22		
Volume Pumped/Bailed Prior to Sampling	3.05 gallons		
Sample Pump Intake Setting (ft bmp)	18.50		
Purge Time	begin 9:50	end 10:50	
Pumping Rate (ml/min)	192.3076923		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	11.7
CND (mS/cm)	11.77
Dissolved Oxygen (mg/L)	0.12
pH (s.u.)	7.64
ORP (mV)	-42.0
Turbidity (NTU)	1.18
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	1 bolt missing, 1 bolt doesn't go down all the way

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-56 PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
9:50	10.2	15.72	0.53	7.38	116.8	125	29.7	6.72
9:55	10.5	14.70	0.45	7.46	97.3	175	28.1	6.91
10:00	10.9	12.87	0.28	7.54	76.2	200	21.1	6.91
10:05	11.2	11.62	0.19	7.60	49.0	200	17	6.94
10:10	11.1	11.58	0.24	7.60	47.1	200	13.1	6.95
10:15	11.6	11.62	0.16	7.62	26.1	200	6.32	6.98
10:20	11.6	11.67	0.17	7.62	22.6	200	4.89	7.00
10:25	11.6	11.66	0.12	7.62	18.9	200	3.85	7.01
10:30	11.5	11.65	0.12	7.63	-11.9	200	3.35	7.03
10:35	11.5	11.67	0.14	7.63	-14.2	200	2.61	7.04
10:40	11.5	11.71	0.14	7.63	-18.0	200	1.84	7.04
10:45	11.7	11.76	0.11	7.64	-39.4	200	1.7	7.04
10:50	11.7	11.77	0.12	7.64	-42	200	1.18	7.05
Total Depth of Well:		20.39						
Depth To Water Before Purging:			6.72					
Depth To Water After Purging:			7.05					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-71	Replicate No.	--	Code No.	--
Weather	19°F, cloudy, snowy	Sampling Time:	Begin 11:17	End	11:17

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	12.3
MP Elevation (ft)	NA	CND (mS/cm)	13.63
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	1.91
Sounded Well Depth (ft bmp)	20	pH (s.u.)	6.91
Depth to Water (ft bmp)	12.1	ORP (mV)	-51.8
Water-Level Elevation (ft)	NA	Turbidity (NTU)	47.10
Water Column in Well (ft)	7.9	Color	Yellowish clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.28		
Volume Pumped/Bailed Prior to Sampling	2.5 gallons		
Sample Pump Intake Setting (ft bmp)	17.50	Sampling Method	Low-Flow
Purge Time	begin 10:06 end 11:16	Remarks	Very turbid. Turbidity over 50 until after an hour of purging. Stripped and missing bolt.
Pumping Rate (ml/min)	135		
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Madison Olender		

	Well Casing Volumes				
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-71 PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
10:06	12.6	13.93	3.35	6.87	-35.1	175	233	12.37
10:11	12.4	13.86	2.75	6.88	-39.4	150	193	12.37
10:17	12.5	13.81	2.57	6.89	-44.6	150	139	12.37
10:23	12.4	13.80	2.11	6.89	-47.9	150	120	12.32
10:28	12.6	13.85	1.95	6.89	-48.5	150	99	12.32
10:33	12.1	13.66	2.06	6.89	-48.0	125	106	12.26
10:38	12.1	13.65	2.00	6.89	-48.4	125	113	12.26
10:43	12.2	13.69	2.31	6.89	-49.3	125	98.5	12.26
10:48	12.0	13.58	2.20	6.90	-48.5	125	82.7	12.26
10:53	12.0	13.62	2.08	6.90	-51.3	125	70	12.26
10:58	11.9	13.59	2.15	6.92	-54.4	125	58.9	12.26
11:03	12.6	13.74	2.2	6.91	-56.4	125	55.9	12.26
11:06	12.5	13.72	2.1	6.91	-57	125	55.6	12.26
11:11	12.4	13.71	1.96	6.91	-57.3	125	50.1	12.26
11:16	12.3	13.63	1.91	6.91	-51.8	125	47.1	12.26
Total Depth of Well:		20						
Depth To Water Before Purgin			12.37					
Depth To Water After Purging:			12.26					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-33	Replicate No.	--	Code No.	--
Weather	21 F snow and overcast	Sampling Time:	Begin 11:55	End	11:55

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	18.83		
Depth to Water (ft bmp)	7.82		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	11.01		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.79		
Volume Pumped/Bailed Prior to Sampling	36.35 gallons		
Sample Pump Intake Setting (ft bmp)	16.00		
Purge Time	begin 10:45	end 0:00	
Pumping Rate (ml/min)	173.0769231		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	8.7
CND (mS/cm)	3.19
Dissolved Oxygen (mg/L)	0.13
pH (s.u.)	7.19
ORP (mV)	136.2
Turbidity (NTU)	0.23
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-33 PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
10:45	9.1	3.15	0.77	7.42	216.0	275	28.1	7.82
10:50	8.4	3.18	0.84	7.17	203.0	250	28.6	8.06
10:55	8.3	3.25	0.39	7.11	191.5	225	13.7	8.06
11:00	7.8	3.24	0.38	7.13	182.0	150	13	8.06
11:05	8.4	3.31	0.26	7.15	176.8	150	11.2	8.06
11:10	8.4	3.36	0.19	7.16	171.0	150	6.68	8.06
11:15	8.3	3.30	0.19	7.17	167.2	150	4.68	8.06
11:20	8.3	3.28	0.21	7.17	163.3	150	2.86	8.06
11:25	8.2	3.28	0.19	7.18	153.9	150	3.17	8.07
11:30	8.8	3.28	0.15	7.18	153.7	150	2.66	8.07
11:35	8.8	3.25	0.15	7.18	147.6	150	3.27	8.07
11:40	8.9	3.2	0.14	7.19	142.3	150	3.19	8.07
11:45	8.7	3.19	0.13	7.19	136.2	150	0.23	8.07
Total Depth of Well:		18.83						
Depth To Water Before Purging:			7.82					
Depth To Water After Purging:			8.07					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-55	Replicate No.	--	Code No.	--
Weather	25F, cloudy	Sampling Time:	Begin 13:35	End	13:35

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	19.55		
Depth to Water (ft bmp)	7.19		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	12.36		
Casing Diameter/Type	2"	PVC	
Gallons in Well	2.01		
Volume Pumped/Bailed Prior to Sampling	3.17 gallons		
Sample Pump Intake Setting (ft bmp)	17.50		
Purge Time	begin 12:35	end 13:35	
Pumping Rate (ml/min)	200		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	11.5
CND (mS/cm)	6.15
Dissolved Oxygen (mg/L)	0.06
pH (s.u.)	7.95
ORP (mV)	-87.8
Turbidity (NTU)	2.70
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	Bolts won't screw down all the way.

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-55 PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
12:35	11.4	4.69	0.67	7.70	8.8	200	31.1	7.21
12:40	111.3	4.90	0.33	7.79	-14.4	200	27.1	7.22
12:45	11.3	5.11	0.27	7.82	-23.8	200	22.5	7.22
12:50	11.4	5.48	0.17	7.87	-43.4	200	16.8	7.22
12:55	11.4	5.61	0.18	7.88	-49.3	200	15.2	7.21
13:00	11.3	5.72	0.13	7.90	-56.0	200	15.2	7.21
13:05	11.2	5.82	0.14	7.92	-67.7	200	8.03	7.21
13:10	11.4	5.91	0.12	7.92	-69.3	200	6.49	7.21
13:15	11.4	6.01	0.10	7.93	-77.8	200	6.24	7.21
13:20	11.4	6.03	0.10	7.94	-79.5	200	5.17	7.21
13:25	11.5	6.10	0.10	7.94	-83.8	200	3.83	7.21
13:30	11.4	6.12	0.1	7.95	-86	200	3.76	7.21
13:35	11.5	6.15	0.06	7.95	-87.8	200	2.7	7.21
Total Depth of Well:		19.55						
Depth To Water Before Purging:			7.21					
Depth To Water After Purging:			7.21					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-68	Replicate No.	--	Code No.	--
Weather	26°F, cloudy, humid	Sampling Time:	Begin 14:08	End	14:08

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	20		
Depth to Water (ft bmp)	9.63		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	10.37		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.69		
Volume Pumped/Bailed Prior to Sampling	2.45 gallons		
Sample Pump Intake Setting (ft bmp)	17.50		
Purge Time	begin 13:10	end 14:07	
Pumping Rate (ml/min)	162.5		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	11.4
CND (mS/cm)	9.00
Dissolved Oxygen (mg/L)	1.78
pH (s.u.)	6.95
ORP (mV)	118.9
Turbidity (NTU)	1.17
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	Well flooded above casing, scooped out water with beaker. Missing one bolt, vault cracked, present bolt stripped.

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Madison Olender		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-68 PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
13:10	12.1	9.73	5.27	6.99	122.5	300	4.15	9.63
13:15	11.7	9.93	2.91	6.96	120.6	150	2.32	9.63
13:20	11.6	9.60	2.69	6.97	119.6	150	4.64	9.69
13:25	11.6	9.41	2.58	6.96	118.6	150	4.2	9.69
13:30	11.7	9.30	2.26	6.96	118.0	150	1.98	9.69
13:35	11.6	9.19	2.05	6.96	117.7	150	1.71	9.69
13:40	11.7	9.20	2.29	6.95	117.5	150	0.83	9.69
13:45	11.7	9.14	1.79	6.95	117.6	150	1.93	9.69
13:50	11.5	9.08	1.86	6.95	117.9	150	0.71	9.69
13:55	11.5	9.06	1.76	6.95	118.2	150	0.71	9.69
14:00	11.5	9.04	1.64	6.95	118.5	150	1.17	9.69
14:05	11.4	9	1.78	6.95	118.9	150	1.17	9.69
Total Depth of Well:		20						
Depth To Water Before Purging:			9.63					
Depth To Water After Purging:			9.69					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-37	Replicate No.	--	Code No.	--
Weather	21 F overcast	Sampling Time:	Begin 14:25	End	14:25

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	22.91		
Depth to Water (ft bmp)	7.34		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	15.57		
Casing Diameter/Type	2"	PVC	
Gallons in Well	2.53		
Volume Pumped/Bailed Prior to Sampling	3.43 gallons		
Sample Pump Intake Setting (ft bmp)	20.00		
Purge Time	begin 13:15	end 14:30	
Pumping Rate (ml/min)	173.0769231		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	10.0
CND (mS/cm)	1.55
Dissolved Oxygen (mg/L)	0.12
pH (s.u.)	7.42
ORP (mV)	130.8
Turbidity (NTU)	8.96
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-37 PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
13:15	10.0	1.82	0.84	7.73	131.8	150	61.9	7.34
13:20	9.4	1.87	0.45	7.48	128.1	200	60.2	7.51
13:25	9.7	1.87	0.26	7.47	125.6	200	41.3	7.54
13:30	10.3	1.87	0.20	7.47	121.2	200	36.1	7.54
13:35	10.3	1.83	0.16	7.48	117.4	200	30.2	7.54
13:40	10.1	1.78	0.15	7.48	112.9	200	27.3	7.54
13:45	9.9	1.71	0.20	7.47	108.9	200	19.5	7.56
13:50	10.1	1.67	0.11	7.44	105.9	150	18.3	7.58
13:55	9.9	1.64	0.16	7.45	124.0	150	16	7.58
14:00	10.2	1.63	0.14	7.44	125.2	150	11.3	7.58
14:05	10.0	1.59	0.11	7.43	127.4	150	9.55	7.58
14:10	10.2	1.57	0.12	7.42	128.7	150	11.2	7.58
14:15	10.0	1.55	0.12	7.42	130.8	150	8.96	7.58
Total Depth of Well:		22.91						
Depth To Water Before Purging:			7.34					
Depth To Water After Purging:			7.58					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-62	Replicate No.	--	Code No.	--
Weather	26F, cloudy	Sampling Time:	Begin 15:30	End	15:30

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	13.8
MP Elevation (ft)	NA	CND (mS/cm)	5.43
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.21
Sounded Well Depth (ft bmp)	21.13	pH (s.u.)	7.38
Depth to Water (ft bmp)	8.35	ORP (mV)	-97.0
Water-Level Elevation (ft)	NA	Turbidity (NTU)	40.10
Water Column in Well (ft)	12.78	Color	Slight yellow-brown tint
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	2.08		
Volume Pumped/Bailed Prior to Sampling	3.11 gallons		
Sample Pump Intake Setting (ft bmp)	17.50	Sampling Method	Low-Flow
Purge Time	begin 14:30 end 15:30	Remarks	
Pumping Rate (ml/min)	196.1538462		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-62 PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
14:30	12.9	4.99	0.96	7.32	-27.2	175	163	8.41
14:35	13.6	5.24	0.55	7.37	-45.0	175	139	8.41
14:40	13.4	5.22	0.30	7.38	-46.6	200	114	8.41
14:45	13.4	5.23	0.32	7.38	-52.7	200	113	8.41
14:50	13.5	5.29	0.27	7.38	-60.1	200	103	8.41
14:55	13.6	5.30	0.26	7.38	-64.5	200	96.9	8.41
15:00	13.6	5.33	0.25	7.38	-78.7	200	65.2	8.41
15:05	13.7	5.34	0.21	7.38	-80.3	200	62	8.41
15:10	13.8	5.35	0.22	7.38	-82.6	200	55.1	8.41
15:15	13.8	5.39	0.22	7.38	-89.9	200	52.9	8.41
15:20	13.9	5.40	0.20	7.38	-92.7	200	46.5	8.41
15:25	13.8	5.41	0.17	7.38	-95.8	200	40.6	8.41
15:30	13.8	5.43	0.21	7.38	-97	200	40.1	8.41
Total Depth of Well:		21.13						
Depth To Water Before Purging:			8.41					
Depth To Water After Purging:			8.41					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-38	Replicate No.	--	Code No.	--
Weather	21 F overcast	Sampling Time:	Begin 16:30	End	16:30

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	9.0
MP Elevation (ft)	NA	CND (mS/cm)	2.30
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	3.40
Sounded Well Depth (ft bmp)	19.59	pH (s.u.)	7.44
Depth to Water (ft bmp)	7.84	ORP (mV)	-10.4
Water-Level Elevation (ft)	NA	Turbidity (NTU)	10.80
Water Column in Well (ft)	11.75	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.91		
Volume Pumped/Bailed Prior to Sampling	3.34 gallons		
Sample Pump Intake Setting (ft bmp)	17.00	Sampling Method	Low-Flow
Purge Time	begin 15:25 end 16:35	Remarks	
Pumping Rate (ml/min)	180.7692308		None
Evacuation Method	Low-Flow Peristaltic		

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-38 PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
15:25	10.6	2.36	0.68	7.81	110.9	300	40	7.84
15:30	9.9	2.39	1.00	7.38	7.6	200	33.6	8.22
15:35	9.4	2.35	3.10	7.52	90.6	150	28.1	8.22
15:40	9.5	2.34	3.40	7.50	81.6	200	24.4	8.22
15:45	9.6	2.37	5.56	7.50	72.5	200	19.2	8.22
15:50	9.7	2.38	2.04	7.48	62.4	200	19.4	8.22
15:55	9.7	2.34	1.45	7.48	52.7	200	18.1	8.22
16:00	9.4	2.32	2.21	7.48	43.0	150	14.8	8.22
16:05	9.6	2.31	6.35	7.48	32.2	150	15.8	8.22
16:10	9.7	2.33	4.35	7.47	21.3	150	11.9	8.22
16:15	9.7	2.34	2.24	7.45	11.1	150	11.6	8.22
16:20	9.4	2.31	2.39	7.45	-0.9	150	10.8	8.22
16:25	9.0	2.3	3.4	7.44	-10.4	150	10.8	8.22
Total Depth of Well:		19.59						
Depth To Water Before Purging:			7.84					
Depth To Water After Purging:			8.22					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-25	Replicate No.	--	Code No.	--
Weather	26, cloudy, humid	Sampling Time:	Begin 16:35	End	16:35

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	20.48		
Depth to Water (ft bmp)	5.47		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	15.01		
Casing Diameter/Type	2"	PVC	
Gallons in Well	2.44		
Volume Pumped/Bailed Prior to Sampling	2.43 gallons		
Sample Pump Intake Setting (ft bmp)	18.50		
Purge Time	begin 15:42	end 16:34	
Pumping Rate (ml/min)	177.0833333		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	11.3
CND (mS/cm)	6.33
Dissolved Oxygen (mg/L)	2.12
pH (s.u.)	7.18
ORP (mV)	-70.1
Turbidity (NTU)	1.23
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	Vault cracked apart, bolts stripped

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Madison Olender		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-25 PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
15:42	11.5	5.50	12.99	7.25	135.0	275	9	5.47
15:47	11.6	5.58	7.33	7.22	72.6	200	7.1	5.47
15:52	11.4	5.55	6.15	7.20	47.0	200	7.78	4.85
15:57	11.7	5.76	5.05	7.17	-1.8	200	7.34	4.85
16:02	11.8	5.95	4.31	7.16	-29.9	200	7.76	4.85
16:07	11.5	6.04	6.62	7.16	-47.1	150	7.14	4.85
16:12	11.6	6.11	3.09	7.17	-57.3	150	4.77	4.85
16:17	11.7	6.19	2.77	7.17	-60.5	150	2.56	5.70
16:22	11.5	6.24	2.54	7.18	-64.1	150	2.52	5.70
16:27	11.4	6.25	2.34	7.18	-66.7	150	2.09	5.70
16:30	11.3	6.29	2.22	7.18	-68.4	150	2.07	5.70
16:33	11.3	6.33	2.12	7.18	-70.1	150	1.23	5.70
Total Depth of Well:		20.48						
Depth To Water Before Purgin			5.47					
Depth To Water After Purging:			5.7					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-50	Replicate No.	--	Code No.	--
Weather	27F, cloudy	Sampling Time:	Begin 17:25	End	17:25

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	18.81		
Depth to Water (ft bmp)	7.44		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	11.37		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.85		
Volume Pumped/Bailed Prior to Sampling	3.16 gallons		
Sample Pump Intake Setting (ft bmp)	18.50		
Purge Time	begin 16:25	end 17:25	
Pumping Rate (ml/min)	199.2307692		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	11.7
CND (mS/cm)	2.91
Dissolved Oxygen (mg/L)	0.28
pH (s.u.)	7.38
ORP (mV)	-48.7
Turbidity (NTU)	9.88
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

	Well Casing Volumes				
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-50 PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
16:25	12.0	3.68	0.42	7.35	-41.0	175	120	7.60
16:30	12.0	3.55	0.34	7.38	-44.3	175	88.4	7.60
16:35	12.0	3.44	0.33	7.37	-45.6	175	64.2	7.61
16:40	12.1	3.37	0.33	7.38	-46.7	200	50.6	7.61
16:45	12.2	3.24	0.32	7.37	-48.1	200	35.1	7.61
16:50	12.3	3.13	0.29	7.37	-49.2	200	28.6	7.61
16:55	12.2	3.08	0.27	7.37	-49.7	200	23.6	7.61
17:00	12.3	3.00	0.27	7.37	-50.2	225	16.7	7.62
17:05	12.2	2.95	0.25	7.36	-50.1	240	13.1	7.62
17:10	11.9	2.92	0.28	7.36	-49.8	200	11.9	7.60
17:15	11.9	2.92	0.27	7.37	-49.4	200	12.5	7.60
17:20	11.8	2.9	0.27	7.37	-49.3	200	10.5	7.60
17:25	11.7	2.91	0.28	7.38	-48.7	200	9.88	7.60
Total Depth of Well:		18.81						
Depth To Water Before Purgin			7.60					
Depth To Water After Purging:			7.6					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-49	Replicate No.	--	Code No.	--
Weather	21 F windy overcast	Sampling Time:	Begin 18:30	End	18:30

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	10.0
MP Elevation (ft)	NA	CND (mS/cm)	1.22
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	1.33
Sounded Well Depth (ft bmp)	17.27	pH (s.u.)	7.18
Depth to Water (ft bmp)	6.81	ORP (mV)	-10.9
Water-Level Elevation (ft)	NA	Turbidity (NTU)	17.50
Water Column in Well (ft)	10.46	Color	Clear
Casing Diameter/Type	2" PVC	Odor	Mild
Gallons in Well	1.7		
Volume Pumped/Bailed Prior to Sampling	3.75 gallons		
Sample Pump Intake Setting (ft bmp)	15.00	Sampling Method	Low-Flow
Purge Time	begin 17:20 end 18:31	Remarks	
Pumping Rate (ml/min)	200		Needs 1 bolt. Noted orange "product" during first 30 seconds of pumping.
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-49 PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
17:20	8.9	6.01	0.99	7.27	18.7	200	208	6.77
17:25	9.5	6.08	0.39	7.13	14.4	200	150	6.91
17:30	9.8	5.51	0.29	7.13	10.0	200	95.9	6.93
17:35	9.6	5.11	0.28	7.14	7.3	200	67.6	6.95
17:40	9.7	4.82	1.36	7.14	4.6	200	58.2	6.95
17:45	9.7	4.53	1.38	7.15	3.0	200	44.1	6.95
17:50	9.8	4.33	1.49	7.15	0.8	200	38.5	6.95
17:55	9.8	4.14	1.80	7.16	-1.4	200	31.1	6.95
18:00	9.7	3.94	1.59	7.17	-3.3	200	32.8	6.97
18:05	9.8	3.80	1.39	7.17	-4.7	200	25.2	6.97
18:10	9.9	3.66	1.38	7.17	-6.9	200	21.5	6.97
18:15	9.7	3.52	1.63	7.18	-9	200	18.5	6.97
18:20	10.0	1.22	1.33	7.18	-10.9	200	17.5	6.97
Total Depth of Well:		17.27						
Depth To Water Before Purging:			6.77					
Depth To Water After Purging:			6.97					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-7	Replicate No.	--	Code No.	--
Weather	26, humid, cloudy	Sampling Time:	Begin 18:36	End	18:36

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	22.55		
Depth to Water (ft bmp)	4.62		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	17.93		
Casing Diameter/Type	2"	PVC	
Gallons in Well	2.91		
Volume Pumped/Bailed Prior to Sampling	2.58 gallons		
Sample Pump Intake Setting (ft bmp)	20.50		
Purge Time	begin 17:35	end 18:35	
Pumping Rate (ml/min)	162.5		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	9.9
CND (mS/cm)	9.59
Dissolved Oxygen (mg/L)	0.99
pH (s.u.)	7.58
ORP (mV)	55.2
Turbidity (NTU)	7.08
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	Missing both bolts, well is packed full of mud and leaves ~2 inches above top of casing

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Madison Olender		

	Well Casing Volumes				
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-7 PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
17:35	9.8	6.64	8.21	8.18	117.1	225	107	5.43
17:40	10.4	9.47	3.15	7.70	99.2	225	41	5.43
17:45	9.4	9.41	2.09	7.71	82.3	150	16	5.43
17:50	9.3	9.34	1.82	7.71	75.5	150	14.8	5.43
17:55	9.4	9.40	1.53	7.69	70.6	150	20.7	5.43
18:00	8.9	9.22	1.45	7.69	68.0	150	15.1	4.81
18:05	9.6	9.51	2.20	7.67	64.0	150	11.7	4.81
18:10	7.5	9.12	1.39	7.67	62.7	150	14.5	4.81
18:15	9.5	9.48	1.10	7.63	59.5	150	9.87	4.81
18:20	9.3	9.55	1.08	7.62	57.9	150	9.84	4.81
18:25	8.3	9.35	1.25	7.60	57.3	150	9.32	4.81
18:30	9.9	9.59	0.99	7.58	55.2	150	7.08	4.81
Total Depth of Well:		22.55						
Depth To Water Before Purgin			5.43					
Depth To Water After Purging:			4.81					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/28/2019
Site/Well No.	MW-63	Replicate No.	--	Code No.	--
Weather	10F, mostly sunny	Sampling Time:	Begin 9:10	End	9:10

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	11.79		
Depth to Water (ft bmp)	8.27		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	3.52		
Casing Diameter/Type	2"	PVC	
Gallons in Well	0.57		
Volume Pumped/Bailed Prior to Sampling	3.3 gallons		
Sample Pump Intake Setting (ft bmp)	9.50		
Purge Time	begin 8:10	end 9:10	
Pumping Rate (ml/min)	208.4615385		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	8.6
CND (mS/cm)	1.92
Dissolved Oxygen (mg/L)	0.24
pH (s.u.)	7.37
ORP (mV)	111.2
Turbidity (NTU)	1.74
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

	Well Casing Volumes				
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-63 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
8:10	7.0	1.93	1.04	7.12	142.6	225	15.7	8.29
8:15	7.4	1.97	0.54	7.23	133.7	225	13.8	8.29
8:20	7.7	1.98	0.46	7.28	129.7	150	14.6	8.29
8:25	8.2	1.93	0.40	7.34	120.0	190	10.9	8.30
8:30	8.3	1.93	0.42	7.35	118.4	200	8.07	8.30
8:35	8.2	1.92	0.42	7.35	116.1	200	5.73	8.30
8:40	8.2	1.91	0.43	7.36	115.4	200	4.79	8.31
8:45	8.4	1.92	0.39	7.37	113.3	200	2.09	8.31
8:50	8.5	1.92	0.37	7.37	113.0	200	1.98	8.31
8:55	8.6	1.92	0.29	7.37	111.8	200	1.43	8.32
9:00	8.4	1.91	0.30	7.37	111.8	240	3.05	8.32
9:05	8.5	1.9	0.23	7.37	111.3	240	1.4	8.32
9:10	8.6	1.92	0.24	7.37	111.2	240	1.74	8.32
Total Depth of Well:		11.79						
Depth To Water Before Purging:			8.29					
Depth To Water After Purging:			8.32					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/28/2019
Site/Well No.	MW-32	Replicate No.	--	Code No.	--
Weather	20 F sunny	Sampling Time:	Begin 9:50	End	9:50

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	10.6
MP Elevation (ft)	NA	CND (mS/cm)	3.61
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.35
Sounded Well Depth (ft bmp)	19.93	pH (s.u.)	7.16
Depth to Water (ft bmp)	9.05	ORP (mV)	145.8
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.00
Water Column in Well (ft)	10.88	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.77		
Volume Pumped/Bailed Prior to Sampling	3.54 gallons		
Sample Pump Intake Setting (ft bmp)	17.00	Sampling Method	Low-Flow
Purge Time	begin 8:45 end 9:52	Remarks	
Pumping Rate (ml/min)	200		Turbidity meter died at 934
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-32 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
8:45	9.6	3.41	1.85	7.96	215.7	200	83.9	9.05
8:50	9.7	3.46	1.26	7.17	209.5	200	77	9.47
8:55	9.8	3.51	1.51	7.11	203.5	200	34.7	9.58
9:00	10.0	3.55	1.72	7.11	198.5	200	28.9	9.58
9:05	10.2	3.59	0.64	7.11	191.5	200	11.5	9.58
9:10	10.3	3.61	0.83	7.12	183.7	200	8.86	9.58
9:15	10.4	3.60	0.50	7.13	177.3	200	10	9.58
9:20	10.6	3.62	0.54	7.14	171.0	200	4.97	9.58
9:25	10.6	3.62	0.68	7.14	165.1	200	4.51	9.62
9:30	10.7	3.62	0.47	7.15	159.7	200	0	9.62
9:35	10.6	3.61	0.40	7.15	155.3	200	0	9.62
9:40	10.7	3.62	0.39	7.15	150.3	200	0	9.62
9:45	10.6	3.61	0.35	7.16	145.8	200	0	9.62
Total Depth of Well:		19.93						
Depth To Water Before Purging:			9.05					
Depth To Water After Purging:			9.62					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1	of	1
Site Location	Livonia, MI			Date	2/28/2019		
Site/Well No.	MW-26	Replicate No.	--	Code No.	--		
Weather	19°F, sunny	Sampling Time:	Begin 9:52	End	9:52		

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	6.7
MP Elevation (ft)	NA	CND (mS/cm)	2.07
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	2.11
Sounded Well Depth (ft bmp)	14.5	pH (s.u.)	7.38
Depth to Water (ft bmp)	4.55	ORP (mV)	183.3
Water-Level Elevation (ft)	NA	Turbidity (NTU)	9.47
Water Column in Well (ft)	9.95	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.62		
Volume Pumped/Bailed Prior to Sampling	3.02 gallons		
Sample Pump Intake Setting (ft bmp)	9.00	Sampling Method	Low-Flow
Purge Time	begin 8:51 end 9:51	Remarks	
Pumping Rate (ml/min)	190.3846154		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Madison Olender		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-26 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
8:51	6.8	2.40	4.34	7.36	201.5	300	29.2	4.55
8:56	6.4	2.30	3.08	7.36	199.4	200	18.7	4.53
9:01	6.1	2.29	2.56	7.36	197.1	200	70.4	4.53
9:06	6.4	2.22	2.36	7.37	194.9	200	68.9	4.53
9:11	6.1	2.18	2.17	7.37	192.6	175	48.2	4.53
9:16	6.2	2.17	2.10	7.37	190.9	175	40	4.53
9:21	6.3	2.15	2.10	7.38	189.3	175	30.6	4.53
9:26	6.5	2.15	1.88	7.37	188.1	175	22.4	4.53
9:31	6.5	2.12	2.03	7.38	186.8	175	14.9	4.53
9:36	6.5	2.11	1.70	7.38	186.0	175	14.4	4.53
9:41	6.6	2.10	1.63	7.38	185.1	175	11.6	4.53
9:46	6.6	2.08	1.54	7.38	184.2	175	10.8	4.53
9:51	6.7	2.07	2.11	7.38	183.3	175	9.47	4.53
Total Depth of Well:		14.5						
Depth To Water Before Purging:			4.55					
Depth To Water After Purging:			4.53					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1	of	1
Site Location	Livonia, MI			Date	2/28/2019		
Site/Well No.	MW-64	Replicate No.	--	Code No.	--		
Weather	24F, sunny	Sampling Time:	Begin 11:15	End	11:15		

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	12.3
MP Elevation (ft)	NA	CND (mS/cm)	4.06
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.22
Sounded Well Depth (ft bmp)	20.2	pH (s.u.)	7.11
Depth to Water (ft bmp)	9.05	ORP (mV)	113.5
Water-Level Elevation (ft)	NA	Turbidity (NTU)	2.74
Water Column in Well (ft)	11.15	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.81		
Volume Pumped/Bailed Prior to Sampling	2 gallons		
Sample Pump Intake Setting (ft bmp)	17.50	Sampling Method	Low-Flow
Purge Time	begin 10:30 end 11:15	Remarks	
Pumping Rate (ml/min)	168		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-64 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
10:30	11.7	3.77	0.83	7.09	135.9	150	20.8	9.09
10:35	11.9	3.85	0.48	7.11	133.6	150	19.1	9.09
10:40	12.1	3.90	0.37	7.12	131.4	150	17.4	9.09
10:45	12.2	3.96	0.33	7.12	127.3	150	10	9.09
10:50	12.3	3.98	0.29	7.12	124.9	160	9.87	9.09
10:55	12.3	4.01	0.26	7.11	121.6	180	5.64	9.08
11:00	12.4	4.03	0.23	7.11	120.3	180	4.3	9.08
11:05	12.3	4.04	0.21	7.11	117.2	180	2.85	9.08
11:10	12.4	4.06	0.22	7.11	116.0	190	2.53	9.08
11:15	12.3	4.06	0.22	7.11	113.5	190	2.74	9.08
Total Depth of Well:		20.2						
Depth To Water Before Purging:			9.09					
Depth To Water After Purging:			9.08					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/28/2019
Site/Well No.	MW-39	Replicate No.	--	Code No.	--
Weather	24 F partly sunny	Sampling Time:	Begin 11:40	End	11:40

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	9.9
MP Elevation (ft)	NA	CND (mS/cm)	3.32
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	5.08
Sounded Well Depth (ft bmp)	24.1	pH (s.u.)	7.13
Depth to Water (ft bmp)	10.62	ORP (mV)	136.0
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.65
Water Column in Well (ft)	13.48	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	2.19		
Volume Pumped/Bailed Prior to Sampling	2.57 gallons		
Sample Pump Intake Setting (ft bmp)	22.00	Sampling Method	Low-Flow
Purge Time	begin 10:55 end 11:45	Remarks	
Pumping Rate (ml/min)	194.4444444		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

	Well Casing Volumes				
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-39 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
10:55	9.5	3.63	2.11	7.57	149.7	150	17.1	10.62
11:00	9.8	3.77	6.86	7.25	145.6	200	9.15	10.65
11:05	9.4	3.71	6.63	7.19	143.3	200	8.84	10.65
11:10	9.7	3.64	6.92	7.15	141.4	200	2.66	10.65
11:15	9.9	3.55	5.85	7.14	139.8	200	2.51	10.65
11:20	9.8	3.49	5.54	7.13	138.5	200	0.83	10.65
11:25	10.0	3.40	5.45	7.13	137.5	200	1.35	10.65
11:30	9.8	3.35	5.38	7.13	136.7	200	0.55	10.65
11:35	9.9	3.32	5.08	7.13	136.0	200	0.65	10.65
Total Depth of Well:		24.1						
Depth To Water Before Purging:			10.62					
Depth To Water After Purging:			10.65					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/28/2019
Site/Well No.	MW-29	Replicate No.	--	Code No.	--
Weather	28°F, sunny, sparse snowflakes	Sampling Time:	Begin 12:14	End	12:14

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	15		
Depth to Water (ft bmp)	5.05		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	9.95		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.62		
Volume Pumped/Bailed Prior to Sampling	3.09 gallons		
Sample Pump Intake Setting (ft bmp)	10.00		
Purge Time	begin 11:18	end 12:13	
Pumping Rate (ml/min)	212.5		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	7.6
CND (mS/cm)	8.32
Dissolved Oxygen (mg/L)	1.70
pH (s.u.)	7.35
ORP (mV)	-33.7
Turbidity (NTU)	0.02
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	Missing two bolts, present bolt is stripped

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Madison Olender		

	Well Casing Volumes				
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

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YSI/LOW FLOW SAMPLING LOG

WELL : MW-29 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
11:18	8.0	8.47	10.95	7.34	106.7	275	2.67	5.05
11:23	8.1	8.55	4.95	7.34	14.8	275	1.49	5.05
11:28	7.4	8.41	3.38	7.35	-2.8	200	1.14	5.20
11:33	7.8	8.41	2.83	7.35	-11.0	200	1.76	5.20
11:38	7.6	8.37	2.55	7.35	-16.5	200	0.89	5.20
11:43	7.3	8.30	2.47	7.36	-17.3	200	1.24	5.20
11:48	7.6	8.31	3.51	7.35	-17.6	200	0.27	5.20
11:53	7.6	8.32	2.08	7.35	-20.2	200	1.12	5.20
11:58	7.6	8.34	1.95	7.36	-18.3	200	0.02	5.20
12:03	7.8	8.38	1.80	7.35	-25.3	200	0.02	5.20
12:08	7.8	8.35	1.72	7.35	-27.2	200	0.02	5.20
12:13	7.6	8.32	1.7	7.35	-33.7	200	0.02	5.20
Total Depth of Well:		15						
Depth To Water Before Purgin			5.05					
Depth To Water After Purging:			5.2					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/28/2019
Site/Well No.	MW-47	Replicate No.	--	Code No.	--
Weather	27F, partly cloudy	Sampling Time:	Begin 13:30	End	13:30

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	19.92		
Depth to Water (ft bmp)	10.44		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	9.48		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.54		
Volume Pumped/Bailed Prior to Sampling	3.22 gallons		
Sample Pump Intake Setting (ft bmp)	18.50		
Purge Time	begin 12:30	end 13:30	
Pumping Rate (ml/min)	203.0769231		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	12.8
CND (mS/cm)	7.84
Dissolved Oxygen (mg/L)	0.53
pH (s.u.)	7.07
ORP (mV)	137.1
Turbidity (NTU)	4.46
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	2 bolt missing, 1 bolt broken, all 3 holes for bolts missing

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-47 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
12:30	12.7	7.56	2.60	7.17	116.4	200	71	10.58
12:35	12.8	7.62	2.24	7.17	118.9	200	53.2	10.59
12:40	12.8	7.73	1.84	7.16	126.4	220	36.7	10.59
12:45	12.8	7.84	1.41	7.13	125.9	200	22.9	10.59
12:50	12.8	7.85	1.32	7.12	127.7	200	18.3	10.59
12:55	12.7	7.84	0.99	7.09	130.1	200	11.6	10.59
13:00	12.9	7.86	0.84	7.08	133.3	210	8.88	10.59
13:05	12.9	7.86	0.82	7.08	131.1	210	7.87	10.59
13:10	12.9	7.86	0.70	7.08	135.4	200	5.74	10.59
13:14	12.9	7.85	0.68	7.08	130.7	200	5.86	10.59
13:20	12.9	7.85	0.62	7.08	134.9	200	6.42	10.59
13:25	12.9	7.84	0.54	7.07	138.2	200	4	10.59
13:30	12.8	7.84	0.53	7.07	137.1	200	4.46	10.59
Total Depth of Well:		19.92						
Depth To Water Before Purgin			10.58					
Depth To Water After Purging:			10.59					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/28/2019
Site/Well No.	MW-19	Replicate No.	01	Code No.	--
Weather	30°F, partly cloudy	Sampling Time:	Begin 14:52	End	14:52

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	19.49		
Depth to Water (ft bmp)	5.89		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	13.6		
Casing Diameter/Type	2"	PVC	
Gallons in Well	2.21		
Volume Pumped/Bailed Prior to Sampling	2.74 gallons		
Sample Pump Intake Setting (ft bmp)	17.50		
Purge Time	begin 13:50	end 14:50	
Pumping Rate (ml/min)	173.0769231		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	11.2
CND (mS/cm)	8.77
Dissolved Oxygen (mg/L)	1.08
pH (s.u.)	6.92
ORP (mV)	-70.8
Turbidity (NTU)	12.40
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	Dup taken

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Madison Olender		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-19 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
13:50	11.6	10.01	4.03	6.85	-18.5	225	29.9	5.89
13:55	11.9	10.12	2.16	6.84	-24.4	225	37.2	5.89
14:00	11.9	10.12	1.68	6.85	-34.9	225	26.3	6.06
14:05	12.0	9.75	1.47	6.88	-48.7	225	27.5	6.06
14:10	11.3	9.57	1.36	6.88	-51.7	150	26.4	6.06
14:15	11.4	9.44	1.24	6.90	-56.3	150	19.8	6.06
14:20	11.5	9.22	1.26	6.90	-60.8	150	22	6.06
14:25	11.4	9.16	1.22	6.91	-62.2	150	17.5	6.06
14:30	11.4	9.03	1.15	6.91	-64.5	150	15.1	5.94
14:35	11.3	8.95	1.10	6.91	-66.7	150	15.2	5.94
14:40	11.2	88.70	1.16	6.92	-67.9	150	13.4	5.94
14:45	11.6	8.91	1.01	6.92	-70.5	150	10.4	5.94
14:50	11.2	8.77	1.08	6.92	-70.8	150	12.4	5.94
Total Depth of Well:		19.49						
Depth To Water Before Purging:			5.89					
Depth To Water After Purging:			5.94					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1	of	1
Site Location	Livonia, MI			Date	2/28/2019		
Site/Well No.	MW-65	Replicate No.	Dup-02	Code No.	--		
Weather	21 F overcast	Sampling Time:	Begin 15:05	End	15:05		

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	19.59		
Depth to Water (ft bmp)	9.49		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	10.1		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.64		
Volume Pumped/Bailed Prior to Sampling	3.7 gallons		
Sample Pump Intake Setting (ft bmp)	17.00		
Purge Time	begin 14:00	end 15:10	
Pumping Rate (ml/min)	200		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	10.2
CND (mS/cm)	3.08
Dissolved Oxygen (mg/L)	0.23
pH (s.u.)	7.25
ORP (mV)	63.9
Turbidity (NTU)	1.55
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	Took Dup-02

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-65 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
14:00	10.8	2.65	1.18	7.92	126.3	200	726	9.49
14:05	10.1	2.78	0.40	7.37	103.9	200	50.8	9.49
14:10	10.3	2.90	0.24	7.31	98.2	200	31.1	9.49
14:15	9.9	2.96	0.24	7.28	92.2	200	25.2	9.49
14:20	9.9	3.03	0.32	7.25	87.4	200	18.1	9.49
14:25	9.7	3.04	0.21	7.25	83.6	200	4.93	9.49
14:30	9.8	3.08	0.17	7.24	80.4	200	5.26	9.49
14:35	10.2	3.12	0.17	7.24	77.2	200	4.35	9.49
14:40	10.0	3.12	0.15	7.24	74.5	200	2.81	9.49
14:45	9.7	3.09	0.16	7.25	71.8	200	3.53	9.49
14:50	10.0	3.10	0.15	7.24	69.2	200	2.49	9.49
14:55	10.0	3.09	0.16	7.24	67	200	8.31	9.49
15:00	10.2	3.08	0.23	7.25	63.9	200	1.55	9.49
Total Depth of Well:		19.59						
Depth To Water Before Purgin			9.49					
Depth To Water After Purging:			9.49					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1	of	1
Site Location	Livonia, MI			Date	2/28/2019		
Site/Well No.	MW-57	Replicate No.	DUP-03	Code No.	--		
Weather	31F, mostly cloudy	Sampling Time:	Begin 15:20	End	15:20		

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	21.66		
Depth to Water (ft bmp)	6.29		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	15.37		
Casing Diameter/Type	2"	PVC	
Gallons in Well	2.5		
Volume Pumped/Bailed Prior to Sampling	3.27 gallons		
Sample Pump Intake Setting (ft bmp)	19.50		
Purge Time	begin 14:20	end 15:20	
Pumping Rate (ml/min)	206.25		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	11.2
CND (mS/cm)	14.62
Dissolved Oxygen (mg/L)	1.24
pH (s.u.)	9.30
ORP (mV)	148.2
Turbidity (NTU)	28.70
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	1 screw won't go down all the way.

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-57 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
14:20	11.1	14.18	9.25	11.66	155.1	220	57.4	6.87
14:25	10.7	13.95	6.56	11.60	151.8	220	49.1	6.87
14:30	11.1	14.13	5.03	11.49	151.2	220	33.6	7.12
14:35	11.0	14.57	3.08	11.25	151.6	200	21.1	7.14
14:40	11.2	14.70	2.74	11.13	151.5	200	20.2	7.14
14:45	11.4	14.71	1.99	10.57	151.5	210	24.1	7.15
14:50	11.1	14.58	1.90	10.46	151.6	200	26.5	7.15
14:53	11.3	14.75	1.75	10.18	151.5	200	29.5	7.14
14:56	11.2	14.72	1.65	9.93	151.1	200	28.2	7.14
14:59	11.3	14.72	1.51	9.78	150.7	200	31	7.13
15:02	11.5	14.78	1.48	9.66	150.3	210	30.2	7.13
15:05	11.4	14.84	1.47	9.57	150.1	210	32.7	7.13
15:08	11.3	14.75	1.44	9.53	149.6	210	27.9	7.13
15:11	11.2	14.67	1.37	9.43	149	200	30.2	7.13
15:15	11.0	14.6	1.29	9.35	148.6	200	26.6	7.13
15:20	11.2	14.62	1.24	9.30	148.2	200	28.7	7.13
Total Depth of Well:		21.66						
Depth To Water Before Purging:			6.87					
Depth To Water After Purging:			7.13					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1	of	1
Site Location	Livonia, MI			Date	2/28/2019		
Site/Well No.	MW-67	Replicate No.	--	Code No.	--		
Weather	33 F overcast	Sampling Time:	Begin 16:40	End	16:40		

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	9.0
MP Elevation (ft)	NA	CND (mS/cm)	4.35
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.91
Sounded Well Depth (ft bmp)	14.12	pH (s.u.)	7.12
Depth to Water (ft bmp)	9.89	ORP (mV)	78.1
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.02
Water Column in Well (ft)	4.23	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	0.69		
Volume Pumped/Bailed Prior to Sampling	2.11 gallons		
Sample Pump Intake Setting (ft bmp)	12.00	Sampling Method	Low-Flow
Purge Time	begin 16:05 end 16:45	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-67 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
16:05	8.6	4.36	2.58	7.82	84.5	200	45.4	9.89
16:10	8.8	4.47	1.17	7.27	82.4	200	34.2	9.89
16:15	8.9	4.46	1.31	7.18	80.6	200	12.2	9.89
16:20	8.9	4.43	1.15	7.16	79.4	200	5.73	9.89
16:25	8.9	4.38	1.07	7.15	78.9	200	4.04	9.89
16:30	8.8	4.35	0.99	7.13	78.5	200	0.24	9.89
16:35	9.0	4.35	0.93	7.12	78.4	200	0.02	9.89
16:38	9.0	4.35	0.91	7.12	78.1	200	0.02	9.89
Total Depth of Well:		14.12						
Depth To Water Before Purgin			9.89					
Depth To Water After Purging:			9.89					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/28/2019
Site/Well No.	MW-53	Replicate No.	--	Code No.	--
Weather	31F, mostly cloudy	Sampling Time:	Begin 17:10	End	17:10

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	20.62		
Depth to Water (ft bmp)	6.57		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	14.05		
Casing Diameter/Type	2"	PVC	
Gallons in Well	2.28		
Volume Pumped/Bailed Prior to Sampling	3.17 gallons		
Sample Pump Intake Setting (ft bmp)	18.50		
Purge Time	begin 16:10	end 17:10	
Pumping Rate (ml/min)	200		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	10.9
CND (mS/cm)	1.84
Dissolved Oxygen (mg/L)	0.77
pH (s.u.)	7.50
ORP (mV)	106.5
Turbidity (NTU)	7.02
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	2 screws wouldn't screw in all the way.

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Ellen Redner		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-53 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
16:10	10.3	0.87	4.28	7.77	92.6	200	29.6	7.03
16:15	10.5	0.88	3.63	7.75	91.3	200	52.4	6.96
16:20	10.6	0.85	3.45	7.72	91.0	200	48	6.96
16:25	10.6	0.87	2.85	7.67	91.0	200	41.3	6.96
16:30	10.6	0.88	2.57	7.66	91.4	200	35.8	6.96
16:35	10.8	0.97	2.23	7.64	93.9	200	25.6	6.96
16:40	10.7	0.99	2.00	7.63	94.1	200	21.2	6.96
16:45	10.8	1.32	1.37	7.57	100.8	200	14.5	6.98
16:50	10.9	1.38	1.37	7.57	101.7	200	13.8	6.98
16:55	10.8	1.45	1.33	7.55	102.5	200	13.8	6.98
17:00	10.8	1.61	1.14	7.52	104.5	200	11	6.98
17:05	10.9	1.81	0.85	7.50	106.3	200	6.76	6.98
17:10	10.9	1.84	0.77	7.50	106.5	200	7.02	6.98
Total Depth of Well:		20.62						
Depth To Water Before Purging:			7.03					
Depth To Water After Purging:			6.98					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/28/2019
Site/Well No.	MW-69	Replicate No.	--	Code No.	--
Weather	31°F, cloudy	Sampling Time:	Begin 17:16	End	17:16

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	19.98		
Depth to Water (ft bmp)	9.18		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	10.8		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.75		
Volume Pumped/Bailed Prior to Sampling	2.1 gallons		
Sample Pump Intake Setting (ft bmp)	17.50		
Purge Time	begin 16:16	end 17:16	
Pumping Rate (ml/min)	132.6923077		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	10.3
CND (mS/cm)	9.02
Dissolved Oxygen (mg/L)	0.90
pH (s.u.)	7.16
ORP (mV)	-78.3
Turbidity (NTU)	16.00
Color	Clear
Odor	None
Sampling Method	Low-Flow

Remarks: Vault is in good shape but is missing both bolts

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Madison Olender		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-69 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
16:16	11.0	9.84	4.05	7.17	-69.0	225	86.9	9.18
16:21	11.0	10.10	1.64	7.15	-76.5	125	65.8	9.18
16:26	10.7	10.00	1.41	7.15	-76.5	125	59	9.18
16:31	10.7	9.91	1.14	7.15	-77.6	125	50.4	9.35
16:36	11.1	9.89	1.09	7.15	-78.7	125	42.7	9.35
16:41	11.0	9.81	1.08	7.15	-79.0	125	40.6	9.35
16:46	11.0	9.65	0.98	7.15	-79.1	125	31.8	9.35
16:51	11.1	9.63	0.92	7.15	-79.0	125	24.6	9.35
16:56	11.2	9.55	0.86	7.15	-79.4	125	19.3	9.35
17:01	10.9	9.42	0.87	7.15	-79.7	125	21.4	9.35
17:06	11.2	9.29	0.86	7.15	-78.8	125	16.2	9.35
17:11	10.5	9.19	0.84	7.15	-79.1	125	16.4	9.35
17:16	10.3	9.02	0.9	7.16	-78.3	125	16	9.35
Total Depth of Well:		19.98						
Depth To Water Before Purging:			9.18					
Depth To Water After Purging:			9.35					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/1/2019
Site/Well No.	MW-51	Replicate No.	--	Code No.	--
Weather	17 F sunny	Sampling Time:	Begin 9:40	End	9:40

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	14.56		
Depth to Water (ft bmp)	7.03		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	7.53		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.22		
Volume Pumped/Bailed Prior to Sampling	2.71 gallons		
Sample Pump Intake Setting (ft bmp)	12.00		
Purge Time	begin 8:51	end 9:45	
Pumping Rate (ml/min)	190		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	6.8
CND (mS/cm)	0.67
Dissolved Oxygen (mg/L)	0.99
pH (s.u.)	7.50
ORP (mV)	192.4
Turbidity (NTU)	0.02
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-51 PROJ #: MI001454.0006.00003

DATE : 3/1/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
8:50	5.0	0.81	2.78	6.33	211.6	100	3.75	7.03
8:55	6.0	0.78	2.30	6.93	210.7	200	2.32	7.03
9:00	6.1	0.77	2.08	7.27	206.9	200	1.09	7.03
9:05	6.0	0.74	1.91	7.38	205.7	200	0.57	7.03
9:10	6.2	0.73	1.78	7.43	204.5	200	0.73	7.03
9:15	6.4	0.71	1.36	7.45	201.5	200	0.04	7.03
9:20	6.7	0.70	1.33	7.47	199.6	200	0.02	7.03
9:25	6.7	0.67	1.00	7.47	196.4	200	0.02	7.03
9:30	6.8	0.67	0.94	7.48	194.4	200	0.02	7.03
9:35	6.8	0.67	0.99	7.50	192.4	200	0.02	7.03
Total Depth of Well:		14.56						
Depth To Water Before Purgin			7.03					
Depth To Water After Purging:			7.03					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/1/2019
Site/Well No.	MW-1	Replicate No.	--	Code No.	--
Weather	24°F, sunny	Sampling Time:	Begin 9:45	End	9:45

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	18.53		
Depth to Water (ft bmp)	4.77		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	13.76		
Casing Diameter/Type	2"	PVC	
Gallons in Well	2.24		
Volume Pumped/Bailed Prior to Sampling	2.49 gallons		
Sample Pump Intake Setting (ft bmp)	15.50		
Purge Time	begin 8:54	end 9:44	
Pumping Rate (ml/min)	188.6363636		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	8.9
CND (mS/cm)	59.40
Dissolved Oxygen (mg/L)	3.59
pH (s.u.)	7.31
ORP (mV)	-33.2
Turbidity (NTU)	24.20
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Madison Olender		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-1 PROJ #: MI001454.0006.00003

DATE : 3/1/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
8:54	8.7	69.90	4.59	6.89	140.0	250	103	4.77
8:59	9.0	67.00	4.17	7.03	84.2	250	78.7	4.77
9:04	8.2	63.50	3.68	7.15	47.0	175	70.3	4.83
9:09	8.4	61.40	3.54	7.23	13.6	175	56.2	4.83
9:14	8.7	61.00	3.41	7.25	4.5	175	49	4.83
9:19	8.6	60.80	3.27	7.26	-3.9	175	44.4	4.83
9:24	8.8	60.30	3.39	7.28	-12.2	175	43.8	4.83
9:29	8.8	59.90	3.20	7.30	-18.5	175	33.4	4.83
9:34	8.7	59.60	3.28	7.30	-24.6	175	25.1	4.83
9:39	8.9	59.90	3.49	7.31	-29.4	175	24.7	4.83
9:44	8.9	59.40	3.59	7.31	-33.2	175	24.2	4.83
Total Depth of Well:		18.53						
Depth To Water Before Purging:			4.77					
Depth To Water After Purging:			4.83					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1	of	1
Site Location	Livonia, MI			Date	3/1/2019		
Site/Well No.	MW-2	Replicate No.	None	Code No.	--		
Weather	21°F partly cloudy	Sampling Time:	Begin 10:08	End	10:08		

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	19.42		
Depth to Water (ft bmp)	6.9		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	12.52		
Casing Diameter/Type	2"	PVC	
Gallons in Well	2.03		
Volume Pumped/Bailed Prior to Sampling	1.51 gallons		
Sample Pump Intake Setting (ft bmp)	18.00		
Purge Time	begin 9:30	end 10:08	
Pumping Rate (ml/min)	150		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	21.0
CND (mS/cm)	14.98
Dissolved Oxygen (mg/L)	0.20
pH (s.u.)	7.08
ORP (mV)	-99.9
Turbidity (NTU)	2.81
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Rachel Stern		

	Well Casing Volumes				
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-2 PROJ #: MI001454.0006.00003

DATE : 3/1/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
9:30	20.6	14.15	1.83	7.00	137.8	150	5.7	6.90
9:35	20.6	14.81	1.25	7.09	41.3	150	2.94	6.90
9:40	20.8	14.90	0.78	7.08	18.6	150	3.47	7.14
9:45	20.9	14.95	0.64	7.08	-28.5	150	1.94	7.21
9:50	20.9	14.96	0.56	7.08	-56.2	150	6.23	7.21
9:53	21.0	15.01	0.36	7.08	-71.5	150	6.25	7.21
9:56	21.0	15.01	0.31	7.08	-78.2	150	3.25	7.19
9:59	21.0	15.00	0.25	7.08	-85.9	150	2.15	7.19
10:02	21.0	15.00	0.21	7.08	-91.2	150	2.5	7.19
10:05	21.0	14.99	0.22	7.08	-94.7	150	3.02	7.19
10:08	21.0	14.98	0.20	7.08	-99.9	150	2.81	7.19
Total Depth of Well:		19.42						
Depth To Water Before Purgin			6.90					
Depth To Water After Purging:			7.19					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/1/2019
Site/Well No.	MW-5	Replicate No.	None	Code No.	--
Weather	28°F cloudy	Sampling Time:	Begin 11:32	End	11:32

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	21.8
MP Elevation (ft)	NA	CND (mS/cm)	13.97
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.23
Sounded Well Depth (ft bmp)	19.63	pH (s.u.)	7.32
Depth to Water (ft bmp)	7.22	ORP (mV)	-139.2
Water-Level Elevation (ft)	NA	Turbidity (NTU)	2.37
Water Column in Well (ft)	12.41	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	2.02		
Volume Pumped/Bailed Prior to Sampling	0.87 gallons		
Sample Pump Intake Setting (ft bmp)	18.00	Sampling Method	Low-Flow
Purge Time	begin 11:00 end 11:32	Remarks	
Pumping Rate (ml/min)	102.7777778		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Rachel Stern		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-5 PROJ #: MI001454.0006.00003

DATE : 3/1/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
11:00	21.8	14.02	0.74	7.39	-40.8	100	1.94	7.22
11:05	21.8	14.06	0.50	7.34	-67.4	100	1.48	7.54
11:10	21.7	1404.00	0.34	7.32	-98.2	100	1.36	7.54
11:15	21.8	14.03	0.30	7.32	-115.9	100	2.71	7.48
11:20	21.7	14.01	0.26	7.32	-127.2	100	1.71	7.48
11:23	21.8	14.01	0.29	7.32	-131.6	100	2.13	7.49
11:26	21.8	13.99	0.22	7.32	-135.2	100	2.53	7.49
11:29	21.8	13.98	0.24	7.32	-137.0	100	2.46	7.49
11:32	21.8	13.97	0.23	7.32	-139.2	125	2.37	7.49
Total Depth of Well:		19.63						
Depth To Water Before Purging:			7.22					
Depth To Water After Purging:			7.49					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/1/2019
Site/Well No.	MW-24	Replicate No.	--	Code No.	--
Weather	30 F sunny	Sampling Time:	Begin 12:10	End	12:10

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	10.4
MP Elevation (ft)	NA	CND (mS/cm)	2.40
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.14
Sounded Well Depth (ft bmp)	23.89	pH (s.u.)	7.04
Depth to Water (ft bmp)	9.51	ORP (mV)	139.9
Water-Level Elevation (ft)	NA	Turbidity (NTU)	14.30
Water Column in Well (ft)	14.38	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	2.34		
Volume Pumped/Bailed Prior to Sampling	36.92 gallons		
Sample Pump Intake Setting (ft bmp)	11.00	Sampling Method	Low-Flow
Purge Time	begin 23:05 end 12:15	Remarks	
Pumping Rate (ml/min)	176.9230769		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-24 PROJ #: MI001454.0006.00003

DATE : 3/1/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
11:05	7.6	2.44	0.66	8.30	201.1	200	38.8	9.51
11:10	9.0	2.33	0.33	7.25	201.2	200	29.8	9.51
11:15	9.4	2.33	0.23	7.08	199.6	200	32.5	9.68
11:20	9.6	2.33	0.19	7.04	195.1	200	32	9.79
11:25	9.9	2.37	0.23	7.03	188.8	200	31.2	9.81
11:30	10.0	2.37	0.19	7.02	182.1	150	30.2	9.82
11:35	10.1	2.37	0.19	7.03	174.5	150	27.7	9.82
11:40	10.2	2.34	0.17	7.03	167.9	150	24.3	9.82
11:45	10.2	2.38	0.16	7.03	160.7	150	23.3	9.82
11:50	10.3	2.39	0.17	7.04	154.9	150	21.4	9.82
11:55	10.3	2.39	0.17	7.04	149.7	150	18.5	9.82
12:00	10.3	2.4	0.16	7.04	144.5	200	14.5	9.82
12:05	10.4	2.4	0.14	7.04	139.9	200	14.3	9.82
Total Depth of Well:		23.89						
Depth To Water Before Purging:			9.51					
Depth To Water After Purging:			9.82					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/1/2019
Site/Well No.	MW-9	Replicate No.	--	Code No.	--
Weather	33°F, sunny	Sampling Time:	Begin 12:41	End	12:41

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	24.35		
Depth to Water (ft bmp)	5.74		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	18.61		
Casing Diameter/Type	2"	PVC	
Gallons in Well	3.02		
Volume Pumped/Bailed Prior to Sampling	2.53 gallons		
Sample Pump Intake Setting (ft bmp)	20.50		
Purge Time	begin 11:40	end 12:40	
Pumping Rate (ml/min)	159.6153846		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	12.2
CND (mS/cm)	4.00
Dissolved Oxygen (mg/L)	0.96
pH (s.u.)	7.47
ORP (mV)	-42.3
Turbidity (NTU)	2.65
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	Missing both bolts, filled with mud

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Madison Olender		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-9 PROJ #: MI001454.0006.00003

DATE : 3/1/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
11:40	11.7	5.16	4.72	7.53	84.8	275	23.5	5.74
11:45	11.4	5.05	2.44	7.42	76.0	150	11.5	5.74
11:50	11.6	4.91	2.12	7.41	68.2	150	7.35	6.89
11:55	11.7	4.78	1.84	7.42	55.1	150	9.57	6.89
12:00	11.8	4.49	1.62	7.43	29.0	150	8.18	6.89
12:05	12.0	4.35	1.47	7.44	9.6	150	7.04	6.89
12:10	11.7	4.20	3.50	7.45	-1.6	150	5.12	6.89
12:15	12.1	4.15	1.93	7.45	-11.1	150	6.68	6.89
12:20	12.2	4.10	1.60	7.46	-18.5	150	6.17	6.89
12:25	12.1	4.07	1.30	7.46	-25.4	150	3.93	6.89
12:30	12.1	4.04	1.19	7.46	-31.5	150	3.28	6.89
12:35	12.1	4	1.04	7.46	-36.7	150	4.23	6.89
12:40	12.2	4	0.96	7.47	-42.3	150	2.65	6.89
Total Depth of Well:		24.35						
Depth To Water Before Purgin			5.74					
Depth To Water After Purging:			6.89					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/1/2019
Site/Well No.	MW-3	Replicate No.	None	Code No.	--
Weather	28°F cloudy	Sampling Time:	Begin 12:55	End	12:55

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	18.78		
Depth to Water (ft bmp)	7.22		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	11.56		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.88		
Volume Pumped/Bailed Prior to Sampling	1.16 gallons		
Sample Pump Intake Setting (ft bmp)	16.50		
Purge Time	begin 12:15	end 12:55	
Pumping Rate (ml/min)	110		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	20.5
CND (mS/cm)	13.59
Dissolved Oxygen (mg/L)	0.15
pH (s.u.)	7.19
ORP (mV)	-144.8
Turbidity (NTU)	0.00
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	Turbidity vial broken at 12:30, no turbidity readings taken after that at MW-3

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Rachel Stern		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-3 PROJ #: MI001454.0006.00003

DATE : 3/1/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
12:15	20.5	13.52	0.52	7.17	-73.8	150	2.93	7.22
12:20	20.6	13.53	0.47	7.17	-89.3	150	2.14	7.32
12:25	20.5	13.54	0.30	7.18	-106.4	100	2.43	7.32
12:35	20.5	13.51	0.20	7.18	-134.0	100	0	7.32
12:40	20.5	13.52	0.21	7.18	-136.6	100	0	7.34
12:43	20.5	13.54	0.18	7.19	-139.9	100	0	7.34
12:46	20.5	13.55	0.18	7.19	-141.8	100	0	7.34
12:49	20.5	13.56	0.15	7.19	-144.1	100	0	7.34
12:52	20.5	13.56	0.16	7.19	-144.2	100	0	7.34
12:55	20.5	13.59	0.15	7.19	-144.8	100	0	7.34
Total Depth of Well:		18.78						
Depth To Water Before Purgin			7.22					
Depth To Water After Purging:			7.34					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1	of	1
Site Location	Livonia, MI			Date	3/1/2019		
Site/Well No.	MW-4	Replicate No.	None	Code No.	--		
Weather	30°F cloudy	Sampling Time:	Begin 14:30	End	14:30		

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	22.1
MP Elevation (ft)	NA	CND (mS/cm)	9.97
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.21
Sounded Well Depth (ft bmp)	19.93	pH (s.u.)	7.00
Depth to Water (ft bmp)	7.68	ORP (mV)	-126.2
Water-Level Elevation (ft)	NA	Turbidity (NTU)	4.59
Water Column in Well (ft)	12.25	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.99		
Volume Pumped/Bailed Prior to Sampling	1.02 gallons		
Sample Pump Intake Setting (ft bmp)	18.00	Sampling Method	Low-Flow
Purge Time	begin 13:55 end 14:30	Remarks	
Pumping Rate (ml/min)	110		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Rachel Stern		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-4 PROJ #: MI001454.0006.00003

DATE : 3/1/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
13:55	22.1	10.80	0.50	7.00	-83.5	100	1.07	7.68
14:00	22.1	10.80	0.46	7.00	-97.2	100	0.08	7.62
14:05	22.1	10.79	0.35	7.00	-114.7	100	2.61	7.62
14:10	22.1	10.74	0.31	7.01	-124.9	100	0.96	7.62
14:15	22.1	10.53	0.25	7.00	-127.9	100	2.31	7.62
14:18	22.1	10.41	0.23	7.00	-128.0	100	1.39	7.62
14:21	22.1	10.23	0.20	7.00	-127.2	125	2.73	7.62
14:24	22.1	10.13	0.19	7.00	-126.8	125	3.79	7.62
14:27	22.1	10.01	0.20	7.00	-126.4	125	3.88	7.62
14:30	22.1	9.97	0.21	7.00	-126.2	125	4.59	7.62
Total Depth of Well:		19.93						
Depth To Water Before Purgin			7.68					
Depth To Water After Purging:			7.62					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/1/2019
Site/Well No.	MW-36	Replicate No.	--	Code No.	--
Weather	34 F sunny	Sampling Time:	Begin 14:50	End	14:50

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	11.8
MP Elevation (ft)	NA	CND (mS/cm)	6.73
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	1.43
Sounded Well Depth (ft bmp)	24.89	pH (s.u.)	7.30
Depth to Water (ft bmp)	9.34	ORP (mV)	109.9
Water-Level Elevation (ft)	NA	Turbidity (NTU)	2.62
Water Column in Well (ft)	15.55	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	2.53		
Volume Pumped/Bailed Prior to Sampling	3.96 gallons		
Sample Pump Intake Setting (ft bmp)	21.00	Sampling Method	Low-Flow
Purge Time	begin 13:40 end 14:55	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-36 PROJ #: MI001454.0006.00003

DATE : 3/1/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
13:45	11.3	6.98	2.16	7.84	157.7	200	27.6	10.03
13:50	11.4	6.88	2.05	7.50	150.7	200	18.1	10.03
13:55	11.4	6.81	2.12	7.37	143.1	200	10.7	10.03
14:00	11.4	6.70	2.08	7.32	139.4	200	9.67	10.03
14:05	11.5	6.76	1.76	7.30	135.4	200	6.78	10.03
14:10	11.7	6.76	1.76	7.29	130.9	200	5.93	10.03
14:15	11.7	6.76	1.49	7.30	127.1	200	4.75	10.03
14:20	11.7	6.76	1.47	7.29	122.1	200	5.96	10.03
14:25	11.5	6.73	1.41	7.30	120.7	200	4.87	10.03
14:30	11.7	6.75	1.52	7.30	117.5	200	2.57	10.03
14:35	11.5	6.70	1.47	7.30	114.9	200	2.31	10.03
14:40	11.6	6.7	1.57	7.30	112.3	200	3.83	10.03
14:45	11.8	6.73	1.43	7.30	109.9	200	2.62	10.03
Total Depth of Well:		24.89						
Depth To Water Before Purging:			10.03					
Depth To Water After Purging:			10.03					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003		Page	1 of	1
Site Location	Livonia, MI				Date	3/1/2019	
Site/Well No.	MW-10	Replicate No.	None		Code No.	--	
Weather	30°F cloudy	Sampling Time:	Begin	15:53	End	15:53	

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	21.5
MP Elevation (ft)	NA	CND (mS/cm)	8.77
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.22
Sounded Well Depth (ft bmp)	10.77	pH (s.u.)	7.07
Depth to Water (ft bmp)	8.51	ORP (mV)	-124.1
Water-Level Elevation (ft)	NA	Turbidity (NTU)	3.94
Water Column in Well (ft)	2.26	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	0.37		
Volume Pumped/Bailed Prior to Sampling	1.32 gallons		
Sample Pump Intake Setting (ft bmp)	19.00	Sampling Method	Low-Flow
Purge Time	begin 15:13 end 15:53	Remarks	
Pumping Rate (ml/min)	125		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Rachel Stern		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-10 PROJ #: MI001454.0006.00003

DATE : 3/1/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
15:13	21.6	8.33	0.61	7.16	-69.8	150	10.4	8.51
15:18	21.6	8.35	0.50	7.15	-83.2	150	8.04	8.76
15:23	21.6	8.39	0.42	7.15	-99.4	100	7.55	8.76
15:28	21.6	8.48	0.30	7.14	-111.6	100	9.06	8.76
15:33	21.6	8.57	0.28	7.12	-118.4	125	9.44	8.71
15:36	21.6	8.61	0.27	7.11	-120.6	125	8.85	8.71
15:39	21.6	8.62	0.22	7.11	-122.6	125	7.55	8.71
15:42	21.6	8.63	0.25	7.10	-123.7	125	7.83	8.71
15:45	21.6	8.67	0.20	7.10	-125.0	125	4.75	8.71
15:48	21.6	8.74	0.20	7.08	-124.1	125	4.01	8.71
15:51	21.5	8.76	0.21	7.08	-123.8	125	3.43	8.71
15:53	21.5	8.77	0.22	7.07	-124.1	125	3.94	8.71
Total Depth of Well:		10.77						
Depth To Water Before Purging:			8.51					
Depth To Water After Purging:			8.71					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003		Page	1 of	1
Site Location	Livonia, MI				Date	3/1/2019	
Site/Well No.	MW-58	Replicate No.	--		Code No.	--	
Weather	37°F, sunny	Sampling Time:	Begin	15:57	End	15:57	

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	10.7
MP Elevation (ft)	NA	CND (mS/cm)	4.80
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.95
Sounded Well Depth (ft bmp)	19.66	pH (s.u.)	7.18
Depth to Water (ft bmp)	4.65	ORP (mV)	-60.2
Water-Level Elevation (ft)	NA	Turbidity (NTU)	38.20
Water Column in Well (ft)	15.01	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	2.44		
Volume Pumped/Bailed Prior to Sampling	2.08 gallons		
Sample Pump Intake Setting (ft bmp)	17.50	Sampling Method	Low-Flow
Purge Time	begin 15:10 end 15:55	Remarks	
Pumping Rate (ml/min)	175		Missing one bolt, cracked slightly
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Madison Olender		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-58 PROJ #: MI001454.0006.00003

DATE : 3/1/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
15:10	11.5	4.75	6.37	7.18	-6.7	275	84.5	4.65
15:15	11.7	4.94	2.09	7.17	-37.8	275	-38	4.81
15:20	10.7	4.86	1.56	7.17	-46.3	150	49.3	4.81
15:25	11.2	4.89	1.35	7.17	-49.0	150	52	4.81
15:30	10.6	4.83	1.23	7.17	-51.5	150	50.6	4.81
15:35	11.0	4.84	1.12	7.17	-55.1	150	45.6	4.81
15:40	11.2	4.86	0.96	7.17	-57.9	150	43.2	4.81
15:45	11.0	4.85	0.94	7.18	-59.8	150	39.5	4.81
15:50	10.8	4.83	0.93	7.18	-59.5	150	39.7	4.81
15:55	10.7	4.80	0.95	7.18	-60.2	150	38.2	4.81
Total Depth of Well:		19.66						
Depth To Water Before Purging:			4.65					
Depth To Water After Purging:			4.81					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1	of	1
Site Location	Livonia, MI			Date	3/2/2019		
Site/Well No.	MW-31	Replicate No.	MS/MSD	Code No.	--		
Weather	28°F cloudy	Sampling Time:	Begin 9:22	End	9:22		

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	11.2
MP Elevation (ft)	NA	CND (mS/cm)	10.79
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.23
Sounded Well Depth (ft bmp)	21.66	pH (s.u.)	7.12
Depth to Water (ft bmp)	9.57	ORP (mV)	120.3
Water-Level Elevation (ft)	NA	Turbidity (NTU)	1.02
Water Column in Well (ft)	12.09	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.96		
Volume Pumped/Bailed Prior to Sampling	1.15 gallons		
Sample Pump Intake Setting (ft bmp)	19.50	Sampling Method	Low-Flow
Purge Time	begin 8:50 end 9:22	Remarks	
Pumping Rate (ml/min)	136.1111111		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Rachel Stern		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

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YSI/LOW FLOW SAMPLING LOG

WELL : MW-31 PROJ #: MI001454.0006.00003

DATE : 3/2/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
8:50	11.7	11.48	1.37	7.05	158.5	175	14.9	9.57
8:55	11.4	11.50	0.75	7.06	151.1	175	5.91	9.57
9:00	11.3	11.30	0.50	7.09	141.3	125	3.5	9.67
9:05	11.3	11.07	0.64	7.10	135.4	125	2.29	9.67
9:10	11.0	10.94	0.53	7.11	130.4	125	2.29	9.66
9:13	11.2	10.94	0.32	7.11	126.6	125	1.49	9.66
9:16	11.1	10.84	0.22	7.11	124.7	125	0.49	9.66
9:19	11.0	10.79	0.23	7.12	122.5	125	0.72	9.66
9:22	11.2	10.79	0.23	7.12	120.3	125	1.02	9.66
Total Depth of Well:		21.66						
Depth To Water Before Purging:			9.57					
Depth To Water After Purging:			9.66					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/2/2019
Site/Well No.	MW-15-61D	Replicate No.	MS-MSD	Code No.	--
Weather	33F Cloudy	Sampling Time:	Begin 9:25	End	9:25

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	13.9
MP Elevation (ft)	NA	CND (mS/cm)	924.00
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.58
Sounded Well Depth (ft bmp)	92.85	pH (s.u.)	7.37
Depth to Water (ft bmp)	21.9	ORP (mV)	39.6
Water-Level Elevation (ft)	NA	Turbidity (NTU)	25.30
Water Column in Well (ft)	70.95	Color	None
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	11.53		
Volume Pumped/Bailed Prior to Sampling	6.34 gallons		
Sample Pump Intake Setting (ft bmp)	87.85	Sampling Method	Low-Flow
Purge Time	begin 8:15 end 9:35	Remarks	
Pumping Rate (ml/min)	300		None
Evacuation Method	Low-Flow Submersible		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Cooper Zilio		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

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YSI/LOW FLOW SAMPLING LOG

WELL : MW-15-61D PROJ #: MI001454.0006.00003

DATE : 3/2/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
8:20	12.5	1011.00	5.15	7.16	141.6	300	142	26.95
8:25	12.0	952.00	4.13	7.17	126.3	300	67.7	27.80
8:30	12.0	939.00	3.64	7.21	111.3	300	50.6	28.90
8:35	10.5	937.00	3.49	7.24	102.4	300	34.1	30.87
8:40	12.6	901.00	3.03	7.29	88.0	300	26.7	34.27
8:45	13.4	928.00	2.60	7.34	76.3	300	23.6	38.10
8:50	11.9	932.00	2.59	7.35	69.9	300	16.4	39.84
8:55	12.8	917.00	2.23	7.33	63.7	300	26.6	43.40
9:00	13.1	926.00	2.05	7.33	56.0	300	20	46.17
9:05	13.2	926.00	1.79	7.34	52.1	300	11.2	48.70
9:10	13.6	926.00	1.75	7.33	47.2	300	15.2	51.49
9:15	12.8	922	1.25	7.37	4.2	300	12.6	54.63
9:20	13.9	924	0.58	7.37	39.6	300	25.3	56.89
Total Depth of Well:		92.85						
Depth To Water Before Purging:			26.95					
Depth To Water After Purging:			56.89					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1	of	1
Site Location	Livonia, MI			Date	3/2/2019		
Site/Well No.	MW-52	Replicate No.	MS/MSD	Code No.	--		
Weather	30F partly cloudy	Sampling Time:	Begin 10:05	End	10:05		

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	19.73		
Depth to Water (ft bmp)	7.13		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	12.6		
Casing Diameter/Type	2"	PVC	
Gallons in Well	2.05		
Volume Pumped/Bailed Prior to Sampling	3.9 gallons		
Sample Pump Intake Setting (ft bmp)	17.50		
Purge Time	begin 9:04	end 10:03	
Pumping Rate (ml/min)	250		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	11.2
CND (mS/cm)	3.07
Dissolved Oxygen (mg/L)	10.41
pH (s.u.)	7.18
ORP (mV)	-87.0
Turbidity (NTU)	3.45
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Rachel Stern		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-52 PROJ #: MI001454.0006.00003

DATE : 3/2/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
9:06	11.3	2.81	14.20	7.03	-19.8	250	21.9	7.31
9:12	11.4	2.88	13.60	7.06	-45.3	250	13.9	7.31
9:17	11.7	2.94	12.81	7.09	-65.3	250	22.5	7.31
9:22	11.7	2.98	12.52	7.12	-72.3	250	12.1	7.31
9:28	11.6	3.02	12.23	7.14	-77.3	250	4.87	7.31
9:32	11.5	3.03	11.96	7.15	-80.6	250	5.98	7.31
9:37	11.6	3.06	11.56	7.16	-83.0	250	3.83	7.31
9:42	11.6	3.07	11.29	7.17	-85.3	250	5.75	7.31
9:46	11.5	3.07	11.32	7.17	-86.2	250	5.24	7.31
9:53	11.3	3.09	10.90	7.18	-85.8	250	3.89	7.31
9:56	11.3	3.09	10.76	7.18	-86.3	250	3.85	7.31
10:00	11.2	3.07	10.41	7.18	-87	250	3.45	7.31
Total Depth of Well:		19.73						
Depth To Water Before Purging:			7.31					
Depth To Water After Purging:			7.31					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/2/2019
Site/Well No.	MW-42	Replicate No.	NA	Code No.	--
Weather	33F cloudy	Sampling Time:	Begin 10:40	End	10:40

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	19.42		
Depth to Water (ft bmp)	8.26		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	11.16		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.81		
Volume Pumped/Bailed Prior to Sampling	3.43 gallons		
Sample Pump Intake Setting (ft bmp)	16.92		
Purge Time	begin 9:40	end 10:45	
Pumping Rate (ml/min)	200		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	12.4
CND (mS/cm)	4158.00
Dissolved Oxygen (mg/L)	1.69
pH (s.u.)	7.14
ORP (mV)	7.2
Turbidity (NTU)	9.50
Color	None
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Cooper Zilio		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-42 PROJ #: MI001454.0006.00003

DATE : 3/2/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
9:45	10.8	3625.00	4.42	7.41	61.6	200	139	8.50
9:50	11.9	4082.00	3.71	7.09	44.7	200	40.2	8.52
9:55	11.9	4099.00	3.26	7.12	35.9	200	35.6	8.52
10:00	11.9	4120.00	2.85	7.12	31.1	200	39.9	8.52
10:05	12.5	4119.00	2.33	7.13	24.4	200	33.5	8.52
10:10	12.1	4110.00	2.24	7.14	19.1	200	38.2	8.52
10:15	12.2	4120.00	2.02	7.14	14.0	200	29.9	8.52
10:20	12.3	4123.00	1.83	7.14	9.0	200	21.7	8.52
10:25	12.3	4142.00	1.78	7.14	7.8	200	10.1	8.52
10:30	12.3	4148.00	1.74	7.14	7.5	200	9.89	8.52
10:35	12.4	4158.00	1.69	7.14	7.2	200	9.5	8.52
Total Depth of Well:		19.42						
Depth To Water Before Purging:			8.50					
Depth To Water After Purging:			8.52					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1	of	1
Site Location	Livonia, MI			Date	3/2/2019		
Site/Well No.	MW-30	Replicate No.	MS/MSD	Code No.	--		
Weather	29°F cloudy	Sampling Time:	Begin 10:53	End	10:53		

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	12.1
MP Elevation (ft)	NA	CND (mS/cm)	3.35
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.22
Sounded Well Depth (ft bmp)	24.71	pH (s.u.)	7.23
Depth to Water (ft bmp)	9.41	ORP (mV)	48.9
Water-Level Elevation (ft)	NA	Turbidity (NTU)	25.00
Water Column in Well (ft)	15.3	Color	Suspended orange particulates
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	2.49		
Volume Pumped/Bailed Prior to Sampling	1.16 gallons		
Sample Pump Intake Setting (ft bmp)	21.50	Sampling Method	Low-Flow
Purge Time	begin 10:18 end 10:53	Remarks	
Pumping Rate (ml/min)	125		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Rachel Stern		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-30 PROJ #: MI001454.0006.00003

DATE : 3/2/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
10:18	11.4	3.25	0.71	7.25	84.7	125	58	9.41
10:23	11.7	3.30	0.57	7.22	82.7	125	58	9.58
10:28	11.5	3.31	0.49	7.20	78.9	125	36.5	9.58
10:33	11.3	3.31	0.36	7.21	74.0	125	44	10.12
10:38	11.8	3.36	0.25	7.21	68.8	125	48.3	10.12
10:41	11.9	3.37	0.26	7.22	64.0	125	37.4	10.12
10:44	11.9	3.36	0.29	7.22	61.7	125	27.3	10.12
10:47	12.1	3.36	0.23	7.23	57.1	125	22.9	10.36
10:50	12.0	3.35	0.23	7.23	53.3	125	23.8	10.36
10:53	12.1	3.35	0.22	7.23	48.9	125	25	10.36
Total Depth of Well:		24.71						
Depth To Water Before Purging:			9.41					
Depth To Water After Purging:			10.36					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/2/2019
Site/Well No.	MW-41	Replicate No.	NA	Code No.	--
Weather	33F cloudy	Sampling Time:	Begin 11:45	End	11:45

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	11.5
MP Elevation (ft)	NA	CND (mS/cm)	12340.00
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.10
Sounded Well Depth (ft bmp)	20.93	pH (s.u.)	7.20
Depth to Water (ft bmp)	8.74	ORP (mV)	-24.1
Water-Level Elevation (ft)	NA	Turbidity (NTU)	8.01
Water Column in Well (ft)	12.19	Color	None
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.98		
Volume Pumped/Bailed Prior to Sampling	3.17 gallons		
Sample Pump Intake Setting (ft bmp)	18.43	Sampling Method	Low-Flow
Purge Time	begin 10:50 end 11:50	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Cooper Zilio		

	Well Casing Volumes				
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

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YSI/LOW FLOW SAMPLING LOG

WELL : MW-41 PROJ #: MI001454.0006.00003

DATE : 3/2/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
10:55	11.9	12458.00	0.11	7.18	23.3	200	25.2	9.09
11:00	11.5	12372.00	0.11	7.18	16.9	200	17.2	9.09
11:05	11.5	12411.00	0.10	7.18	11.1	200	14.1	9.09
11:10	11.4	12448.00	0.10	7.19	5.5	200	12.9	9.09
11:15	11.5	12471.00	0.10	7.19	-0.1	200	10.3	9.09
11:20	11.5	12479.00	0.10	7.19	-4.9	200	11.4	9.09
11:25	11.4	12452.00	0.10	7.19	-10.6	200	9.65	9.09
11:30	11.4	12415.00	0.10	7.19	-19.6	200	8.09	9.09
11:35	11.5	12365.00	0.10	7.20	-21.3	200	7.98	9.09
11:40	11.5	12340.00	0.10	7.20	-24.1	200	8.01	9.09
Total Depth of Well:		20.93						
Depth To Water Before Purging:			9.09					
Depth To Water After Purging:			9.09					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/2/2019
Site/Well No.	MW-43	Replicate No.	--	Code No.	--
Weather	30 F partly cloudy	Sampling Time:	Begin 12:00	End	12:00

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	12.1
MP Elevation (ft)	NA	CND (mS/cm)	4.27
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	8.75
Sounded Well Depth (ft bmp)	21.45	pH (s.u.)	7.29
Depth to Water (ft bmp)	7.28	ORP (mV)	-103.2
Water-Level Elevation (ft)	NA	Turbidity (NTU)	10.40
Water Column in Well (ft)	14.17	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	2.3		
Volume Pumped/Bailed Prior to Sampling	2.54 gallons		
Sample Pump Intake Setting (ft bmp)	19.50	Sampling Method	Low-Flow
Purge Time	begin 11:10 end 11:58	Remarks	
Pumping Rate (ml/min)	200		Rust colored water at beginning of purging
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Rachel Stern		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-43 PROJ #: MI001454.0006.00003

DATE : 3/2/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
11:12	11.6	4.73	14.46	7.26	-77.3	200	102	7.61
11:17	11.7	4.66	12.59	7.25	-82.9	200	36.1	7.61
11:22	11.9	4.49	12.00	7.27	-90.5	200	18.2	7.61
11:27	11.7	4.36	11.39	7.28	-126.6	200	12.6	7.61
11:34	11.6	4.30	10.73	7.29	-102.0	200	11.7	7.61
11:39	11.6	4.29	10.30	7.29	-100.4	200	10.4	7.61
11:44	11.5	4.27	9.81	7.29	-100.2	200	10.6	7.61
11:49	12.0	4.28	9.16	7.29	-101.9	200	10.4	7.61
11:52	11.9	4.26	9.04	7.29	-102.5	200	10.2	7.61
11:55	12.1	4.27	8.75	7.29	-103.2	200	10.4	7.61
Total Depth of Well:		21.45						
Depth To Water Before Purging:			7.61					
Depth To Water After Purging:			7.61					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1	of	1
Site Location	Livonia, MI			Date	3/2/2019		
Site/Well No.	MW-34	Replicate No.	None	Code No.	--		
Weather	31°F mostly cloudy	Sampling Time:	Begin 12:35	End	12:35		

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	20.2		
Depth to Water (ft bmp)	8.75		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	11.45		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.86		
Volume Pumped/Bailed Prior to Sampling	1.06 gallons		
Sample Pump Intake Setting (ft bmp)	20.00		
Purge Time	begin 12:03	end 12:35	
Pumping Rate (ml/min)	125		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	11.2
CND (mS/cm)	4.76
Dissolved Oxygen (mg/L)	1.45
pH (s.u.)	7.20
ORP (mV)	60.5
Turbidity (NTU)	1.97
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Rachel Stern		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-34 PROJ #: MI001454.0006.00003

DATE : 3/2/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
12:03	10.9	4.55	2.53	7.41	68.9	125	10.6	8.75
12:08	11.2	4.71	2.18	7.27	67.7	125	11.6	9.43
12:13	10.9	4.74	2.16	7.24	67.7	125	4.47	9.58
12:18	11.2	4.79	1.98	7.22	66.4	125	2.55	9.70
12:23	10.8	4.75	1.74	7.22	65.3	125	2.59	9.61
12:26	10.8	4.74	1.59	7.22	64.8	125	2.59	9.60
12:29	10.9	4.75	1.50	7.21	63.2	125	2.78	9.59
12:32	10.9	4.74	1.57	7.21	62.0	125	2.95	9.61
12:35	11.2	4.76	1.45	7.20	60.5	125	1.97	9.61
Total Depth of Well:		20.2						
Depth To Water Before Purging:			8.75					
Depth To Water After Purging:			9.61					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/2/2019
Site/Well No.	MW-35	Replicate No.	--	Code No.	--
Weather	30 F partly cloudy	Sampling Time:	Begin 13:50	End	13:50

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	24.55		
Depth to Water (ft bmp)	8.52		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	16.03		
Casing Diameter/Type	2"	PVC	
Gallons in Well	2.6		
Volume Pumped/Bailed Prior to Sampling	3.28 gallons		
Sample Pump Intake Setting (ft bmp)	22.00	Sampling Method	Low-Flow
Purge Time	begin 12:47	end 13:49	Remarks
Pumping Rate (ml/min)	200		High NTU at beginning
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	12.5
CND (mS/cm)	1.63
Dissolved Oxygen (mg/L)	8.26
pH (s.u.)	7.58
ORP (mV)	-142.4
Turbidity (NTU)	180.00
Color	Clear
Odor	Slight odor

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Rachel Stern		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-35 PROJ #: MI001454.0006.00003

DATE : 3/2/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
12:49	12.2	1.77	17.31	7.59	-71.4	200	190	9.10
12:56	12.5	1.78	12.91	7.59	-92.7	200	424	9.80
13:00	12.6	1.77	12.06	7.59	-108.1	200	324	9.80
13:06	12.7	1.75	11.44	7.59	-117.5	200	298	9.80
13:10	12.7	1.74	11.05	7.59	-122.9	200	257	10.00
13:15	12.8	1.73	10.60	7.58	-127.2	200	205	10.20
13:22	12.9	1.71	9.94	7.58	-131.4	200	278	10.30
13:28	13.1	1.70	9.40	7.58	-135.1	200	306	10.30
13:34	12.9	1.66	9.11	7.58	-138.4	200	209	10.30
13:38	12.8	1.66	8.96	7.58	-139.3	200	132	10.30
13:42	12.8	1.66	9.84	7.58	-140.0	200	155	10.30
13:47	13.0	1.65	8.31	7.58	-141.4	200	181	10.30
13:49	12.5	1.63	8.26	7.58	-142.4	200	180	10.30
Total Depth of Well:		24.55						
Depth To Water Before Purging:			9.10					
Depth To Water After Purging:			10.3					

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/4/2019
Site/Well No.	MW-48	Replicate No.	--	Code No.	--
Weather	10 F overcast	Sampling Time:	Begin 11:10	End	11:10

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	9.7
MP Elevation (ft)	NA	CND (mS/cm)	11.67
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.38
Sounded Well Depth (ft bmp)	20.4	pH (s.u.)	8.63
Depth to Water (ft bmp)	9.8	ORP (mV)	198.4
Water-Level Elevation (ft)	NA	Turbidity (NTU)	9.80
Water Column in Well (ft)	10.6	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.72		
Volume Pumped/Bailed Prior to Sampling	2.77 gallons		
Sample Pump Intake Setting (ft bmp)	18.00	Sampling Method	Low-Flow
Purge Time	begin 10:05 end 11:15	Remarks	
Pumping Rate (ml/min)	150		Note: first few measurements were of spec. Conductivity in um/cm. Disregard.
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-48 PROJ #: MI001454.0006.00003

DATE : 3/4/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
10:05	7.5	13742.00	2.81	8.49	224.4	150	41.8	9.80
10:10	8.3	16660.00	1.90	8.70	224.5	150	19.8	9.80
10:15	8.1	17941.00	1.39	8.83	222.1	150	24.8	10.23
10:20	8.7	18981.00	0.88	8.90	219.9	150	28.2	10.23
10:25	8.5	13.19	0.73	8.97	216.5	150	22.9	10.23
10:30	8.8	12.46	0.62	8.77	212.5	150	19.3	10.23
10:35	9.0	12.75	0.63	8.79	211.2	150	13.7	10.23
10:40	8.8	12.24	0.52	8.72	208.6	150	12	10.23
10:45	9.0	12.19	0.48	8.71	205.7	150	12.6	10.23
10:50	9.1	12.28	0.43	8.72	205.4	150	10	10.23
10:55	9.3	12.08	0.41	8.63	202.0	150	9.35	10.23
11:00	9.4	12.19	0.36	8.70	201.5	150	11.1	10.23
11:05	9.7	11.67	0.38	8.63	198.4	150	9.8	10.23
Total Depth of Well:		20.4						
Depth To Water Before Purgin			9.80					
Depth To Water After Purging:			10.23					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/4/2019
Site/Well No.	MW-66	Replicate No.	Dup-06	Code No.	--
Weather	10 F moderate wind and snow	Sampling Time:	Begin 13:00	End	13:00

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	19.11		
Depth to Water (ft bmp)	7.65		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	11.46		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.86		
Volume Pumped/Bailed Prior to Sampling	2.26 gallons		
Sample Pump Intake Setting (ft bmp)	17.00		
Purge Time	begin 12:05	end 13:02	
Pumping Rate (ml/min)	150		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	7.3
CND (mS/cm)	2.23
Dissolved Oxygen (mg/L)	0.20
pH (s.u.)	7.63
ORP (mV)	98.9
Turbidity (NTU)	3.99
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	Piece holding bolt in place broken

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Brett Pertunen		

	Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-66 PROJ #: MI001454.0006.00003

DATE : 3/4/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
12:05	8.5	2.29	0.46	8.49	132.0	150	21.7	7.65
12:10	7.2	2.21	0.42	8.09	121.7	150	16.1	7.81
12:15	7.2	2.21	0.30	7.89	117.3	150	12.8	7.81
12:20	7.5	2.23	0.27	7.78	113.8	150	10.8	7.81
12:25	7.0	2.21	0.25	7.72	110.8	150	9.02	7.81
12:30	7.0	2.21	0.24	7.69	108.3	150	7.19	7.81
12:35	6.9	2.21	0.21	7.67	105.6	150	6.07	7.81
12:40	7.2	2.22	0.20	7.65	103.1	150	4.11	7.81
12:45	7.1	2.22	0.20	7.64	101.8	150	4.18	7.81
12:50	7.3	2.23	0.20	7.63	98.9	150	3.99	7.81
Total Depth of Well:		19.11						
Depth To Water Before Purging:			7.65					
Depth To Water After Purging:			7.81					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/5/2019
Site/Well No.	MW-15-59D	Replicate No.	NA	Code No.	--
Weather	9F cloudy	Sampling Time:	Begin 10:45	End	10:45

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	99.87		
Depth to Water (ft bmp)	20.71		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	79.16		
Casing Diameter/Type	2"	PVC	
Gallons in Well	12.86		
Volume Pumped/Bailed Prior to Sampling	5.94 gallons		
Sample Pump Intake Setting (ft bmp)	94.87	Sampling Method	Low-Flow
Purge Time	begin 9:35	end 10:50	Remarks
Pumping Rate (ml/min)	300		Bolt tabs broken off
Evacuation Method	Low-Flow	Submersible	

Field Parameters

Temperature (°C)	12.4
CND (mS/cm)	983.00
Dissolved Oxygen (mg/L)	0.09
pH (s.u.)	8.34
ORP (mV)	-62.8
Turbidity (NTU)	9.80
Color	None
Odor	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Cooper Zilio		

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-15-59D PROJ #: MI001454.0006.00003

DATE : 3/5/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
9:40	12.4	2172.00	1.70	8.15	88.8	300	68.3	21.02
9:45	12.9	1757.00	0.85	8.23	67.1	300	56	21.02
9:50	12.6	1525.00	0.35	8.27	50.4	300	52.5	21.02
9:55	12.6	1419.00	0.19	8.29	36.8	300	49.6	21.02
10:00	12.6	1279.00	0.16	8.30	23.7	300	31.1	21.02
10:05	12.5	1227.00	0.18	8.31	11.0	300	22.3	21.02
10:10	12.5	1180.00	0.15	8.32	-0.7	300	15.6	21.02
10:15	12.8	1110.00	0.15	8.33	-13.7	300	12.8	21.02
10:20	12.7	1084.00	0.08	8.33	-23.0	300	13.7	21.02
10:25	12.8	1095.00	0.13	8.32	-32.4	300	12.7	21.02
10:30	12.7	991.00	0.11	8.34	-43.6	300	11.1	21.02
10:35	12.6	988	0.11	8.34	-52.9	300	10.3	21.02
10:40	12.4	983	0.09	8.34	-62.8	300	9.8	21.02
Total Depth of Well:		99.87						
Depth To Water Before Purgin			21.02					
Depth To Water After Purging:			21.02					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/5/2019
Site/Well No.	MW-15-60D	Replicate No.	NA	Code No.	--
Weather	9F cloudy	Sampling Time:	Begin 12:30	End	12:30

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	14.0
MP Elevation (ft)	NA	CND (mS/cm)	525.50
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.33
Sounded Well Depth (ft bmp)	99.46	pH (s.u.)	8.13
Depth to Water (ft bmp)	18.94	ORP (mV)	-202.8
Water-Level Elevation (ft)	NA	Turbidity (NTU)	14.90
Water Column in Well (ft)	80.52	Color	None
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	13.08		
Volume Pumped/Bailed Prior to Sampling	5.94 gallons		
Sample Pump Intake Setting (ft bmp)	94.46	Sampling Method	Low-Flow
Purge Time	begin 11:20 end 12:35	Remarks	
Pumping Rate (ml/min)	300		None
Evacuation Method	Low-Flow Submersible		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
VOCs	40 mlL VOA	3	HCL
Sampling Personnel	Cooper Zilio		

	Well Casing Volumes				
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-15-60D PROJ #: MI001454.0006.00003

DATE : 3/5/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
11:25	13.6	583.20	1.02	7.70	-63.5	300	190	19.62
11:30	13.4	581.00	0.45	7.73	-82.9	300	361	19.62
11:35	13.5	562.70	0.35	7.83	-105.6	300	220	19.62
11:40	13.4	535.80	0.29	7.95	-125.2	300	147	19.62
11:45	13.4	531.50	0.26	8.01	-129.7	300	112	19.62
11:50	12.9	526.80	0.27	8.05	-145.5	300	80.9	19.62
11:55	13.8	530.80	0.30	8.06	-163.7	300	44.8	19.62
12:00	12.9	527.90	0.17	8.09	-161.8	300	68.8	19.62
12:05	13.8	527.90	0.42	8.05	-151.0	300	112	19.62
12:10	14.1	543.40	0.20	8.06	-173.1	300	13.8	19.62
12:15	14.0	532.20	0.29	8.10	-183.0	300	20.5	19.62
12:20	14.1	533.6	0.52	8.08	-183.2	300	15.9	19.62
12:25	14.0	525.5	0.33	8.13	-202.8	300	14.9	19.62
Total Depth of Well:		99.46						
Depth To Water Before Purgin			19.62					
Depth To Water After Purging:			19.62					

APPENDIX C

Off-Site Groundwater Field Sampling Logs

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/25/2019
Site/Well No.	MW-102	Replicate No.	--	Code No.	--
Weather	21 F 20-30 mph W wind, partly cloudy	Sampling Time:	Begin 12:56	End	12:56

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	14.65		
Depth to Water (ft bmp)	0.78		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	13.87		
Casing Diameter/Type	2"	PVC	
Gallons in Well	2.25		
Volume Pumped/Bailed Prior to Sampling	1.9 gallons		
Sample Pump Intake Setting (ft bmp)	13		
Purge Time	begin 12:20	end 12:56	
Pumping Rate (ml/min)	200		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	6.6
CND (mS/cm)	7777.00
Dissolved Oxygen (mg/L)	0.17
pH (s.u.)	7.29
ORP (mV)	-73.1
Turbidity (NTU)	0.02
Color	Clear
Odor	No
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: #N/A

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-102 PROJ #: MI001454.0006.00003

DATE : 2/25/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
12:25	6.1	7776.00	0.31	7.14	-50.9	200	0.02	0.83
12:30	6.2	7735.00	0.24	7.20	-58.1	200	0.02	0.83
12:35	6.0	7772.00	0.21	7.24	-63.1	200	0.02	0.83
12:40	6.1	7775.00	0.19	7.26	-66.3	200	0.02	0.83
12:45	6.3	7783.00	0.18	7.28	-69.0	200	0.02	0.83
12:50	6.5	7765.00	0.17	7.29	-71.5	200	0.02	0.83
12:55	6.6	7777.00	0.17	7.29	-73.1	200	0.02	0.83
Total Depth of Well:		14.65						
Depth To Water Before Purging:				0.83				
Depth To Water After Purging:				0.83				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/25/2019
Site/Well No.	MW-102s	Replicate No.	--	Code No.	--
Weather	23 F, 20 mph west wind, partly cloudy	Sampling Time:	Begin 14:05	End	14:05

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	4.0
MP Elevation (ft)	NA	CND (mS/cm)	5107.00
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.10
Sounded Well Depth (ft bmp)	12.35	pH (s.u.)	7.45
Depth to Water (ft bmp)	0.97	ORP (mV)	-13.2
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.02
Water Column in Well (ft)	11.38	Color	Clear
Casing Diameter/Type	2" PVC	Odor	No
Gallons in Well	1.85		
Volume Pumped/Bailed Prior to Sampling	1.85 gallons		
Sample Pump Intake Setting (ft bmp)	3	Sampling Method	Low-Flow
Purge Time	begin 13:30 end 14:05	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: #N/A

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-102s PROJ #: MI001454.0006.00003

DATE : 2/25/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
13:35	3.4	3873.00	0.14	7.53	-20.9	200	0.02	0.83
13:40	3.5	4663.00	0.11	7.47	-14.7	200	0.02	0.83
13:45	3.8	4945.00	0.10	7.47	-12.6	200	0.02	0.83
13:50	3.9	5059.00	0.10	7.45	-13.0	200	0.02	0.83
13:55	4.0	5076.00	0.10	7.45	-13.1	200	0.02	0.83
13:59	4.0	5101.00	0.10	7.45	-13.1	200	0.02	0.83
14:05	4.0	5107.00	0.10	7.45	-13.2	200	0.02	0.83
Total Depth of Well:		12.35						
Depth To Water Before Purging:				0.83				
Depth To Water After Purging:				0.83				

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/25/2019
Site/Well No.	MW-105s	Replicate No.	--	Code No.	--
Weather	25 F, 20 mph west wind, sunny.	Sampling Time:	Begin 16:05	End	16:05

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	13.25		
Depth to Water (ft bmp)	2.47		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	10.78		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.75		
Volume Pumped/Bailed Prior to Sampling	2.91 gallons		
Sample Pump Intake Setting (ft bmp)	4		
Purge Time	begin 15:10	end 16:05	
Pumping Rate (ml/min)	200		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	4.3
CND (mS/cm)	4.23
Dissolved Oxygen (mg/L)	0.12
pH (s.u.)	7.28
ORP (mV)	-57.7
Turbidity (NTU)	0.02
Color	Clear
Odor	No
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: #N/A

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-105s PROJ #: MI001454.0006.00003

DATE : 2/25/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
15:15	3.2	0.94	0.42	7.16	-24.4	200	0.02	2.50
15:19	3.4	1.52	0.21	7.12	-15.5	200	0.02	2.50
15:24	3.6	3.00	0.17	7.09	-17.9	200	0.02	2.50
15:28	3.6	3.59	0.15	7.19	-30.0	200	0.02	2.50
15:32	3.9	3.72	0.14	7.25	-39.6	200	0.02	2.50
15:37	3.9	3.82	0.12	7.27	-44.4	200	0.02	2.50
15:41	4.4	4.51	0.07	7.28	-46.8	200	0.02	2.50
15:46	4.4	4.49	0.11	7.32	-51.8	200	0.02	2.50
15:51	4.4	4.33	0.10	7.32	-54.7	200	0.02	2.50
15:55	4.2	4.20	0.10	7.30	-56.0	200	0.02	2.50
16:00	4.4	4.17	0.12	7.28	-56.9	200	0.02	2.50
16:05	4.3	4.225	0.12	7.28	-57.7	200	0.02	2.50
Total Depth of Well:		13.25						
Depth To Water Before Purging:				2.50				
Depth To Water After Purging:				2.5				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/26/2019
Site/Well No.	MW-131s	Replicate No.	--	Code No.	--
Weather	17 F, N wind 6 mph, cloudy	Sampling Time:	Begin 9:47	End	9:47

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	5.0
MP Elevation (ft)	NA	CND (mS/cm)	4.22
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	1.33
Sounded Well Depth (ft bmp)	13.7	pH (s.u.)	7.18
Depth to Water (ft bmp)	3.93	ORP (mV)	-40.1
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.02
Water Column in Well (ft)	9.77	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.59		
Volume Pumped/Bailed Prior to Sampling	2.48 gallons		
Sample Pump Intake Setting (ft bmp)	5	Sampling Method	Low-Flow
Purge Time	begin 9:00 end 9:47	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Michael Kohagen

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-131s PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
9:05	4.3	1.64	2.00	6.77	25.2	200	2.79	3.97
9:11	4.5	2.38	0.82	6.81	3.6	200	1.25	3.97
9:15	4.7	2.86	0.80	6.88	-4.1	200	1.15	3.97
9:20	4.7	3.38	1.00	6.75	-12.2	200	0.02	3.97
9:25	4.8	4.01	0.99	7.04	-20.4	200	0.02	3.97
9:29	4.9	4.15	1.22	7.11	-28.1	200	0.02	3.97
9:35	5.1	4.19	1.29	7.15	-33.8	200	0.02	3.97
9:40	5.1	4.24	1.25	7.16	-37.0	200	0.02	3.97
9:45	5.0	4.22	1.33	7.18	-40.1	200	0.02	3.97
Total Depth of Well:		13.7						
Depth To Water Before Purging:				3.97				
Depth To Water After Purging:				3.97				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/26/2019
Site/Well No.	MW-132s	Replicate No.	--	Code No.	--
Weather	18 F, N w wind 10 mph, cloudy	Sampling Time:	Begin 11:22	End	11:22

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	12.38		
Depth to Water (ft bmp)	5.19		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	7.19		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.17		
Volume Pumped/Bailed Prior to Sampling	2.48 gallons		
Sample Pump Intake Setting (ft bmp)	7		
Purge Time	begin 10:35	end 11:22	
Pumping Rate (ml/min)	200		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	4.2
CND (mS/cm)	2.37
Dissolved Oxygen (mg/L)	4.55
pH (s.u.)	7.40
ORP (mV)	15.0
Turbidity (NTU)	0.02
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Michael Kohagen

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-132s PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
10:40	4.0	2.30	5.02	7.41	24.2	200	0.02	5.22
10:45	4.1	2.35	4.91	7.40	22.1	200	0.02	5.22
10:50	4.0	2.37	4.93	7.40	19.7	200	0.02	5.22
10:55	4.1	2.40	4.88	7.40	18.8	200	0.02	5.22
11:00	4.1	2.40	4.83	7.40	17.8	200	0.02	5.22
11:05	4.4	2.38	4.65	7.40	16.8	200	0.02	5.22
11:10	3.9	2.39	4.69	7.40	16.2	200	0.02	5.22
11:15	4.1	2.39	4.62	7.39	16.2	200	0.02	5.22
11:18	4.1	2.39	4.66	7.39	15.6	200	0.02	5.22
11:21	4.2	2.37	4.55	7.40	15.0	200	0.02	5.22
Total Depth of Well:		12.38						
Depth To Water Before Purging:				5.22				
Depth To Water After Purging:				5.22				

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/26/2019
Site/Well No.	MW-85	Replicate No.	--	Code No.	--
Weather	18 F, 10 mph N wind, cloudy	Sampling Time:	Begin 13:23	End	13:23

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	4.8
MP Elevation (ft)	NA	CND (mS/cm)	3.22
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.45
Sounded Well Depth (ft bmp)	12.7	pH (s.u.)	7.24
Depth to Water (ft bmp)	4.53	ORP (mV)	-55.1
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.02
Water Column in Well (ft)	8.17	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.33		
Volume Pumped/Bailed Prior to Sampling	3.28 gallons		
Sample Pump Intake Setting (ft bmp)	10	Sampling Method	Low-Flow
Purge Time	begin 12:20 end 13:22	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Michael Kohagen

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-85 PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
12:25	4.7	3.68	1.15	7.21	-28.2	200	12.2	4.59
12:30	4.9	3.69	0.95	7.23	-39.0	200	3.99	4.59
12:35	4.9	3.68	0.81	7.24	-45.8	200	2.36	4.59
12:40	4.8	3.62	0.68	7.25	-49.1	200	10.9	4.59
12:45	4.8	3.50	0.66	7.24	-49.0	200	6.22	4.59
12:50	4.6	3.44	0.66	7.24	-48.8	200	4.37	4.59
12:55	4.7	3.36	0.64	7.23	-49.2	200	3.29	4.59
13:00	4.9	3.31	0.57	7.24	-51.0	200	2.6	4.59
13:05	4.7	3.29	0.53	7.24	-52.1	200	0.79	4.59
13:10	4.8	3.25	0.50	7.24	-53.1	200	0.02	4.59
13:15	4.9	3.24	0.49	7.24	-54.2	200	0.02	4.59
13:18	4.8	3.233	0.45	7.24	-54.6	200	0.02	4.59
13:21	4.8	3.221	0.45	7.24	-55.1	200	0.02	4.59
Total Depth of Well:		12.7						
Depth To Water Before Purging:				4.59				
Depth To Water After Purging:				4.59				

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/26/2019
Site/Well No.	MW-78s	Replicate No.	--	Code No.	--
Weather	19 F, calm, cloudy	Sampling Time:	Begin 15:47	End	15:47

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	12.4		
Depth to Water (ft bmp)	1.92		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	10.48		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.7		
Volume Pumped/Bailed Prior to Sampling	3.43 gallons		
Sample Pump Intake Setting (ft bmp)	4		
Purge Time	begin 14:42	end 15:47	
Pumping Rate (ml/min)	200		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	4.1
CND (mS/cm)	2.89
Dissolved Oxygen (mg/L)	0.37
pH (s.u.)	7.49
ORP (mV)	-50.5
Turbidity (NTU)	0.02
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Michael Kohagen

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-78s PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
14:47	2.9	1.02	0.94	7.51	13.5	200	0.02	1.95
14:52	2.6	1.09	0.44	7.51	11.3	200	0.02	1.95
14:57	2.8	1.11	0.34	7.50	5.8	200	0.02	1.95
15:03	3.3	1.31	0.94	7.49	-3.6	200	0.02	1.95
15:07	3.4	1.35	0.97	7.48	-5.6	200	0.02	1.95
15:12	3.6	1.69	1.11	7.46	-13.9	200	0.02	1.95
15:17	3.5	2.08	0.99	7.46	-21.5	200	0.02	1.95
15:22	3.7	2.43	0.87	7.47	-28.8	200	0.02	1.95
15:26	3.8	2.61	0.67	7.47	-34.0	200	0.02	1.95
15:31	3.7	2.75	0.60	7.48	-39.0	200	0.02	1.95
15:36	3.8	2.81	0.50	7.48	-43.6	200	0.02	1.95
15:41	4.0	2.847	0.5	7.49	-47.2	200	0.02	1.95
15:44	4.1	2.859	0.45	7.49	-48.9	200	0.02	1.95
15:47	4.1	2.888	0.37	7.49	-50.5	200	0.02	1.95
Total Depth of Well:		12.4						
Depth To Water Before Purging:				1.95				
Depth To Water After Purging:				1.95				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/26/2019
Site/Well No.	MW-78	Replicate No.	--	Code No.	--
Weather	20 F, calm, cloudy	Sampling Time:	Begin 16:40	End	16:40

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	4.4
MP Elevation (ft)	NA	CND (mS/cm)	4.13
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	4.14
Sounded Well Depth (ft bmp)	11.75	pH (s.u.)	7.48
Depth to Water (ft bmp)	1.59	ORP (mV)	-68.3
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.02
Water Column in Well (ft)	10.16	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.65		
Volume Pumped/Bailed Prior to Sampling	1.9 gallons		
Sample Pump Intake Setting (ft bmp)	9	Sampling Method	Low-Flow
Purge Time	begin 16:00 end 16:36	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Michael Kohagen

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-107s	Replicate No.	--	Code No.	--
Weather	19 F, NE wind 5-10 mph, overcast	Sampling Time:	Begin 10:28	End	10:28

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	5.1
MP Elevation (ft)	NA	CND (mS/cm)	0.64
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.73
Sounded Well Depth (ft bmp)	12.2	pH (s.u.)	7.71
Depth to Water (ft bmp)	5.33	ORP (mV)	146.1
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.02
Water Column in Well (ft)	6.87	Color	Clear
Casing Diameter/Type	2" PVC	Odor	No
Gallons in Well	1.12		
Volume Pumped/Bailed Prior to Sampling	3.49 gallons		
Sample Pump Intake Setting (ft bmp)	7	Sampling Method	Low-Flow
Purge Time	begin 9:21 end 10:27	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Michael Kohagen

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-107s PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
9:26	4.9	0.54	1.73	6.63	149.3	200	6.39	5.47
9:31	4.9	0.51	1.07	7.18	146.7	200	0.02	5.65
9:36	5.1	0.49	0.77	7.57	144.5	200	0.02	5.85
9:46	4.9	0.50	0.78	7.86	144.6	200	0.02	5.92
9:51	4.9	0.52	0.76	7.89	144.4	200	0.02	6.03
9:56	5.1	0.55	0.70	7.88	145.4	200	0.02	6.03
10:01	4.9	0.56	0.75	7.79	147.2	200	0.02	6.09
10:06	4.9	0.59	0.72	7.74	147.9	200	0.02	6.10
10:11	4.9	0.60	0.71	7.71	148.1	200	0.02	6.10
10:16	4.9	0.62	0.72	7.73	146.1	200	0.02	6.10
10:20	5.0	617.20	0.71	7.72	145.8	200	0.02	6.10
10:23	4.9	620.4	0.71	7.73	145.8	200	0.02	6.10
10:26	5.1	0.6432	0.73	7.71	146.1	200	0.02	6.10
Total Depth of Well:		12.2						
Depth To Water Before Purging:				5.47				
Depth To Water After Purging:				6.1				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-106s	Replicate No.	--	Code No.	--
Weather	20 F, NE wind 5-10 mph, cloudy	Sampling Time:	Begin 12:05	End	12:05

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	3.2
MP Elevation (ft)	NA	CND (mS/cm)	0.76
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	7.30
Sounded Well Depth (ft bmp)	11.78	pH (s.u.)	7.58
Depth to Water (ft bmp)	2.49	ORP (mV)	128.4
Water-Level Elevation (ft)	NA	Turbidity (NTU)	6.80
Water Column in Well (ft)	9.29	Color	Clear
Casing Diameter/Type	2" PVC	Odor	No
Gallons in Well	1.51		
Volume Pumped/Bailed Prior to Sampling	3.49 gallons		
Sample Pump Intake Setting (ft bmp)	4	Sampling Method	Low-Flow
Purge Time	begin 10:57 end 12:03	Remarks	
Pumping Rate (ml/min)	200		Split w MDEQ
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Michael Kohagen

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-106s PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
11:02	3.4	0.56	8.41	7.94	137.0	200	43.1	2.61
11:07	3.3	0.57	8.36	7.91	137.5	200	41.5	2.63
11:12	3.3	0.61	8.64	7.85	138.8	200	29	2.65
11:17	3.5	0.64	8.60	7.84	136.9	200	20.5	2.65
11:22	3.6	0.66	8.35	7.76	137.2	200	17.3	2.65
11:27	3.6	0.68	8.24	7.72	136.2	200	17.1	2.66
11:32	3.4	0.70	8.21	7.70	134.8	200	19.2	2.66
11:37	3.5	0.71	7.98	7.67	132.5	200	18.3	2.67
11:42	3.3	0.74	7.70	7.63	132.7	200	13.5	2.67
11:47	3.3	0.74	7.58	7.62	131.5	200	13.2	2.67
11:52	3.3	0.74	7.44	7.60	130.0	200	9.9	2.67
11:57	3.2	0.7468	7.34	7.60	128.9	200	8.1	2.67
12:02	3.2	0.7553	7.3	7.58	128.4	200	6.8	2.67
Total Depth of Well:		11.78						
Depth To Water Before Purging:				2.61				
Depth To Water After Purging:				2.67				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-96S	Replicate No.	--	Code No.	--
Weather	20 F, calm, cloudy	Sampling Time:	Begin 14:37	End	14:37

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	5.6
MP Elevation (ft)	NA	CND (mS/cm)	0.55
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.42
Sounded Well Depth (ft bmp)	12.1	pH (s.u.)	7.40
Depth to Water (ft bmp)	4.8	ORP (mV)	87.4
Water-Level Elevation (ft)	NA	Turbidity (NTU)	4.85
Water Column in Well (ft)	7.3	Color	Clear
Casing Diameter/Type	2" PVC	Odor	No
Gallons in Well	1.19		
Volume Pumped/Bailed Prior to Sampling	3.49 gallons		
Sample Pump Intake Setting (ft bmp)	6	Sampling Method	Low-Flow
Purge Time	begin 13:30 end 14:36	Remarks	
Pumping Rate (ml/min)	200		Split with MDEQ
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Michael Kohagen

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-96S PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
13:35	5.1	0.57	0.99	6.85	145.5	200	7.6	4.81
13:40	5.6	0.56	0.66	7.13	131.0	200	4.03	4.81
13:45	5.6	0.55	0.57	7.26	121.3	200	2.73	4.81
13:50	5.5	0.55	0.53	7.32	115.1	200	2.2	4.81
13:55	5.7	0.55	0.47	7.35	110.3	200	1.52	4.81
14:00	5.6	0.55	0.45	7.37	107.2	200	2.07	4.81
14:05	5.6	0.55	0.43	7.38	104.0	200	6.86	4.81
14:10	5.7	0.55	0.45	7.39	100.8	200	5.64	4.81
14:15	5.8	0.55	0.42	7.40	98.4	200	4.85	4.81
14:20	5.8	0.55	0.42	7.40	95.2	200	4.15	4.81
14:25	5.8	0.55	0.41	7.40	93.2	200	7.95	4.81
14:30	5.7	0.5529	0.42	7.40	90.5	200	6.57	4.81
14:35	5.6	0.5546	0.42	7.40	87.4	200	4.85	4.81
Total Depth of Well:		12.1						
Depth To Water Before Purging:				4.81				
Depth To Water After Purging:				4.81				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/28/2019
Site/Well No.	MW-86	Replicate No.	NA	Code No.	--
Weather	16F Sunny	Sampling Time:	Begin 10:05	End	10:05

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	9.1
MP Elevation (ft)	NA	CND (mS/cm)	924.00
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.79
Sounded Well Depth (ft bmp)	16.61	pH (s.u.)	7.31
Depth to Water (ft bmp)	6.44	ORP (mV)	-54.6
Water-Level Elevation (ft)	NA	Turbidity (NTU)	5.44
Water Column in Well (ft)	10.17	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.65		
Volume Pumped/Bailed Prior to Sampling	3.96 gallons		
Sample Pump Intake Setting (ft bmp)	8.44	Sampling Method	Low-Flow
Purge Time	begin 9:00 end 10:15	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Cooper Zilio

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-86 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
9:05	15.4	862.00	1.38	7.66	58.2	200	88.8	6.45
9:10	9.0	838.00	0.65	7.37	8.3	200	24	6.45
9:15	8.9	818.00	0.93	7.29	-13.0	200	18.1	6.45
9:20	8.9	759.00	0.90	7.28	-22.2	200	10.3	6.45
9:25	9.0	728.00	0.83	7.30	-30.8	200	5.92	6.45
9:30	9.1	745.00	0.82	7.29	-34.1	200	3.28	6.45
9:35	9.1	777.00	0.80	7.30	-37.9	200	6.11	6.45
9:40	9.0	807.00	0.82	7.30	-40.9	200	5.98	6.45
9:45	9.0	834.00	0.91	7.31	-43.6	200	5.68	6.45
9:50	9.0	865.00	0.89	7.31	-46.1	200	5.98	6.45
9:55	9.1	881.00	0.76	7.31	-48.8	200	6.08	6.45
10:00	9.1	904	0.83	7.31	-51.4	200	6.01	6.45
10:05	9.1	924	0.79	7.31	-54.6	200	5.44	6.45
Total Depth of Well:		16.61						
Depth To Water Before Purging:				6.45				
Depth To Water After Purging:				6.45				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/28/2019
Site/Well No.	MW-86s	Replicate No.	NA	Code No.	--
Weather	16F sunny	Sampling Time:	Begin 11:00	End	11:00

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	7.6
MP Elevation (ft)	NA	CND (mS/cm)	335.70
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	5.50
Sounded Well Depth (ft bmp)	12.33	pH (s.u.)	7.63
Depth to Water (ft bmp)	6.63	ORP (mV)	23.6
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.02
Water Column in Well (ft)	5.7	Color	None
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	0.93		
Volume Pumped/Bailed Prior to Sampling	2.38 gallons		
Sample Pump Intake Setting (ft bmp)	8.63	Sampling Method	Low-Flow
Purge Time	begin 10:20 end 11:05	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Cooper Zilio

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-86s PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
10:25	7.6	338.10	5.35	7.61	-20.5	200	0.02	6.66
10:30	7.7	336.80	5.44	7.61	-9.0	200	0.02	6.66
10:35	7.5	336.30	5.43	7.60	1.2	200	0.02	6.66
10:40	7.6	336.50	5.62	7.61	7.2	200	0.02	6.66
10:45	7.6	335.80	5.57	7.61	14.1	200	0.02	6.66
10:50	7.6	335.00	5.47	7.62	19.2	200	0.02	6.66
10:55	7.6	335.70	5.50	7.63	23.6	200	0.02	6.66
Total Depth of Well:		12.33						
Depth To Water Before Purging:				6.66				
Depth To Water After Purging:				6.66				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/28/2019
Site/Well No.	MW-84	Replicate No.	NA	Code No.	--
Weather	16F sunny	Sampling Time:	Begin 12:25	End	12:25

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	7.3
MP Elevation (ft)	NA	CND (mS/cm)	3801.00
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.59
Sounded Well Depth (ft bmp)	12.56	pH (s.u.)	7.30
Depth to Water (ft bmp)	3.24	ORP (mV)	-28.5
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.02
Water Column in Well (ft)	9.32	Color	None
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.51		
Volume Pumped/Bailed Prior to Sampling	3.43 gallons		
Sample Pump Intake Setting (ft bmp)	5.24	Sampling Method	Low-Flow
Purge Time	begin 11:25 end 12:30	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Cooper Zilio

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-84 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
11:30	7.9	3641.00	0.94	7.37	86.0	200	39.4	3.25
11:35	7.8	3934.00	0.25	7.26	51.4	200	20.8	3.25
11:40	7.8	3889.00	0.24	7.26	30.7	200	17.1	3.25
11:45	7.8	3822.00	0.17	7.26	14.8	200	3.92	3.25
11:50	7.6	3795.00	0.16	7.26	3.6	200	1.09	3.25
11:55	7.5	3777.00	0.22	7.26	-5.0	200	0.89	3.25
12:00	7.4	3771.00	0.29	7.28	-11.4	200	0.12	3.25
12:05	7.3	3784.00	0.47	7.29	-16.6	200	0.02	3.25
12:10	7.4	3786.00	0.60	7.30	-21.8	200	0.02	3.25
12:15	7.4	3790.00	0.62	7.30	-25.8	200	0.02	3.25
12:20	7.3	3801.00	0.59	7.30	-28.5	200	0.02	3.25
Total Depth of Well:		12.56						
Depth To Water Before Purging:				3.25				
Depth To Water After Purging:				3.25				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/28/2019
Site/Well No.	MW-84s	Replicate No.	DUP-04	Code No.	--
Weather	16F overcast	Sampling Time:	Begin 15:10	End	15:10

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	6.8
MP Elevation (ft)	NA	CND (mS/cm)	2550.00
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	1.90
Sounded Well Depth (ft bmp)	12.71	pH (s.u.)	7.32
Depth to Water (ft bmp)	3.39	ORP (mV)	-27.4
Water-Level Elevation (ft)	NA	Turbidity (NTU)	1.50
Water Column in Well (ft)	9.32	Color	None
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.51		
Volume Pumped/Bailed Prior to Sampling	3.7 gallons		
Sample Pump Intake Setting (ft bmp)	5.39	Sampling Method	Low-Flow
Purge Time	begin 14:10 end 15:20	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Cooper Zilio

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-84s PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
14:15	6.3	923.00	8.43	7.62	70.4	200	3.26	3.40
14:20	6.5	1362.00	2.87	7.41	55.6	200	2.45	3.40
14:25	6.6	1610.00	2.49	7.39	29.7	200	2.11	3.40
14:30	6.6	1852.00	2.51	7.37	15.4	200	1.8	3.40
14:35	6.8	2031.00	2.39	7.35	5.7	200	1.4	3.40
14:40	6.7	2241.00	2.27	7.32	-4.3	200	1.56	3.40
14:45	6.7	2367.00	2.13	7.32	-12.5	200	1.8	3.40
14:50	6.8	2450.00	2.05	7.32	-17.3	200	1.9	3.40
14:55	6.9	2503.00	2.03	7.32	-21.9	200	1.82	3.40
15:00	6.8	2529.00	2.01	7.32	-25.0	200	1.59	3.40
15:05	6.8	2550.00	1.90	7.32	-27.4	200	1.5	3.40
Total Depth of Well:		12.71						
Depth To Water Before Purging:				3.40				
Depth To Water After Purging:				3.4				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/28/2019
Site/Well No.	MW-87	Replicate No.	NA	Code No.	--
Weather	16F overcast	Sampling Time:	Begin 16:40	End	16:40

Evacuation Data

Measuring Point	Top of Casing
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	18.82
Depth to Water (ft bmp)	9.68
Water-Level Elevation (ft)	NA
Water Column in Well (ft)	9.14
Casing Diameter/Type	2" PVC
Gallons in Well	1.49
Volume Pumped/Bailed Prior to Sampling	3.96 gallons
Sample Pump Intake Setting (ft bmp)	11.14
Purge Time	begin 15:30 end 16:45
Pumping Rate (ml/min)	200
Evacuation Method	Low-Flow Peristaltic

Field Parameters

Temperature (°C)	10.6
CND (mS/cm)	981.00
Dissolved Oxygen (mg/L)	0.09
pH (s.u.)	9.36
ORP (mV)	136.4
Turbidity (NTU)	0.02
Color	None
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Cooper Zilio

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-87 PROJ #: MI001454.0006.00003

DATE : 2/28/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
15:35	10.4	504.60	0.30	10.14	-27.5	200	0.02	9.65
15:40	10.4	492.40	0.20	10.18	-26.6	200	0.02	9.65
15:45	10.4	561.10	0.15	10.00	-21.9	200	0.02	9.65
15:50	10.6	710.00	0.14	9.78	-15.5	200	0.02	9.65
15:55	10.5	826.00	0.12	9.65	-11.9	200	0.02	9.65
16:00	10.6	900.00	0.12	9.55	-10.9	200	0.02	9.65
16:05	10.7	936.00	0.11	9.49	-17.0	200	0.02	9.65
16:10	10.6	939.00	0.11	9.48	-27.0	200	0.02	9.65
16:15	10.6	942.00	0.12	9.46	-30.1	200	0.02	9.65
16:20	10.6	945.00	0.10	9.43	-50.9	200	0.02	9.65
16:25	10.7	954.00	0.10	9.42	-78.0	200	0.02	9.65
16:30	10.7	973	0.09	9.38	-114	200	0.02	9.65
16:35	10.6	981	0.09	9.36	136.4	200	0.02	9.65
Total Depth of Well:		18.82						
Depth To Water Before Purging:				9.65				
Depth To Water After Purging:				9.65				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	2/27/2019
Site/Well No.	MW-100s	Replicate No.	--	Code No.	--
Weather	24 F, calm, cloudy	Sampling Time:	Begin 16:15	End	16:15

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	7.0
MP Elevation (ft)	NA	CND (mS/cm)	0.92
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	2.48
Sounded Well Depth (ft bmp)	12.09	pH (s.u.)	7.15
Depth to Water (ft bmp)	6.52	ORP (mV)	130.5
Water-Level Elevation (ft)	NA	Turbidity (NTU)	4.34
Water Column in Well (ft)	5.57	Color	Clear
Casing Diameter/Type	2" PVC	Odor	No
Gallons in Well	0.91		
Volume Pumped/Bailed Prior to Sampling	3.12 gallons		
Sample Pump Intake Setting (ft bmp)	8	Sampling Method	Low-Flow
Purge Time	begin 15:13 end 16:12	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Michael Kohagen

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-100s PROJ #: MI001454.0006.00003

DATE : 2/27/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
15:18	6.7	0.50	1.52	7.67	153.2	200	6.52	6.53
15:23	6.7	0.55	1.28	7.61	152.6	200	6.64	6.53
15:28	7.0	0.62	1.54	7.48	154.1	200	5.31	6.53
15:33	7.1	0.70	1.71	7.40	152.9	200	7	6.53
15:38	7.1	0.77	1.83	7.32	144.1	200	5.63	6.53
15:43	7.1	0.82	1.92	7.26	123.4	200	3.88	6.53
15:48	7.1	0.87	1.99	7.21	127.7	200	4.17	6.53
15:52	7.2	0.88	2.47	7.18	127.4	200	5.35	6.53
15:58	7.1	0.91	2.47	7.15	129.1	200	4.64	6.53
16:03	7.1	0.91	2.44	7.14	129.1	200	4.18	6.53
16:08	7.0	0.92	2.48	7.15	130.5	200	4.34	6.53
Total Depth of Well:		12.09						
Depth To Water Before Purging:				6.53				
Depth To Water After Purging:				6.53				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/1/2019
Site/Well No.	MW-79SR	Replicate No.	--	Code No.	--
Weather	24F, partly cloudy	Sampling Time:	Begin 10:35	End	10:35

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	12.28		
Depth to Water (ft bmp)	3.97		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	8.31		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.35		
Volume Pumped/Bailed Prior to Sampling	2.11 gallons		
Sample Pump Intake Setting (ft bmp)	4.5		
Purge Time	begin 9:55	end 10:35	
Pumping Rate (ml/min)	200		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	6.8
CND (mS/cm)	1.64
Dissolved Oxygen (mg/L)	0.16
pH (s.u.)	7.19
ORP (mV)	-37.6
Turbidity (NTU)	0.77
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Ellen Redner

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-79SR PROJ #: MI001454.0006.00003

DATE : 3/1/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
9:55	5.4	0.36	1.25	6.56	220.2	200	4.5	3.99
10:00	5.6	0.36	1.02	6.72	210.2	200	4.01	3.99
10:05	5.9	0.36	0.92	6.95	182.1	200	1.96	3.99
10:10	5.8	0.36	0.82	7.01	169.7	200	2.11	3.99
10:15	6.3	1.01	0.18	7.08	-4.4	200	0.36	3.99
10:20	6.2	1.29	0.14	7.08	-12.3	200	0.98	3.99
10:25	6.7	1.61	0.16	7.19	-35.0	200	0.42	3.99
10:30	6.7	1.62	0.16	7.19	-35.8	200	0.11	3.98
10:35	6.8	1.64	0.16	7.19	-37.6	200	0.77	3.98
Total Depth of Well:		12.28						
Depth To Water Before Purging:				3.99				
Depth To Water After Purging:				3.98				

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/1/2019
Site/Well No.	MW-76	Replicate No.	--	Code No.	--
Weather	35F, mostly sunny	Sampling Time:	Begin 14:15	End	14:15

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	11.1
MP Elevation (ft)	NA	CND (mS/cm)	8.66
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.19
Sounded Well Depth (ft bmp)	19.62	pH (s.u.)	7.38
Depth to Water (ft bmp)	9.67	ORP (mV)	-26.7
Water-Level Elevation (ft)	NA	Turbidity (NTU)	1.31
Water Column in Well (ft)	9.95	Color	Clear
Casing Diameter/Type	2" PVC	Odor	Nne
Gallons in Well	1.62		
Volume Pumped/Bailed Prior to Sampling	3.17 gallons		
Sample Pump Intake Setting (ft bmp)	17.5	Sampling Method	Low-Flow
Purge Time	begin 13:15 end 14:15	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Ellen Redner

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-76 PROJ #: MI001454.0006.00003

DATE : 3/1/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
13:15	11.5	9.76	0.34	7.26	113.1	200	4.75	9.69
13:20	11.6	9.48	0.22	7.33	87.4	200	3.17	9.69
13:25	11.6	9.09	0.21	7.39	69.3	200	2.07	9.69
13:30	11.5	8.49	0.19	7.43	28.2	200	1.77	9.69
13:35	11.6	8.45	0.21	7.43	19.1	200	2.45	9.69
13:40	11.6	8.42	0.21	7.42	11.0	200	1.82	9.69
13:45	11.5	8.40	0.21	7.41	-8.3	200	1.2	9.69
13:50	11.6	8.43	0.19	7.41	-20.0	200	1.54	9.69
13:55	11.4	8.41	0.19	7.40	-25.6	200	1.12	9.69
14:00	11.4	8.43	0.17	7.40	-25.6	200	1.71	9.69
14:05	11.5	8.46	0.15	7.39	-27.9	200	1.17	9.69
14:10	11.5	8.48	0.16	7.39	-27.4	200	1.5	9.69
14:15	11.1	8.66	0.19	7.38	-26.7	200	1.31	9.69
Total Depth of Well:		19.62						
Depth To Water Before Purging:				9.69				
Depth To Water After Purging:				9.69				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/1/2019
Site/Well No.	MW-87s	Replicate No.	NA	Code No.	--
Weather	16F sunny	Sampling Time:	Begin 15:15	End	15:15

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	10.3
MP Elevation (ft)	NA	CND (mS/cm)	388.30
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.31
Sounded Well Depth (ft bmp)	14.14	pH (s.u.)	9.11
Depth to Water (ft bmp)	9.45	ORP (mV)	11.1
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.02
Water Column in Well (ft)	4.69	Color	None
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	0.76		
Volume Pumped/Bailed Prior to Sampling	2.38 gallons		
Sample Pump Intake Setting (ft bmp)	11.45	Sampling Method	Low-Flow
Purge Time	begin 14:35 end 15:20	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Cooper Zilio

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-87s PROJ #: MI001454.0006.00003

DATE : 3/1/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
14:40	9.9	379.60	0.44	8.84	6.0	200	1.87	9.50
14:45	10.2	378.90	0.30	8.96	6.1	200	0.33	9.50
14:50	10.2	376.40	0.26	9.02	7.5	200	0.02	9.50
14:55	10.2	377.60	0.30	9.02	8.4	200	0.02	9.50
15:00	10.2	380.20	0.31	9.05	9.2	200	0.02	9.50
15:05	10.3	384.50	0.30	9.06	10.2	200	0.02	9.50
15:10	10.3	388.30	0.31	9.11	11.1	200	0.02	9.50
Total Depth of Well:		14.14						
Depth To Water Before Purging:				9.50				
Depth To Water After Purging:				9.5				

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/4/2019
Site/Well No.	MW-73SR	Replicate No.	DUP-07	Code No.	--
Weather	11F, cloudy	Sampling Time:	Begin 10:10	End	10:10

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	7.3
MP Elevation (ft)	NA	CND (mS/cm)	4.12
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.08
Sounded Well Depth (ft bmp)	12.38	pH (s.u.)	6.79
Depth to Water (ft bmp)	5.45	ORP (mV)	-20.2
Water-Level Elevation (ft)	NA	Turbidity (NTU)	8.24
Water Column in Well (ft)	6.93	Color	Slight yellow tint
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.13		
Volume Pumped/Bailed Prior to Sampling	3.3 gallons		
Sample Pump Intake Setting (ft bmp)	7	Sampling Method	Low-Flow
Purge Time	begin 9:10 end 10:10	Remarks	
Pumping Rate (ml/min)	208.4615385		North of MW-73D
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Ellen Redner

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-73SR PROJ #: MI001454.0006.00003

DATE : 3/4/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
9:10	6.2	1.89	0.42	6.48	7.6	200	140	5.46
9:15	6.8	2.36	0.43	6.51	-5.1	200	111	5.47
9:20	7.4	3.89	0.15	6.69	3.8	200	52.3	5.47
9:25	7.6	4.02	0.14	6.73	-0.3	260	49.4	5.47
9:30	7.5	4.05	0.13	6.77	-8.1	220	36.8	5.47
9:35	7.7	4.13	0.10	6.79	-10.7	230	27.9	5.47
9:40	7.3	4.09	0.11	6.80	-13.2	200	24.2	5.47
9:45	7.5	4.10	0.11	6.80	-14.0	200	16.9	5.47
9:50	7.5	3.96	0.12	6.81	-15.8	200	16	5.47
9:55	7.5	4.16	0.12	6.81	-19.1	200	12.9	5.47
10:00	7.6	4.13	0.09	6.81	-19.8	200	11.6	5.48
10:05	7.3	4.13	0.08	6.81	-21.6	200	10.8	5.48
10:10	7.3	4.12	0.08	6.79	-20.2	200	8.24	5.48
Total Depth of Well:		12.38						
Depth To Water Before Purging:				5.46				
Depth To Water After Purging:				5.48				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/4/2019
Site/Well No.	MW-73D	Replicate No.	MS/MSD	Code No.	--
Weather	16F, coudy	Sampling Time:	Begin 12:00	End	12:00

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	9.4
MP Elevation (ft)	NA	CND (mS/cm)	4.98
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.12
Sounded Well Depth (ft bmp)	17.37	pH (s.u.)	7.24
Depth to Water (ft bmp)	5.45	ORP (mV)	-1.7
Water-Level Elevation (ft)	NA	Turbidity (NTU)	7.85
Water Column in Well (ft)	11.92	Color	Very slight yellow hue
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.94		
Volume Pumped/Bailed Prior to Sampling	3.14 gallons		
Sample Pump Intake Setting (ft bmp)	16	Sampling Method	Low-Flow
Purge Time	begin 11:00 end 12:00	Remarks	
Pumping Rate (ml/min)	198.0769231		Missing both bolts - bolt slots are both broken
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Ellen Redner

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-73D PROJ #: MI001454.0006.00003

DATE : 3/4/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
11:00	10.1	4.91	0.48	7.90	202.3	200	133	5.62
11:05	9.3	4.83	0.26	7.53	136.2	200	73	5.56
11:10	9.5	4.85	0.22	7.42	93.7	200	52.4	5.56
11:15	9.4	4.86	0.16	7.35	63.3	200	32.2	5.56
11:20	9.6	4.85	0.13	7.31	40.0	175	23.9	5.56
11:25	9.5	4.84	0.12	7.29	30.5	200	20.9	5.56
11:30	9.5	4.85	0.13	7.26	17.9	200	14.3	5.56
11:35	9.5	4.85	0.11	7.26	16.1	200	13.9	5.56
11:40	9.5	4.89	0.13	7.25	10.6	200	12.2	5.56
11:45	9.6	4.94	0.10	7.25	4.1	200	11.5	5.56
11:50	9.4	4.94	0.09	7.25	3.5	200	10.9	5.56
11:55	9.6	4.99	0.11	7.24	-0.7	200	7.53	5.56
0:00	9.4	4.98	0.12	7.24	-1.7	200	7.85	5.56
Total Depth of Well:		17.37						
Depth To Water Before Purging:				5.62				
Depth To Water After Purging:				5.56				

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Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/4/2019
Site/Well No.	MW-77	Replicate No.	DUP-08	Code No.	--
Weather	17F, cloudy	Sampling Time:	Begin 14:20	End	14:20

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	13.72		
Depth to Water (ft bmp)	4.61		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	9.11		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.48		
Volume Pumped/Bailed Prior to Sampling	3.16 gallons		
Sample Pump Intake Setting (ft bmp)	11		
Purge Time	begin 13:20	end 14:20	
Pumping Rate (ml/min)	199.2307692		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	7.7
CND (mS/cm)	0.57
Dissolved Oxygen (mg/L)	0.08
pH (s.u.)	7.68
ORP (mV)	-91.4
Turbidity (NTU)	0.69
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	casing so it wouldn't fall into the well. Lock was replaced because the original one wouldn't re-lock.

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Ellen Redner

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-77 PROJ #: MI001454.0006.00003

DATE : 3/4/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
13:20	7.9	0.75	0.41	8.16	-41.6	200	6.1	4.61
13:25	7.8	0.71	0.27	7.98	-54.0	190	4.46	4.61
13:30	7.9	0.68	0.23	7.87	-60.6	200	4.31	4.61
13:35	7.8	0.63	0.17	7.77	-74.3	200	3.28	4.61
13:40	7.6	0.58	0.19	7.73	-82.7	200	2.28	4.61
13:45	7.7	0.59	0.15	7.72	-84.1	200	2.41	4.61
13:50	7.6	0.58	0.17	7.70	-87.3	200	1.94	4.62
13:55	7.6	0.58	0.14	7.70	-87.9	200	2.1	4.62
14:00	7.7	0.58	0.12	7.69	-89.6	200	2.03	4.62
14:05	7.7	0.58	0.13	7.69	-89.4	200	1.91	4.62
14:10	7.7	0.58	0.11	7.68	-90.5	200	2.08	4.62
14:15	7.8	0.58	0.11	7.68	-91	200	1.24	4.62
14:20	7.7	0.57	0.08	7.68	-91.4	200	0.69	4.62
Total Depth of Well:		13.72						
Depth To Water Before Purging:				4.61				
Depth To Water After Purging:				4.62				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/4/2019
Site/Well No.	MW-77S	Replicate No.	--	Code No.	--
Weather	18F, mostly cloudy	Sampling Time:	Begin 16:20	End	16:20

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	12.16		
Depth to Water (ft bmp)	4.51		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	7.65		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.24		
Volume Pumped/Bailed Prior to Sampling	3.17 gallons		
Sample Pump Intake Setting (ft bmp)	6		
Purge Time	begin 15:20	end 16:20	
Pumping Rate (ml/min)	200		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	6.5
CND (mS/cm)	0.37
Dissolved Oxygen (mg/L)	0.57
pH (s.u.)	7.69
ORP (mV)	-14.5
Turbidity (NTU)	1.34
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Ellen Redner

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-77S PROJ #: MI001454.0006.00003

DATE : 3/4/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
15:20	5.8	0.35	1.53	8.43	153.5	200	2.39	4.52
15:25	6.1	0.35	1.12	8.20	113.4	200	3.09	4.52
15:30	6.2	0.35	1.03	8.10	83.6	200	2.28	4.52
15:35	6.3	0.35	0.87	7.88	36.3	200	1.57	4.52
15:40	6.4	0.35	0.76	7.80	22.2	200	1.9	4.52
15:45	6.3	0.35	0.74	7.76	13.3	200	1.38	4.52
15:50	6.4	0.35	0.72	7.74	7.7	200	1.45	4.52
15:55	6.5	0.35	0.66	7.72	2.6	200	1.4	4.52
16:00	6.6	0.36	0.62	7.70	-5.6	200	0.96	4.52
16:05	6.5	0.36	0.57	7.70	-8.4	200	0.69	4.52
16:10	6.4	0.37	0.58	7.69	-12.9	200	1.25	4.52
16:15	6.5	0.369	0.55	7.69	-14.5	200	0.91	4.52
16:20	6.5	0.373	0.57	7.69	-14.5	200	1.34	4.52
Total Depth of Well:		12.16						
Depth To Water Before Purging:				4.52				
Depth To Water After Purging:				4.52				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/1/2019
Site/Well No.	MW-76S	Replicate No.	--	Code No.	--
Weather	36F, mostly sunny	Sampling Time:	Begin 16:00	End	16:00

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	14.15		
Depth to Water (ft bmp)	9.56		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	4.59		
Casing Diameter/Type	2"	PVC	
Gallons in Well	0.75		
Volume Pumped/Bailed Prior to Sampling	2.92 gallons		
Sample Pump Intake Setting (ft bmp)	11		
Purge Time	begin 15:05	end 16:00	
Pumping Rate (ml/min)	200.8333333		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	9.9
CND (mS/cm)	4.75
Dissolved Oxygen (mg/L)	0.79
pH (s.u.)	7.37
ORP (mV)	14.7
Turbidity (NTU)	1.12
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Ellen Redner

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-76S PROJ #: MI001454.0006.00003

DATE : 3/1/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
15:05	9.4	3.49	1.67	7.26	122.5	200	41.7	9.59
15:10	9.6	3.59	1.58	7.37	107.6	200	33.7	9.59
15:15	9.7	3.64	1.44	7.46	83.3	210	15.8	9.59
15:20	9.8	4.13	0.91	7.43	71.3	200	3.77	9.59
15:25	9.8	4.47	0.78	7.40	63.8	200	2.45	9.59
15:30	9.9	4.51	0.76	7.40	63.7	200	2.54	9.59
15:35	9.8	4.61	0.77	7.39	55.6	200	1.51	9.59
15:40	9.9	4.64	0.80	7.38	38.4	200	1.03	9.59
15:45	9.9	4.64	0.78	7.37	34.5	200	1.65	9.59
15:50	9.9	4.69	0.79	7.37	20.8	200	1.27	9.59
15:55	9.9	4.74	0.79	7.36	15.8	200	1.25	9.59
16:00	9.9	4.75	0.79	7.37	14.7	200	1.12	9.59
Total Depth of Well:		14.15						
Depth To Water Before Purging:				9.59				
Depth To Water After Purging:				9.59				

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-78 PROJ #: MI001454.0006.00003

DATE : 2/26/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
16:05	4.2	4.04	5.35	7.42	-53.8	200	32.8	1.62
16:10	4.5	4.12	5.03	7.45	-59.8	200	4.88	1.62
16:15	4.1	4.21	4.28	7.46	-62.6	200	0.87	1.62
16:20	4.5	4.21	4.72	7.47	-64.7	200	1.47	1.62
16:25	4.4	4.17	4.51	7.47	-65.4	200	0.02	1.62
16:30	4.4	4.17	4.38	7.48	-67.0	200	0.02	1.62
16:35	4.4	4.13	4.14	7.48	-68.3	200	0.02	1.62
Total Depth of Well:		11.75						
Depth To Water Before Purging:				1.62				
Depth To Water After Purging:				1.62				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/5/2019
Site/Well No.	MW-83	Replicate No.	--	Code No.	--
Weather	15°F, sunny, windy	Sampling Time:	Begin 12:13	End	12:13

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	12.4		
Depth to Water (ft bmp)	6.98		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	5.42		
Casing Diameter/Type	2"	PVC	
Gallons in Well	0.88		
Volume Pumped/Bailed Prior to Sampling	2.58 gallons		
Sample Pump Intake Setting (ft bmp)	10		
Purge Time	begin 11:12	end 12:12	
Pumping Rate (ml/min)	162.5		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	6.4
CND (mS/cm)	2.02
Dissolved Oxygen (mg/L)	0.06
pH (s.u.)	7.31
ORP (mV)	63.2
Turbidity (NTU)	0.32
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Madison Olender

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-83 PROJ #: MI001454.0006.00003

DATE : 3/5/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
11:12	7.2	1.68	0.36	6.95	178.8	300	3.71	6.75
11:18	7.5	1.93	0.16	7.17	174.0	150	2.76	6.75
11:23	6.5	1.96	0.14	7.23	172.3	150	1.44	6.75
11:28	6.6	1.97	0.12	7.27	167.2	150	0.02	6.75
11:32	6.5	1.99	0.14	7.29	157.1	150	0.75	6.75
11:38	6.3	1.99	0.10	7.29	136.3	150	1.42	6.75
11:43	6.3	2.00	0.12	7.30	115.6	150	1.39	6.75
11:48	6.3	2.01	0.09	7.30	101.2	150	0.11	6.75
11:53	6.3	2.01	0.10	7.31	89.3	150	0.55	6.75
11:58	6.3	2.02	0.09	7.31	78.2	150	0.2	6.75
12:03	6.3	2.01	0.09	7.31	71.2	150	0.81	6.75
12:08	6.4	2.02	0.06	7.31	63.2	150	0.32	6.75
Total Depth of Well:		12.4						
Depth To Water Before Purging:				6.75				
Depth To Water After Purging:				6.75				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/5/2019
Site/Well No.	MW-83S	Replicate No.	--	Code No.	--
Weather	15° snowy, cloudy	Sampling Time:	Begin 14:07	End	14:07

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	12.8		
Depth to Water (ft bmp)	6.82		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	5.98		
Casing Diameter/Type	2"	PVC	
Gallons in Well	0.97		
Volume Pumped/Bailed Prior to Sampling	1.95 gallons		
Sample Pump Intake Setting (ft bmp)	8.5		
Purge Time	begin 13:06	end 14:06	
Pumping Rate (ml/min)	123.0769231		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	4.8
CND (mS/cm)	1.62
Dissolved Oxygen (mg/L)	0.30
pH (s.u.)	7.37
ORP (mV)	67.7
Turbidity (NTU)	0.87
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Madison Olender

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-83S PROJ #: MI001454.0006.00003

DATE : 3/5/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
13:06	6.1	0.76	1.69	7.91	219.4	250	5.48	6.94
13:11	6.4	0.78	1.21	7.66	208.2	150	20.4	6.94
13:16	6.5	0.97	0.21	7.49	205.9	150	21.5	6.94
13:21	6.5	1.26	0.18	7.41	205.7	150	5.82	6.94
13:26	5.9	1.33	0.18	7.38	202.8	100	3.57	6.88
13:31	5.5	1.38	0.25	7.37	184.1	100	1.54	6.88
13:36	5.5	1.47	0.27	7.36	163.2	100	2	6.88
13:41	5.6	1.56	0.30	7.36	139.5	100	2.02	6.88
13:46	5.9	1.62	0.31	7.36	115.9	100	2.02	6.88
13:51	5.2	1.59	0.35	7.38	101.2	100	1.98	6.88
13:56	5.2	1.53	0.30	7.36	87.5	100	0.86	6.88
14:01	4.9	1.61	0.3	7.36	74.1	100	73.7	6.88
14:06	4.8	1.62	0.3	7.37	67.7	100	0.87	6.88
Total Depth of Well:		12.8						
Depth To Water Before Purging:				6.94				
Depth To Water After Purging:				6.88				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/5/2019
Site/Well No.	MW-72	Replicate No.	DEQ split sample	Code No.	--
Weather	19F cloudy	Sampling Time:	Begin 14:20	End	14:20

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	19.61		
Depth to Water (ft bmp)	7.38		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	12.23		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.99		
Volume Pumped/Bailed Prior to Sampling	2.58 gallons		
Sample Pump Intake Setting (ft bmp)	9.38		
Purge Time	begin 13:30	end 14:35	
Pumping Rate (ml/min)	150		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	10.7
CND (mS/cm)	6919.00
Dissolved Oxygen (mg/L)	1.28
pH (s.u.)	7.49
ORP (mV)	-69.7
Turbidity (NTU)	1.26
Color	None
Odor	None
Sampling Method	Low-Flow
Remarks	DEQ split sample

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Cooper Zilio

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-72 PROJ #: MI001454.0006.00003

DATE : 3/5/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
13:35	10.8	7212.00	2.81	7.25	11.9	150	5.35	7.41
13:40	10.8	7195.00	1.58	7.35	-21.4	150	4.96	7.41
13:45	10.8	7205.00	1.88	7.39	-37.6	150	4.58	7.41
13:50	10.8	7215.00	1.70	7.42	-47.7	150	3.12	7.41
13:55	10.5	6951.00	1.19	7.44	-54.4	150	2.42	7.41
14:00	10.8	6970.00	1.61	7.46	-60.4	150	2.07	7.41
14:05	10.7	6955.00	1.26	7.47	-63.8	150	1.89	7.41
14:10	10.8	6926.00	1.28	7.48	-67.1	150	1.7	7.41
14:15	10.7	6919.00	1.28	7.49	-69.7	150	1.26	7.41
Total Depth of Well:		19.61						
Depth To Water Before Purging:				7.41				
Depth To Water After Purging:				7.41				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/5/2019
Site/Well No.	MW-72s	Replicate No.	DEQ split sample	Code No.	--
Weather	9F cloudy	Sampling Time:	Begin 15:50	End	15:50

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	13.05		
Depth to Water (ft bmp)	7.56		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	5.49		
Casing Diameter/Type	2"	PVC	
Gallons in Well	0.89		
Volume Pumped/Bailed Prior to Sampling	2.77 gallons		
Sample Pump Intake Setting (ft bmp)	9.56		
Purge Time	begin 14:45	end 15:55	
Pumping Rate (ml/min)	150		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	8.7
CND (mS/cm)	4347.00
Dissolved Oxygen (mg/L)	2.75
pH (s.u.)	7.43
ORP (mV)	23.4
Turbidity (NTU)	2.20
Color	None
Odor	None
Sampling Method	Low-Flow
Remarks	DEQ split sample

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Cooper Zilio

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-72s PROJ #: MI001454.0006.00003

DATE : 3/5/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
14:50	8.7	5410.00	4.96	7.58	-24.8	150	92.1	7.61
14:55	8.7	5421.00	4.76	7.53	-17.4	150	52	7.61
15:00	8.6	5285.00	4.50	7.52	-13.8	150	38.8	7.61
15:05	8.5	5092.00	4.19	7.52	-9.9	150	20.8	7.61
15:10	8.6	4937.00	3.96	7.51	-5.1	150	15.6	7.61
15:15	8.6	4815.00	3.68	7.50	-0.1	150	10.2	7.61
15:20	8.6	4652.00	3.51	7.48	5.1	150	8.5	7.61
15:25	8.8	4544.00	3.34	7.46	9.1	150	6.13	7.61
15:30	8.8	4462.00	3.20	7.46	13.1	150	3.3	7.61
15:35	8.8	4410.00	3.02	7.45	16.9	150	2.58	7.61
15:40	8.8	4373.00	3.01	7.44	20.3	150	2.1	7.61
15:45	8.7	4347	2.75	7.43	23.4	150	2.2	7.61
Total Depth of Well:		13.05						
Depth To Water Before Purging:				7.61				
Depth To Water After Purging:				7.61				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/5/2019
Site/Well No.	MW-82SR	Replicate No.	--	Code No.	--
Weather	15°F, partly cloudy, windy	Sampling Time:	Begin 17:16	End	17:16

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	6.2
MP Elevation (ft)	NA	CND (mS/cm)	0.98
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	1.46
Sounded Well Depth (ft bmp)	16.12	pH (s.u.)	7.16
Depth to Water (ft bmp)	7.53	ORP (mV)	110.3
Water-Level Elevation (ft)	NA	Turbidity (NTU)	2.50
Water Column in Well (ft)	8.59	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.4		
Volume Pumped/Bailed Prior to Sampling	2.93 gallons		
Sample Pump Intake Setting (ft bmp)	10	Sampling Method	Low-Flow
Purge Time	begin 16:15 end 17:15	Remarks	
Pumping Rate (ml/min)	184.6153846		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Madison Olender

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-82SR PROJ #: MI001454.0006.00003

DATE : 3/5/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
16:15	6.5	0.95	3.55	7.47	275.3	300	29.7	6.75
16:20	6.1	0.93	3.16	7.26	276.3	175	34.3	6.75
16:25	6.2	0.94	2.95	7.23	276.2	175	14.1	6.75
16:30	6.3	0.95	2.63	7.21	275.8	175	9.11	6.75
16:35	6.3	0.95	2.50	7.20	274.0	175	8.69	6.75
16:40	6.2	0.95	2.17	7.19	273.1	175	7.28	6.75
16:45	6.3	0.96	2.05	7.18	269.0	175	4.67	6.75
16:50	6.3	0.96	2.03	7.18	258.1	175	5.22	6.75
16:55	6.3	0.97	1.86	7.17	230.9	175	4.82	6.75
17:00	6.5	0.98	1.69	7.17	182.0	175	4.64	6.75
17:05	6.2	0.98	1.63	7.16	145.2	175	3.45	6.75
17:10	6.4	0.98	1.45	7.16	119.6	175	3.9	6.75
17:15	6.2	0.98	1.46	7.16	110.3	175	2.5	6.75
Total Depth of Well:		16.12						
Depth To Water Before Purging:				6.75				
Depth To Water After Purging:				6.75				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/6/2019
Site/Well No.	MW-97S	Replicate No.	MS/MSD	Code No.	--
Weather	7F, partly cloudy	Sampling Time:	Begin 10:05	End	10:05

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	11.96		
Depth to Water (ft bmp)	4.47		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	7.49		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.22		
Volume Pumped/Bailed Prior to Sampling	2.44 gallons		
Sample Pump Intake Setting (ft bmp)	6		
Purge Time	begin 9:15	end 10:05	
Pumping Rate (ml/min)	185		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	5.9
CND (mS/cm)	0.66
Dissolved Oxygen (mg/L)	1.81
pH (s.u.)	7.51
ORP (mV)	34.2
Turbidity (NTU)	0.52
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Ellen Redner

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-97S PROJ #: MI001454.0006.00003

DATE : 3/6/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
9:15	4.8	0.35	2.81	7.56	71.4	150	1.88	4.49
9:20	5.0	0.39	1.73	7.58	65.2	150	2.15	4.49
9:25	5.0	0.40	2.44	7.61	60.9	150	2.37	4.49
9:30	5.3	0.42	2.53	7.62	54.8	200	1.29	4.49
9:35	5.7	0.48	2.67	7.58	43.2	200	0.62	4.49
9:40	5.6	0.50	2.54	7.57	42.1	200	0.81	4.49
9:45	5.5	0.52	2.58	7.56	41.8	200	0.96	4.49
9:50	5.9	0.65	1.88	7.51	35.7	200	0.71	4.49
9:55	6.0	0.65	1.88	7.52	35.0	200	0.84	4.49
10:00	5.9	0.66	1.81	7.51	34.2	200	0.52	4.49
Total Depth of Well:		11.96						
Depth To Water Before Purging:				4.49				
Depth To Water After Purging:				4.49				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/6/2019
Site/Well No.	MW-82D	Replicate No.	--	Code No.	--
Weather	17° F, sunny	Sampling Time:	Begin 10:30	End	10:30

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	6.3
MP Elevation (ft)	NA	CND (mS/cm)	0.91
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.06
Sounded Well Depth (ft bmp)	23	pH (s.u.)	7.46
Depth to Water (ft bmp)	7.65	ORP (mV)	-44.1
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.97
Water Column in Well (ft)	15.35	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	2.49		
Volume Pumped/Bailed Prior to Sampling	2.38 gallons		
Sample Pump Intake Setting (ft bmp)	20	Sampling Method	Low-Flow
Purge Time	begin 9:30 end 10:30	Remarks	
Pumping Rate (ml/min)	150		J plug was frozen and lock tricky but eventually opened
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Madison Olender

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-82D PROJ #: MI001454.0006.00003

DATE : 3/6/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
9:30	4.7	0.83	0.32	7.03	33.6	150	0.5	6.75
9:35	4.5	0.83	0.22	7.24	6.6	150	2.32	6.75
9:40	4.5	0.83	0.20	7.31	-7.3	150	3.21	6.75
9:45	5.0	0.84	0.12	7.37	-17.7	150	3.21	6.75
9:50	4.9	0.85	0.14	7.40	-23.8	150	4.92	6.75
9:55	5.3	0.86	0.11	7.41	-28.2	150	3.41	6.75
10:00	5.6	0.87	0.10	7.43	-32.5	150	1.39	6.75
10:05	5.3	0.87	0.08	7.44	-36.1	150	1.27	6.75
10:10	5.5	0.87	0.07	7.44	-38.1	150	0.39	6.75
10:15	5.6	0.88	0.07	7.45	-40.2	150	0.02	6.75
10:18	6.0	0.90	0.08	7.45	-41.6	150	0.37	6.75
10:23	5.7	0.89	0.07	7.45	-42.7	150	0.43	6.75
10:28	6.3	0.91	0.06	7.46	-44.1	150	0.97	6.75
Total Depth of Well:		23						
Depth To Water Before Purging:				6.75				
Depth To Water After Purging:				6.75				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/6/2019
Site/Well No.	MW-98S	Replicate No.	--	Code No.	--
Weather	21F, cloudy	Sampling Time:	Begin 12:40	End	12:40

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	2.5
MP Elevation (ft)	NA	CND (mS/cm)	0.39
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.41
Sounded Well Depth (ft bmp)	12.09	pH (s.u.)	7.33
Depth to Water (ft bmp)	1.91	ORP (mV)	1.3
Water-Level Elevation (ft)	NA	Turbidity (NTU)	2.07
Water Column in Well (ft)	10.18	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.65		
Volume Pumped/Bailed Prior to Sampling	43.27 gallons		
Sample Pump Intake Setting (ft bmp)	3.5	Sampling Method	Low-Flow
Purge Time	begin 23:40 end 12:40	Remarks	
Pumping Rate (ml/min)	210		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Ellen Redner

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-98S PROJ #: MI001454.0006.00003

DATE : 3/6/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
11:40	2.4	0.30	10.94	7.96	-25.4	280	7.15	4.49
11:45	2.7	0.29	1.84	0.75	-26.7	250	7.25	1.90
11:50	2.7	0.29	1.08	0.74	-27.1	200	7.43	1.90
11:55	2.7	0.30	0.63	7.30	-23.6	200	4.24	1.90
0:00	2.7	0.30	0.62	7.30	-21.4	200	3.96	1.90
12:05	2.6	0.30	0.56	7.30	-18.2	200	3.18	1.90
12:10	2.7	0.32	0.52	7.30	-11.6	200	2.25	1.90
12:15	2.6	0.33	0.48	7.31	-8.6	200	3.59	1.90
12:20	2.5	0.34	0.47	7.31	-6.8	200	2.31	1.90
12:25	2.6	0.36	0.46	7.32	-2.7	200	2.97	1.90
12:30	2.6	0.37	0.43	7.32	-1.0	200	1.98	1.90
12:35	2.6	0.3886	0.44	7.33	0.6	200	2.38	1.90
12:40	2.5	0.393	0.41	7.33	1.3	200	2.07	1.90
Total Depth of Well:		12.09						
Depth To Water Before Purging:				4.49				
Depth To Water After Purging:				1.9				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/6/2019
Site/Well No.	MW-81S	Replicate No.	--	Code No.	--
Weather	21°F, cloudy	Sampling Time:	Begin 13:03	End	13:03

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	6.0
MP Elevation (ft)	NA	CND (mS/cm)	1.52
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	2.10
Sounded Well Depth (ft bmp)	12.58	pH (s.u.)	7.21
Depth to Water (ft bmp)	6.44	ORP (mV)	248.0
Water-Level Elevation (ft)	NA	Turbidity (NTU)	2.02
Water Column in Well (ft)	6.14	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1		
Volume Pumped/Bailed Prior to Sampling	2.18 gallons		
Sample Pump Intake Setting (ft bmp)	8	Sampling Method	Low-Flow
Purge Time	begin 12:07 end 13:02	Remarks	
Pumping Rate (ml/min)	150		None
Evacuation Method	Low-Flow Bladder		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Madison Olender

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-81S PROJ #: MI001454.0006.00003

DATE : 3/6/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
12:07	5.6	1.43	2.45	7.50	267.2	150	9.49	6.75
12:12	5.9	1.39	2.76	7.35	265.6	150	3.25	6.90
12:17	6.1	1.48	2.52	7.28	264.6	150	4.7	6.90
12:22	6.2	1.51	2.22	7.25	263.5	150	6.3	6.90
12:27	6.2	1.52	2.16	7.24	261.9	150	7.49	6.90
12:32	6.2	1.53	2.06	7.23	260.5	150	6.32	6.90
12:37	6.2	1.53	2.09	7.22	259.2	150	5.29	6.90
12:42	6.1	1.53	2.13	7.22	257.7	150	4.15	6.90
12:47	6.1	1.52	2.10	7.21	255.4	150	4.18	6.90
12:52	6.0	1.51	2.11	7.21	253.2	150	2.45	6.90
12:56	6.1	1.52	2.19	7.21	251.1	150	2.27	6.90
13:01	6.0	1.52	2.1	7.21	248	150	2.02	6.90
Total Depth of Well:		12.58						
Depth To Water Before Purging:				6.75				
Depth To Water After Purging:				6.9				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/6/2019
Site/Well No.	MW-101S	Replicate No.	--	Code No.	--
Weather	22F, cloudy	Sampling Time:	Begin 14:10	End	14:10

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	8.5
MP Elevation (ft)	NA	CND (mS/cm)	1.95
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.52
Sounded Well Depth (ft bmp)	14.01	pH (s.u.)	7.49
Depth to Water (ft bmp)	8.21	ORP (mV)	45.7
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.88
Water Column in Well (ft)	5.8	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	0.94		
Volume Pumped/Bailed Prior to Sampling	2.19 gallons		
Sample Pump Intake Setting (ft bmp)	10	Sampling Method	Low-Flow
Purge Time	begin 13:25 end 14:10	Remarks	
Pumping Rate (ml/min)	184		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Ellen Redner

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-101S PROJ #: MI001454.0006.00003

DATE : 3/6/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
13:25	7.6	0.79	2.07	8.55	34.4	130	30.8	8.23
13:30	7.5	0.79	1.67	8.23	29.5	110	27.5	8.22
13:35	8.1	1.27	0.78	7.74	36.7	200	11.4	8.22
13:40	8.1	1.35	0.63	7.65	36.9	200	6.58	8.22
13:45	8.5	1.68	0.55	7.54	41.9	200	6.41	8.22
13:50	8.5	1.78	0.56	7.52	43.5	200	3.71	8.22
13:55	8.5	1.81	0.53	7.52	43.8	200	3.28	8.22
14:00	8.6	1.91	0.51	7.50	45.5	200	1.21	1.90
14:05	8.5	1.93	0.52	7.50	45.9	200	1.46	8.23
14:10	8.5	1.95	0.52	7.49	45.7	200	0.88	8.23
Total Depth of Well:		14.01						
Depth To Water Before Purging:				8.23				
Depth To Water After Purging:				8.23				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/6/2019
Site/Well No.	MW-81	Replicate No.	--	Code No.	--
Weather	22°, overcast	Sampling Time:	Begin 14:26	End	14:26

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	12.67		
Depth to Water (ft bmp)	6.2		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	6.47		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.05		
Volume Pumped/Bailed Prior to Sampling	1.98 gallons		
Sample Pump Intake Setting (ft bmp)	8		
Purge Time	begin 13:35	end 14:25	
Pumping Rate (ml/min)	150		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	6.7
CND (mS/cm)	1.20
Dissolved Oxygen (mg/L)	1.18
pH (s.u.)	7.29
ORP (mV)	180.5
Turbidity (NTU)	0.02
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Madison Olender

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-81 PROJ #: MI001454.0006.00003

DATE : 3/6/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
13:35	5.4	1.20	2.52	7.63	287.5	150	1.29	6.90
13:40	6.4	1.22	0.53	7.39	277.1	150	0.81	6.90
13:45	6.7	1.22	0.36	7.34	271.8	150	0.99	6.90
13:50	6.8	1.19	0.32	7.31	267.4	150	0.02	6.90
13:55	6.9	1.19	0.25	7.30	261.1	150	0.45	6.90
14:00	6.9	1.19	0.28	7.29	246.5	150	0.57	6.90
14:05	7.0	1.20	0.21	7.29	233.6	150	0.02	6.90
14:08	7.0	1.20	0.65	7.28	226.1	150	0.79	6.90
14:13	6.8	1.22	1.17	7.29	201.6	150	0.02	6.90
14:16	6.8	1.20	1.16	7.29	194.2	150	0.02	6.90
14:19	6.7	1.20	1.18	7.29	184.3	150	0.02	6.90
14:22	6.7	1.2	1.17	7.29	182.8	150	0.02	6.90
14:25	6.7	1.2	1.18	7.29	180.5	150	0.02	6.90
Total Depth of Well:		12.67						
Depth To Water Before Purging:				6.90				
Depth To Water After Purging:				6.9				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/6/2019
Site/Well No.	MW-80SR	Replicate No.	--	Code No.	--
Weather	22F, cloudy	Sampling Time:	Begin 16:15	End	16:15

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	4.2
MP Elevation (ft)	NA	CND (mS/cm)	1.60
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.26
Sounded Well Depth (ft bmp)	12.21	pH (s.u.)	7.07
Depth to Water (ft bmp)	2.43	ORP (mV)	-30.0
Water-Level Elevation (ft)	NA	Turbidity (NTU)	7.08
Water Column in Well (ft)	9.78	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.59		
Volume Pumped/Bailed Prior to Sampling	3.08 gallons		
Sample Pump Intake Setting (ft bmp)	4	Sampling Method	Low-Flow
Purge Time	begin 15:15 end 16:15	Remarks	
Pumping Rate (ml/min)	194.2307692		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Ellen Redner

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-80SR PROJ #: MI001454.0006.00003

DATE : 3/6/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
15:15	4.3	1.61	1.62	7.33	-17.8	200	52.7	2.48
15:20	4.2	1.63	0.79	7.11	-21.1	175	48.7	2.48
15:25	4.5	1.66	0.52	7.11	-25.6	150	36	2.48
15:30	4.4	1.65	0.50	7.11	-26.9	200	27.6	2.49
15:35	4.1	1.61	0.43	7.10	-27.0	200	22.7	2.49
15:40	4.4	1.63	0.36	7.09	-27.2	200	19.4	2.49
15:45	4.2	1.62	0.32	7.09	-27.6	200	16.7	2.49
15:50	4.2	1.61	0.30	7.10	-28.4	200	13.9	2.49
15:55	4.2	1.62	0.32	7.10	-28.7	200	12.4	2.49
16:00	4.2	1.61	0.31	7.09	-29.3	200	9.55	2.49
16:05	4.2	1.61	0.30	7.08	-29.5	200	9.98	2.49
16:10	4.4	1.61	0.25	7.07	-29.8	200	8.96	2.49
16:15	4.2	1.6	0.26	7.07	-30	200	7.08	2.49
Total Depth of Well:		12.21						
Depth To Water Before Purging:				2.48				
Depth To Water After Purging:				2.49				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/7/2019
Site/Well No.	MW-99S	Replicate No.	--	Code No.	--
Weather	19F, partly sunny	Sampling Time:	Begin 9:35	End	9:35

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	7.3
MP Elevation (ft)	NA	CND (mS/cm)	2.58
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.41
Sounded Well Depth (ft bmp)	12.84	pH (s.u.)	7.06
Depth to Water (ft bmp)	5.99	ORP (mV)	175.4
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.68
Water Column in Well (ft)	6.85	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.11		
Volume Pumped/Bailed Prior to Sampling	2.65 gallons		
Sample Pump Intake Setting (ft bmp)	7.5	Sampling Method	Low-Flow
Purge Time	begin 8:50 end 9:35	Remarks	
Pumping Rate (ml/min)	222.5		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Ellen Redner

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-99S PROJ #: MI001454.0006.00003

DATE : 3/7/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
8:50	7.2	1.23	1.93	7.15	188.9	175	0.86	6.01
8:55	7.3	1.24	0.77	7.12	178.6	200	0.6	6.01
9:00	7.5	1.24	0.56	7.14	173.7	200	0.65	6.01
9:05	7.2	1.22	0.63	7.15	169.7	200	0.81	6.01
9:10	7.3	1.73	0.40	7.10	176.4	200	0.61	6.01
9:15	7.3	1.98	0.41	7.07	178.9	250	0.88	6.01
9:20	7.4	2.35	0.44	7.06	179.9	250	1.02	6.02
9:25	7.4	2.53	0.41	7.06	180.2	250	1.01	6.02
9:30	7.2	2.54	0.40	7.06	176.1	250	0.75	6.02
9:35	7.3	2.58	0.41	7.06	175.4	250	0.68	6.02
Total Depth of Well:		12.84						
Depth To Water Before Purging:				6.01				
Depth To Water After Purging:				6.02				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/7/2019
Site/Well No.	MW-75SR	Replicate No.	--	Code No.	--
Weather	23F, mostly sunny	Sampling Time:	Begin 11:40	End	11:40

Evacuation Data

Measuring Point	Top of Casing		
MP Elevation (ft)	NA		
Land Surface Elevation (ft)	NA		
Sounded Well Depth (ft bmp)	12.38		
Depth to Water (ft bmp)	5.58		
Water-Level Elevation (ft)	NA		
Water Column in Well (ft)	6.8		
Casing Diameter/Type	2"	PVC	
Gallons in Well	1.1		
Volume Pumped/Bailed Prior to Sampling	3.17 gallons		
Sample Pump Intake Setting (ft bmp)	7		
Purge Time	begin 10:40	end 11:40	
Pumping Rate (ml/min)	200		
Evacuation Method	Low-Flow	Peristaltic	

Field Parameters

Temperature (°C)	6.8
CND (mS/cm)	1.11
Dissolved Oxygen (mg/L)	0.33
pH (s.u.)	7.42
ORP (mV)	145.9
Turbidity (NTU)	0.82
Color	Clear
Odor	None
Sampling Method	Low-Flow
Remarks	None

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Ellen Redner

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-75SR PROJ #: MI001454.0006.00003

DATE : 3/7/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
10:40	6.5	0.75	4.05	7.72	145.0	200	1.52	5.59
10:45	6.3	0.74	1.20	7.57	144.3	200	1.13	5.60
10:50	6.4	0.73	0.94	7.49	143.4	200	1.19	5.60
10:55	6.5	0.74	0.70	7.40	143.8	200	0.94	5.60
11:00	6.5	0.74	0.60	7.40	144.1	200	1.06	5.60
11:05	6.4	0.74	0.57	7.39	145.1	200	0.79	5.60
11:10	6.5	0.75	0.53	7.39	145.2	200	0.83	5.60
11:15	6.7	0.87	0.32	7.40	150.4	200	0.83	5.60
11:20	6.6	0.91	0.32	7.42	151.6	200	0.86	5.60
11:25	6.6	1.00	0.31	7.42	151.9	200	0.63	5.60
11:30	6.7	1.02	0.28	7.42	151.5	200	0.52	5.60
11:35	6.7	1.08	0.36	7.42	148.1	200	0.53	5.60
11:40	6.8	1.11	0.33	7.42	145.9	200	0.82	5.59
Total Depth of Well:		12.38						
Depth To Water Before Purging:				5.59				
Depth To Water After Purging:				5.59				

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/7/2019
Site/Well No.	MW-75D	Replicate No.	--	Code No.	--
Weather	25F, mostly sunny	Sampling Time:	Begin 13:25	End	13:25

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	9.5
MP Elevation (ft)	NA	CND (mS/cm)	4.97
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.23
Sounded Well Depth (ft bmp)	16.78	pH (s.u.)	7.54
Depth to Water (ft bmp)	5.48	ORP (mV)	-136.4
Water-Level Elevation (ft)	NA	Turbidity (NTU)	26.10
Water Column in Well (ft)	11.3	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.84		
Volume Pumped/Bailed Prior to Sampling	2.2 gallons		
Sample Pump Intake Setting (ft bmp)	14.5	Sampling Method	Low-Flow
Purge Time	begin 12:40 end 13:25	Remarks	
Pumping Rate (ml/min)	185		Missing both bolts, bolt holes in pad both broken, rubber seal half off on pad
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Ellen Redner

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-75D PROJ #: MI001454.0006.00003

DATE : 3/7/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
12:40	10.0	5.76	0.70	7.71	-103.9	175	60.7	5.59
12:45	9.5	5.65	0.46	7.62	-124.4	175	58.7	5.59
12:50	9.6	5.60	0.31	7.60	-137.1	175	54.1	5.55
12:55	9.7	5.51	0.26	7.59	-140.2	175	43.8	5.55
13:00	9.6	5.33	0.27	7.57	-139.7	225	39	5.57
13:05	9.5	5.22	0.25	7.56	-138.9	225	31.5	5.57
13:10	9.4	5.08	0.22	7.55	-137.8	175	31.7	5.56
13:15	9.6	5.07	0.22	7.54	-138.1	175	28.8	5.56
13:20	9.6	4.99	0.23	7.54	-136.8	175	26.7	5.55
13:25	9.5	4.97	0.23	7.54	-136.4	175	26.1	5.55
Total Depth of Well:		16.78						
Depth To Water Before Purging:			5.59					
Depth To Water After Purging:			5.55					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 1
Site Location	Livonia, MI			Date	3/7/2019
Site/Well No.	MW-79D	Replicate No.	--	Code No.	--
Weather	27F, partly cloudy	Sampling Time:	Begin 15:25	End	15:25

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	7.7
MP Elevation (ft)	NA	CND (mS/cm)	2.36
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.97
Sounded Well Depth (ft bmp)	14.64	pH (s.u.)	7.01
Depth to Water (ft bmp)	4.5	ORP (mV)	-43.9
Water-Level Elevation (ft)	NA	Turbidity (NTU)	41.70
Water Column in Well (ft)	10.14	Color	Yellowish brown tint
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.65		
Volume Pumped/Bailed Prior to Sampling	3.41 gallons		
Sample Pump Intake Setting (ft bmp)	12.5	Sampling Method	Low-Flow
Purge Time	begin 14:25 end 15:25	Remarks	None
Pumping Rate (ml/min)	215.3846154		
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: Ellen Redner

Well Casing Volumes

Gal./Ft.					
0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65	
1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47	

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-79D PROJ #: MI001454.0006.00003

DATE : 3/7/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
14:25	7.9	2.32	3.96	7.02	-56.6	300	208	4.53
14:30	7.8	2.34	2.38	6.99	-53.0	300	176	4.53
14:35	7.7	2.41	1.39	7.00	-52.5	200	103	4.51
14:40	7.9	2.42	1.22	7.00	-53.1	200	90.9	4.51
14:45	7.7	2.40	1.30	7.01	-50.7	200	90.9	4.51
14:50	7.7	2.38	1.27	7.01	-50.2	200	85.3	4.51
14:55	7.5	2.36	1.35	7.01	-47.2	200	73.5	4.51
15:00	7.7	2.37	1.28	7.01	-46.5	200	69.2	4.51
15:05	7.7	2.38	1.15	7.00	-45.1	200	56.7	4.51
15:10	7.6	2.36	1.13	7.00	-44.3	200	52.5	4.51
15:15	7.6	2.36	1.09	7.00	-44.2	200	47.3	4.51
15:20	7.7	2.36	0.97	7.01	-43.9	200	44.7	4.51
15:25	7.7	2.36	0.97	7.01	-43.9	200	41.7	4.51
Total Depth of Well:		14.64						
Depth To Water Before Purging:			4.53					
Depth To Water After Purging:			4.51					

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 2
Site Location	Livonia, MI			Date	3/8/2019
Site/Well No.	MW-74S	Replicate No.	--	Code No.	--
Weather	22°F, partly cloudy	Sampling Time:	Begin 9:33	End	9:33

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	8.5
MP Elevation (ft)	NA	CND (mS/cm)	3.90
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.25
Sounded Well Depth (ft bmp)	12.78	pH (s.u.)	6.78
Depth to Water (ft bmp)	6.49	ORP (mV)	-12.6
Water-Level Elevation (ft)	NA	Turbidity (NTU)	0.42
Water Column in Well (ft)	6.29	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	1.02		
Volume Pumped/Bailed Prior to Sampling	1.62 gallons		
Sample Pump Intake Setting (ft bmp)	8.5	Sampling Method	Low-Flow
Purge Time	begin 8:51 end 9:32	Remarks	
Pumping Rate (ml/min)	150		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: M. Olender

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-74S PROJ #: MI001454.0006.00003

DATE : 3/8/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
8:51	7.3	2.11	0.94	6.54	90.6	150	39.1	6.49
8:56	8.0	2.94	0.44	6.61	32.6	150	15.9	6.49
9:01	8.1	3.10	0.38	6.66	11.5	150	7.27	6.49
9:06	8.4	3.36	0.30	6.71	0.9	150	3.68	6.49
9:11	8.5	3.58	0.29	6.73	-3.5	150	2.79	6.49
9:16	8.4	3.75	0.24	6.76	-6.5	150	1.49	6.49
9:21	8.6	3.85	0.26	6.77	-8.5	150	1.33	6.49
9:26	8.5	3.89	0.27	6.78	-10.4	150	0.91	6.49
9:31	8.5	3.90	0.25	6.78	-12.6	150	0.42	6.49
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Total Depth of Well:		12.78	---	---	---	---	---	---
Depth To Water Before Purging:				6.49	---	---	---	---
Depth To Water After Purging:				6.49	---	---	---	---

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0006.00003	Page	1 of 2
Site Location	Livonia, MI			Date	3/8/2019
Site/Well No.	MW-74	Replicate No.	--	Code No.	--
Weather	27°F, sunny	Sampling Time:	Begin 11:02	End	11:02

Evacuation Data

Measuring Point	Top of Casing	Temperature (°C)	10.9
MP Elevation (ft)	NA	CND (mS/cm)	5.03
Land Surface Elevation (ft)	NA	Dissolved Oxygen (mg/L)	0.16
Sounded Well Depth (ft bmp)	18.76	pH (s.u.)	7.16
Depth to Water (ft bmp)	6.46	ORP (mV)	-58.7
Water-Level Elevation (ft)	NA	Turbidity (NTU)	7.55
Water Column in Well (ft)	12.3	Color	Clear
Casing Diameter/Type	2" PVC	Odor	None
Gallons in Well	2		
Volume Pumped/Bailed Prior to Sampling	3.17 gallons		
Sample Pump Intake Setting (ft bmp)	8.5	Sampling Method	Low-Flow
Purge Time	begin 10:02 end 11:02	Remarks	
Pumping Rate (ml/min)	200		None
Evacuation Method	Low-Flow Peristaltic		

Field Parameters

Constituents Sampled	Container Description	Number	Preservative
1,4 Dioxane	40 mL VOA	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mlL VOA	3	HCL

Sampling Personnel: M. Olender

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	**2" = 0.16**	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-74 PROJ #: MI001454.0006.00003

DATE : 3/8/2019 LOC: Ford LTP - Livonia, MI

Time	Temp Degree C	CND mS/cm	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
10:02	8.9	4.13	0.48	7.15	9.4	200	69.1	6.46
10:07	9.6	4.22	0.20	7.14	-1.1	200	46.4	6.46
10:12	9.8	4.24	0.18	7.15	-6.7	200	44.6	6.46
10:17	9.8	4.26	0.19	7.15	-13.3	200	39.4	6.46
10:22	10.2	4.35	0.16	7.15	-17.9	200	32.7	6.46
10:27	10.7	4.72	0.18	7.15	-28.5	200	26.2	6.46
10:32	10.9	4.94	0.16	7.15	-39.6	200	20.4	6.46
10:37	10.9	4.98	0.14	7.15	-46.5	200	14.4	6.46
10:42	10.8	4.98	0.18	7.16	-51.5	200	12.7	6.46
10:47	10.9	5.01	0.17	7.16	-54.5	200	10.6	6.46
10:52	10.9	5.02	0.16	7.16	-56.9	200	7.96	6.46
10:57	10.9	5.03	0.16	7.16	-58.7	200	7.55	6.46
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Total Depth of Well:		18.76	---	---	---	---	---	---
Depth To Water Before Purging:				6.46	---	---	---	---
Depth To Water After Purging:				6.46	---	---	---	---

ARCADIS

Water Sampling Log

Project: Ford LTP | Project No. MI001454.03.02 | Page 1 of 2

Site Location: Livonia, MI | Date 2/14/19

Site/Well No. MW-133S | Replicate No. — | Code No. —

Weather 32° F CLOUDY | Sampling Time: Begin 1145 End 1155

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	8.55
Depth to Water (ft bmp)	5.79
Water-Level Elevation (ft)	NA
Water Column in Well (ft)	2.76
Casing Diameter/Type	2" PVC
Gallons in Well	0.44
Gallons Pumped/Bailed Prior to Sampling	~0.28
Sample Pump Intake Setting (ft bmp)	7.29'
Purge Time	begin 1055 end 1143
Pumping Rate (ml/min)	150 ml/min
Evacuation Method	PERISTALTIC PUMP

Field Parameters

Temperature (°C)	6.9
SpC (mS/cm)	0.73
CND (mS/cm)	0.47
Dissolved Oxygen (%)	10.7
Dissolved Oxygen (mg/L)	1.28
pH (s.u.)	6.57
ORP (mV)	29.7
Turbidity (NTU)	0.50
Color	CLEAR
Odor	NONE
Appearance	—
Sampling Method	LOW FLOW
Remarks	NA

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL VOA	3	HCL
1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; PCE; TCE; VC	40mL VOA	3	HCL

Sampling Personnel: Korey Pearson KP

Well Casing Volumes

Gal./Ft.					
	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-133S PROJ #: MI001454.0003.00002

DATE : 02/14/19 LOC: Ford LTP - LIVONIA, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1113	7.1	0.73	—	14.3	1.65	6.77	56.2	150	3.05	5.80
1118	6.9	0.73	0.48	11.7	1.39	6.68	43.9	150	3.15	5.82
1123	6.9	0.73	0.48	11.2	1.35	6.69	42.5	150	2.43	5.83
1128	6.9	0.73	0.47	10.3	1.28	6.67	36.2	150	1.00	5.85
1133	6.9	0.73	0.48	11.0	1.41	6.56	31.7	150	0.75	5.86
1138	7.0	0.73	0.48	11.8	1.39	6.56	31.1	150	0.69	5.87
1143	6.9	0.73	0.47	10.7	1.28	6.57	29.7	150	0.50	5.88
1145	SAMPLED	WELL		MW-133S_02149						
Total Depth of Well:		8.55								
Depth To Water Before Purging:				5.79						
Depth To Water After Purging:			5.88							

ARCADIS

Water Sampling Log

Project: Ford LTP | Project No. MI001454.03.02 | Page 1 of 2

Site Location: LIVONIA, MI | Date: 2/14/19

Site/Well No.: MW-134S | Replicate No.: — | Code No.: —

Weather: 32°F CLOUDY | Sampling Time: Begin 1247 End 1255

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	9.44
Depth to Water (ft bmp)	6.62
Water-Level Elevation (ft)	NA
Water Column in Well (ft)	2.82
Casing Diameter/Type	2" PVC
Gallons in Well	0.45
Gallons Pumped/Bailed Prior to Sampling	~0.37 gal
Sample Pump Intake Setting (ft bmp)	8.12'
Purge Time	begin 1205 end 1245
Pumping Rate (ml/min)	200 ML/MIN
Evacuation Method	PERISTALTIC PUMP

Field Parameters

Temperature (°C)	8.2
SpC (mS/cm)	0.59
CND (mS/cm)	0.40
Dissolved Oxygen (%)	18.7
Dissolved Oxygen (mg/L)	2.21
pH (s.u.)	6.13
ORP (mV)	42.5
Turbidity (NTU)	0.90
Color	CLEAR
Odor	NONE
Appearance	—
Sampling Method	LOW FLOW
Remarks	NA

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL VOA	3	HCL
1,1-DCE; cis-1,2-DCE; ~~trans~~-1,2-DCE; PCE; TCE; VC	40mL VOA	3	HCL

Sampling Personnel: Korey Pearson

Well Casing Volumes

Gal./Ft.					
	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-134S PROJ #: MI001454.0003.00002

DATE : 02/14/19 LOC: Ford - LTP - Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1215	8.2	0.60	0.41	23.3	2.84	6.52	36.8	200	1.74	6.69
1220	8.1	0.60	0.41	23.6	2.77	6.50	38.9	200	1.60	6.70
1225	8.1	0.60	0.40	23.6	2.79	6.46	39.0	200	1.54	6.69
1230	8.1	0.60	0.40	24.3	2.86	6.39	41.1	200	1.49	6.69
1235	8.2	0.59	0.40	24.7	2.98	6.34	41.7	200	1.33	6.69
1240	8.1	0.59	0.40	19.9	2.24	6.04	42.4	200	1.10	6.69
1245	8.2	0.59	0.40	18.7	2.21	6.13	42.5	200	0.90	6.69
1247	SAMPLED		MW-134S_021419							
Total Depth of Well:		9.44								
Depth To Water Before Purging:				6.62						
Depth To Water After Purging:			6.69							

ARCADIS

Water Sampling Log

Project: Ford LTP | Project No. MI001454.03.02 | Page 1 of 2

Site Location: LIVONIA, MI | Date: 2/14/19

Site/Well No.: MW-135S | Replicate No.: — | Code No.: —

Weather: 32°F CLOUDY | Sampling Time: Begin 1422 End 1438

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	9.85
Depth to Water (ft bmp)	5.75
Water-Level Elevation (ft)	NA
Water Column in Well (ft)	4.10
Casing Diameter/Type	2" PVC
Gallons in Well	0.65
Gallons Pumped/Bailed Prior to Sampling	~0.63 gAL
Sample Pump Intake Setting (ft bmp)	~7.25
Purge Time	begin 1310 end 1420
Pumping Rate (ml/min)	200 ml/MIN
Evacuation Method	PERISTALTIC PUMP

Field Parameters

Temperature (°C)	7.7
SpC (mS/cm)	0.49
CND (mS/cm)	0.33
Dissolved Oxygen (%)	48.3
Dissolved Oxygen (mg/L)	5.78
pH (s.u.)	6.99
ORP (mV)	75.8
Turbidity (NTU)	4.9
Color	CLEAR
Odor	NONE
Appearance	—
Sampling Method	LOW FLOW
Remarks	NA

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL VOA	3	HCL
1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; PCE; TCE; VC	40mL VOA	3	HCL

Sampling Personnel: Korey Pearson

Well Casing Volumes

Gal./Ft.					
	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-135S

PROJ #: MI001454.0003.00002

DATE : 02/14/19

LOC: Ford LTP - LIVONIA, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1320	7.7	0.50	0.33	50.6	6.05	6.14	60.8	200	129	5.78
1325	7.6	0.52	0.35	46.1	5.52	6.14	65.4	200	100	5.78
1330	7.7	0.52	0.35	48.0	5.64	6.14	65.4	200	83	5.78
1335	7.9	0.52	0.35	43.0	5.10	6.12	65.6	200	68	5.78
1340	7.9	0.52	0.35	43.4	5.17	6.09	68.0	200	52	5.78
1345	7.9	0.51	0.34	41.5	4.88	6.10	67.4	200	42	5.78
1350	7.9	0.50	0.34	44.3	5.33	6.09	67.4	200	36	5.78
1355	7.7	0.50	0.33	50.3	6.00	6.05	69.3	200	31	5.78
1400	7.8	0.49	0.33	46.0	5.47	6.02	70.7	200	28.4	5.78
1405	7.8	0.49	0.33	46.1	5.51	6.01	71.5	200	23.7	5.78
1410	7.7	0.49	0.33	47.6	5.69	6.02	72.2	200	16.2	5.78
1415	7.6	0.49	0.33	49.7	5.90	6.98	75.1	200	13.0	5.78
1420	7.7	0.49	0.33	48.3	5.78	6.99	75.8	200	4.9	5.78
1422	SAMPLED	MW-135S_021419								
Total Depth of Well:		9.85								
Depth To Water Before Purging:				5.75						
Depth To Water After Purging:			5.78							

ARCADIS

Water Sampling Log

Project: Ford LTP | Project No.: AI001454.0003.0000 | Page: 1 of 1

Site Location: Livonia, MI - 34401 Capitol St | Date: 2/19/19

Site/Well No.: MW-136S | Replicate No.: -- | Code No.: --

Weather: 20s SUNNY | Sampling Time: Begin 1545 End 1550

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	7.14
Depth to Water (ft bmp)	3.945
Water-Level Elevation (ft)	NA
Water Column in Well (ft)	3.19
Casing Diameter/Type	2" PVC
Gallons in Well	0.51 gal
Gallons Pumped/Bailed Prior to Sampling	2.06 gal
Sample Pump Intake Setting (ft bmp)	5.4 ft
Purge Time	begin 1453 end 1545
Pumping Rate (ml/min)	130
Evacuation Method	NA

Field Parameters

Temperature (°C)	4.6
SpC (mS/cm)	1.46
CND (mS/cm)	0.89
Dissolved Oxygen (%)	3.7
Dissolved Oxygen (mg/L)	0.52
pH (s.u.)	7.41
ORP (mV)	11.9
Turbidity (NTU)	5.09
Color	CLEAR
Odor	NONE
Appearance	NORMAL
Sampling Method	Low
Remarks	—

Constituents Sampled	Container Description	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, and Vinyl Chloride (via USEPA Method 8260B)	40 mL VOA	3	HCL
1,4-dioxane via USEPA Method 8260B-SIM	40 mL VOA	3	HCL

Sampling Personnel: Kira Koboski

Well Casing Volumes

Gal./Ft.					
	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW- 136S PROJ #: MI001454.0003.00002

DATE : 2/19/19 LOC: Livonia, MI - 34401 Capitol St

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1453	PUMP ON			—						
1458	4.5	1.23	0.75	25.7	3.17	7.48	18.3	~130	39.4	—
1501	4.3	1.35	0.82	10.5	1.33	7.45	17.5	130	29.9	3.12
1505	4.6	1.37	0.84	10.0	1.20	7.43	16.8	~130	27.1	3.11
1510	4.4	1.41	0.85	7.2	0.82	7.42	15.7	"	19.1	3.10
1515	4.5	1.41	0.86	4.8	0.72	7.42	14.7	"	15.3	3.10
1520	4.4	1.42	0.86	5.0	0.70	7.41	13.8	"	12.1	3.10
1525	4.5	1.43	0.87	4.8	0.56	7.41	12.7	"	11.1	3.11
1530	4.7	1.43	0.88	4.4	0.52	7.41	12.5	"	8.03	3.13
1535	4.6	1.46	0.89	4.0	0.49	7.41	12.6	"	5.74	3.10
1540	4.6	1.46	0.89	3.7	0.52	7.41	11.9	"	5.62	3.10
1545	SAMPLE								5.09	
	+/- 3% ✓	+/- 3% ✓		+/- 10% ✓	+/- 10% ✓	+/- 0.1 ✓	+/- 10mV ✓		+/- 10%	

Total Depth of Well:	7.14
Depth To Water Before Purging:	3.95
Depth To Water After Purging:	3.10

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0003.0000	Page	1 of 1
Site Location	Livonia, MI - 12088 BREWSTER ST.			Date	2/23/19
Site/Well No.	MW- 137s	Replicate No.	--	Code No.	--
Weather	25-35°F OVERCAST	Sampling Time:	Begin 1110	End	1115

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	7.03
Depth to Water (ft bmp)	2.11
Water-Level Elevation (ft)	NA
Water Column in Well (ft)	4.92
Casing Diameter/Type	2" PVC
Gallons in Well	0.79 gal
Gallons Pumped/Bailed Prior to Sampling	2.18 gal
Sample Pump Intake Setting (ft bmp)	~3.50 ft
Purge Time	begin 1015 end 1110
Pumping Rate (ml/min)	150
Evacuation Method	NA

Field Parameters

Temperature (°C)	4.6
SpC (mS/cm)	1.53
CND (mS/cm)	0.94
Dissolved Oxygen (%)	0.0
Dissolved Oxygen (mg/L)	0.06
pH (s.u.)	7.15
ORP (mV)	49.0
Turbidity (NTU)	6.19
Color	CLEAR
Odor	NONE
Appearance	NORMAL
Sampling Method	LOW FLOW
Remarks	-
	-
	-

Constituents Sampled	Container Description	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, and Vinyl Chloride (via USEPA Method 8260B)	40 mL VOA	3	HCL
1,4-dioxane via USEPA Method 8260B-SIM	40 mL VOA	3	HCL

Sampling Personnel: Kira Koboski

Well Casing Volumes

Gal./Ft.				
0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW- 137S PROJ #: MI001454.0003.00002

DATE : 2/23/19 LOC: Livonia, MI - 12088 BREWSTER

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1015	PUMP	UP								
1020	4.6	1.34	0.82	3.9	0.59	7.11	64.1	~150	26.9	2.16
1025	4.4	1.42	0.86	1.4	0.24	7.12	62.8	"	18.5	2.15
1030	4.4	1.46	0.88	0.4	0.08	7.12	62.5	"	16.1	2.15
1035	4.4	1.47	0.89	1.0	0.13	7.13	61.6	"	16.4	2.15
1040	4.5	1.52	0.93	0.6	0.05	7.14	57.8	"	11.8	2.15
1045	4.5	1.51	0.92	0.5	0.08	7.15	55.5	"	10.0	2.15
1050	4.5	1.53	0.93	0.4	0.08	7.15	53.7	"	8.58	2.15
1055	4.5	1.53	0.93	0.2	0.09	7.15	52.0	"	7.87	2.15
1100	4.6	1.53	0.93	0.4	0.01	7.15	50.9	"	7.18	2.15
1105	4.6	1.53	0.94	0.0	0.06	7.15	49.0	"	6.19	2.15
1110	SAMPLE									
	✓	✓	✓	✓	✓	✓	✓			
Total Depth of Well:		7.03								
Depth To Water Before Purging:			2.11							
Depth To Water After Purging:			2.15							

ARCADIS

Water Sampling Log

Project: Ford LTP | Project No.: MI001454.0003.0000 | Page 1 of 1

Site Location: Livonia, MI - 34450 ~~34500~~ Beech St | Date: 2/19/19

Site/Well No.: MW-13BS | Replicate No.: -- | Code No.: --

Weather: 20s SUNNY | Sampling Time: Begin 1345 End 1350

Evacuation Data

Measuring Point	~~NA~~ TOC
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	5.95
Depth to Water (ft bmp)	0.85
Water-Level Elevation (ft)	NA
Water Column in Well (ft)	5.10
Casing Diameter/Type	2" PVC
Gallons in Well	0.816gal
Gallons Pumped/Bailed Prior to Sampling	2.58gal
Sample Pump Intake Setting (ft bmp)	2ft
Purge Time	begin 1240 end 1345
Pumping Rate (ml/min)	150
Evacuation Method	NA

Field Parameters

Temperature (°C)	3.5
SpC (mS/cm)	2.45
CND (mS/cm)	1.44
Dissolved Oxygen (%)	0.9
Dissolved Oxygen (mg/L)	0.22
pH (s.u.)	7.26
ORP (mV)	14.6
Turbidity (NTU)	22.3
Color	CLEAR
Odor	NONE
Appearance	NORMAL
Sampling Method	Low Flow
Remarks	-
	-
	-

Constituents Sampled	Container Description	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, and Vinyl Chloride (via USEPA Method 8260B)	40 mL VOA	3	HCL
1,4-dioxane via USEPA Method 8260B-SIM	40 mL VOA	3	HCL

Sampling Personnel: Kira Koboski

Well Casing Volumes

Gal./Ft.					
	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-138S

PROJ #: MI001454.0003.00002

DATE : 2/19/19

LOC: Livonia, MI - 34450 ~~34454~~ Beacon St

Time	Temp ✓ Degree C	SpC ✓ mS/cm	CND ✓ mS/cm	DO% <1	DO ~~mg/L~~ mg/L ✓	pH ✓	ORP mV ✓	Flow Rate mL/min	Turbidity NTU ✓	DTW
1240	Pump	ON								
1245	3.7	2.26	1.34	17.4	2.20	7.13	67.8	~225	60.1	—
1250	3.9	2.45	1.47	4.2	0.54	7.17	55.5	"	40.0	0.90
1255	3.6	2.34	1.39	2.9	0.52	7.20	47.7	~175	42.6	0.90
1300	3.8	2.48	1.48	2.9	0.22	7.21	40.0	~150	36.8	0.90
1305	3.8	2.49	1.48	2.8	0.24	7.23	34.0	"	31.1	0.90
1310	3.8	2.47	1.47	2.0	0.30	7.24	30.1	"	29.2	0.91
1315	3.6	2.46	1.45	1.3	0.21	7.24	26.7	"	27.1	0.91
1320	3.5	2.46	1.45	0.7	0.24	7.25	23.8	"	25.2	0.91
1325	3.6	2.45	1.45	1.1	0.23	7.25	21.2	"	24.0	0.91
1330	3.4	2.45	1.44	0.3	0.22	7.26	18.5	"	23.2	0.91
1335	3.4	2.43	1.43	0.9	0.20	7.26	16.6	"	22.4	0.90
1340	3.5	2.45	1.44	0.9	0.22	7.26	14.6	"	22.3	0.90
1345	SAMPLE									
	+/- 3% ✓	+/- 3% ✓	✓	+/- 10%	+/- 10%	+/- 0.1 ✓	+/- 10mV ✓		+/- 10% ✓	

Total Depth of Well:	5.95
Depth To Water Before Purging:	0.84
Depth To Water After Purging:	0.90

PLACED TUBE @ 7 ft

ARCADIS

Water Sampling Log

Project	Ford LTP	Project No.	MI001454.0003.0000	Page	1 of 1
Site Location	Livonia, MI - 12066 BOSTON POST ST			Date	2/26/19
Site/Well No.	MW- 139s	Replicate No.	--	Code No.	--
Weather	17° F OVER CAST	Sampling Time:	Begin 1155	End	1200

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	6.91
Depth to Water (ft bmp)	1.54
Water-Level Elevation (ft)	NA
Water Column in Well (ft)	5.37
Casing Diameter/Type	2" PVC
Gallons in Well	0.86 gal
Gallons Pumped/Bailed Prior to Sampling	2.77 gal
Sample Pump Intake Setting (ft bmp)	3 ft
Purge Time	begin 1055 end 1155
Pumping Rate (ml/min)	~175
Evacuation Method	NA

Field Parameters

Temperature (°C)	6.2
SpC (mS/cm)	1.38
CND (mS/cm)	0.88
Dissolved Oxygen (%)	0.1
Dissolved Oxygen (mg/L)	0.01
pH (s.u.)	7.00
ORP (mV)	-9.1
Turbidity (NTU)	8.45
Color	CLEAR
Odor	NONE
Appearance	NORMAL
Sampling Method	LOW FLOW
Remarks	—
	—
	—

Constituents Sampled	Container Description	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, and Vinyl Chloride (via USEPA Method 8260B)	40 mL VOA	3	HCL
1,4-dioxane via USEPA Method 8260B-SIM	40 mL VOA	3	HCL

Sampling Personnel: Kira Koboski

Well Casing Volumes

Gal./Ft.					
	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-~~138~~139S PROJ #: MI001454.0003.00002

DATE : 2/26/19 LOC: Livonia, MI - 12066 BOSTON POST ST

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1055	PUMP	ON								
1100	6.3	1.42	0.91	3.6	0.44	7.07	24.5	~350	40.0	1.57
1105	5.9	1.40	0.89	1.8	0.24	7.01	15.7	~200	31.0	1.56
1110	6.0	1.40	0.89	0.5	0.08	7.00	9.6	~175	20.3	1.56
1115	6.0	1.40	0.89	0.5	0.06	7.00	5.6	"	20.0	1.55
1120	6.1	1.39	0.89	1.1	0.03	7.00	2.1	"	18.0	1.56
1125	6.2	1.39	0.89	1.1	0.06	7.00	-0.5	"	16.2	1.56
1130	6.2	1.38	0.89	0.9	0.04	7.00	-2.3	"	14.5	1.56
1135	6.1	1.38	0.88	0.6	0.03	7.00	-3.8	"	12.8	1.56
1140	6.2	1.38	0.88	0.1	0.01	7.00	-5.9	"	10.8	1.56
1145	6.2	1.38	0.88	0.4	0.01	7.00	-7.5	"	10.6	1.57
1150	6.2	1.38	0.88	0.1	0.01	7.00	-8.7	"	8.45	1.57
1155	SAMPLE									
	✓	✓	✓		✓	✓	✓			

ARCADIS

Water Sampling Log

Project: Ford LTP | Project No.: MI001454.0003.0000 | Page: 1 of 1

Site Location: Livonia, MI - 12067 BOSTON POST ST | Date: 2/26/19

Site/Well No.: MW- 140S | Replicate No.: -- | Code No.: --

Weather: 25°F OVERCAST | Sampling Time: Begin 1350 End 1355

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	6.74
Depth to Water (ft bmp)	3.13
Water-Level Elevation (ft)	NA
Water Column in Well (ft)	3.61
Casing Diameter/Type	2" PVC
Gallons in Well	0.58 gal
Gallons Pumped/Bailed Prior to Sampling	2.38 gal
Sample Pump Intake Setting (ft bmp)	4.5 ft
Purge Time	begin 1250 end 1350
Pumping Rate (ml/min)	150
Evacuation Method	NA

Field Parameters

Temperature (°C)	5.4
SpC (mS/cm)	0.259
CND (mS/cm)	0.162
Dissolved Oxygen (%)	17.7
Dissolved Oxygen (mg/L)	2.27
pH (s.u.)	7.88
ORP (mV)	-0.4
Turbidity (NTU)	23.6
Color	CLEAR
Odor	NONE
Appearance	NORMAL
Sampling Method	LOW FLOW
Remarks	—

Constituents Sampled	Container Description	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, and Vinyl Chloride (via USEPA Method 8260B)	40 mL VOA	3	HCL
1,4-dioxane via USEPA Method 8260B-SIM	40 mL VOA	3	HCL

Sampling Personnel: Kira Koboski

Well Casing Volumes

Gal./Ft.					
	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW- 140s PROJ #: MI001454.0003.00002

DATE : 2/26/19 LOC: Livonia, MI - 12067 BOSTON POST ST

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1250	Pump	on								
1255	4.7	0.155	0.095	75.0	9.58	8.20	-27.9	~200	104	3.18
1300	4.9	0.178	0.110	58.0	7.26	8.14	-19.2	~150	100	3.17
1305	5.0	0.203	0.126	41.3	5.28	8.04	-15.6	"	97.5	3.17
1310	5.2	0.213	0.133	34.4	4.40	7.98	-12.8	"	101	3.16
1315	5.3	0.214	0.134	33.9	4.42	7.96	-10.4	"	88.9	3.17
1320	5.2	0.224	0.140	31.2	3.95	7.94	-8.2	"	86.3	3.17
1325	5.2	0.229	0.143	28.3	3.77	7.93	-7.2	"	44.3	3.16
1330	5.3	0.235	0.147	23.5	3.02	7.90	-5.6	"	38.8	3.16
1335	5.4	0.252	0.159	21.1	2.67	7.90	-2.4	"	31.8	3.17
1340	5.4	0.260	0.162	19.1	2.43	7.88	-1.2	"	29.7	3.17
1345	5.4	0.259	0.162	17.7	2.27	7.88	-0.4	"	23.6	3.17
1350	SAMPLE									
		✓	✓	✓		✓	✓			

Total Depth of Well:	6.74		
Depth To Water Before Purging:	3.13	@ 4.5 FT	
Depth To Water After Purging:	3.17		

ARCADIS

Water Sampling Log

Project: Ford LTP | Project No.: MI001454.0003.0000 | Page: 1 of 1

Site Location: Livonia, MI - 12124 BOSTON POST ST | Date: 2/27/19

Site/Well No.: MW-141S | Replicate No.: -- | Code No.: --

Weather: 30°F CLOUDY, SNOW FLURRIES | Sampling Time: Begin 1240 End 1245

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	7.69
Depth to Water (ft bmp)	4.17
Water-Level Elevation (ft)	NA
Water Column in Well (ft)	3.52
Casing Diameter/Type	2" PVC
Gallons in Well	0.56 gal
Gallons Pumped/Bailed Prior to Sampling	2.38 gal
Sample Pump Intake Setting (ft bmp)	5.6 ft
Purge Time	begin 1140 end 1240
Pumping Rate (ml/min)	150
Evacuation Method	NA

Field Parameters

Temperature (°C)	5.6
SpC (mS/cm)	0.729
CND (mS/cm)	0.459
Dissolved Oxygen (%)	39.8
Dissolved Oxygen (mg/L)	4.95
pH (s.u.)	7.22
ORP (mV)	70.8
Turbidity (NTU)	5.90
Color	CLEAR
Odor	NONE
Appearance	NORMAL
Sampling Method	LOW FLOW
Remarks	—
	—
	—

Constituents Sampled	Container Description	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, and Vinyl Chloride (via USEPA Method 8260B)	40 mL VOA	3	HCL
1,4-dioxane via USEPA Method 8260B-SIM	40 mL VOA	3	HCL

Sampling Personnel: Kira Koboski

Well Casing Volumes

Gal./Ft.					
	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-141S PROJ #: MI001454.0003.00002

DATE : 2/27/19 LOC: Livonia, MI - 12124 Boston Post ST

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1140	Pump	ON								
1145	5.1	0.507	0.314	65.6	8.53	7.37	81.7	2150	37.5	4.40
1150	5.3	0.563	0.352	60.9	7.80	7.31	81.2	"	34.9	4.39
1155	5.4	0.607	0.380	55.7	7.00	7.28	80.7	"	33.5	4.39
1200	5.3	0.636	0.398	52.2	6.65	7.26	79.0	"	26.9	4.39
1205	5.5	0.668	0.419	47.6	6.11	7.24	76.8	"	21.4	4.40
1210	5.7	0.699	0.429	44.1	5.67	7.22	74.3	"	19.7	4.42
1215	5.5	0.712	0.447	42.0	5.32	7.22	74.2	"	10.2	4.40
1220	5.6	0.706	0.445	42.8	5.45	7.22	73.2	"	9.62	4.41
1225	5.5	0.711	0.447	41.4	5.20	7.22	72.6	"	7.81	4.41
1230	5.5	0.721	0.453	41.0	5.26	7.22	71.9	"	7.06	4.41
1235	5.6	0.729	0.459	39.8	4.95	7.22	70.8	"	5.96	4.40
1240	SAMPLE									
	✓	✓	✓	✓	✓	✓	✓		✓	

Total Depth of Well: 7.69

Depth To Water Before Purging: 4.17 @ 5.65 ft

Depth To Water After Purging: 4.40

ARCADIS

Water Sampling Log

Project: Ford LTP | Project No.: MI001454.0003.0000 | Page: 1 of 1

Site Location: Livonia, MI - 34326 ROSATI AVE | Date: 2/25/19

Site/Well No.: MW- 142S | Replicate No.: -- | Code No.: --

Weather: 15-20° F SUNNY | Sampling Time: Begin 1615 End 1620

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	6.82
Depth to Water (ft bmp)	3.36
Water-Level Elevation (ft)	NA
Water Column in Well (ft)	3.5
Casing Diameter/Type	2" PVC
Gallons in Well	0.56
Gallons Pumped/Bailed Prior to Sampling	1.783
Sample Pump Intake Setting (ft bmp)	4.5 ft
Purge Time	begin 1530 end 1614
Pumping Rate (ml/min)	150
Evacuation Method	NA

Field Parameters

Temperature (°C)	2.7
SpC (mS/cm)	1.09
CND (mS/cm)	0.62
Dissolved Oxygen (%)	3.7
Dissolved Oxygen (mg/L)	0.42
pH (s.u.)	6.98
ORP (mV)	57.9
Turbidity (NTU)	40.0
Color	CLEAR
Odor	NONE
Appearance	NORMAL
Sampling Method	LOW FLOW
Remarks	—

Constituents Sampled	Container Description	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, and Vinyl Chloride (via USEPA Method 8260B)	40 mL VOA	3	HCL
1,4-dioxane via USEPA Method 8260B-SIM	40 mL VOA	3	HCL

Sampling Personnel: Kira Koboski

Well Casing Volumes

Gal./Ft.					
	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW- 142S

PROJ #: MI001454.0003.00002

DATE : 2/25/19

LOC: Livonia, MI - 34326 ROSATI AVE

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1530	Pump	on						~150		
1535	3.1	1.03	0.60	13.0	1.72	6.99	56.5	"	280	3.38
1540	2.9	1.04	0.60	12.0	1.62	6.99	58.6	"	151	3.39
1545	2.3	1.07	0.60	4.2	0.58	6.97	57.9	"	69.8	3.38
1550	2.8	1.07	0.62	3.6	0.47	6.97	58.1	"	58.9	3.39
1555	2.9	1.07	0.62	3.8	0.52	6.98	57.7	"	53.9	3.39
1600	2.7	1.08	0.62	3.0	0.46	6.98	57.6	"	51.2	3.39
1605	2.8	1.08	0.62	3.5	0.48	6.98	57.6	"	44.1	3.39
1610	2.7	1.09	0.62	3.4	0.42	6.98	57.9	"	40.0	3.39
1614	SAMPLE							"		
	✓	✓	✓	✓	✓	✓	✓		✓	

Total Depth of Well: 6.82

Depth To Water Before Purging: 3.36 @ 4.58

Depth To Water After Purging: 3.39

APPENDIX D

Off-Site Soil Gas Field Sampling Logs

ARCADIS

Soil Vapor Collection Log Sheet

Office Name & Address (Reporting Information): Arcadis of Michigan, LLC, 28550 Cabot Drive, Suite 500, Novi, MI 48377	Project Name: Ford LTP Off-site Routine SVMP Sampling
	Project Number: MI001454.0006
Field Manager: Angela Paulson	Site Address: VARIOUS
Phone Number: 248.994.2240	Special Instructions: —
Email Address for Result Reporting: Kristoffer.Hinskey@arcadis.com	Sampler Name, Phone Number, Email: KALAN BRIGGS / 2486354576 / KALAN.BRIGGS@ARCADIS.COM
Helium Detector Model Used: Dielectric MGD-2002	Helium Leak Test Method: Bucket Shroud
	Summa Canister Size (1L, 2.7 L, 6L): 1 Liter
	Lab: Eurofins

Sample ID	Sample Location Description	Date	Pre-Sampling Shut-In / Leak-Down Test Pass/Fail?	Helium Tracer Test - Performed During Sample Point Purge			Purge Volume (mL)	Purge Rate (mL/min)	Canister Number	Flow Controller Number	Sample Collection Start Time	Starting Canister Pressure (in. Hg)	Sample Collection End Time	Ending Canister Pressure (in. Hg)	Post-Sampling CO_2 Reading from GEM (%)	Post-Sampling O_2 Reading from GEM (%)	Micromanometer Reading (in. WC)
				Shroud Helium Concentration During Purge (% Helium)	Helium Reading in Purged Vapor (% Helium)	Helium Test Pass/Fail (Purge contains <5% of shroud to pass)?											
SVMP-01S-3.5_030419	34965 STANDISH	3-4-19	PASS	40	0	PASS	180 mL ~~100 mL~~ KB 3-4-19	100 ml/min	1L3088	21966	850	-28	911	-5	1.6	19.6	—
SVMP-01D-7_030419	34965 STANDISH	3-4-19	PASS	40	0	PASS	180 mL ~~100 mL~~ KB 3-4-19	100 ml/min	1L2544	23685	1026	-28	1046	-5	1.5	19.5	—
SVMP-22-3_030519	WEST ON ROSATI	3-5-19	PASS	40	0	PASS	180 mL ~~100 mL~~ KB 3-5-19	100 ml/min	1L1505	23448	726	-29.05	749	-5	0.3	20.0	—
SVMP-08-3.5_030519	34964 BEACON	3-5-19	PASS	40	0	PASS	180 mL ~~100 mL~~ KB 3-5-19	100 ml/min	1L1751	23719	928	-29.03	945	-5	0.6	20.0	—
SVMP-02S-4.5_030519	34963 STANDISH	3-5-19	PASS	40	0	PASS	180 mL ~~100 mL~~ KB 3-5-19	100 ml/min	1L3880	24357	1200	-29.17	1220	-5	~~KB 3-5-19 3.6~~ 0.0	~~KB 3-5-19 15.4~~ 20.0	—
SVMP-02D-8.5_030519	34963 STANDISH	3-5-19	PASS	40	0	PASS	180 mL ~~100 mL~~ KB 3-5-19	100 ml/min	1L2829	24355	1200	-29.03	1220	-5	3.6	15.4	—
SVMP-03S-3.5_030519	34851 STANDISH	3-5-19	PASS	40	0	PASS	180 mL ~~100 mL~~ KB 3-5-19	100 ml/min	1L2878	23449	1247	-29.33	1316	-5	0.4	19.9	—
SVMP-03D-7_030519	34851 STANDISH	3-5-19	PASS	40	0	PASS	180 mL ~~100 mL~~ KB 3-5-19	100 ml/min	1L3102	23572	1247	-29.36	1308	-5	0.4	20.0	—
SVMP-14-2_030519	34664 BEACON	3-5-19	PASS	40	0	PASS	180 mL ~~100 mL~~ KB 3-5-19	100 ml/min	1L2640	24278	1314	-29.45	1405	-5	0.8	18.6	—
SVMP-17-2_030519	ACROSS FROM 34424 BEACON ST.	3-5-19	PASS	40	0	PASS	180 mL ~~100 mL~~ KB 3-5-19	100 ml/min	1L3120	23805	1439	-29.29	1502	-5	0.5	19.9	—

Meteorological Data

Date	Time	Temp. (°F) Indoor	Temp. (°F) Outdoor	Relative Humidity (%)	Barometric Pressure (in. Hg)	Source of Weather Information
3-4-19	900	—	13	70	30.12	weather.com app
3-5-19	730	-	8	52	30.04 ↓	weather.com app
3-5-19	1300	-	14	61	30.03	weather.com app
						weather.com app
						weather.com app
						weather.com app

Purge Volume Calculations:
The purge volume for each sample has been pre-calculated using the information below.
For sub-slab soil vapor samples the sample train tubing length is ~54 inches and the interior tubing radius is 0.085".
Three volumes of the sample train is 60 milliliters using the equation for volume of a cylinder (volume = pi * radius^2 * height) where Volume = 60 ml, radius = 0.85" and height = 54".
To have sufficient volume to conduct helium leak testing 100 milliliters should be purged from each sample point.
For exterior soil vapor sampling 60 milliliters should be used for the above ground sample train.
Each additional foot of sub-grade tubing account for approximately 13 ml.
To have sufficient volume to conduct helium leak testing at least 100 milliliters should be purged from each sample point.

General Notes or Observations

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ARCADIS

Soil Vapor Collection Log Sheet

Office Name & Address (Reporting Information): Arcadis of Michigan, LLC 28550 Cabot Drive, Suite 500, Novi, MI 48377	Project Name: Ford LTP Off-site Routine SVMP Sampling Project Number: MI001454.0006
Field Manager: Angela Paulson	Site Address: VARIOUS
Phone Number: 248.994.2240 Special Instructions: —	Sampler Name, Phone Number, Email: KALAN BRIGGS, 2486354576, KALAN.BRIGGS@ARCADIS.COM
Email Address for Result Reporting: Kristoffer.Hinskey@arcadis.com	
Helium Detector Model Used: Dielectric MGD-2002 Helium Leak Test Method: Bucket Shroud	Summa Canister Size (1L, 2.7 L, 6L): 1 Liter Lab: Eurofins

Sample ID	Sample Location Description	Date	Pre-Sampling Shut-In / Leak-Down Test Pass/Fail?	Helium Tracer Test - Performed During Sample Point Purge			Purge Volume (mL)	Purge Rate (mL/min)	Canister Number	Flow Controller Number	Sample Collection Start Time	Starting Canister Pressure (in. Hg)	Sample Collection End Time	Ending Canister Pressure (in. Hg)	Post-Sampling CO_2 Reading from GEM (%)	Post-Sampling O_2 Reading from GEM (%)	Micromanometer Reading (in. WC)
				Shroud Helium Concentration During Purge (% Helium)	Helium Reading in Purged Vapor (% Helium)	Helium Test Pass/Fail (Purge contains <5% of shroud to pass)?											
SVMP-21-Z_030519	NORTH OF BREWSTER AND BEACON INTERSECTION	3-5-19	PASS	40	0	PASS	180 mL ~~100 mL~~ (R2) 3-5-19	100 ml/min	IL1766	23782	1524	-29.33	1540	-5	0.9	19.7	—
							100 mL	100 ml/min									
							100 mL	100 ml/min									
							100 mL	100 ml/min									
							100 mL	100 ml/min									
							100 mL	100 ml/min									
							100 mL	100 ml/min									
							100 mL	100 ml/min									
							100 mL	100 ml/min									

Meteorological Data

Date	Time	Temp. (°F) Indoor	Temp. (°F) Outdoor	Relative Humidity (%)	Barometric Pressure (in. Hg)	Source of Weather Information
3-5-19	1530	—	19	41	30.00 ↓	weather.com app
						weather.com app
						weather.com app
						weather.com app
						weather.com app
						weather.com app

Purge Volume Calculations:

The purge volume for each sample has been pre-calculated using the information below.

For sub-slab soil vapor samples the sample train tubing length is ~54 inches and the interior tubing radius is 0.085".

Three volumes of the sample train is 60 milliliters using the equation for volume of a cylinder (volume = pi * radius^2 * height) where Volume = 60 ml, radius = 0.85" and height = 54".

To have sufficient volume to conduct helium leak testing 100 milliliters should be purged from each sample point.

For exterior soil vapor sampling 60 milliliters should be used for the above ground sample train.

Each additional foot of sub-grade tubing account for approximately 13 ml.

To have sufficient volume to conduct helium leak testing at least 100 milliliters should be purged from each sample point.

General Notes or Observations

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ARCADIS

Soil Vapor Collection Log Sheet

Office Name & Address (Reporting Information): Arcadis of Michigan, LLC 28550 Cabot Drive, Suite 500, Novi, MI 48377	Project Name: Ford LTP Off-site Routine SVMP Sampling
	Project Number: MI001454.0006
Field Manager: Angela Paulson	Site Address:
Phone Number: 248.994.2240 — Special Instructions:	
Email Address for Result Reporting: Kristoffer.Hinskey@arcadis.com	Sampler Name, Phone Number, Email:
Helium Detector Model Used: Dielectric MGD-2002 — Helium Leak Test Method: Bucket Shroud	Summa Canister Size (1L, 2.7 L, 6L): 1 Liter — Lab: Eurofins

Sample ID	Sample Location Description	Date	Pre-Sampling Shut-In / Leak-Down Test Pass/Fail?	Helium Tracer Test - Performed During Sample Point Purge			Purge Volume (mL)	Purge Rate (mL/min)	Canister Number	Flow Controller Number	Sample Collection Start Time	Starting Canister Pressure (in. Hg)	Sample Collection End Time	Ending Canister Pressure (in. Hg)	Post-Sampling CO_2 Reading from GEM (%)	Post-Sampling O_2 Reading from GEM (%)	Micromanometer Reading (in. WC)
				Shroud Helium Concentration During Purge (% Helium)	Helium Reading in Purged Vapor (% Helium)	Helium Test Pass/Fail (Purge contains <5% of shroud to pass)?											
SVMP-07-3.5_030419	SVMP-07	03/04/19	PASS	40.8	0	PASS	100 mL	100 ml/min	1L1593	1829	09:33	-28	09:59	-5	0.9	17.6	
SVMP-06-4.5-030419	SVMP-06		PASS	41.5	0	PASS	100 mL	100 ml/min	1L2613	1816	10:42	-28	11:08	-5	0.5	18.6	
SVMP-05-4.5_030519	SVMP-05		PASS	42.6	0	PASS	100 mL	100 ml/min	1L2370	1331	08:29	-29.36	08:49	-5	0.3	22.2	
							100 mL	100 ml/min									
							100 mL	100 ml/min									
							100 mL	100 ml/min									
							100 mL	100 ml/min									
							100 mL	100 ml/min									
							100 mL	100 ml/min									

Meteorological Data

Date	Time	Temp. (°F) Indoor	Temp. (°F) Outdoor	Relative Humidity (%)	Barometric Pressure (in. Hg)	Source of Weather Information
03/04/2019	09:40	—	15°F	62%	30.13	weather.com app
~~03/04/2019~~ 03/04/19						weather.com app
						weather.com app
						weather.com app
						weather.com app
						weather.com app

Purge Volume Calculations:

The purge volume for each sample has been pre-calculated using the information below.
For sub-slab soil vapor samples the sample train tubing length is ~54 inches and the interior tubing radius is 0.085".
Three volumes of the sample train is 60 milliliters using the equation for volume of a cylinder (volume = pi * radius^2 * height) where Volume = 60 ml, radius = 0.85" and height = 54".
To have sufficient volume to conduct helium leak testing 100 milliliters should be purged from each sample point.
For exterior soil vapor sampling 60 milliliters should be used for the above ground sample train.
Each additional foot of sub-grade tubing account for approximately 13 ml.
To have sufficient volume to conduct helium leak testing at least 100 milliliters should be purged from each sample point.

General Notes or Observations

ARCADIS

Soil Vapor Collection Log Sheet

Office Name & Address (Reporting Information):
Arcadis of Michigan, LLC
28550 Cabot Drive Suite 500 Novi, MI 48377

Project Manager:
Nargess Paulson

Phone Number:
(248) 994-2240

Email Address for Result Reporting:
Nargess.Paulson@arcadis.com

Helium Detector Model Used:
Dielectric MGD-2002

Special Instructions:

Helium Leak Test Method:
Bucket Shroud

Project Name: Ford LTP Off-site Rovins SVMP Sampling

Project Number: MI001454.0006

Site Address:

Sampler Name, Phone Number, Email:

Summa Canister Size (1L, 2.7L, 6L):
1 Liter

Lab:
Eurofins

Sample ID	Sample Location Description	Date	Pre-Sampling Shut-In / Leak-Down Test Pass/Fail?	Helium Tracer Test - Performed During Sample Point Purge: Shroud Helium Concentration During Purge (% Helium)	Helium Reading in Purged Vapor (% Helium)	Helium Test Pass/Fail (Purge contains <5% of shroud to pass)?	Purge Volume (mL)	Purge Rate (mL/min)	Canister Number	Flow Controller Number	Sample Collection Start Time	Starting Canister Pressure (in. Hg)	Sample Collection End Time	Ending Canister Pressure (in. Hg)	Post-Sampling CO_2 Reading from GEM (%)	Post-Sampling O_2 Reading from GEM (%)	Micromanometer Reading (in. WC)
SVMP-09-4_030519	34921 Beacon	3/5/19	Pass	40	0	Pass	180 mL GR 100 mL 3-5-19	100 ml/min	1L2523	23576	1029	-29.24	1046	-5	0	20.9	—
SVMP-04-3.5_030519	11650 Boston Post	3/5/19	Pass	40	0	Pass	180 mL GR 100 mL 3-5-19	100 ml/min	1L3114	23741 ~~1845~~ ER	1205	-29.12	1223	-5	0.6	19.5	—
SVMP-18-3_030519	34367 Capitol	3/5/19	Pass	40	0	Pass	180 mL GR 100 mL 3-5-19	100 ml/min	1L2764	23665	1351	-28.96	1406	-5	2.8	16.6	—
SVMP-19-3_030519	12088 Brewster	3/5/19	Pass	40	0	Pass	180 mL GR 100 mL 3-5-19	100 ml/min	1L2733	23109	1507	-29.43	1526	-5	5.3	11.1	—
DUP-01	12088 Brewster	3/5/19	Pass	40	0	Pass	180 mL ~~100 mL~~ ER 3-5-19	100 ml/min	1L2133	23540	1507	-28.84	1522	-5	5.3	11.1	—
~~SVMP-20~~ ER 3-5-19							~~100 mL~~	100 ml/min									
							100 mL	100 ml/min									
							100 mL	100 ml/min									
							100 mL	100 ml/min									
							100 mL	100 ml/min									

Meteorological Data

Date	Time	Temp. (°F) Indoor	Temp. (°F) Outdoor	Relative Humidity (%)	Barometric Pressure (in. Hg)	Source of Weather Information
3/5/19	1030		13°F	41	30.03	weather.com app
3/5/19	1510		20°F	55	30.05	weather.com app
						weather.com app
						weather.com app
						weather.com app
						weather.com app

Purge Volume Calculations:
The purge volume for each sample has been pre-calculated using the information below.
For sub-slab soil vapor samples the sample train tubing length is ~54 inches and the interior tubing radius is 0.085".
Three volumes of the sample train is 60 milliliters using the equation for volume of a cylinder (volume = pi * radius^2 * height) where Volume = 60 ml, radius = 0.85" and height = 54".
To have sufficient volume to conduct helium leak testing 100 milliliters should be purged from each sample point.
For exterior soil vapor sampling 60 milliliters should be used for the above ground sample train.
Each additional foot of sub-grade tubing account for approximately 13 mL.
To have sufficient volume to conduct helium leak testing at least 100 milliliters should be purged from each sample point.

General Notes or Observations

ARCADIS

Soil Vapor Collection Log Sheet

Office Name & Address (Reporting Information): Arcadis of Michigan, LLC 28550 Cabot Drive, Suite 500, Novi, MI 48377	Project Name: Ford LTP Off-site Sampling
	Project Number: MI001454.0006.00003
Field Manager: Adam Richmond	Site Address: Livonia, Ford
Phone Number: 248.994.2240	Special Instructions: None
Email Address for Result Reporting: Kristoffer.Hinskey@arcadis.com	Sampler Name, Phone Number, Email: S Turner/H Ladd
Helium Detector Model Used: Dielectric MGD-2002	Helium Leak Test Method: Bucket Shroud
	Summa Canister Size (1L, 2.7 L, 6L): 1 Liter
	Lab: Eurofins

Sample ID	Sample Location Description	Date	Pre-Sampling Shut-In / Leak-Down Test Pass/Fail?	Helium Tracer Test - Performed During Sample Point Purge			Purge Volume (mL)	Purge Rate (mL/min)	Canister Number	Flow Controller Number	Sample Collection Start Time	Starting Canister Pressure (in. Hg)	Sample Collection End Time	Ending Canister Pressure (in. Hg)	Post-Sampling CO_2 Reading from GEM (%)	Post-Sampling O_2 Reading from GEM (%)	Micromanometer Reading (in. WC)
				Shroud Helium Concentration During Purge (% Helium)	Helium Reading in Purged Vapor (% Helium)	Helium Test Pass/Fail (Purge contains <5% of shroud to pass)?											
SVMP-35-3.5_032119		3/21/19	Pass	47.4	0	Pass	180 mL	100 ml/min	IL2717	23412	1025	-29	1054	-5	.5	20.7	—
SVMP-30-7_032119		3/21/19	Pass	44.7	0	Pass	180 mL	100 ml/min	IL2465	23795	1113	-29	1135	-6	.4	19.4	—
SVMP-025-4.5_032119		3/21/19	Pass	46.6	0	Pass	180 mL	100 ml/min	IL1593	23755	1029	-28.5	1053	-5	3.1	16.6	—
Dup-01		3/21/19	Pass	44.7	0	Pass	180 mL	100 ml/min	IL2937	23106	1113	-29	1135	-6	.4	19.4	—
SVMP-06-4.5_032119		3/21/19	Pass	43.0	0	Pass	180 mL	100 ml/min	IL3190	23205	1205	-29	1221	-6	.5	20.5	—
SVMP-12-3.5_032119		3/21/19	Pass	47.0	0	Pass	180 mL	100 ml/min	IL2629	23644	1337	-29	1352	-6	.5	21.2	—
SVMP-24-4_032119		3/21/19	Pass	46.0	0	Pass	180 mL	100 ml/min	IL2527	23683	1427	-29	1447	-6	2.0	19.2	—
SVMP-250-6_032119		3/21/19	Pass	45.6	0	Pass	180 mL	100 ml/min	IL3851	24237	1516	-29	1536	-7.5	1.6	20.0	—
SVMP-255-3_032119		3/21/19	Pass	52.1	0	Pass	180 mL	100 ml/min	IL2322	24263	1516	-29	1536	-6	1.5	20.2	—
SVMP-26-4_032119		3/21/19	Pass	43.3	0	Pass	180 mL	100 ml/min	IL2419	23781	1602	-29	1623	-6	7.3	9.4	—

Meteorological Data

Date	Time	Temp. (°F) Indoor	Temp. (°F) Outdoor	Relative Humidity (%)	Barometric Pressure (in. Hg)	Source of Weather Information
3/21/19	0900	N/A	40	85	29.91	weather.com app
3/21/19	1300	N/A	43	75	29.91	weather.com app
3/21/19	1630	N/A	42	68	29.88	weather.com app
						weather.com app
						weather.com app
						weather.com app

Purge Volume Calculations:
The purge volume for each sample has been pre-calculated using the information below.
For sub-slab soil vapor samples the sample train tubing length is ~54 inches and the interior tubing radius is 0.085".
Three volumes of the sample train is 60 milliliters using the equation for volume of a cylinder (volume = pi * radius^2 * height) where Volume = 60 ml, radius = 0.085" and height = 54".
To have sufficient volume to conduct helium leak testing 100 milliliters should be purged from each sample point.
For exterior soil vapor sampling 60 milliliters should be used for the above ground sample train.
Each additional foot of sub-grade tubing account for approximately 13 ml.
To have sufficient volume to conduct helium leak testing at least 100 milliliters should be purged from each sample point.

General Notes or Observations: Dup-01 Taken with SVMP-30-7_032119

ARCADIS

Soil Vapor Collection Log Sheet

Office Name & Address (Reporting Information):
Arcadis of Michigan, LLC
28550 Cabot Drive, Suite 500, Novi, MI 48377

Field Manager:
Adam Richmond

Phone Number:
248 994 2240

Email Address for Result Reporting:
Kristoffer.Hinskey@arcadis.com

Helium Detector Model Used:
Dielectric MGD-2002

Special Instructions: None
—

Helium Leak Test Method:
Bucket Shroud

Project Name: Ford LTP Off-site Sampling

Project Number: MI001454.0006.00003

Site Address: Ford off-site sump sampling, Livonia

Sampler Name, Phone Number, Email:
Hilary S. Turner

Summa Canister Size (1L, 2.7 L, 6L):
1 Liter

Lab:
Eurofins

Sample ID	Sample Location Description	Date	Pre-Sampling Shut-In / Leak-Down Test Pass/Fail?	Helium Tracer Test - Performed During Sample Point Purge: Shroud Helium Concentration During Purge (% Helium)	Helium Reading in Purged Vapor (% Helium)	Helium Test Pass/Fail (Purge contains <5% of shroud to pass)?	Purge Volume (mL)	Purge Rate (mL/min)	Canister Number	Flow Controller Number	Sample Collection Start Time	Starting Canister Pressure (in. Hg)	Sample Collection End Time	Ending Canister Pressure (in. Hg)	Post-Sampling CO_2 Reading from GEM (%)	Post-Sampling O_2 Reading from GEM (%)	Micromanometer Reading (in. WC)
SVMP-05-4.5_032119	Near 34851 Wolworth driveway	3-21-19	Pass	46.7	0	Pass	180 mL	100 ml/min	112926	23646	1204	-29	1226	-6.5	.3	21.0	—
SVMP-27-4.5_032119	Near 11873 Belden mailbox	3-21-19	Pass	41.5	0	Pass	180 mL	100 ml/min	112778	23703	1613	-29.5	1634	-7	1.1	19.3	—
svmp-28-3 -032119	near 11771 Belden flag poles	3/21/19	Pass	46.1	0	Pass	180 mL	100 ml/min	112801	24210	1659	-29	1714	-6.5	1.8	18.3	—
							180 mL	100 ml/min									
							180 mL	100 ml/min									
							180 mL	100 ml/min									
							180 mL	100 ml/min									
							180 mL	100 ml/min									
							180 mL	100 ml/min									
							180 mL	100 ml/min									

Meteorological Data

Date	Time	Temp. (°F) Indoor	Temp. (°F) Outdoor	Relative Humidity (%)	Barometric Pressure (in. Hg)	Source of Weather Information
3-21-19	0900	NA	40	85	29.91	weather.com app
3/21/19	1300	NA	43	75	29.91	weather.com app
3/21/19	1630	NA	42	68	29.88	weather.com app
						weather.com app
						weather.com app
						weather.com app

Purge Volume Calculations:

The purge volume for each sample has been pre-calculated using the information below.

For sub-slab soil vapor samples the sample train tubing length is ~54 inches and the interior tubing radius is 0.085".
Three volumes of the sample train is 60 milliliters using the equation for volume of a cylinder (volume = pi * radius^2 * height) where Volume = 60 ml, radius = 0.085" and height = 54".
To have sufficient volume to conduct helium leak testing 100 milliliters should be purged from each sample point.

For exterior soil vapor sampling 60 milliliters should be used for the above ground sample train.
Each additional foot of sub-grade tubing account for approximately 13 ml.
To have sufficient volume to conduct helium leak testing at least 100 milliliters should be purged from each sample point.

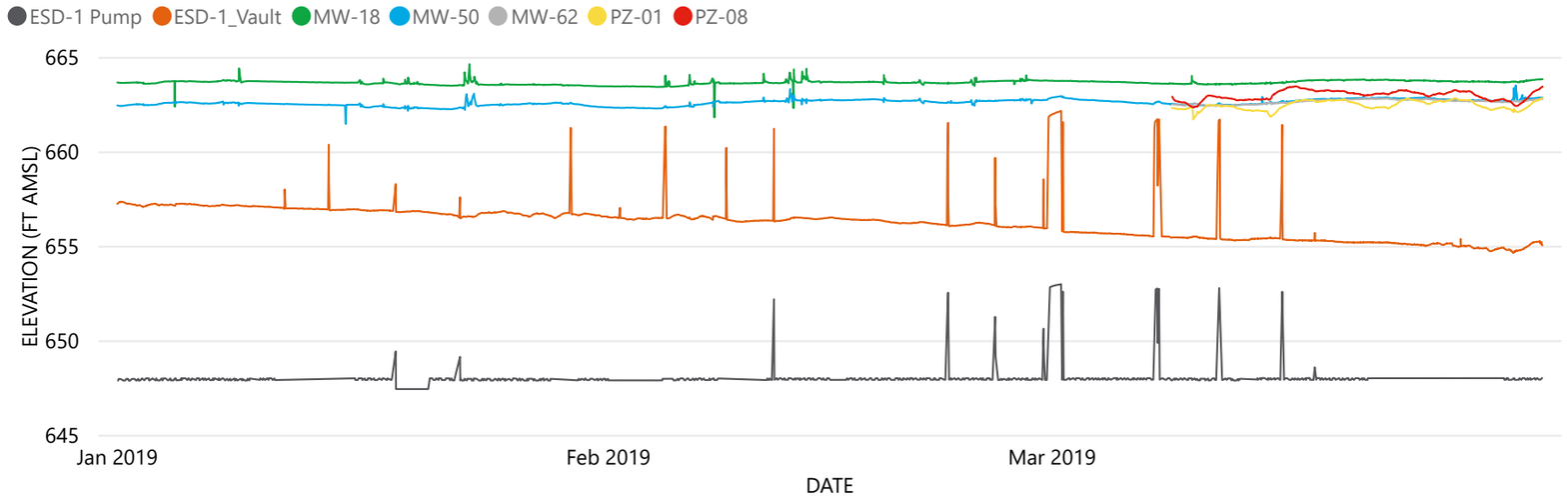
General Notes or Observations

APPENDIX E

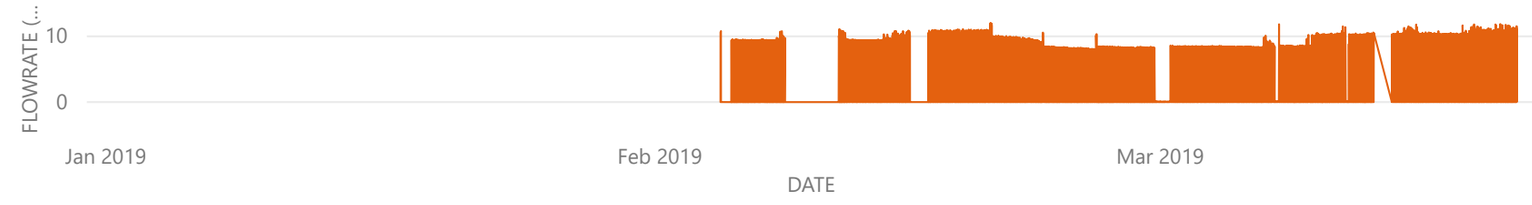
Transducer Data

HORIZONTAL WELL 1 TRANSDUCER ELEVATIONS

ESD-1 Transducer Comparison



ESD-1 Flows

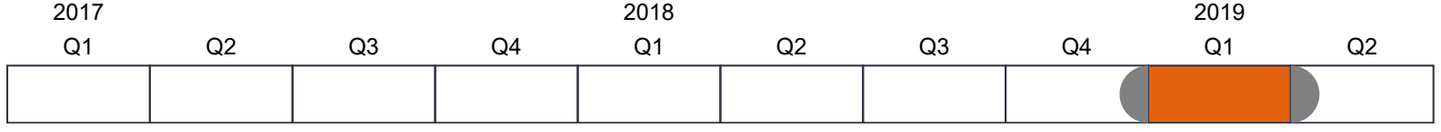


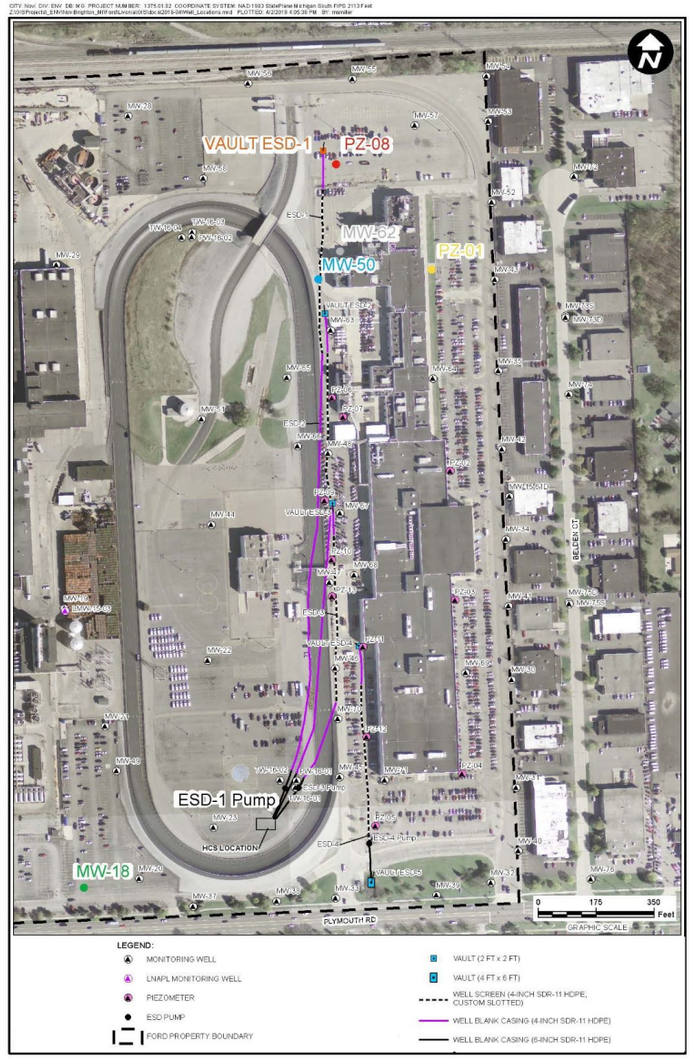
Date Range

Y Q M W D

Quarter

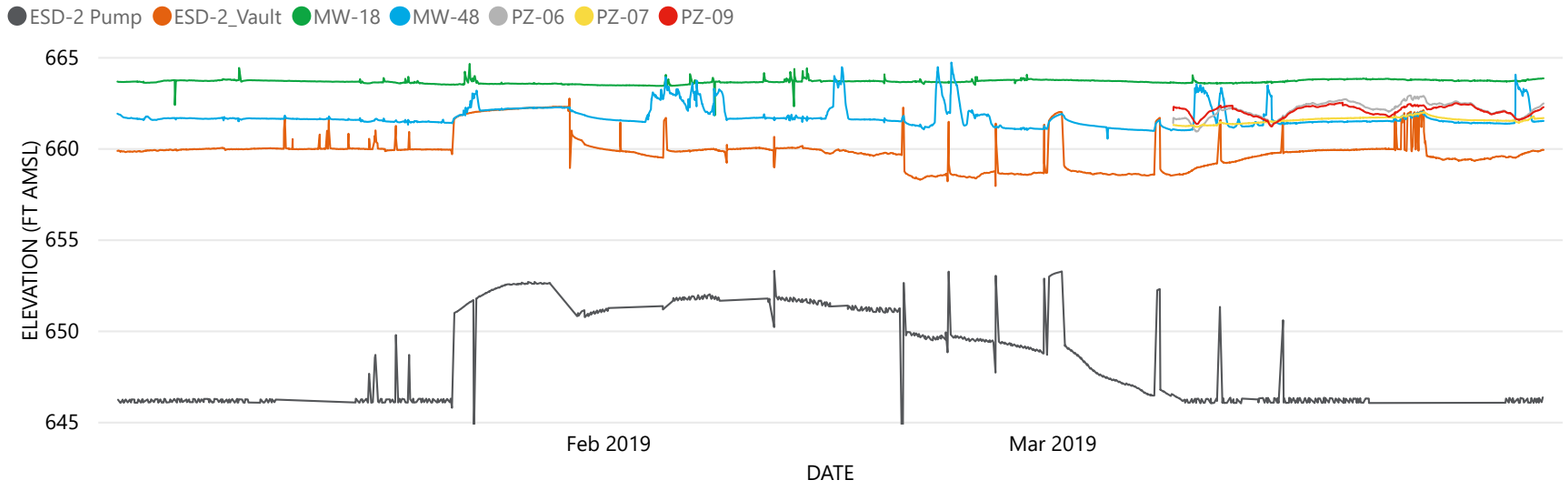
Q1 2019 - Q1 2019



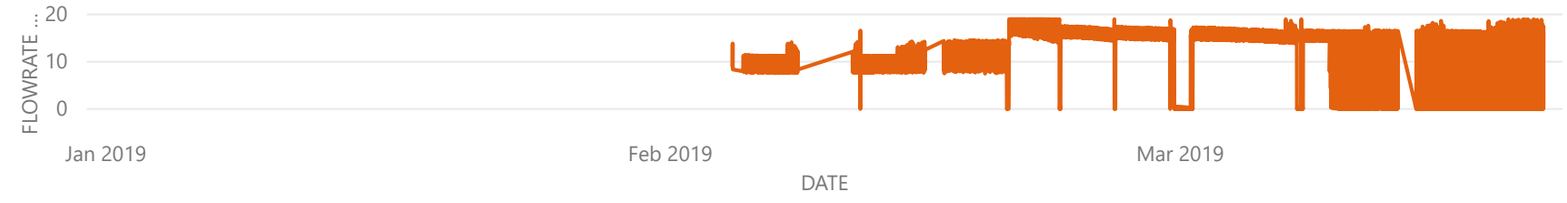


HORIZONTAL WELL 2 TRANSDUCER ELEVATIONS

ESD-2 Transducer Comparison



ESD-2 Flows

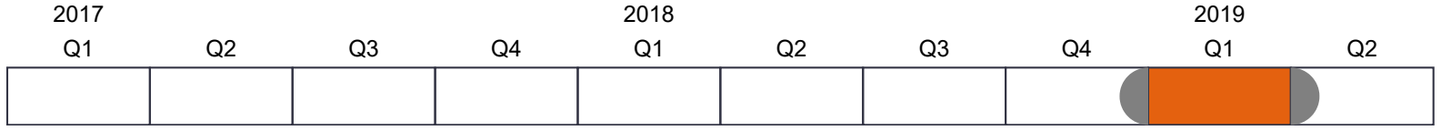


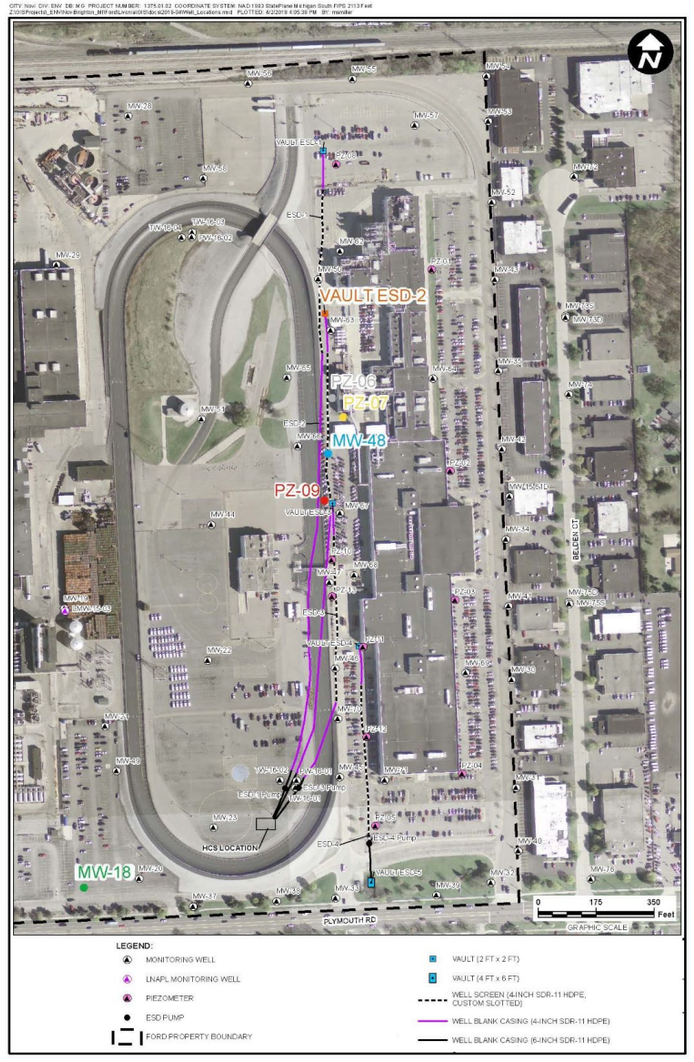
Date Range

Y Q M W D

Quarter

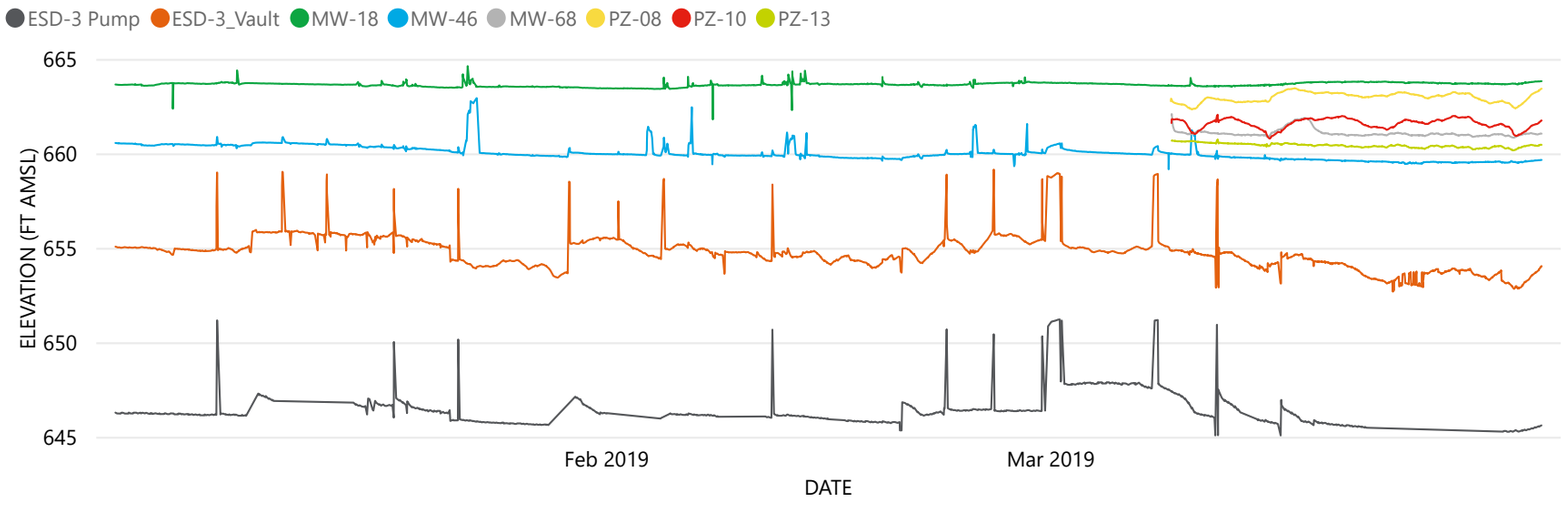
Q1 2019 - Q1 2019



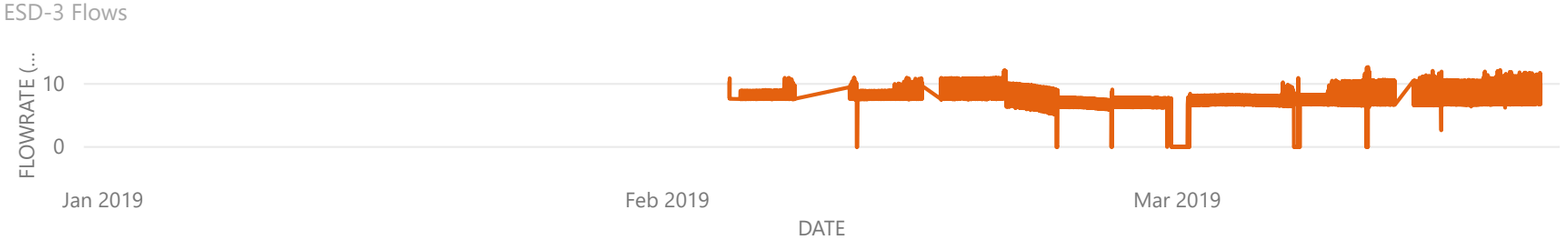


HORIZONTAL WELL 3 TRANSDUCER ELEVATIONS

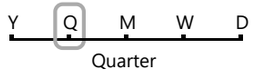
ESD-3 Transducer Comparison



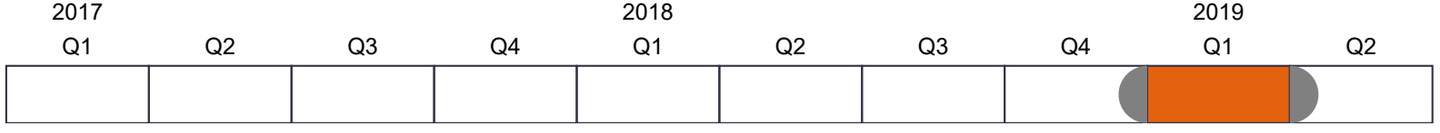
ESD-3 Flows

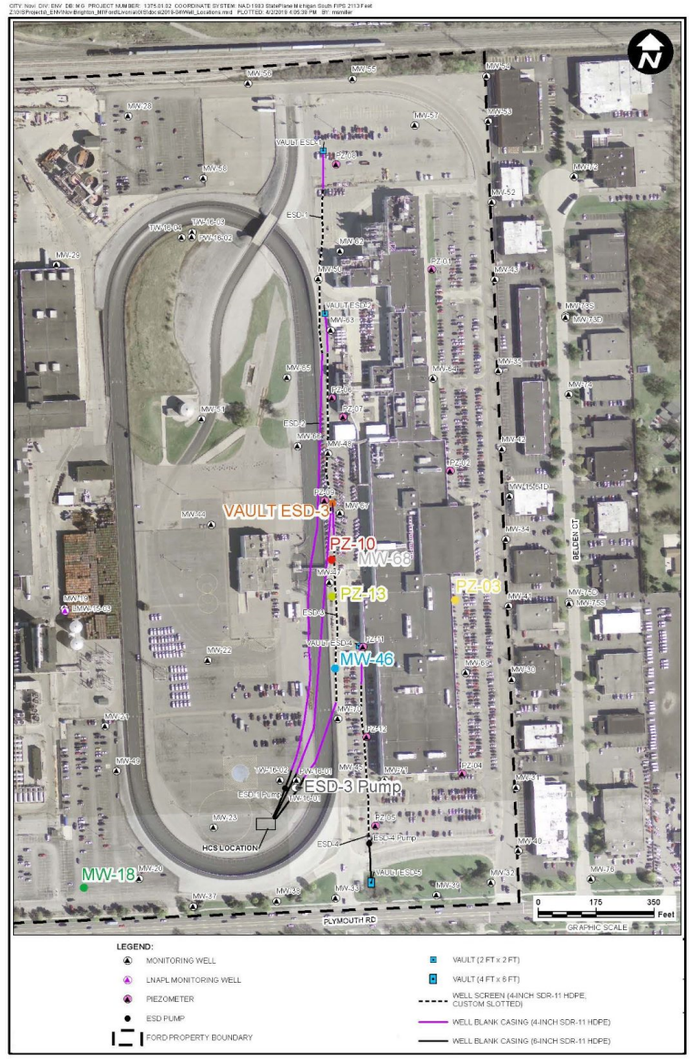


Date Range



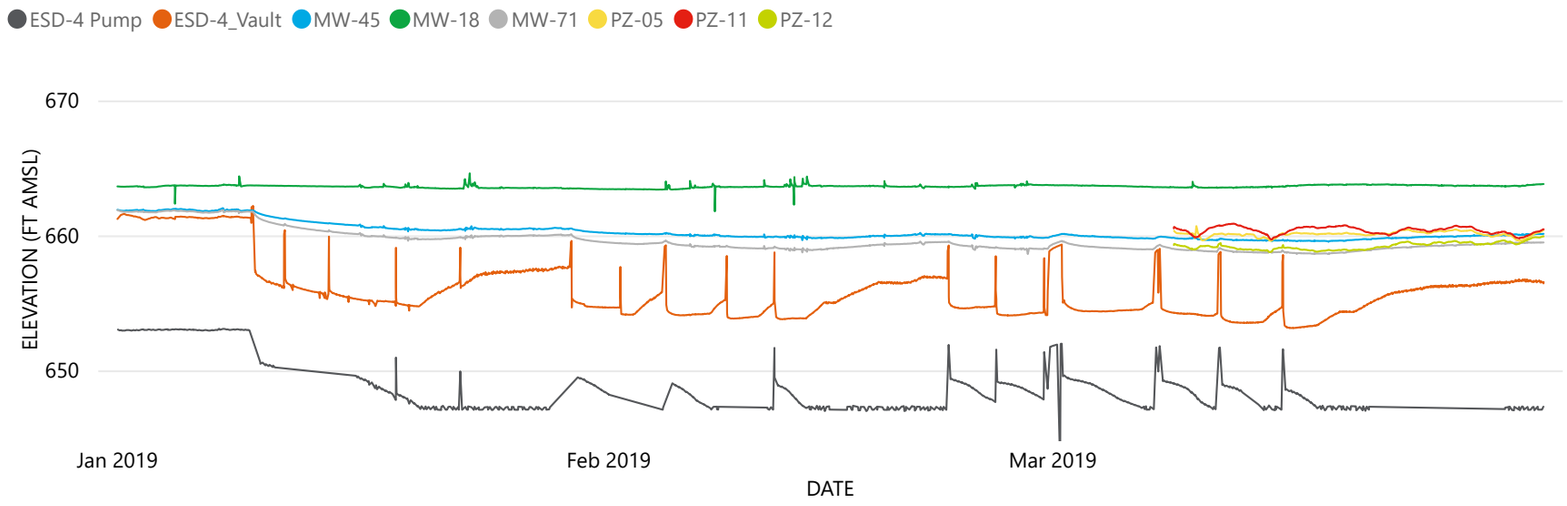
Q1 2019 - Q1 2019



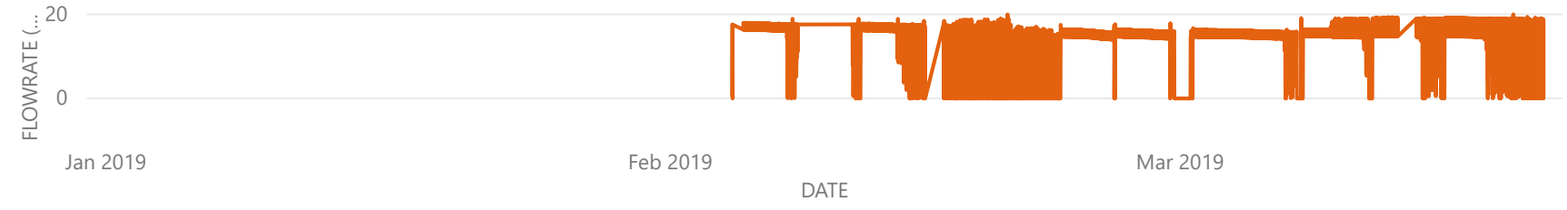


HORIZONTAL WELL 4 TRANSDUCER ELEVATIONS

ESD-4 Transducer Comparison



ESD-4 Flows

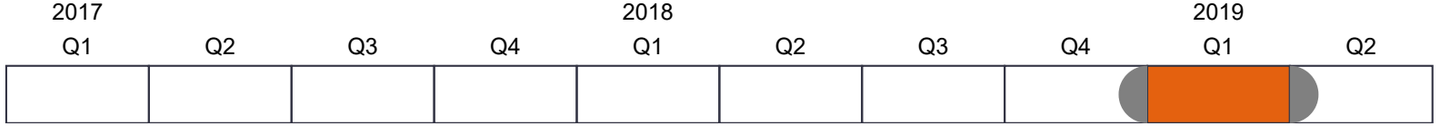


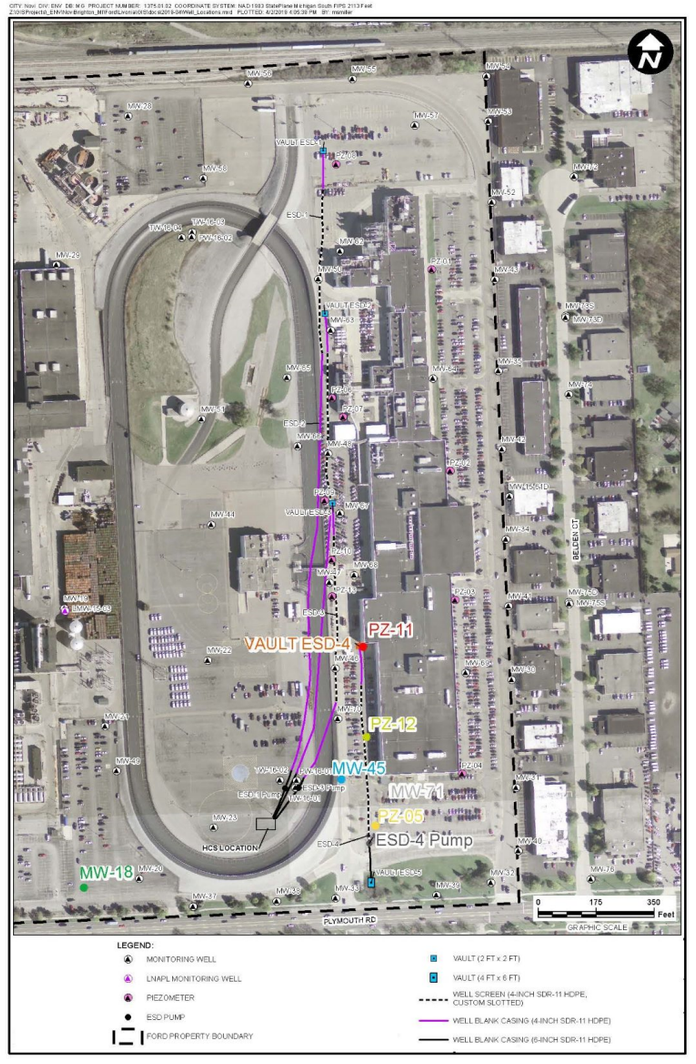
Date Range

Y Q M W D

Quarter

Q1 2019 - Q1 2019





APPENDIX F

Stability Analysis

Trend Analysis Methodology

The Mann-Kendall trend test is a non-parametric test that determines trends based on ranked data. As such, it is relatively insensitive to small data sets, outlier values and non-detect concentrations and does not require the data to fit a specific model. The basic Mann-Kendall trend test is performed by listing the concentrations of the constituent of interest in temporal order and computing the differences between a given measurement and earlier measurements (Gilbert 1987; USEPA 2009). Based on USEPA guidance (USEPA 2009), non-detect values are set to a single value less than that of any detections, and laboratory qualified concentrations are set equal to the laboratory reporting limit.

The Mann-Kendall test statistic (sum of trend [S]) is the difference between the number of strictly positive differences and the number of strictly negative differences. If S is positive, an increasing trend is indicated; if S is negative, a decreasing trend is indicated; and if S is near zero, no trend is apparent. Trends with positive or negative S-statistics were accepted as statistically significant for p-values less than or equal to 0.1 (90% confidence level). The coefficient of variation (CV) is a quantitative measure that can be used to evaluate if concentrations are stable in cases where a statistically significant trend is not apparent. The CV is calculated as the standard deviation of concentrations of each COC measured over time at a monitoring well divided by the mean (average) concentration over the same time period. CV values near or greater than 1 indicate variability in concentrations over time or suggest an underlying trend that is not statistically significant. Lower CV values indicate that concentrations are stable over time. Where no significant trend was found, the trend determination presented was based on the sign and magnitude of the S-statistic, the CV value, and visual examination of the pattern in concentrations over time.

References

Gilbert, R.O. 1987. *Statistical Methods for Environmental Pollution Monitoring*. John Wiley and Sons, Inc. New York. Hazen, T.C. 2010. Cometabolic Bioremediation. Handbook of Hydrocarbon and Lipid Microbiology. 2505-2514.

USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities. Office of Resource Conservation and Recovery. Unified Guidance. EPA 530-R-09-007.

Summary Statistics and Mann-Kendall Results
Ford Motor Company, Livonia Transmission Plant
Livonia, Michigan

Monitoring Well	Constituent	Start Date	End Date	Minimum Concentration	Maximum Concentration	Most Recent Concentration	n	% detections	CV	S-Statistic	p-value	Trend Determination
MW-02	TCE	5/12/2016	3/1/2019	8.2 J	27	< 100	9	22	NA	NA	NA	NA
MW-02	Total DCE	5/12/2016	3/1/2019	550	3360	3360	9	100	0.5	32	<0.01	Statistically Significant Increasing
MW-02	VC	5/12/2016	3/1/2019	140	230	230	9	100	0.2	2	0.460	Stable
MW-05	TCE	5/13/2016	3/1/2019	0.18 J	< 1.0	< 1.0	8	25	NA	NA	NA	NA
MW-05	Total DCE	5/13/2016	3/1/2019	0.39 J	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-05	VC	5/13/2016	3/1/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-09	TCE	5/12/2016	3/1/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-09	Total DCE	5/12/2016	3/1/2019	0.29 J	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-09	VC	5/12/2016	3/1/2019	0.94 J	7.6	0.94 J	8	100	0.7	-26	< 0.01	Statistically Significant Decreasing
MW-10	TCE	5/13/2016	3/1/2019	14 J	< 250	14 J	9	11	NA	NA	NA	NA
MW-10	Total DCE	5/13/2016	3/1/2019	< 25	< 250	< 100	9	0	NA	NA	NA	NA
MW-10	VC	5/13/2016	3/1/2019	1200	3300	3300	9	100	0.3	25	< 0.01	Statistically Significant Increasing
MW-22	TCE	5/10/2016	2/25/2019	< 50	< 140	< 50	9	0	NA	NA	NA	NA
MW-22	Total DCE	5/10/2016	2/25/2019	25	310	190	9	100	0.5	11	0.155	Potentially Increasing
MW-22	VC	5/10/2016	2/25/2019	1300	2600 J	1700	9	100	0.2	-3	0.421	Stable
MW-23 [1]	TCE	5/10/2016	10/30/2018	1000	25000	18000	7	100	0.7	5	0.281	Variable
MW-23 [1]	Total DCE	5/10/2016	10/30/2018	2580	82100	69000	7	100	0.7	5	0.281	Variable
MW-23 [1]	VC	5/10/2016	10/30/2018	77 J	2400	1600 J	7	86	0.6	-7	0.191	Potentially Decreasing
MW-34	TCE	5/10/2016	3/2/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-34	Total DCE	5/10/2016	3/2/2019	0.29 J	< 1.0	< 1.0	9	67	0.2	--	--	Less than screening criteria
MW-34	VC	5/10/2016	3/2/2019	0.52 J	2.0	0.85 J	9	100	0.4	5	0.344	Stable
MW-35	TCE	5/10/2016	3/2/2019	0.11 J	< 1.0	0.11 J	8	14	NA	NA	NA	NA
MW-35	Total DCE	5/10/2016	3/2/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-35	VC	5/10/2016	3/2/2019	1.8	7.2	4.1	8	100	0.5	-6	0.274	Stable to Decreasing
MW-40 [1]	TCE	5/10/2016	11/1/2018	< 1.0	< 1.0	< 1.0	6	0	NA	NA	NA	NA
MW-40 [1]	Total DCE	5/10/2016	11/1/2018	2.6	4.2	3.0	6	100	0.2	--	--	Less than screening criteria
MW-40 [1]	VC	5/10/2016	11/1/2018	0.54 J	1.8	1.4	6	83	0.4	5	0.235	Stable
MW-41	TCE	5/11/2016	3/2/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-41	Total DCE	5/11/2016	3/2/2019	0.77 J	3.52	3.5	9	100	0.4	--	--	Less than screening criteria
MW-41	VC	5/11/2016	3/2/2019	1.9	5.3	3.2	9	100	0.4	6	0.306	Stable to Increasing
MW-43	TCE	5/11/2016	3/2/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-43	Total DCE	5/11/2016	3/2/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-43	VC	5/11/2016	3/2/2019	0.71 J	17	3.4	9	100	0.9	-20	0.022	Statistically Significant Decreasing
MW-46	TCE	5/12/2016	2/26/2019	< 1.0	< 5.0	< 1.0	9	0	NA	NA	NA	NA
MW-46	Total DCE	5/12/2016	2/26/2019	1.6	26	1.6	9	100	0.6	--	--	Less than screening criteria
MW-46	VC	5/12/2016	2/26/2019	13	150	17	9	100	0.8	-14	0.090	Statistically Significant Decreasing
MW-49	TCE	5/12/2016	2/27/2019	< 500	< 2,500	< 2,500	8	0	NA	NA	NA	NA
MW-49	Total DCE	5/12/2016	2/27/2019	15100	43000	37000	8	100	0.4	-5	0.317	Variable
MW-49	VC	5/12/2016	2/27/2019	4900	10000	9100	8	100	0.2	-3	0.406	Stable
MW-50	TCE	5/11/2016	2/27/2019	< 1.0	< 6.7	< 6.7	9	0	NA	NA	NA	NA
MW-50	Total DCE	5/11/2016	2/27/2019	12	23	20	9	100	0.2	--	--	Less than screening criteria
MW-50	VC	5/11/2016	2/27/2019	48	170	170	9	100	0.3	11	0.155	Potentially Increasing
MW-52	TCE	5/11/2016	3/2/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-52	Total DCE	5/11/2016	3/2/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-52	VC	5/11/2016	3/2/2019	3.9	9.1	3.9	8	100	0.4	-12	0.089	Statistically Significant Decreasing
MW-54 [1]	TCE	7/27/2017	10/31/2018	< 1.0	< 1.0	< 1.0	6	0	NA	NA	NA	NA
MW-54 [1]	Total DCE	7/27/2017	10/31/2018	< 1.0	< 1.0	< 1.0	6	0	NA	NA	NA	NA
MW-54 [1]	VC	7/27/2017	10/31/2018	0.34 J	1.5	0.85 J	6	100	0.4	-7	0.136	Stable to Decreasing
MW-64	TCE	4/24/2017	2/28/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-64	Total DCE	4/24/2017	2/28/2019	0.23 J	< 1.0	0.23 J	8	75	NA	--	--	Less than screening criteria
MW-64	VC	4/24/2017	2/28/2019	1.3	7.0	3.4	8	100	0.5	-2	0.452	Variable
MW-65	TCE	4/25/2017	2/28/2019	< 1.0	< 4.0	< 2.5	8	0	NA	NA	NA	NA
MW-65	Total DCE	4/25/2017	2/28/2019	3.3	7.0	5.9	8	100	0.3	--	--	Less than screening criteria
MW-65	VC	4/25/2017	2/28/2019	34	61	34	8	100	0.2	-19	0.012	Statistically Significant Decreasing
MW-66	TCE	4/25/2017	3/4/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-66	Total DCE	4/25/2017	3/4/2019	0.19 J	< 1.0	< 1.0	8	13	NA	NA	NA	NA
MW-66	VC	4/25/2017	3/4/2019	1.2	5.6	3.2	8	100	0.4	-13	0.072	Statistically Significant Decreasing
MW-68	TCE	4/24/2017	2/27/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-68	Total DCE	4/24/2017	2/27/2019	11	35	35	8	100	0.4	--	--	Less than screening criteria
MW-68	VC	4/24/2017	2/27/2019	2	18	17	8	100	1.0	-3	0.406	Variable
MW-69	TCE	4/25/2017	2/28/2019	< 1.0	< 1.0	< 1.0	7	0	NA	NA	NA	NA
MW-69	Total DCE	4/25/2017	2/28/2019	< 1.0	< 1.0	< 1.0	7	0	NA	NA	NA	NA
MW-69	VC	4/25/2017	2/28/2019	< 1.0	4.1	4.1	7	71	0.3	6	0.236	Stable to Increasing
MW-71	TCE	4/24/2017	2/27/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-71	Total DCE	4/24/2017	2/27/2019	< 1.0	< 1.0	0.3 J	8	75	0.1	--	--	Less than screening criteria
MW-71	VC	4/24/2017	2/27/2019	0.31 J	< 1.0	0.4 J	8	75	0.4	--	--	Less than screening criteria
MW-72	TCE	5/22/2017	3/5/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-72	Total DCE	5/22/2017	3/5/2019	< 1.0	< 1.0	< 1.0	7	0	NA	NA	NA	NA
MW-72	VC	5/22/2017	3/5/2019	1.1	3.9	1.9	8	100	0.5	-16	0.031	Statistically Significant Decreasing
MW-73D	TCE	5/22/2017	3/4/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-73D	Total DCE	5/22/2017	3/4/2019	0.19 J	< 1.0	< 1.0	7	86	0.3	--	--	Less than screening criteria
MW-73D	VC	5/22/2017	3/4/2019	0.71 J	1.3	0.71 J	8	88	0.2	--	--	Less than screening criteria
MW-73S	TCE	5/22/2017	3/4/2019	0.23 J	0.51 J	0.23 J	9	100	0.2	--	--	Less than screening criteria
MW-73S	Total DCE	5/22/2017	3/4/2019	1.3	2.7	2.4	8	100	0.3	--	--	Less than screening criteria
MW-73S	VC	5/22/2017	3/4/2019	0.62 J	1.9	1.5	9	100	0.3	-6	0.306	Stable
MW-74	TCE	5/23/2017	3/8/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-74	Total DCE	7/26/2017	3/8/2019	< 1.0	< 1.0	0.84 J	7	71	0.4	--	--	Less than screening criteria
MW-74	VC	5/23/2017	3/8/2019	0.7 J	2.8	1.1	8	88	0.4	0	0.548	Stable
MW-75D	TCE	5/23/2017	3/7/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-75D	Total DCE	5/23/2017	3/7/2019	< 1.0	< 1.0	< 1.0	7	0	NA	NA	NA	NA
MW-75D	VC	5/23/2017	3/7/2019	1.6	6.4	1.6	8	100	0.6	-24	< 0.01	Statistically Significant Decreasing
MW-79D	TCE	5/24/2017	3/7/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-79D	Total DCE	5/24/2017	3/7/2019	< 1.0	< 1.0	< 1.0	7	0	NA	NA	NA	NA
MW-79D	VC	5/24/2017	3/7/2019	1.3	4.1	1.6 J	8	100	0.4	-16	0.031	Statistically Significant Decreasing
MW-80S	TCE	5/24/2017	3/6/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-80S	Total DCE	7/25/2017	3/6/2019	0.18 J	< 1.0	0.18 J	8	13	NA	NA	NA	NA
MW-80S	VC	5/24/2017	3/6/2019	1.4	7.6	2.1	9	100	0.5	-18	0.038	Statistically Significant Decreasing
MW-85	TCE	5/25/2017	2/26/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-85	Total DCE	7/25/2017	2/26/2019	< 1.0	< 1.0	< 1.0	7	0	NA	NA	NA	NA
MW-85	VC	5/25/2017	2/26/2019	5.5	8.6	5.5	8	100	0.2	-16	0.031	Statistically Significant Decreasing
TW-16-02	TCE	4/25/2017	2/26/2019	< 250	< 1000	< 330	8	0	NA	NA	NA	NA
TW-16-02	Total DCE	4/25/2017	2/26/2019	3100	7830	7830	8	100	0.3	12	0.089	Statistically Increasing
TW-16-02	VC	4/25/2017	2/26/2019	7300	15000	8900	8	100	0.3	-15	0.043	Statistically Significant Decreasing
TW-16-04	TCE	4/25/2017	2/25/2019	< 1.0	< 6.7	< 3.3	8	0	NA	NA	NA	NA
TW-16-04	Total DCE	4/25/2017	2/25/2019	14	25	14	8	100	0.2	--	--	Less than screening criteria
TW-16-04	VC	4/25/2017	2/25/2019	63	150	65	8	100	0.3	-19	0.012	Statistically Significant Decreasing

Notes:
TCE = trichloroethene
Total DCE = sum of cis-1,2-DCE, trans-1,2-DCE, and 1,1-DCE. Non-detect concentrations taken as zero.
VC = vinyl chloride
< = less than the posted reporting limit
n = number of samples included in analysis
% = percent
CV = coefficient of variation; low values indicate stable concentrations. Values near or greater than 1 suggest variability and/or a temporal trend.
NA = not applicable due to elevated proportion of non-detect concentrations
-- = Trend analysis not conducted because each detected concentration is below the applicable screening level.
S-Statistic: positive values suggest increasing trend, negative values suggest decreasing trend, values near zero indicate stability or variability.
p-value: values less than 0.1 indicate a statistically significant trend at 90% confidence.
[1] Location was not sampled in 1Q 2019. Summary statistics presented are from 4Q 2018.

CITY: Novi DIV: ENV DB: MG PIC: R_ELLIS PM: K_HINSKEY PROJECT NUMBER: MI001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
\\corpstorage\Data\ArcGisData\GISProjects_ENV\NoviBrighton_MIFord\Livonia\GIS\docs\2018-10\MK_Trends_20181022.mxd PLOTTED: 10/22/2018 11:50:54 AM BY: dolexa

ON-SITE AREA

OFF-SITE AREA

LIVONIA TRANSMISSION PLANT

TEST TRACK

ATNPC BUILDING

MW-54
MW-72
MW-85
MW-52
TW-16-04
MW-50
MW-43
MW-73S
MW-79D
MW-80S
MW-73D
MW-35
MW-65
MW-64
MW-74
MW-66
MW-34
MW-68
MW-41
MW-75D
MW-22
MW-46
MW-69
MW-05
MW-02
MW-10
MW-49
TW-16-02
MW-71
MW-23
MW-40
MW-09

VAULT V-ESD-1
VAULT V-ESD-2
VAULT V-ESD-3
VAULT V-ESD-4
VAULT V-ESD-5

ROSATI AVE
CONCORD ST
CAPITOL ST
BREWSTER ST
BELDEN CT
BOSTON POST ST
STARK RD
WADSWORTH ST
STANDISH ST
PRISCILLA LN
LEVAN RD
PLYMOUTH RD
YALE ST
YALE AVE
ELMIRA ST
WAYNE RD
LAUREL ST

N

0 400 800
SCALE IN FEET

LEGEND

TRICHLOROETHENE TRENDS

- NO SIGNIFICANT TREND
- CONSTITUENT BELOW LABORATORY REPORTING LIMIT OR APPLICABLE SCREENING LEVEL
- AREA OF CONCERN
- FORD PROPERTY BOUNDARY
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- COMMERCIAL/RESIDENTIAL PROPERTY BOUNDARY

NOTES:

ATNPC - AUTOMATIC TRANSMISSION NEW PRODUCT CENTER

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

MANN-KENDALL STATISTICAL TRICHLOROETHENE TREND RESULTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY: Novi DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY PROJECT NUMBER: MI001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
\\corpstorage\Data\ArcGisData\GISProjects_ENV\Novi\Brighton_MI\Ford\Livonia\GIS\docs\2018-10\MK_Trends_20181022.mxd PLOTTED: 10/23/2018 11:12:58 AM BY: dolexa

ON-SITE AREA

OFF-SITE AREA

LIVONIA TRANSMISSION PLANT

TEST TRACK

ATNPC BUILDING

MW-54
MW-72
MW-85
MW-52
MW-43
MW-73D
MW-73S
MW-79D
MW-80S
MW-35
MW-74
MW-34
MW-41
MW-75D
MW-69
MW-40
MW-50
MW-65
MW-64
MW-66
MW-68
MW-22
MW-46
MW-71
MW-05
MW-02
MW-10
MW-49
MW-23
MW-09
TW-16-04
TW-16-02
VAULT V-ESD-1
VAULT V-ESD-2
VAULT V-ESD-3
VAULT V-ESD-4
VAULT V-ESD-5

ROSATI AVE
CONCORD ST
CAPITOL ST
BREWSTER ST
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BOSTON POST ST
STARK RD
WADSWORTH ST
STANDISH ST
PRISCILLA LN
LEVAN RD
PLYMOUTH RD
YALE ST
YALE AVE
ELMIRA ST
WAYNE RD
LAUREL ST

LEGEND

TOTAL DICHLOROETHENE TRENDS

- INCREASING TREND
- NO SIGNIFICANT TREND
- CONSTITUENT BELOW LABORATORY REPORTING LIMIT OR APPLICABLE SCREENING LEVEL
- AREA OF CONCERN
- FORD PROPERTY BOUNDARY
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- COMMERCIAL/RESIDENTIAL PROPERTY BOUNDARY

0 400 800
SCALE IN FEET

NOTES:

ATNPC - AUTOMATIC TRANSMISSION NEW PRODUCT CENTER

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

MANN-KENDALL STATISTICAL TOTAL DICHLOROETHENE TREND RESULTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY: Novi DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY PROJECT NUMBER: MI001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
\\corpstorage\Data\ArcGisData\GISProjects_ENV\Novi\Brighton_MI\Ford\Livonia\GIS\docs\2018-10\MK_Trends_20181022.mxd PLOTTED: 10/23/2018 11:12:58 AM BY: dolexa

ON-SITE AREA

OFF-SITE AREA

LIVONIA TRANSMISSION PLANT

TEST TRACK

ATNPC BUILDING

MW-54
MW-72
MW-85
MW-52
TW-16-04
MW-50
MW-43
MW-73S
MW-73D
MW-79D
MW-80S
MW-35
MW-65
MW-64
MW-74
MW-66
MW-34
MW-68
MW-41
MW-75D
MW-22
MW-46
MW-69
MW-05
MW-02
MW-10
MW-49
TW-16-02
MW-71
MW-23
MW-40
MW-09

VAULT V-ESD-1
VAULT V-ESD-2
VAULT V-ESD-3
VAULT V-ESD-4
VAULT V-ESD-5

ROSATI AVE
CONCORD ST
CAPITOL ST
BREWSTER ST
BELDEN CT
BOSTON POST ST
STARK RD
WADSWORTH ST
STANDISH ST
PRISCILLA LN
LEVAN RD
PLYMOUTH RD
YALE ST
YALE AVE
ELMIRA ST
WAYNE RD
LAUREL ST

LEGEND

VINYL CHLORIDE TRENDS

- INCREASING TREND
- DECREASING TREND
- NO SIGNIFICANT TREND
- CONSTITUENT BELOW LABORATORY REPORTING LIMIT OR APPLICABLE SCREENING LEVEL
- AREA OF CONCERN
- FORD PROPERTY BOUNDARY
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- COMMERCIAL/RESIDENTIAL PROPERTY BOUNDARY

0 400 800
SCALE IN FEET

NOTES:

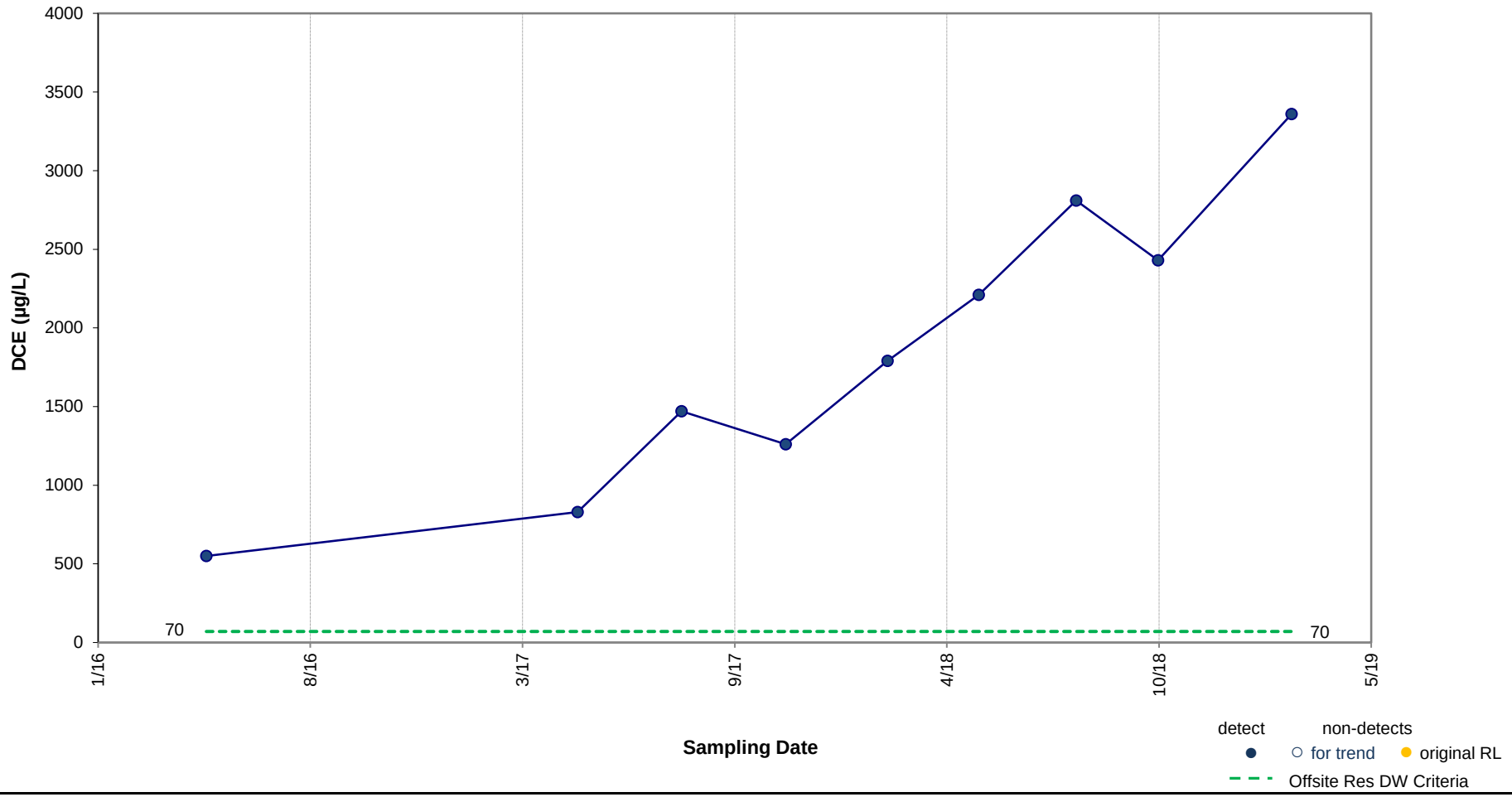
ATNPC - AUTOMATIC TRANSMISSION NEW PRODUCT CENTER

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

MANN-KENDALL STATISTICAL VINYL CHLORIDE TREND RESULTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3



Results of Mann-Kendall Test for Trend: **INCREASING TREND**

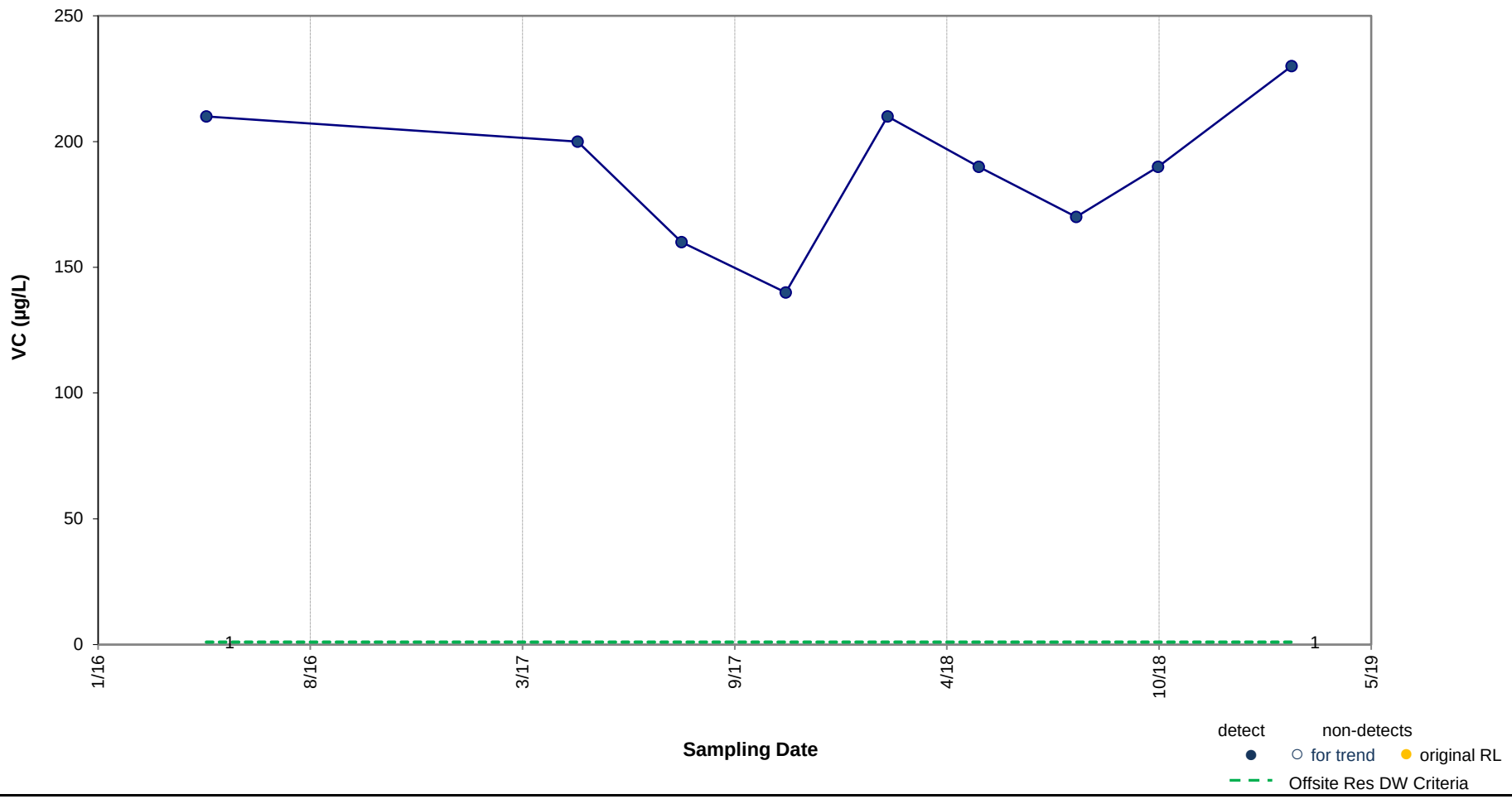
p value = <0.001 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – DCE in MW-2

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 4



Results of Mann-Kendall Test for Trend: **No Significant Trend**

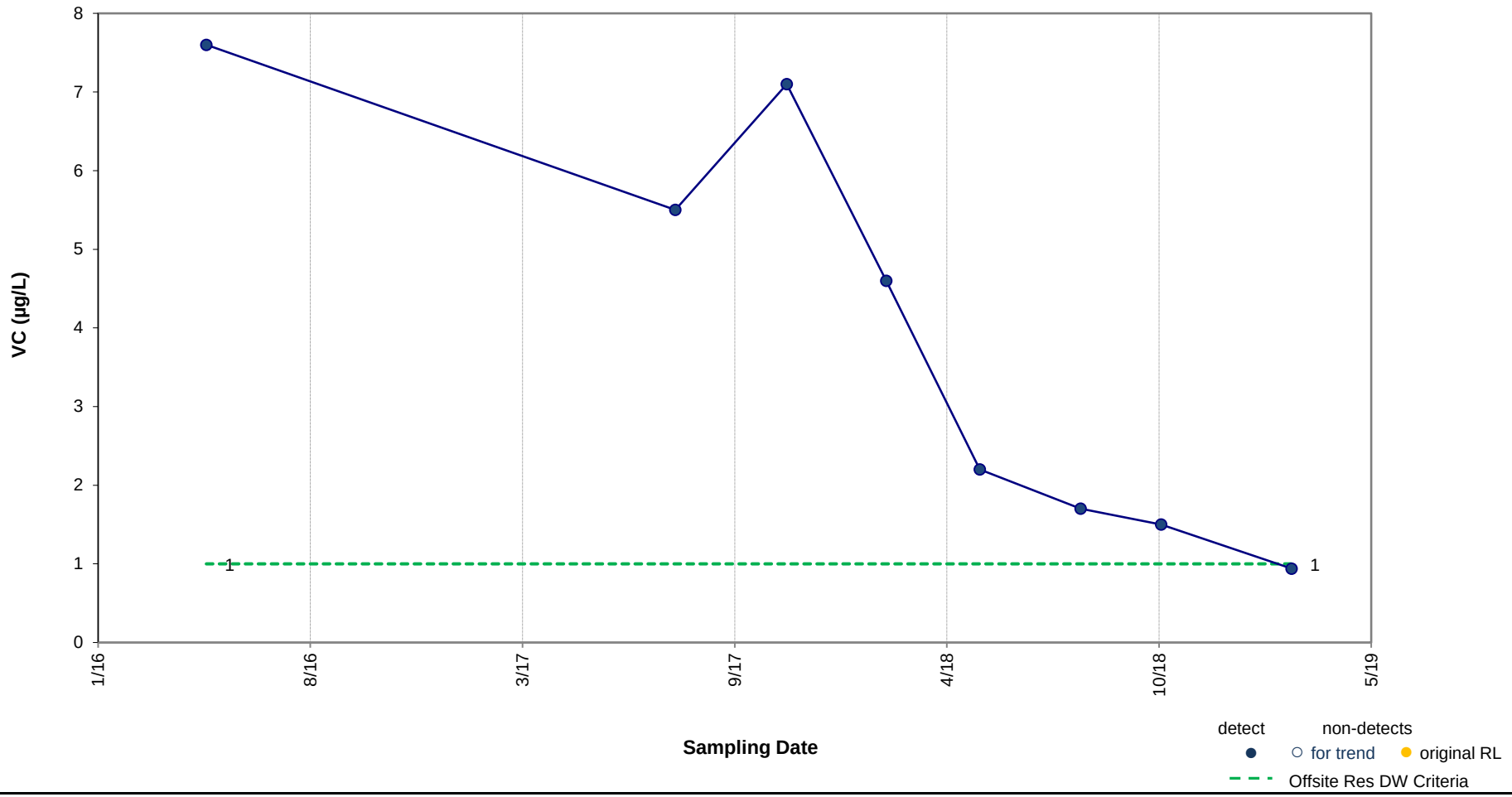
p value = 0.460 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-2

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 5



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

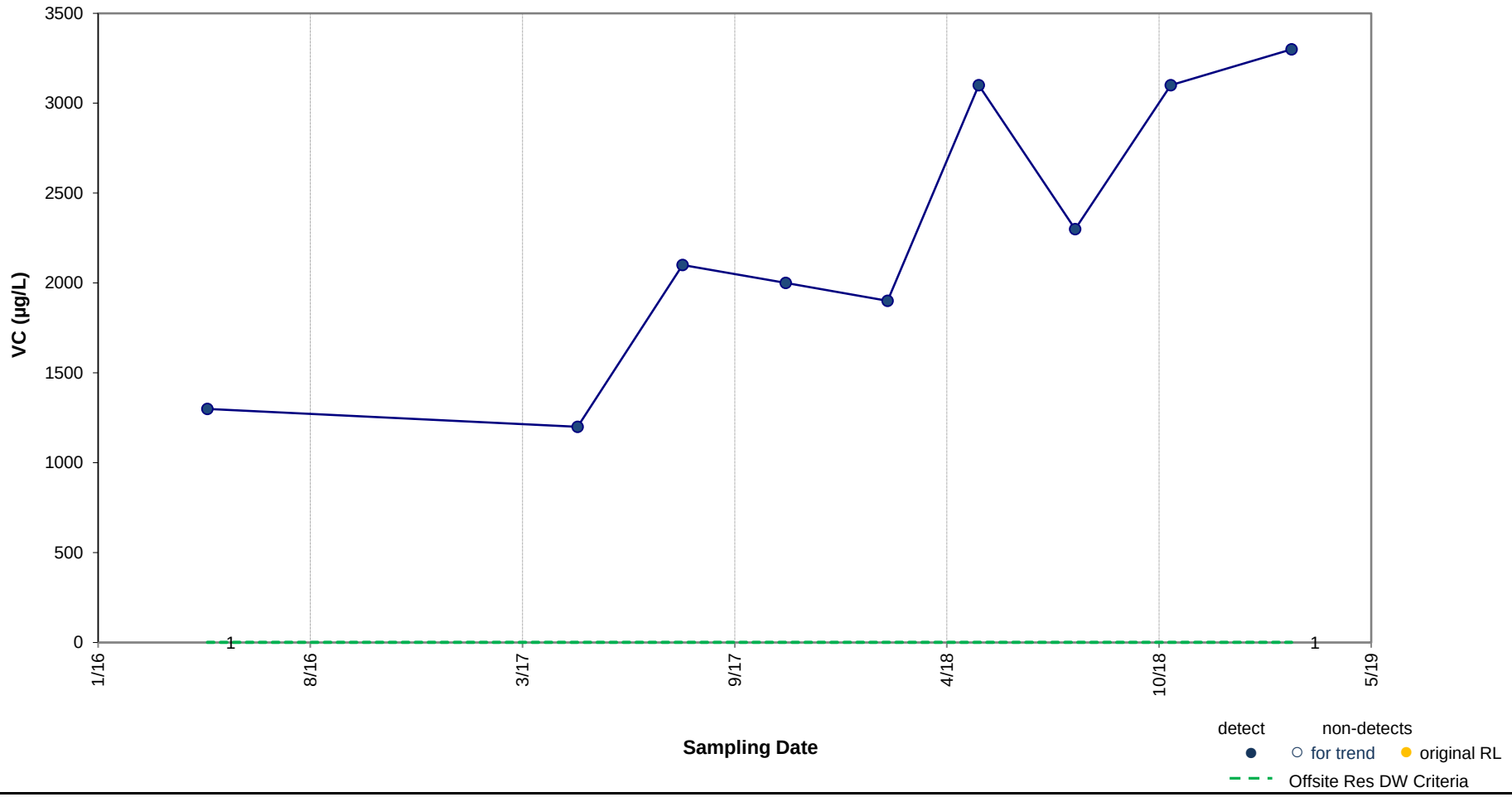
p value = <0.001 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-9

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 6



Results of Mann-Kendall Test for Trend: **INCREASING TREND**

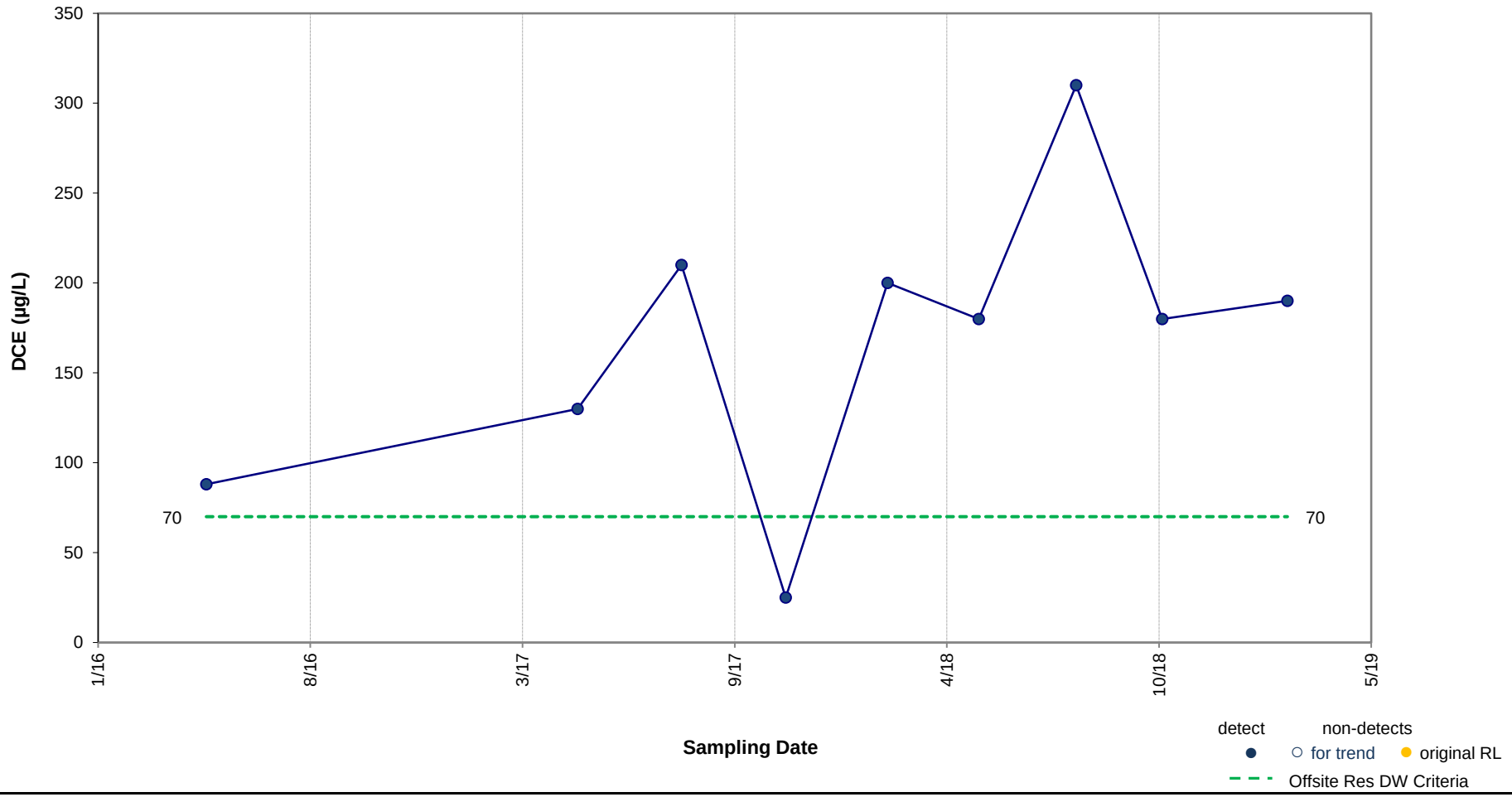
p value = 0.005 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-10

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 7



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.155 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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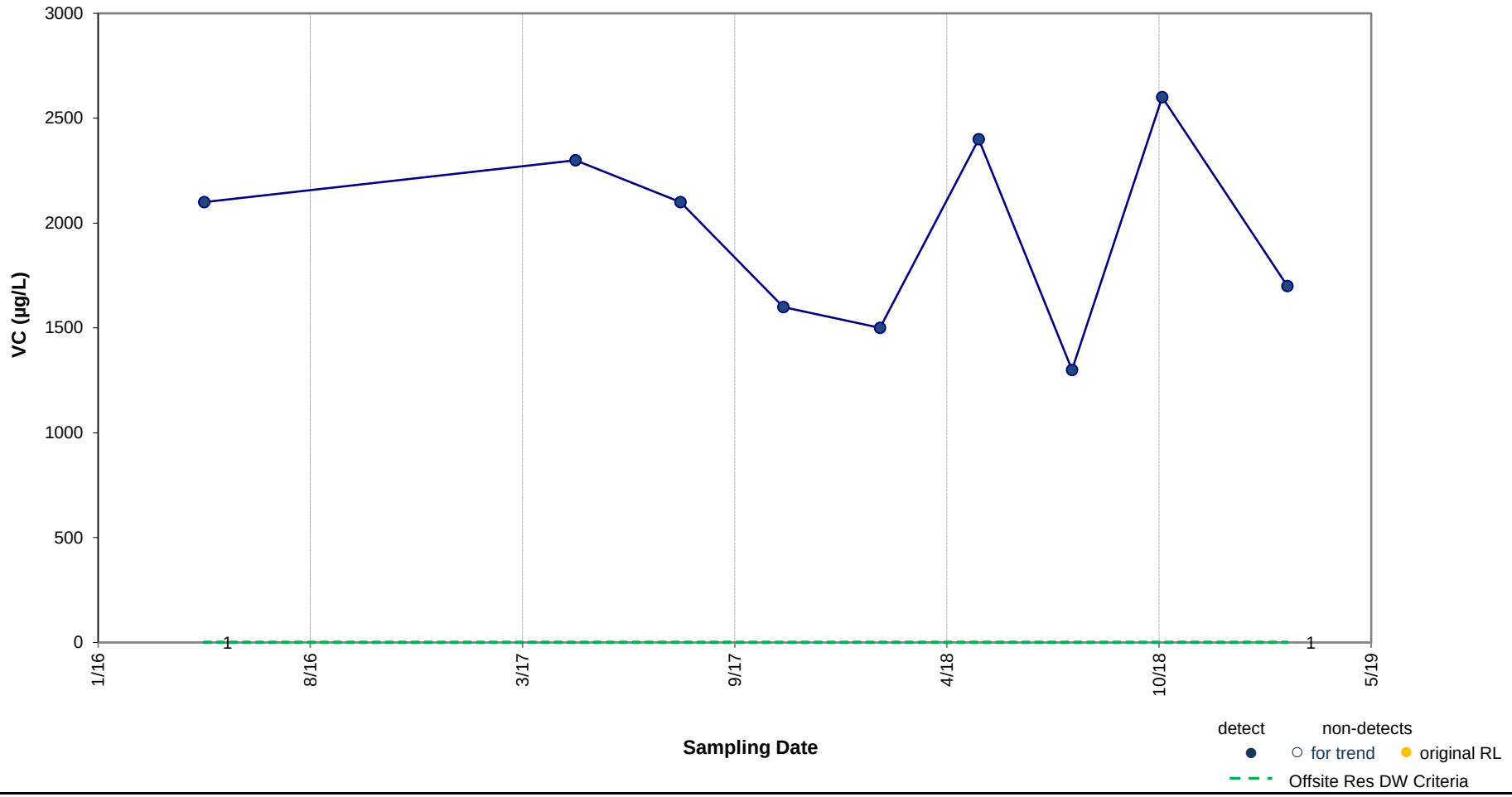
Concentration vs. Time Plot – DCE in MW-22

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 8



Results of Mann-Kendall Test for Trend: **No Significant Trend**

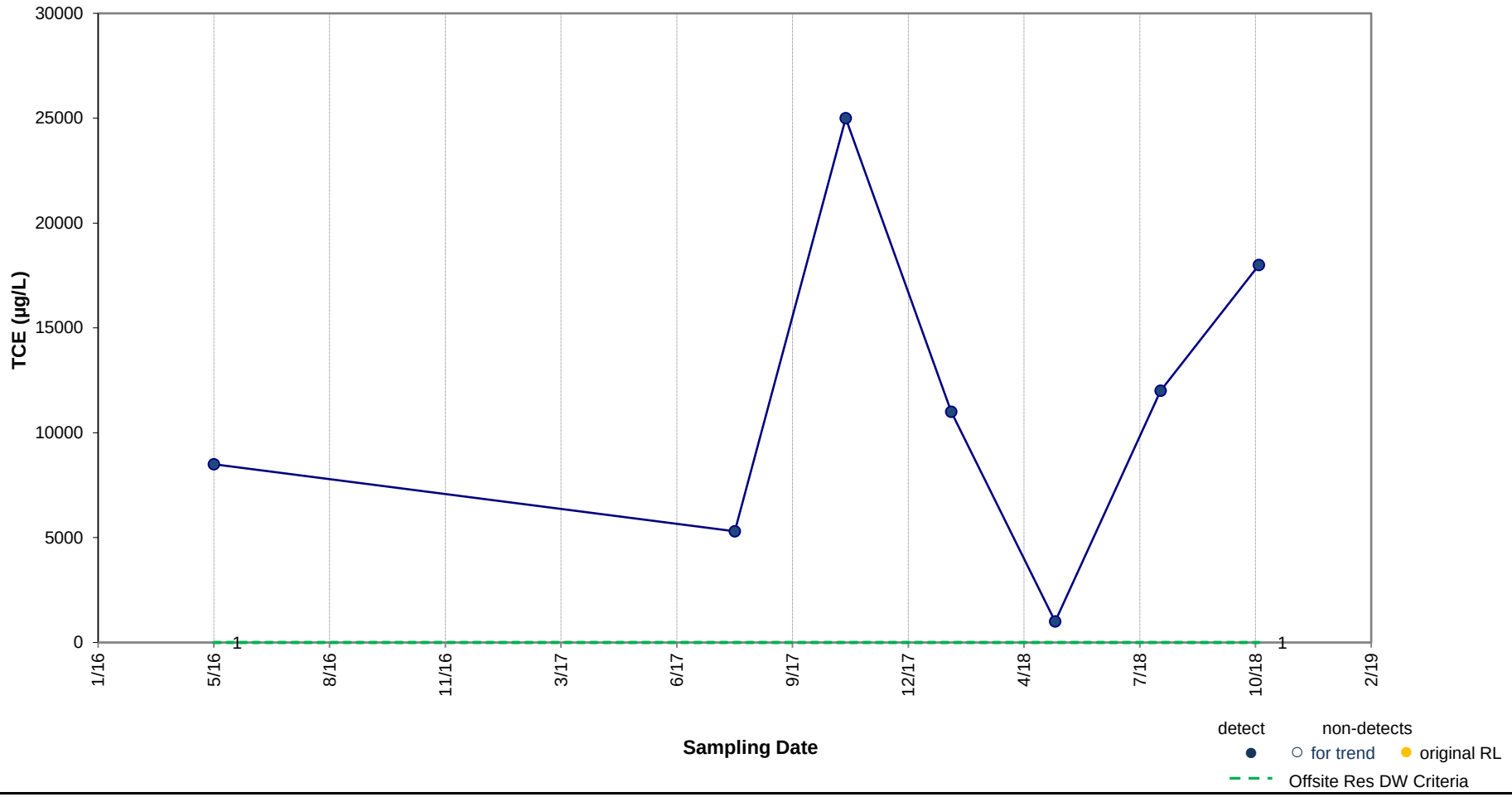
p value = 0.421 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-22

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 9



Results of Mann-Kendall Test for Trend: **No Significant Trend**

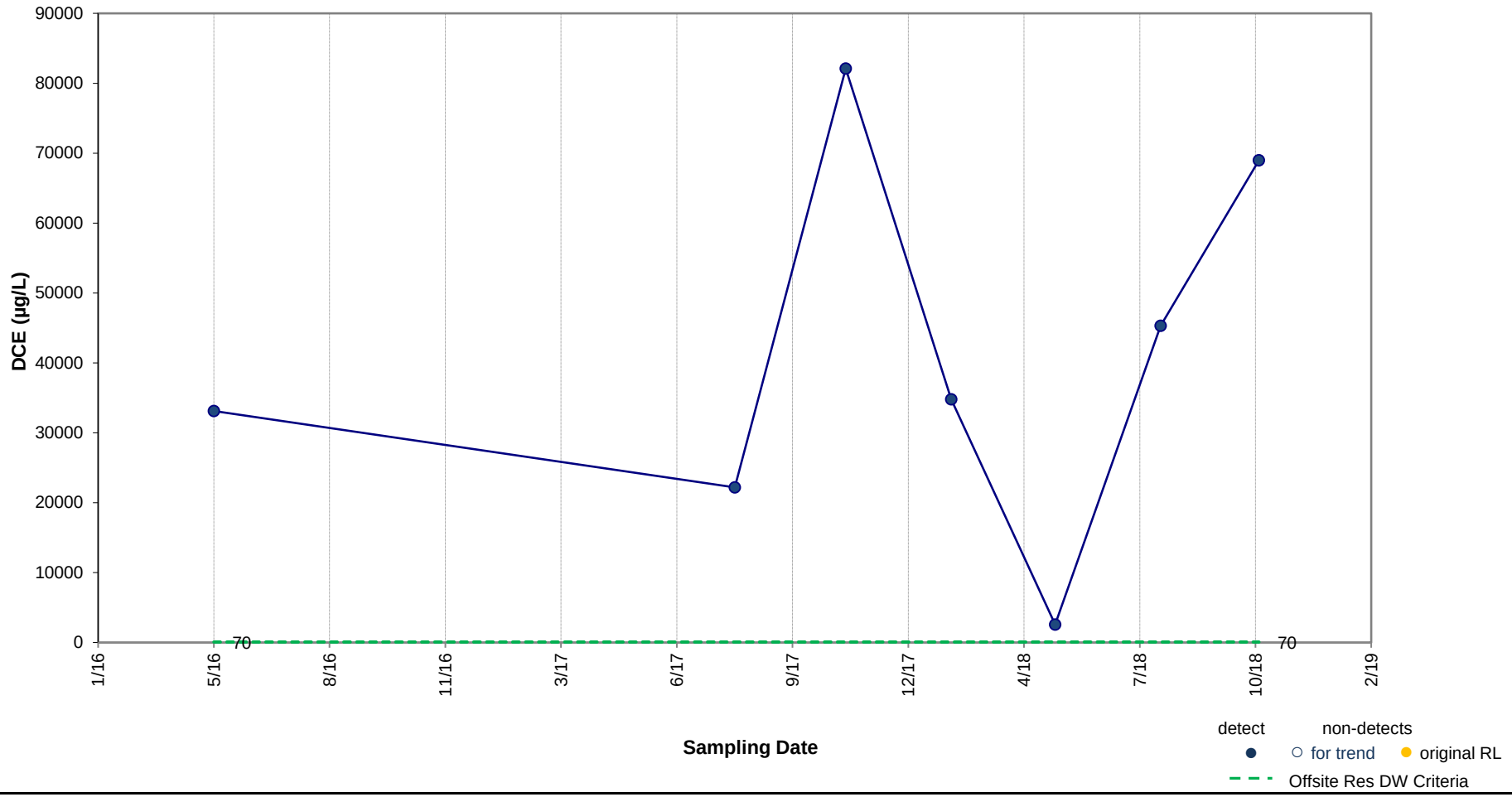
p value = 0.281 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – TCE in MW-23

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 10



Results of Mann-Kendall Test for Trend: **No Significant Trend**

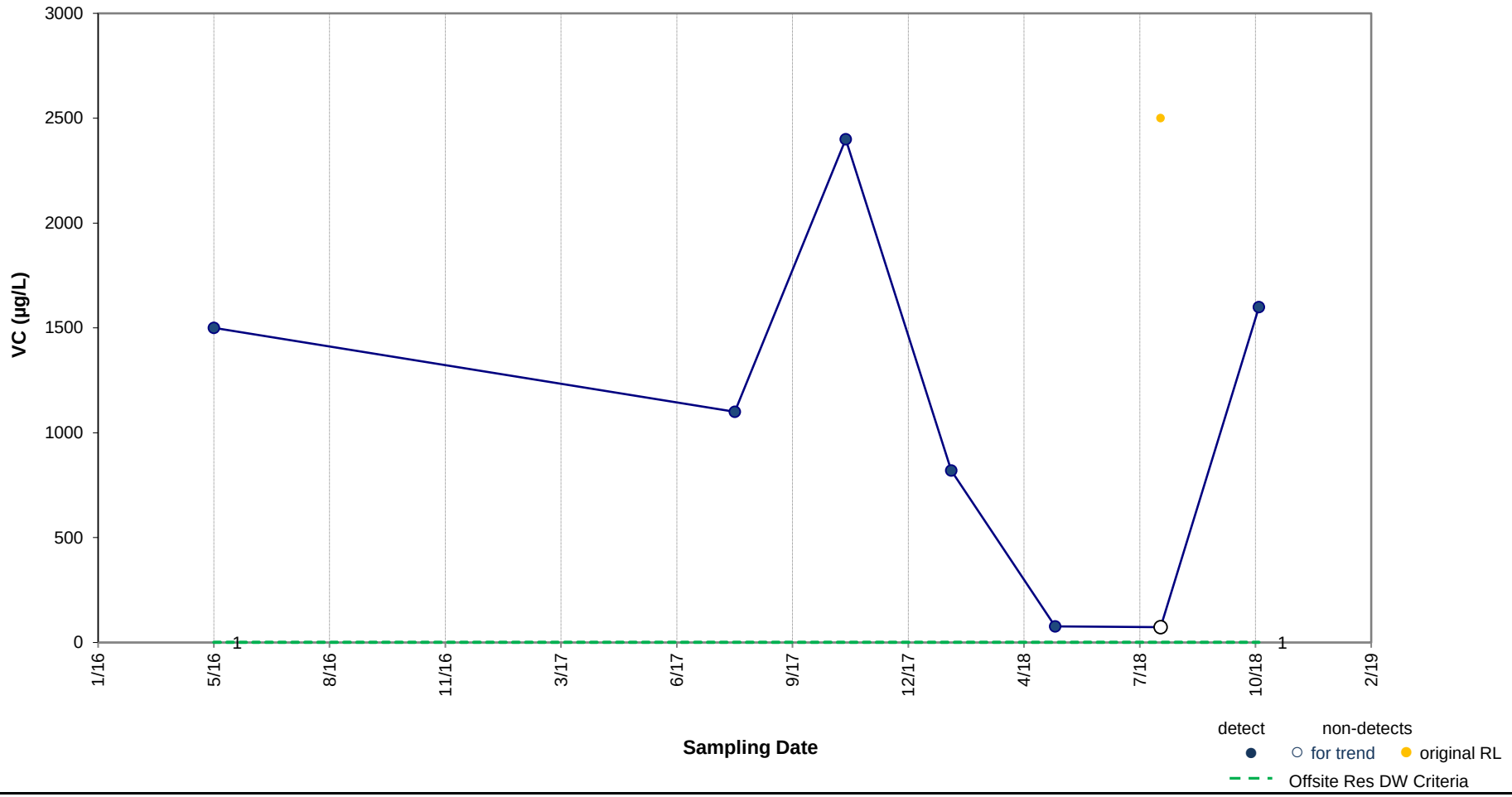
p value = 0.281 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – DCE in MW-23

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 11



Results of Mann-Kendall Test for Trend: **No Significant Trend**

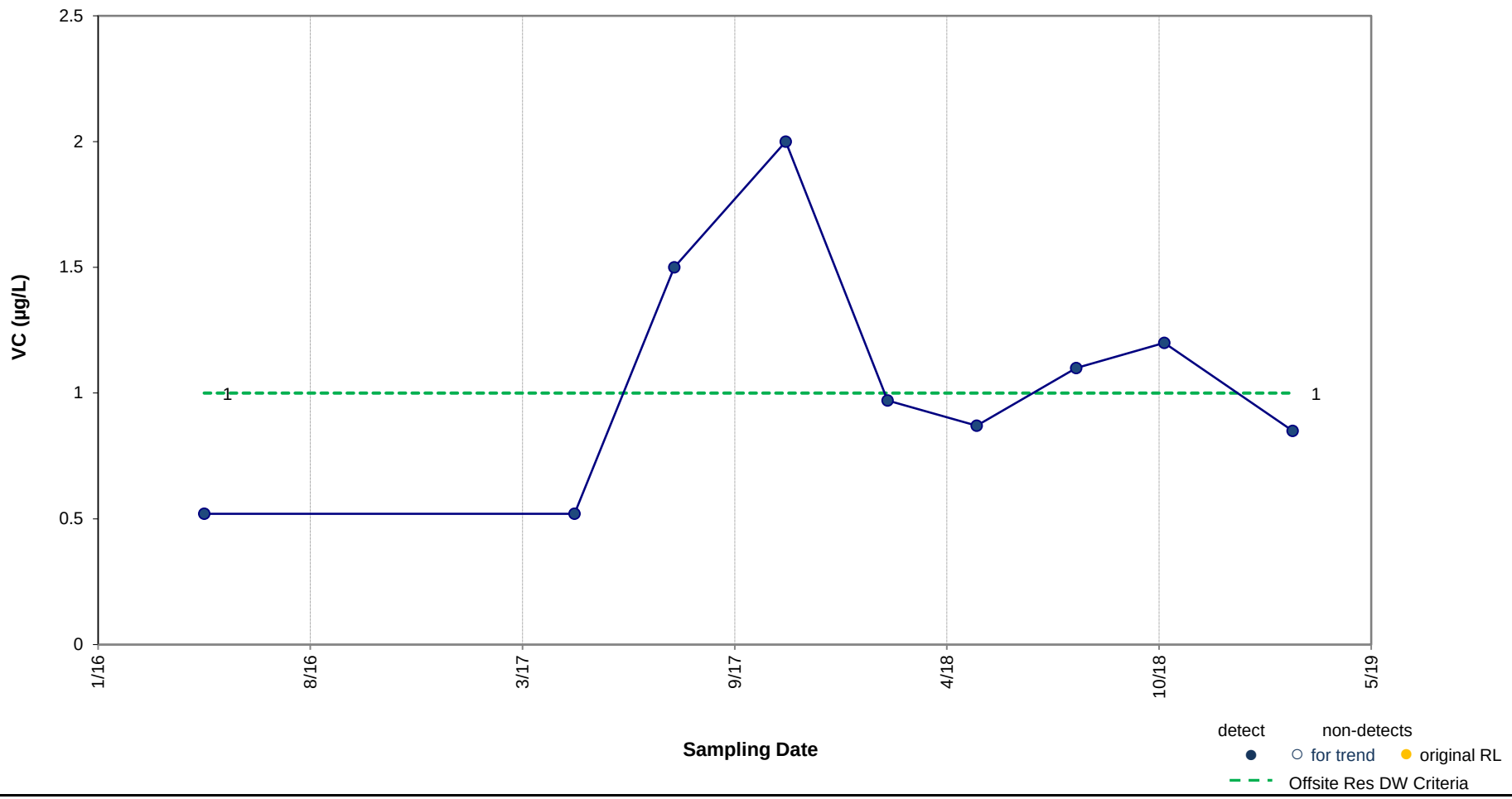
p value = 0.191 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-23

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 12



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.344 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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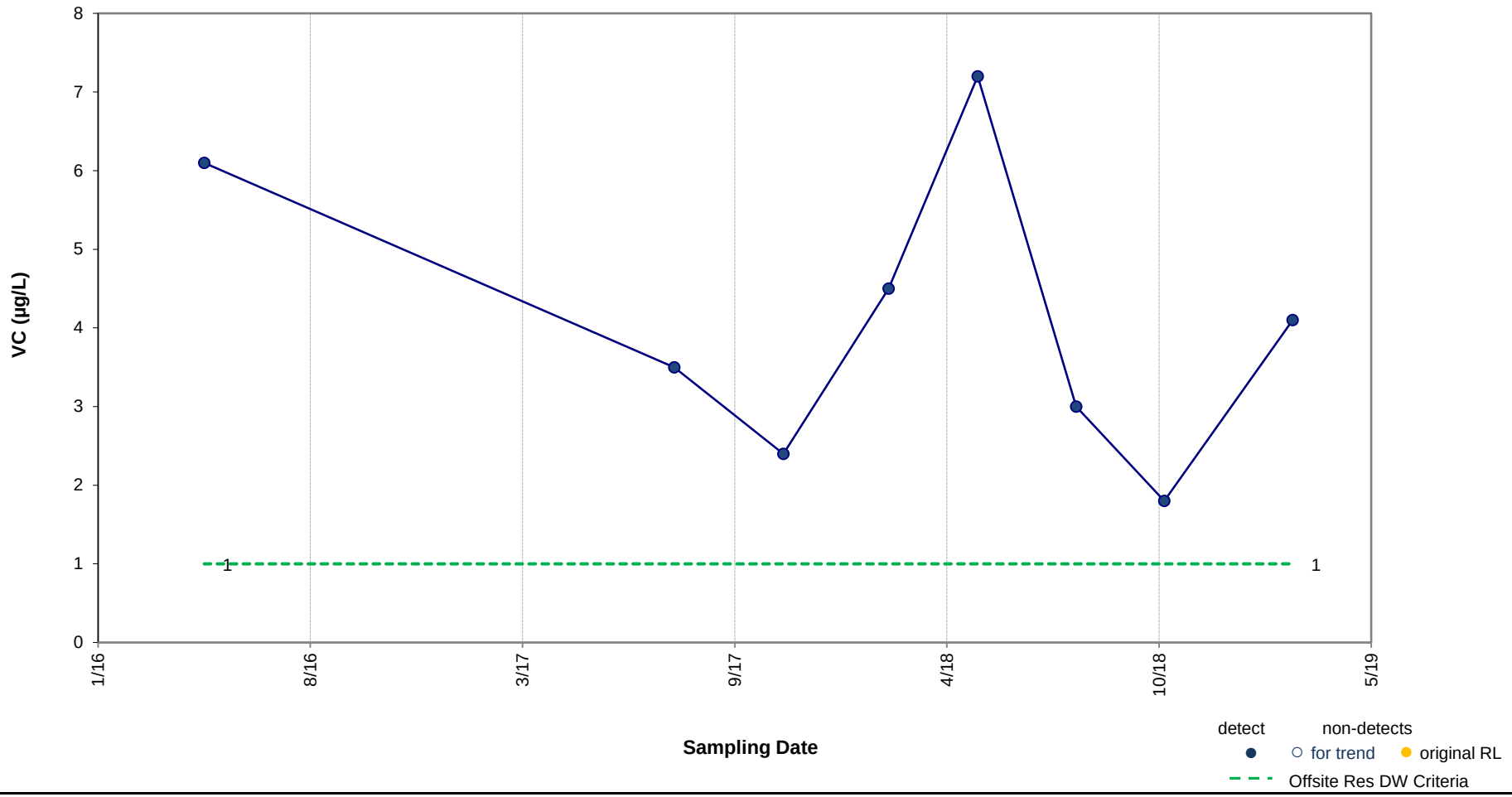
Concentration vs. Time Plot – VC in MW-34

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 13



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.274 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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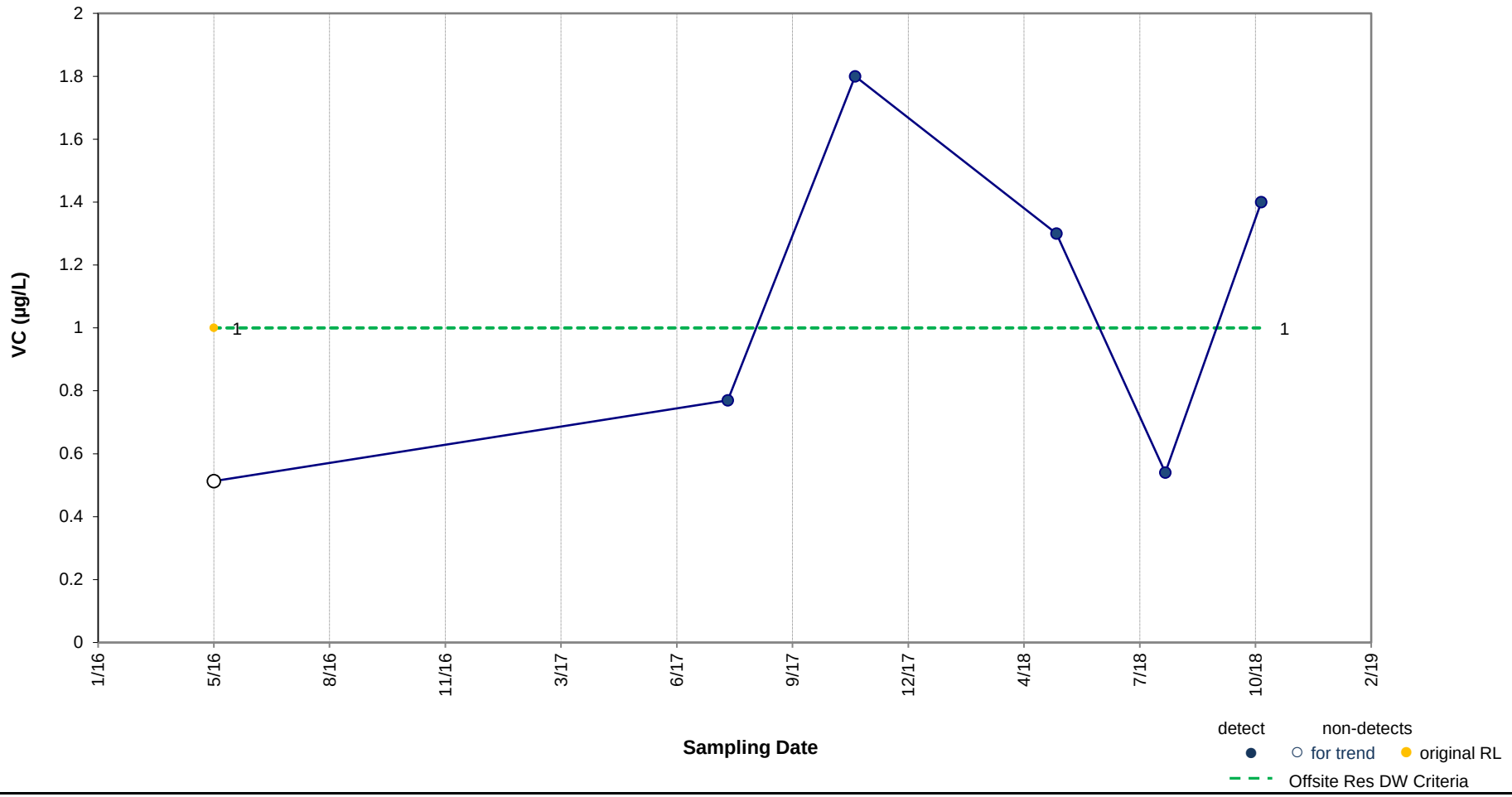
Concentration vs. Time Plot – VC in MW-35

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 14



Results of Mann-Kendall Test for Trend: **No Significant Trend**

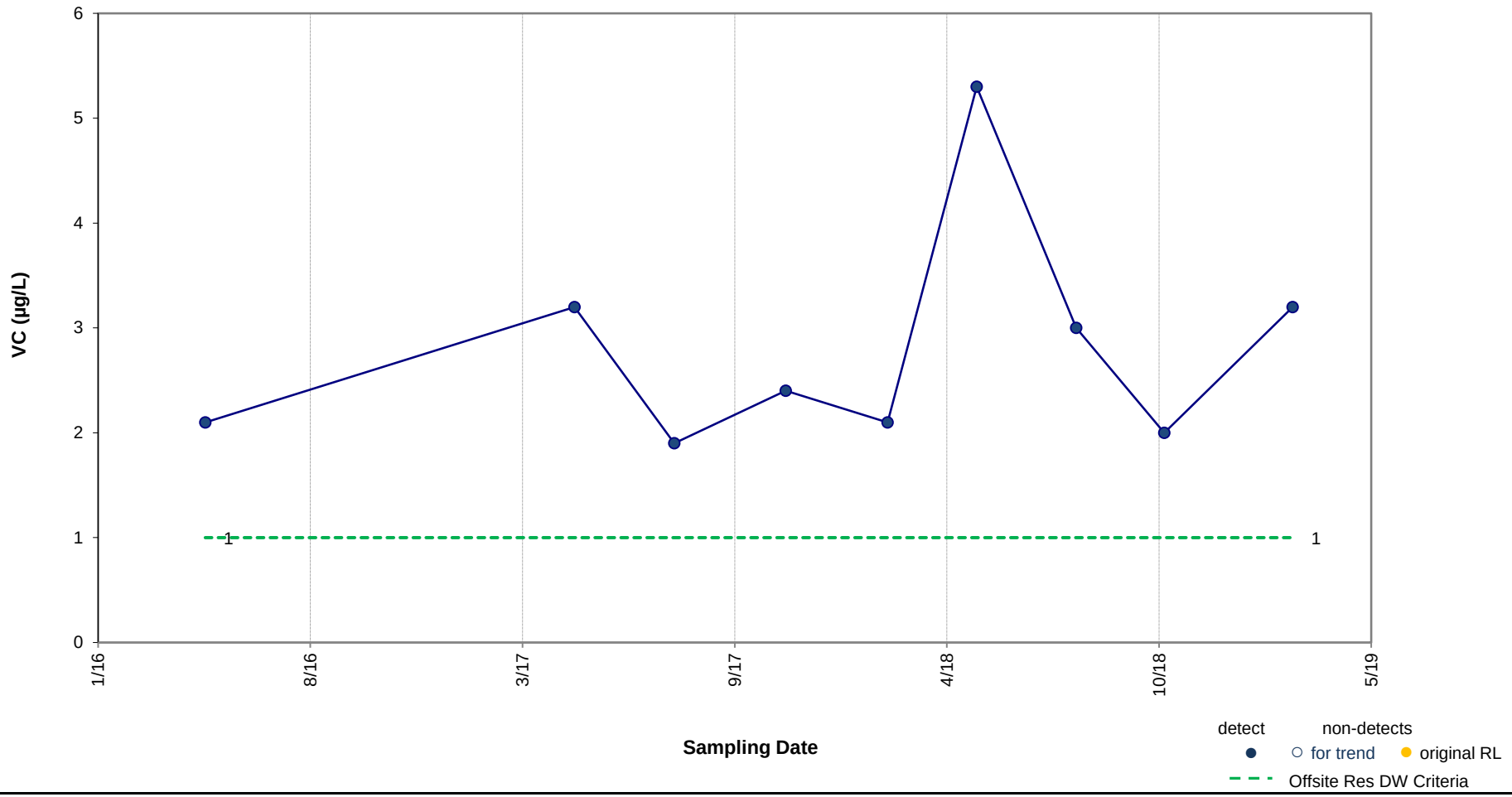
p value = 0.235 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-40

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 15



Results of Mann-Kendall Test for Trend: **No Significant Trend**

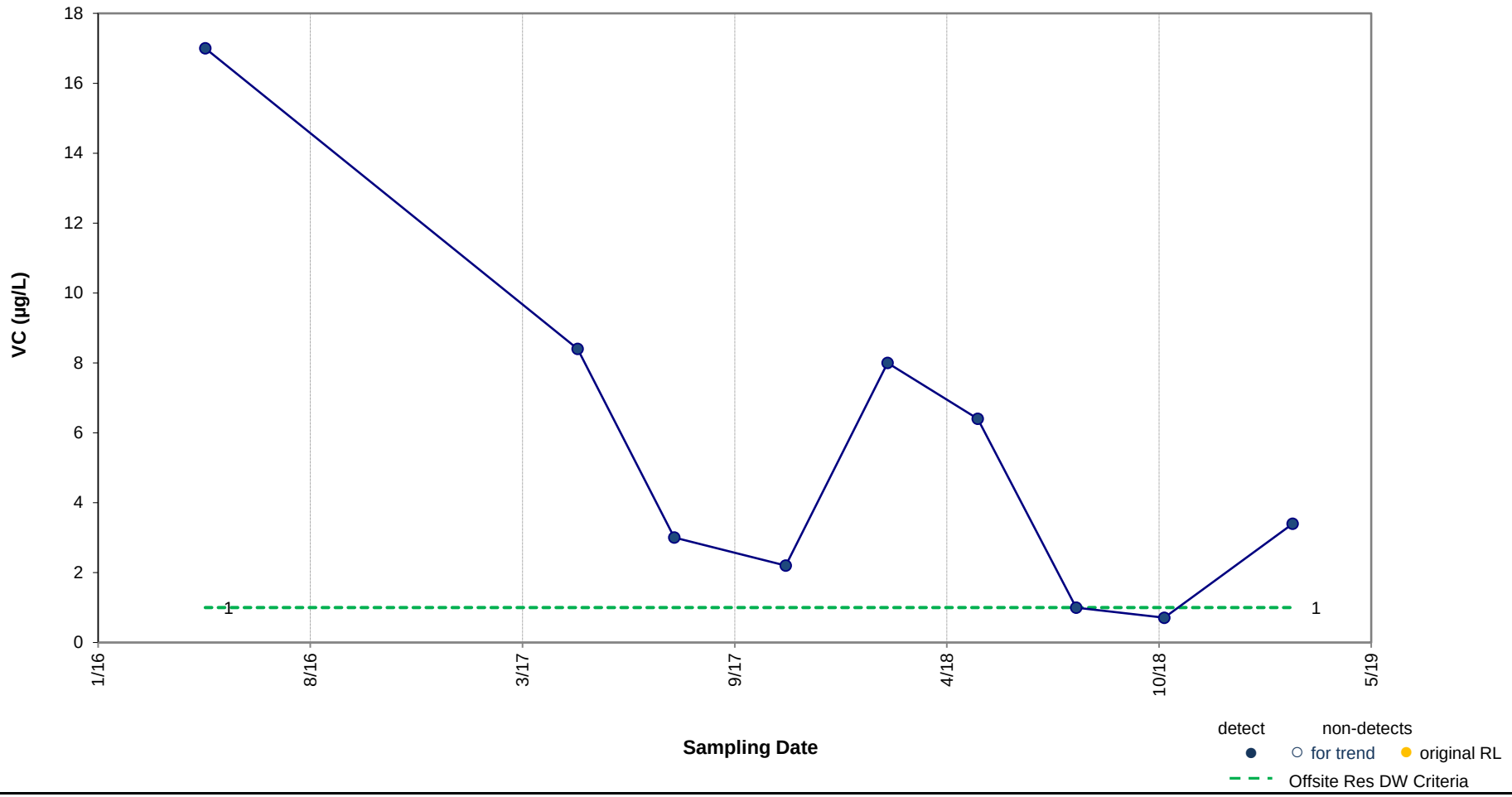
p value = 0.306 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-41

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 16



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

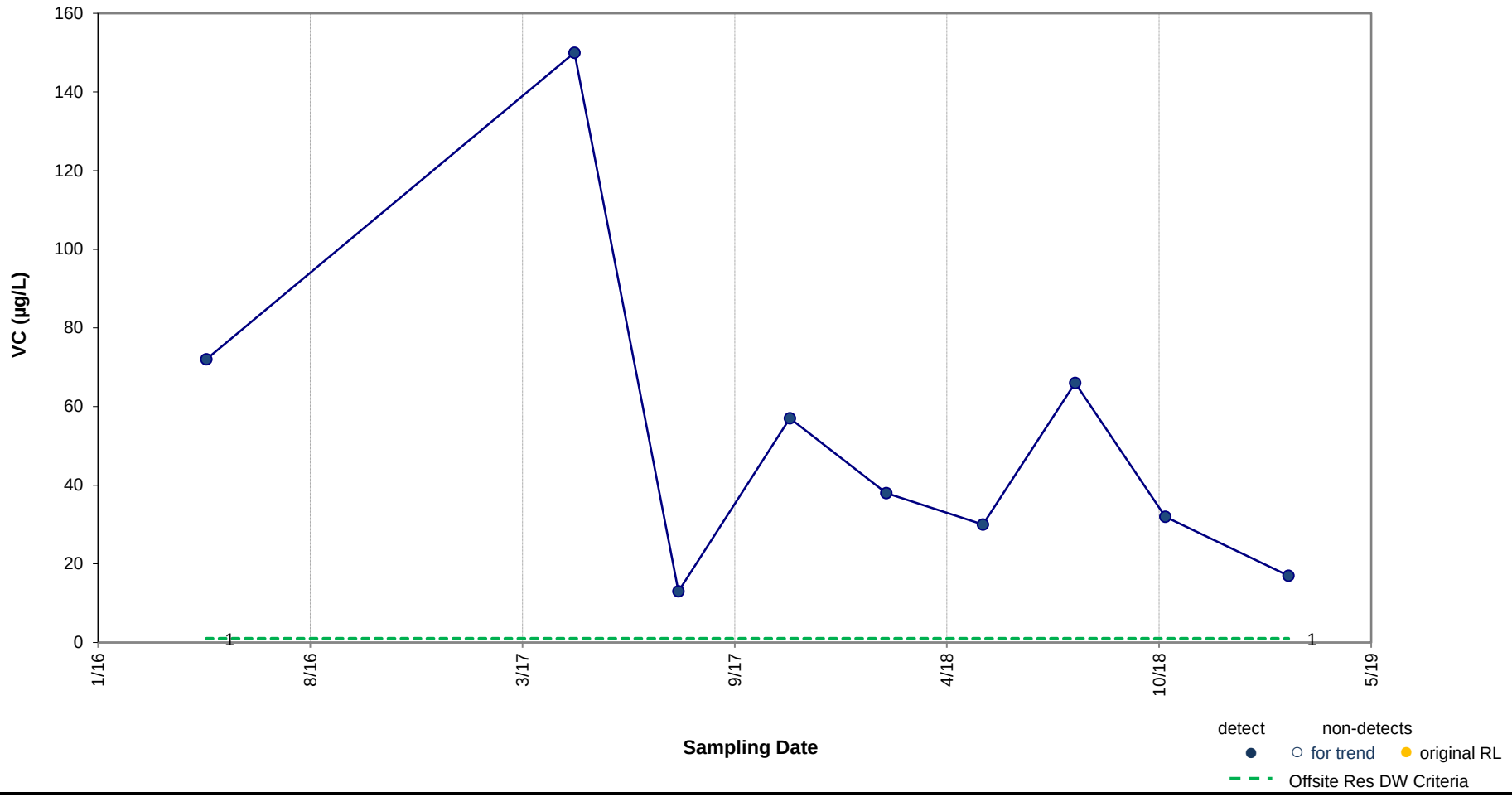
p value = 0.022 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-43

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 17



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

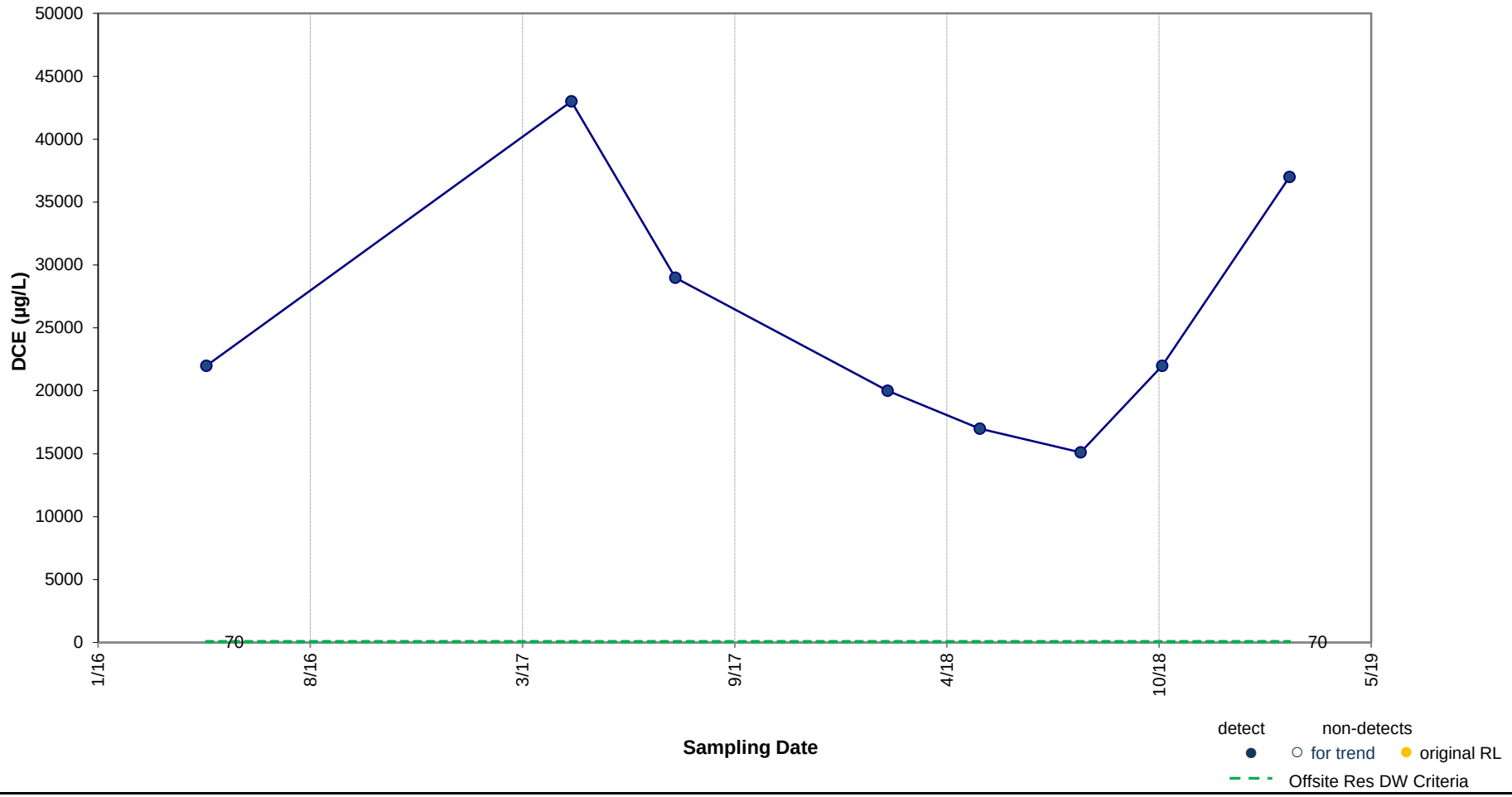
p value = 0.090 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-46

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 18



Results of Mann-Kendall Test for Trend: **No Significant Trend**

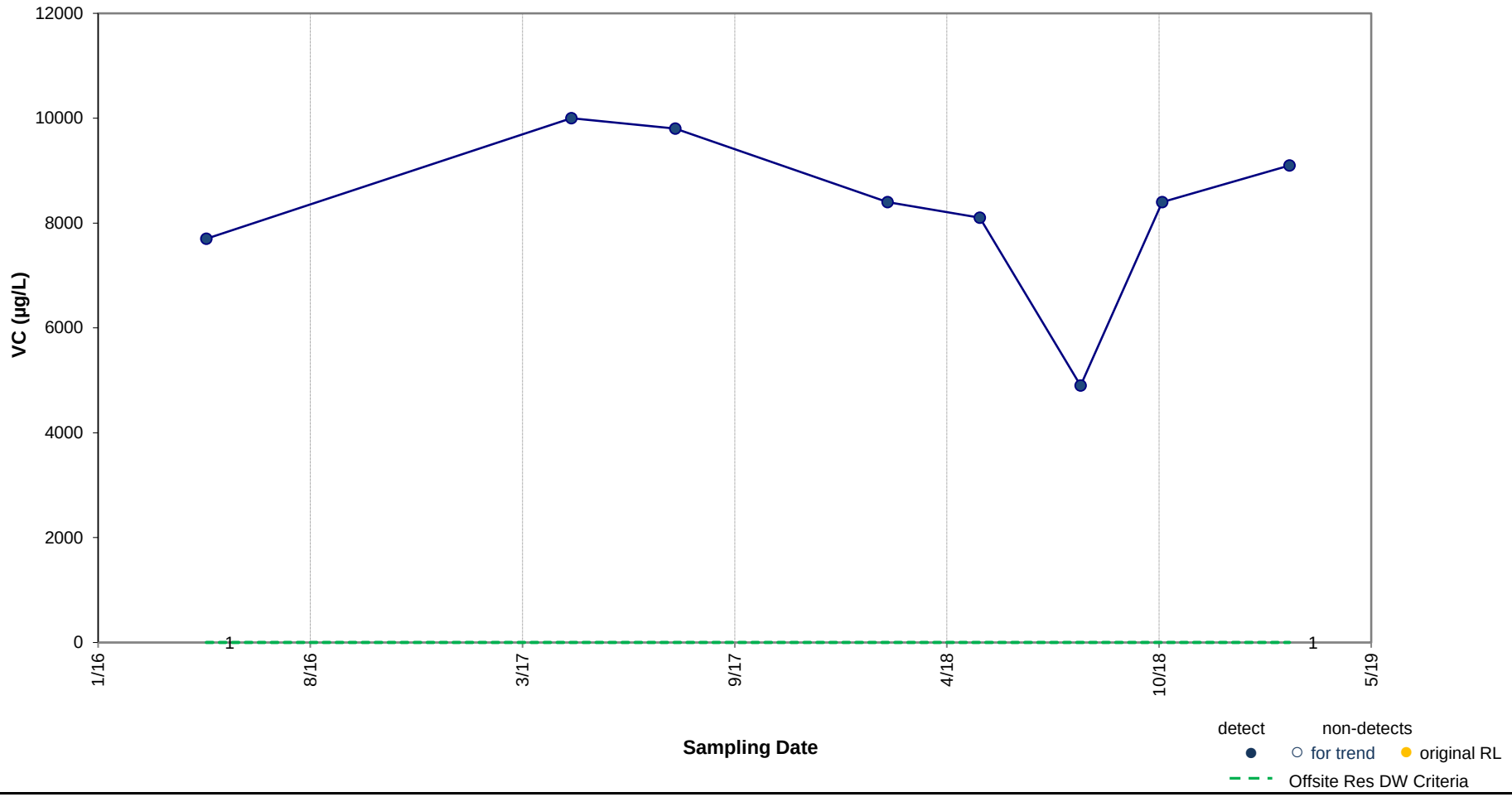
p value = 0.317 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – DCE in MW-49

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 19



Results of Mann-Kendall Test for Trend: **No Significant Trend**

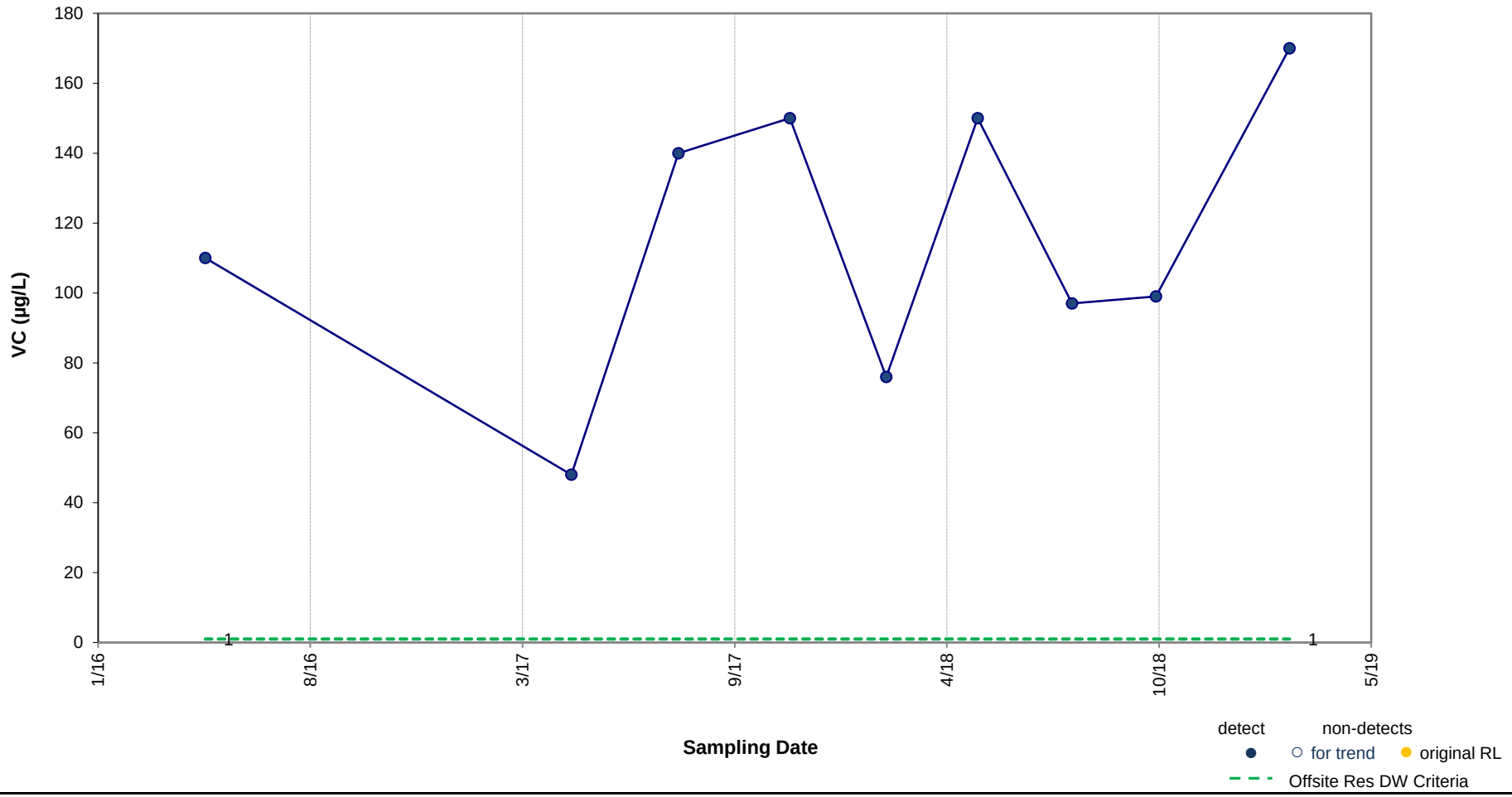
p value = 0.406 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-49

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 20



Results of Mann-Kendall Test for Trend: **No Significant Trend**

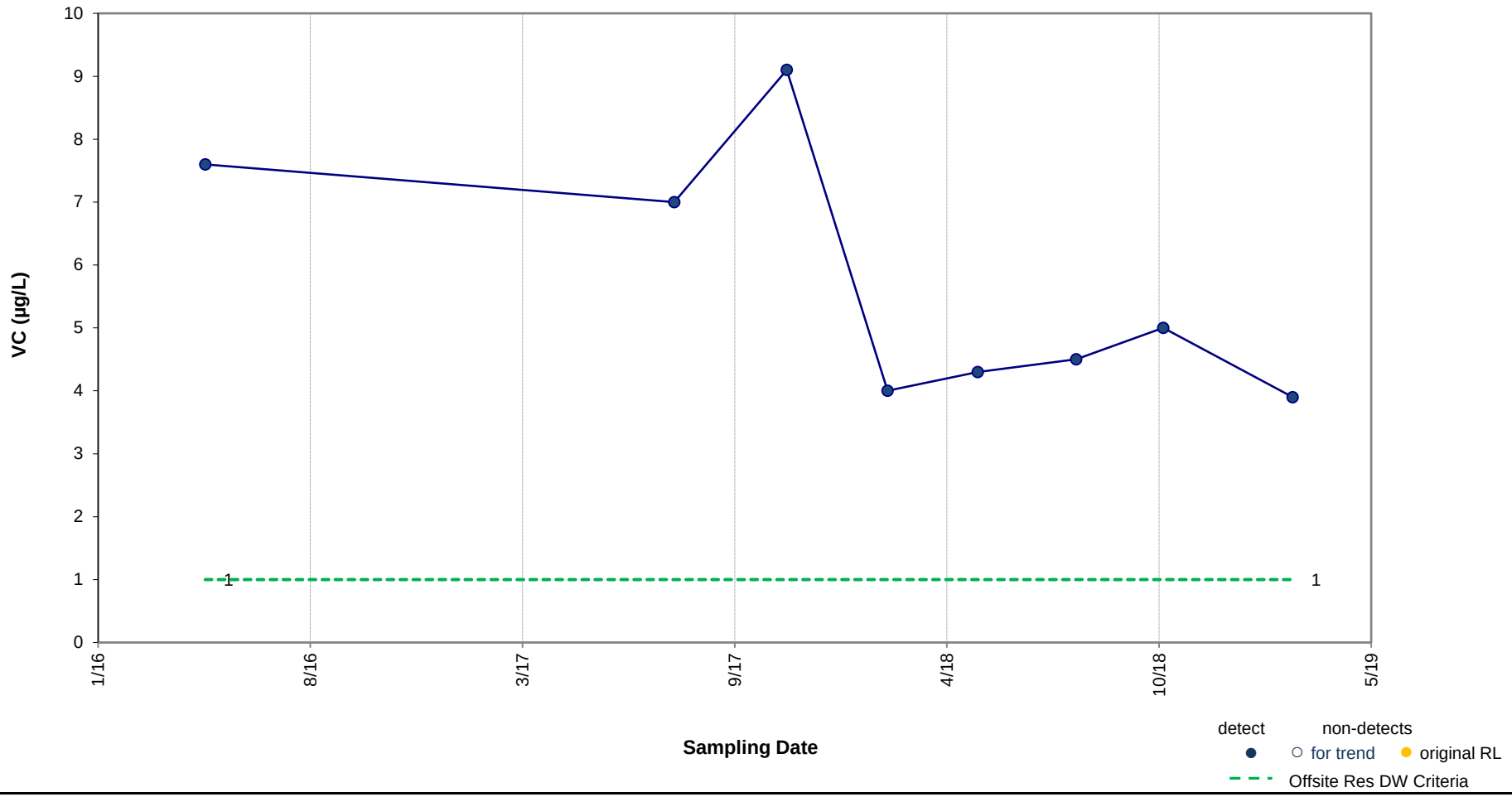
p value = 0.155 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-50

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 21



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

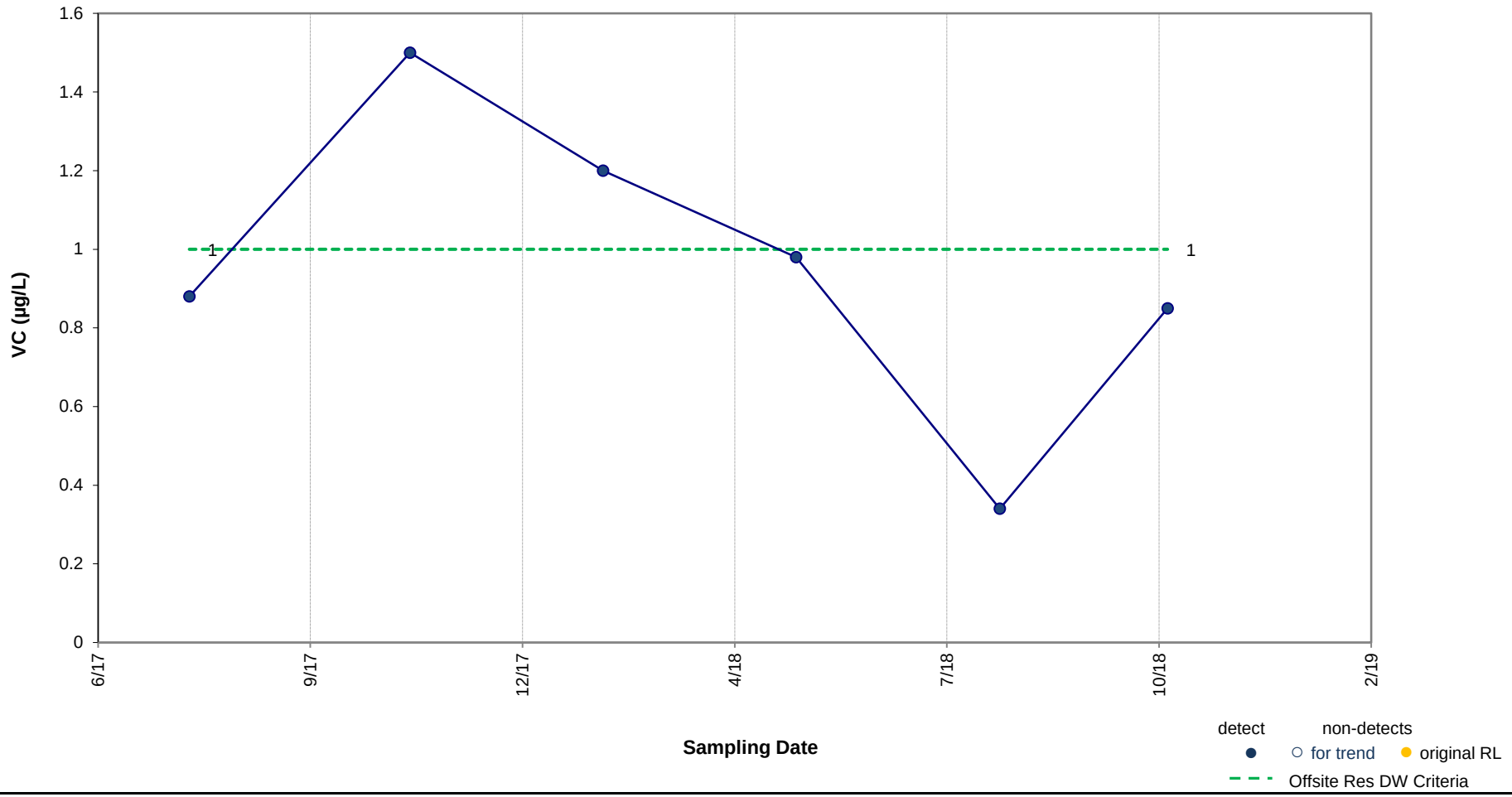
p value = 0.089 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-52

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 22



Results of Mann-Kendall Test for Trend: **No Significant Trend**

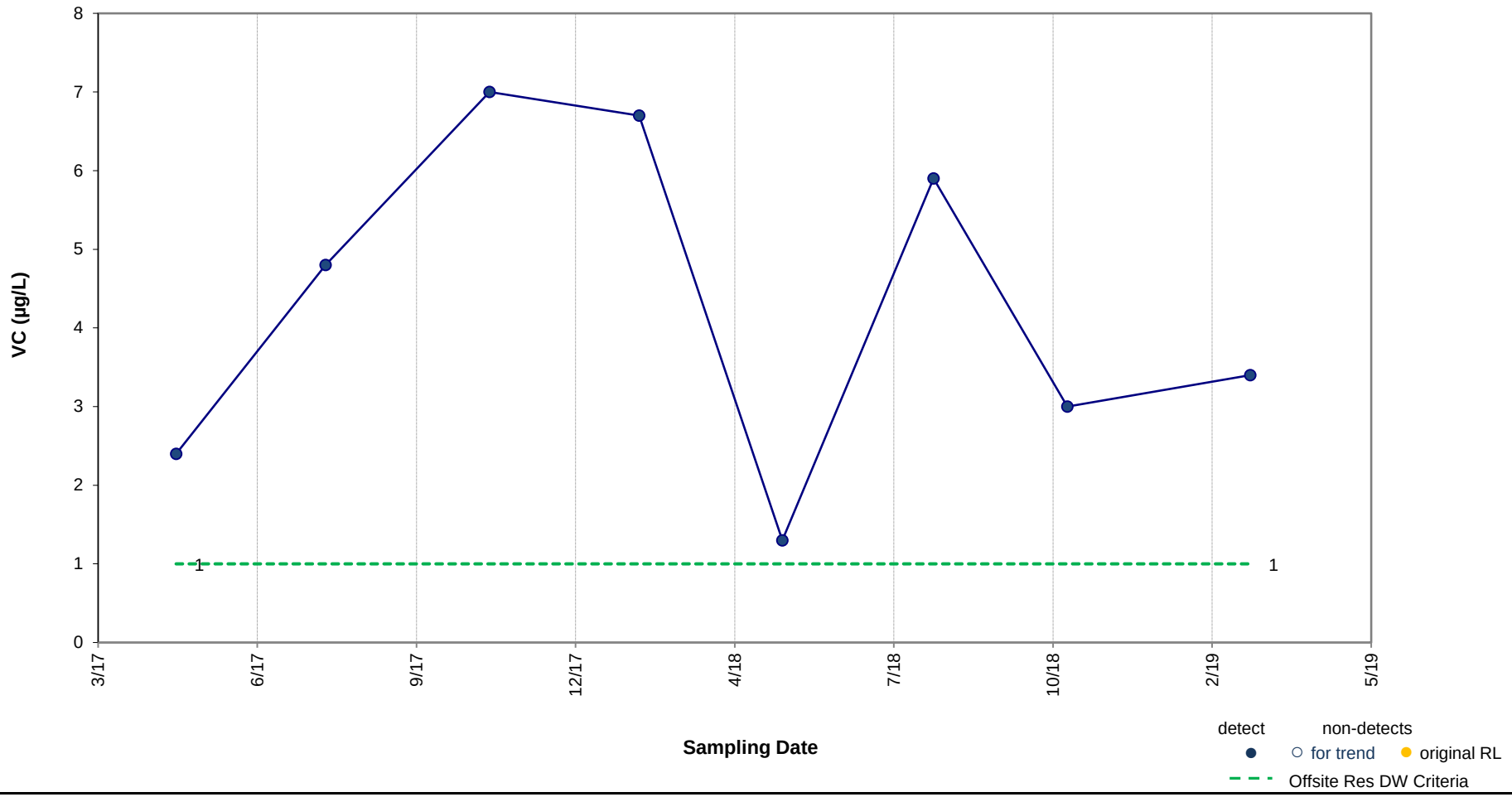
p value = 0.136 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-54

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 23



Results of Mann-Kendall Test for Trend: **No Significant Trend**

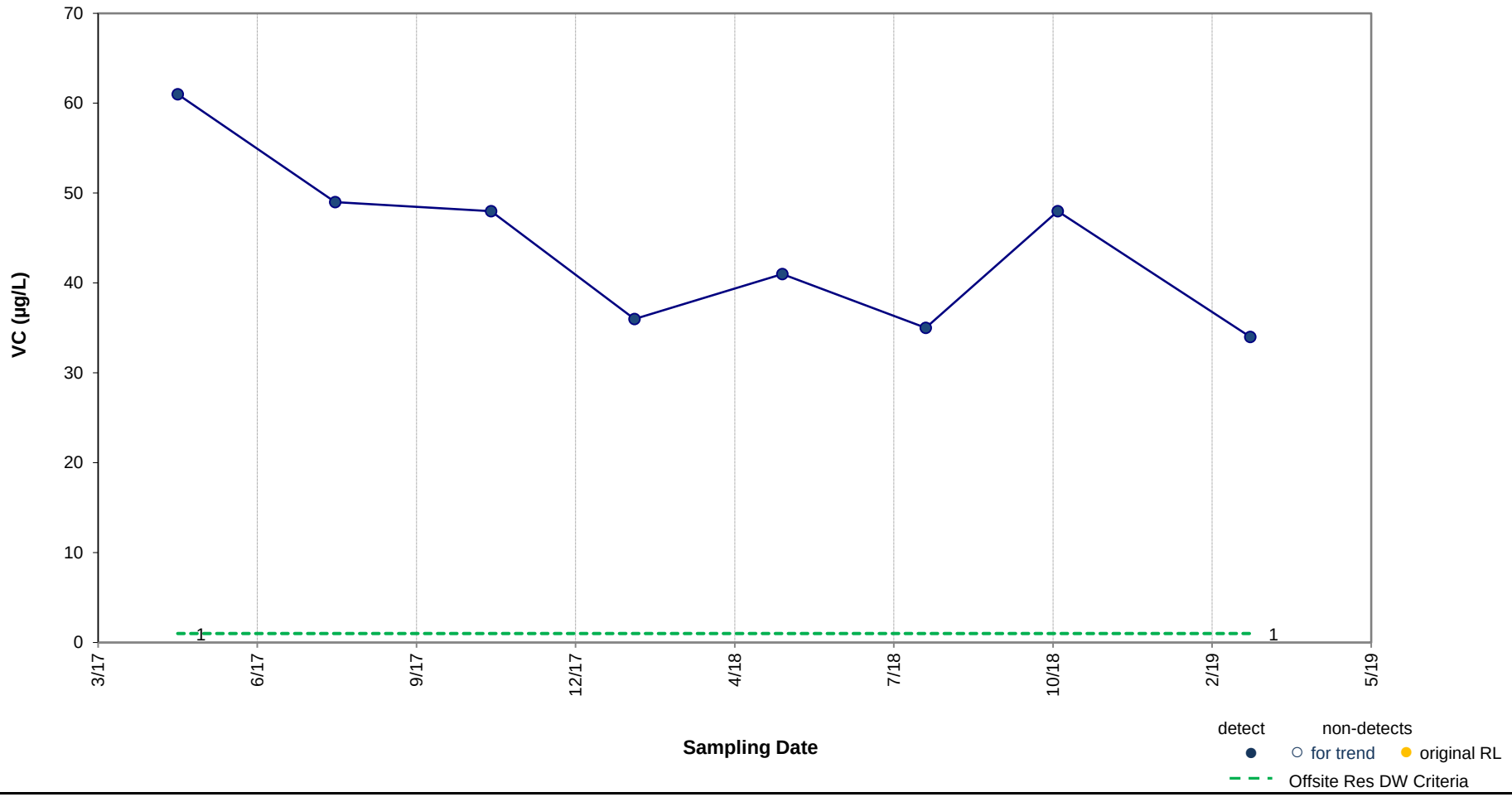
p value = 0.452 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-64

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 24



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

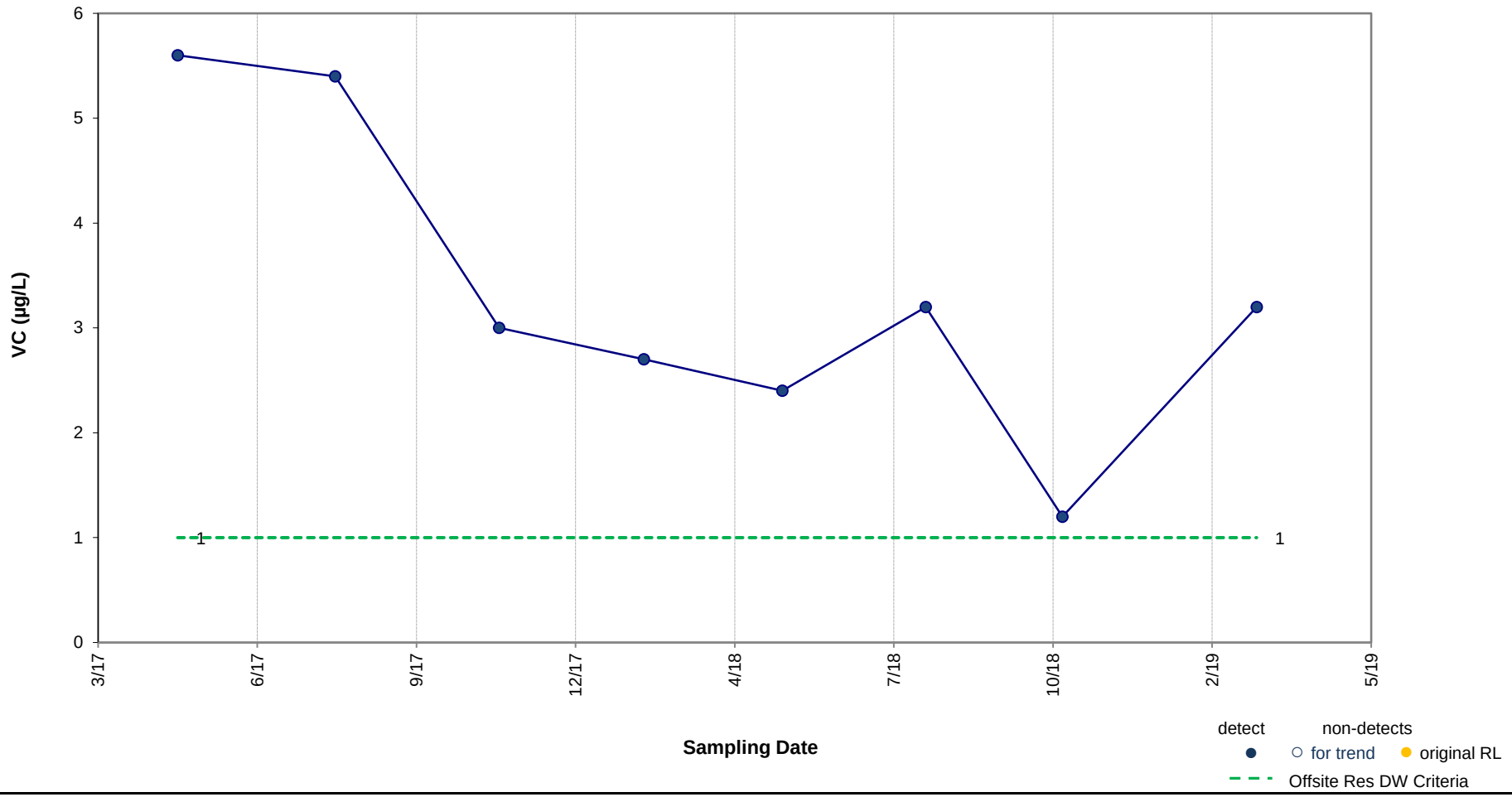
p value = 0.012 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-65

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 25



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

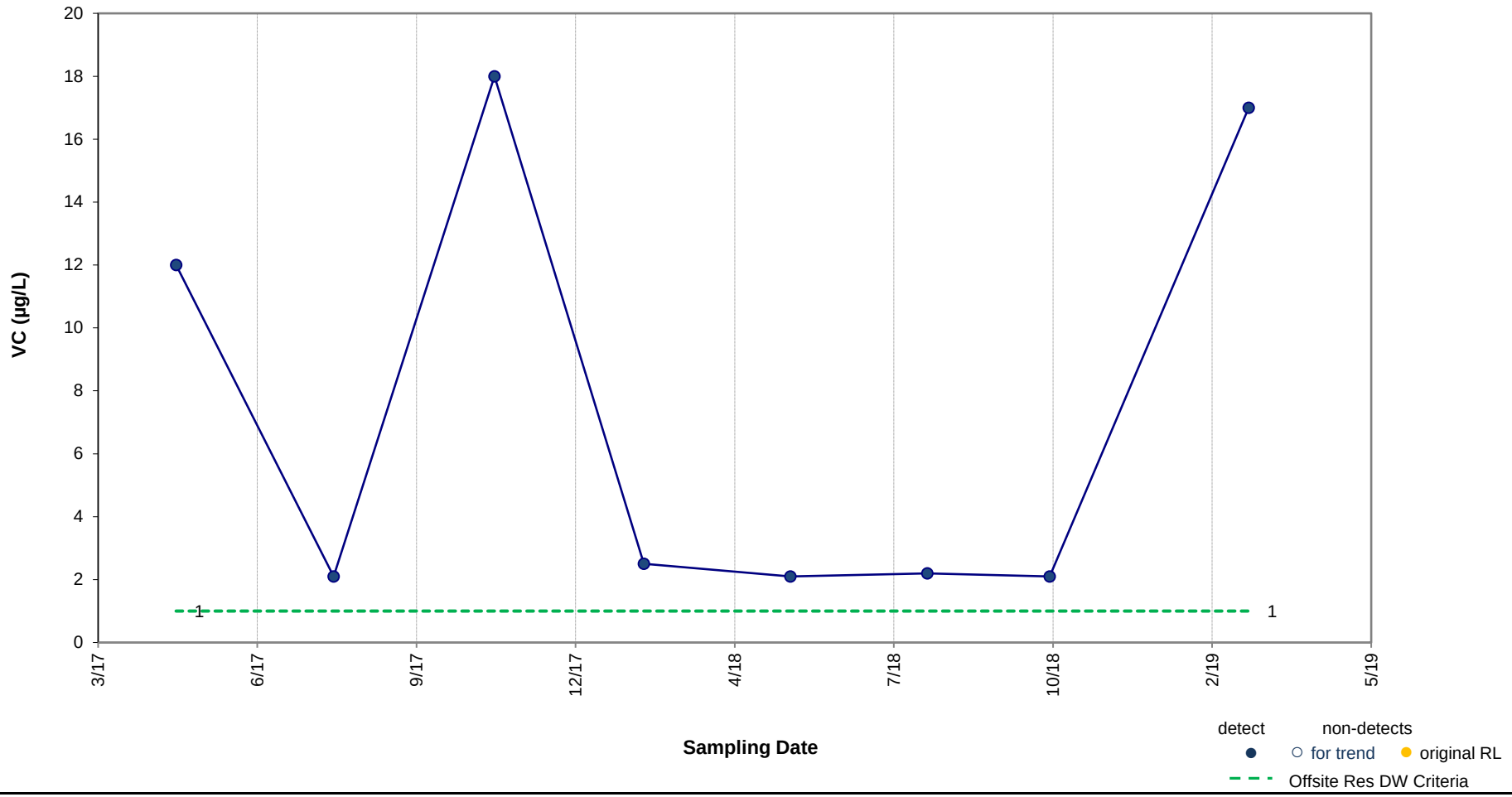
p value = 0.072 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-66

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 26



Results of Mann-Kendall Test for Trend: **No Significant Trend**

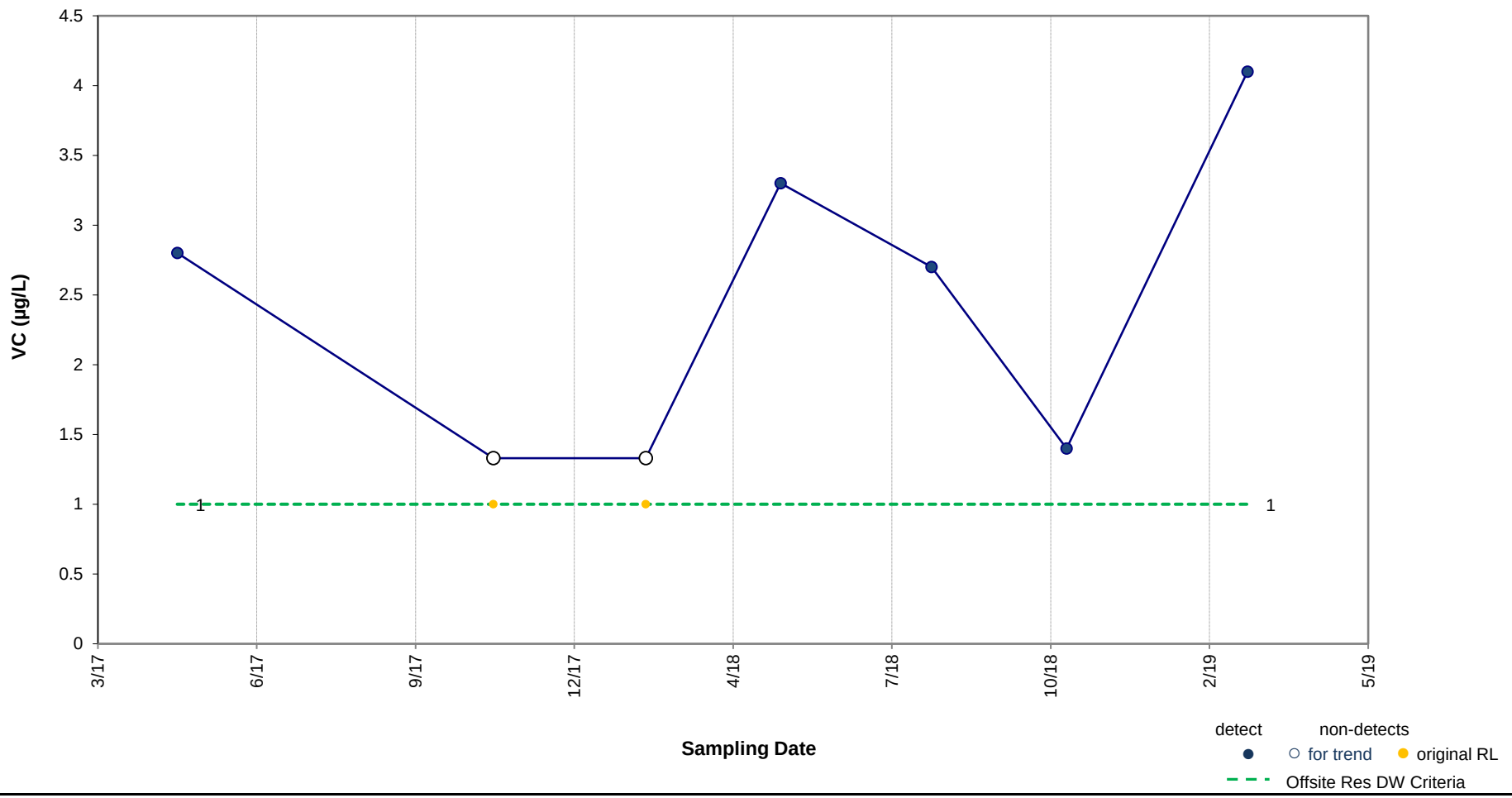
p value = 0.406 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-68

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 27



Results of Mann-Kendall Test for Trend: **No Significant Trend**

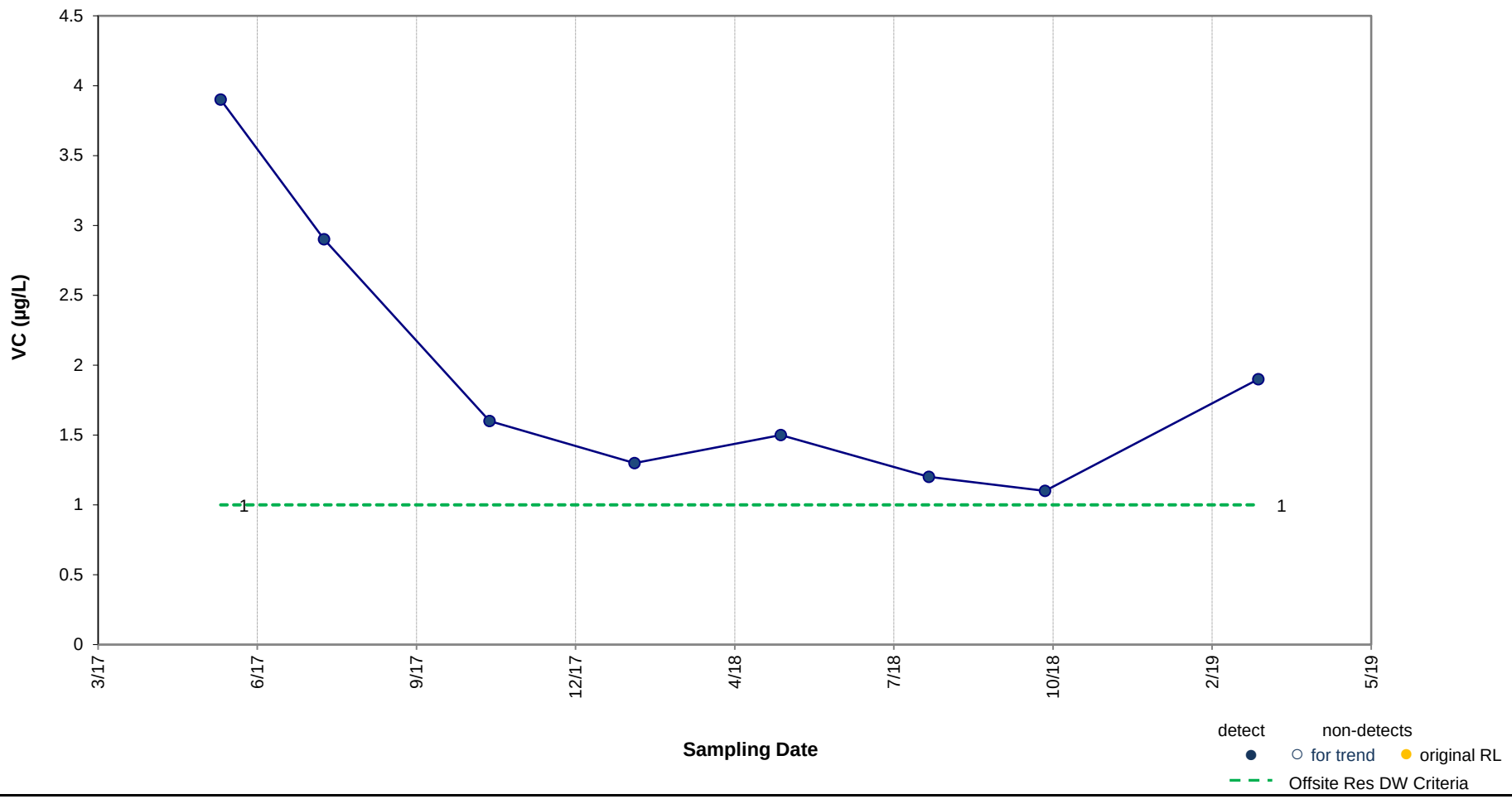
p value = 0.236 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-69

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 28



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.031 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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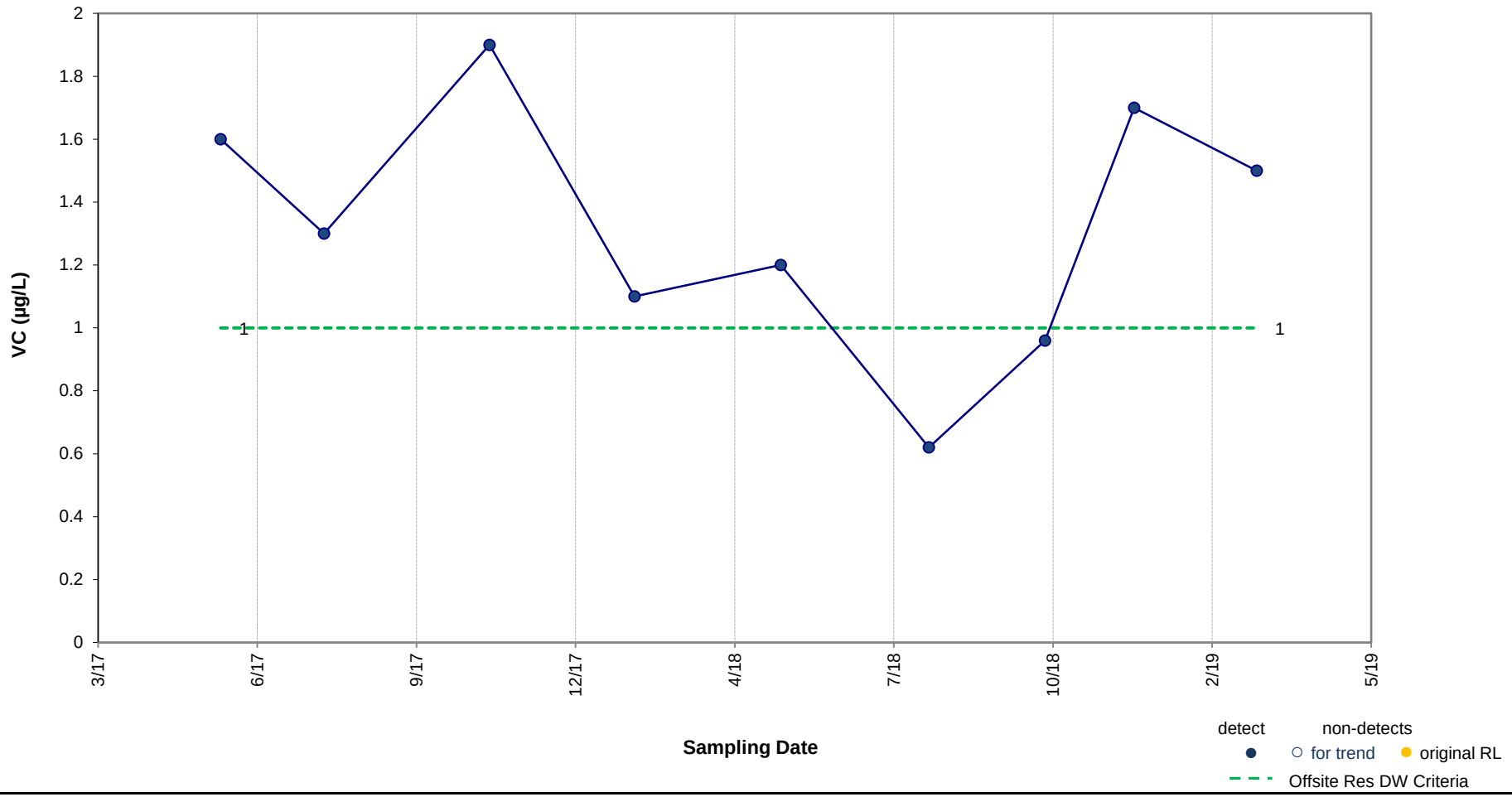
Concentration vs. Time Plot – VC in MW-72

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 29



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.306 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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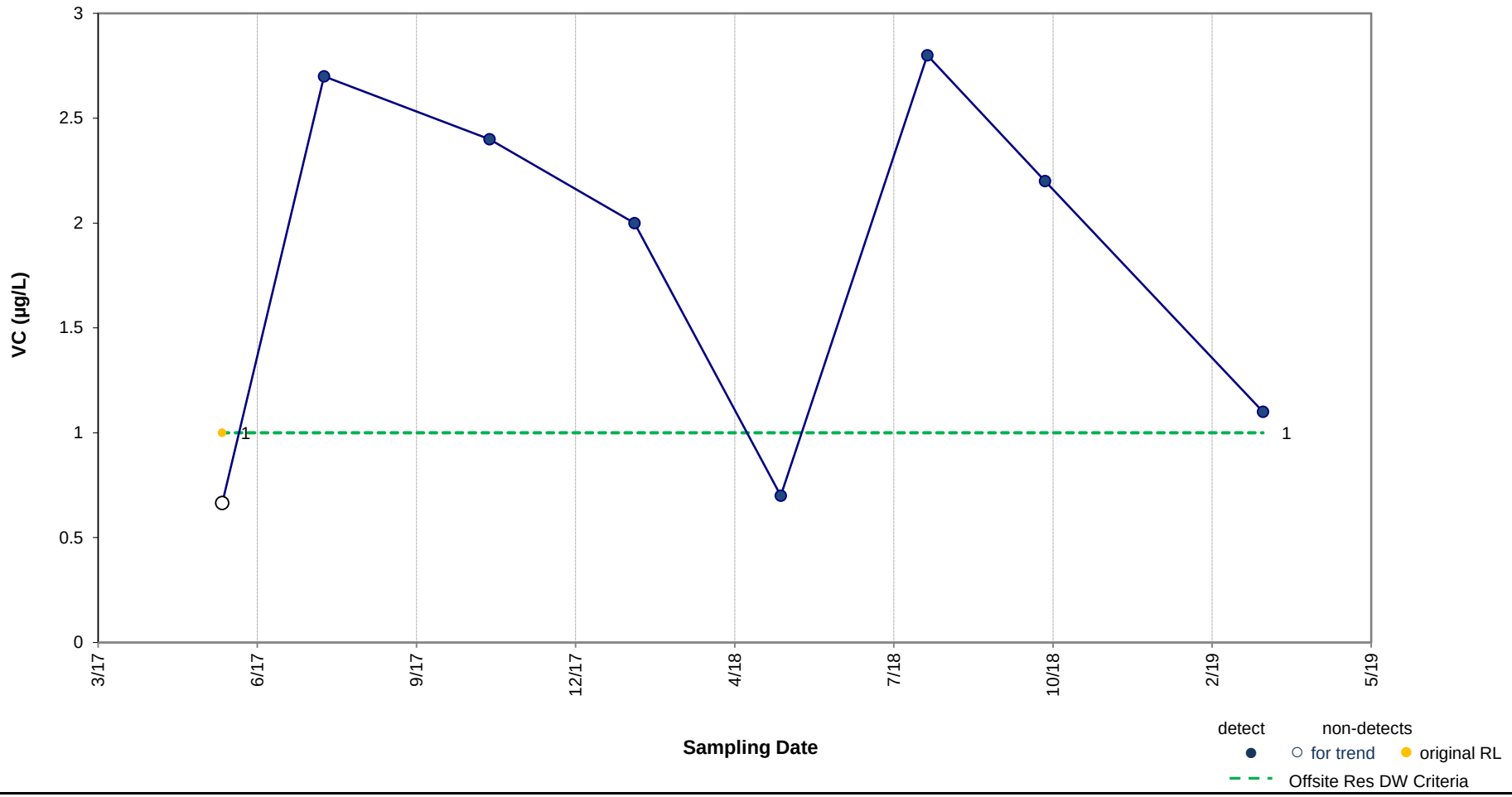
Concentration vs. Time Plot – VC in MW-73S

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 30



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.548 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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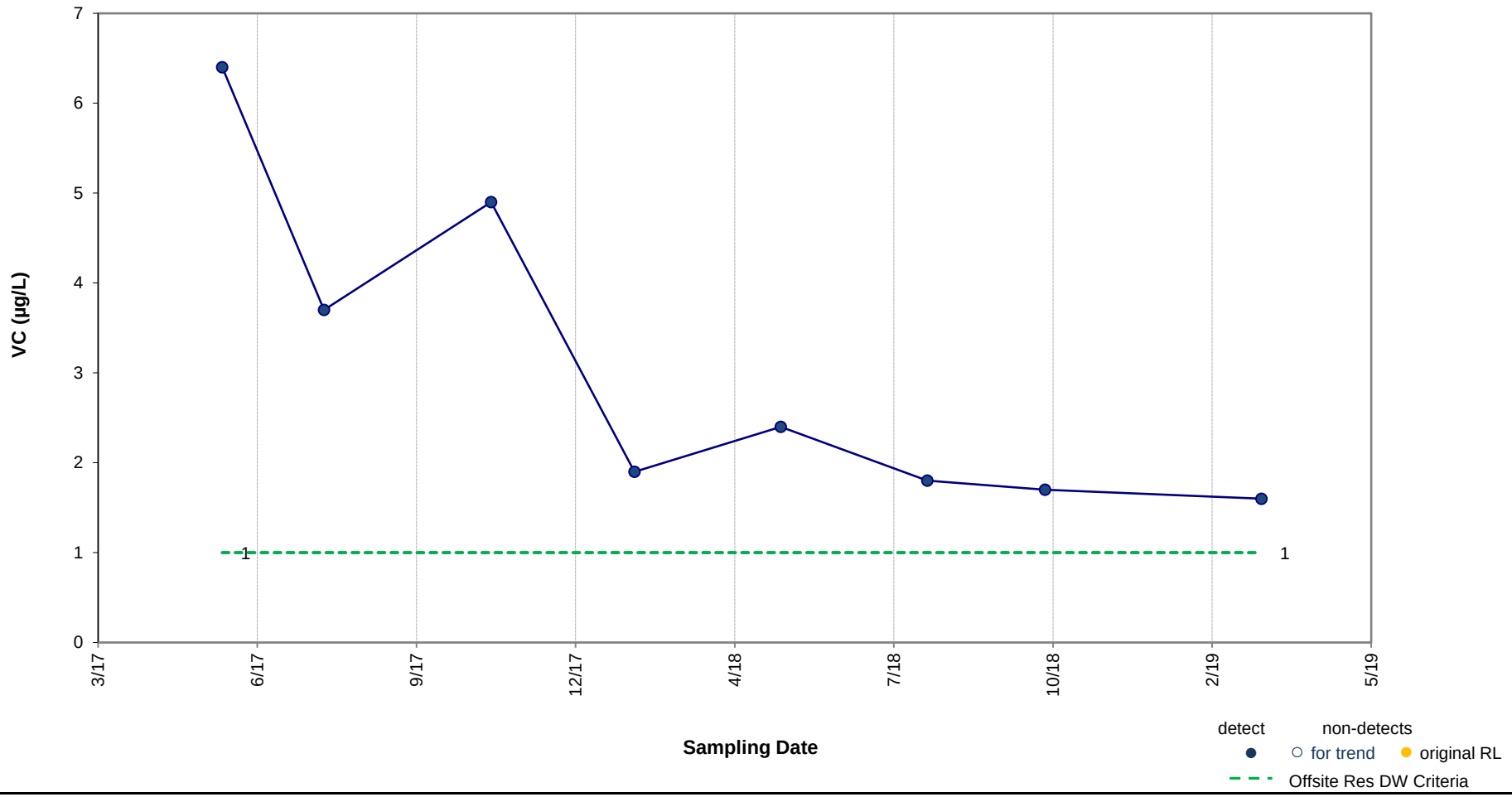
Concentration vs. Time Plot – VC in MW-74

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 31



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = <0.001 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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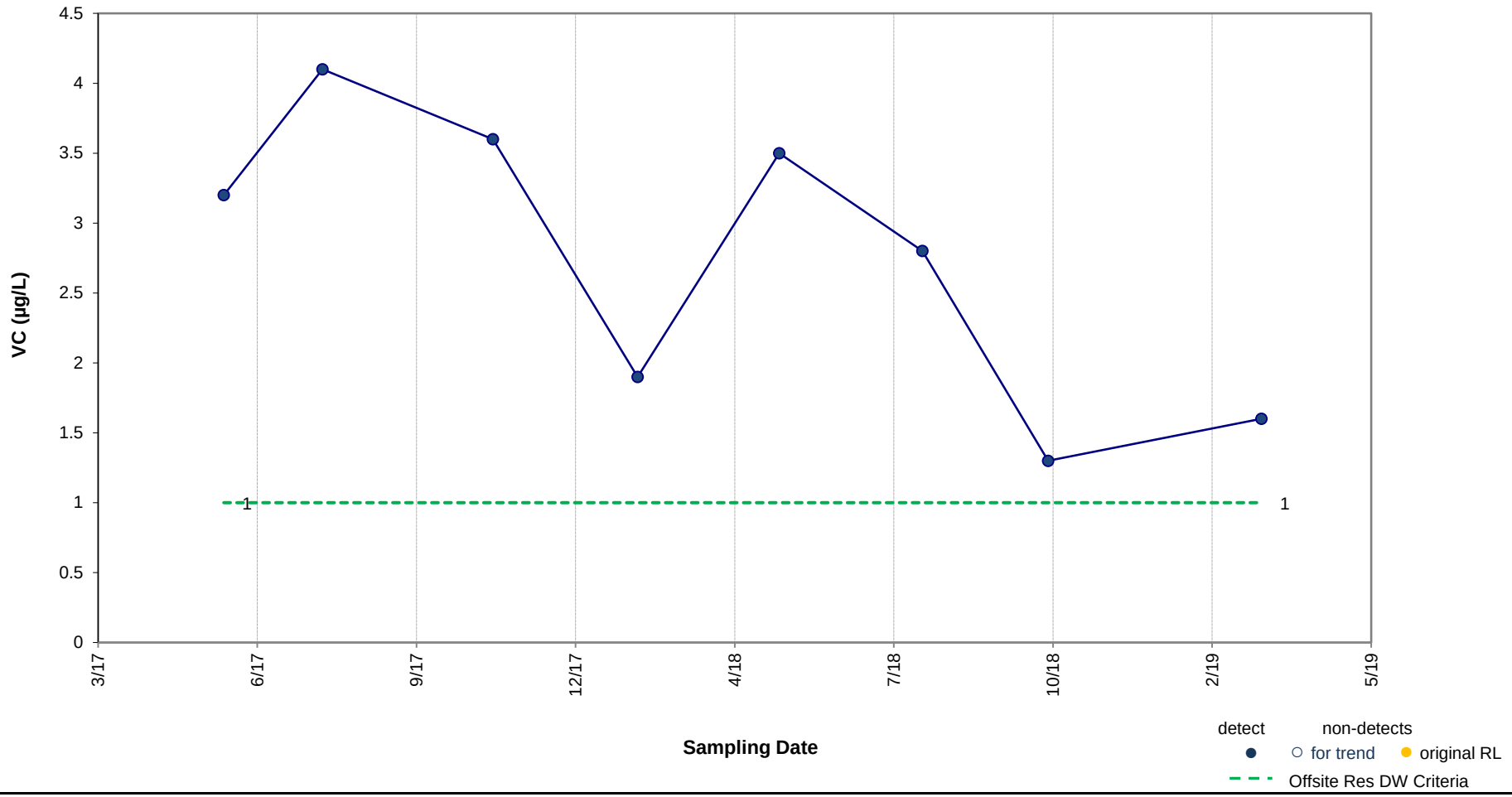
Concentration vs. Time Plot – VC in MW-75D

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 32



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.031 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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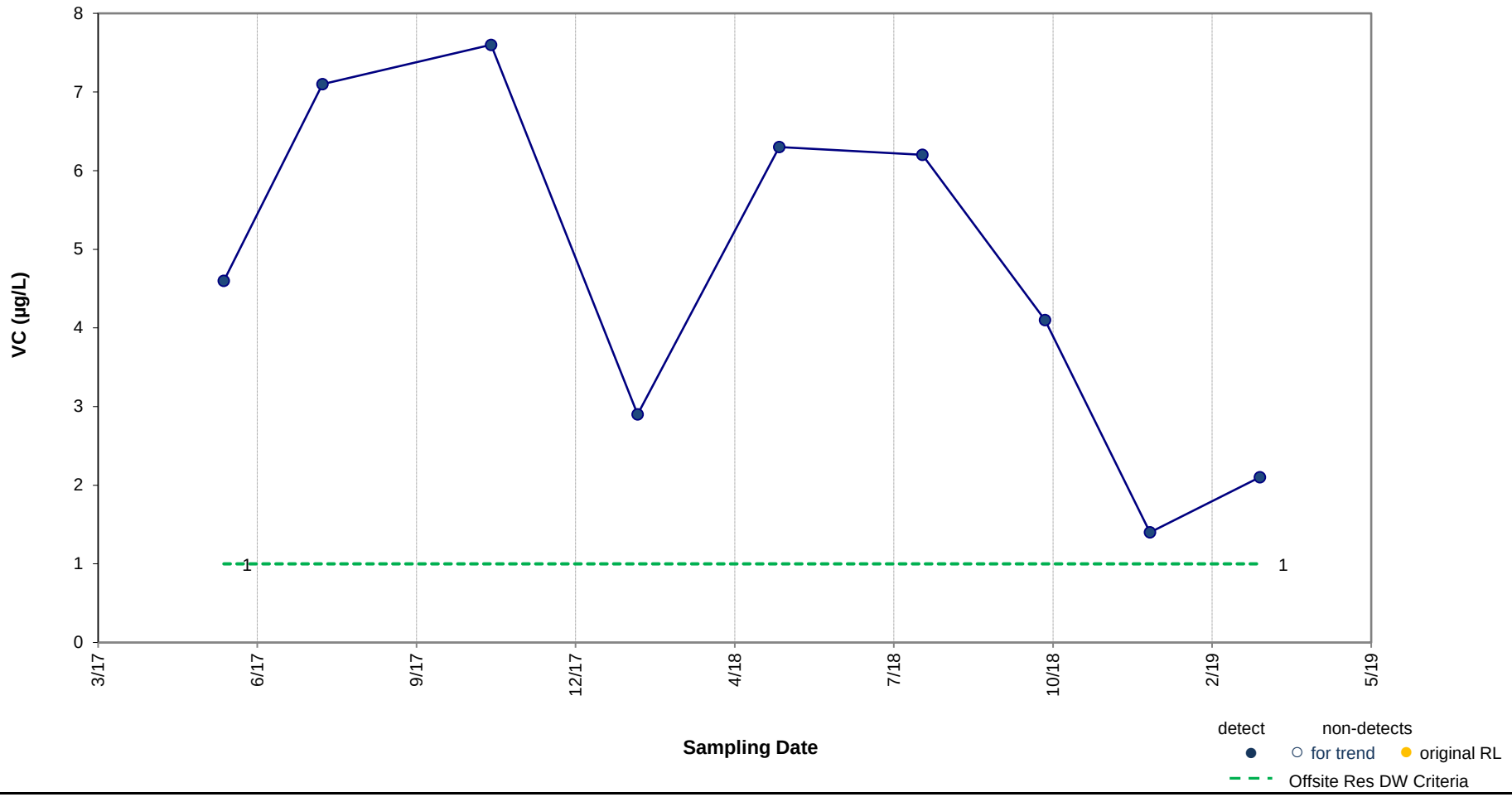
Concentration vs. Time Plot – VC in MW-79D

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 33



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.038 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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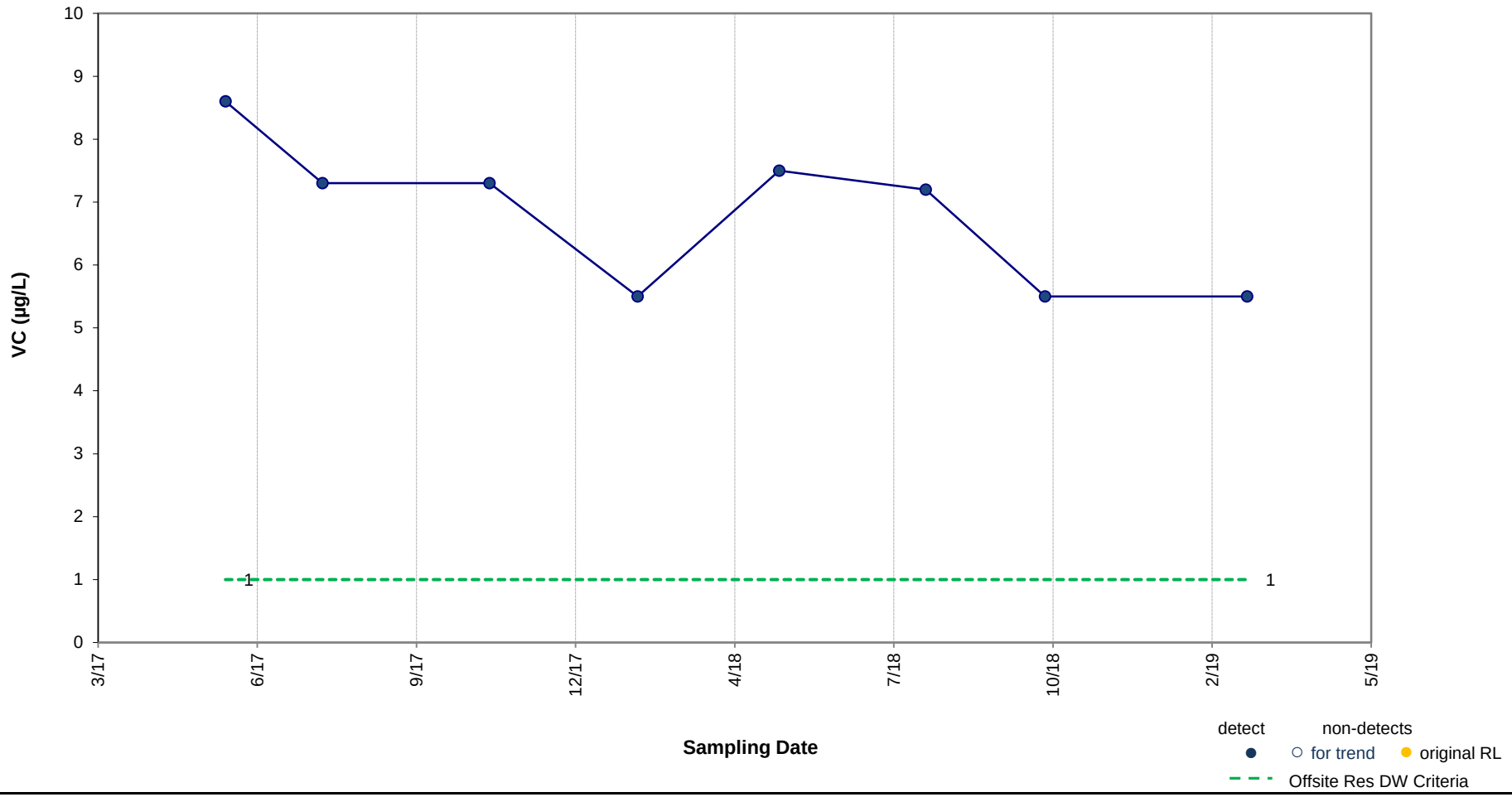
Concentration vs. Time Plot – VC in MW-80S

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 34



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.031 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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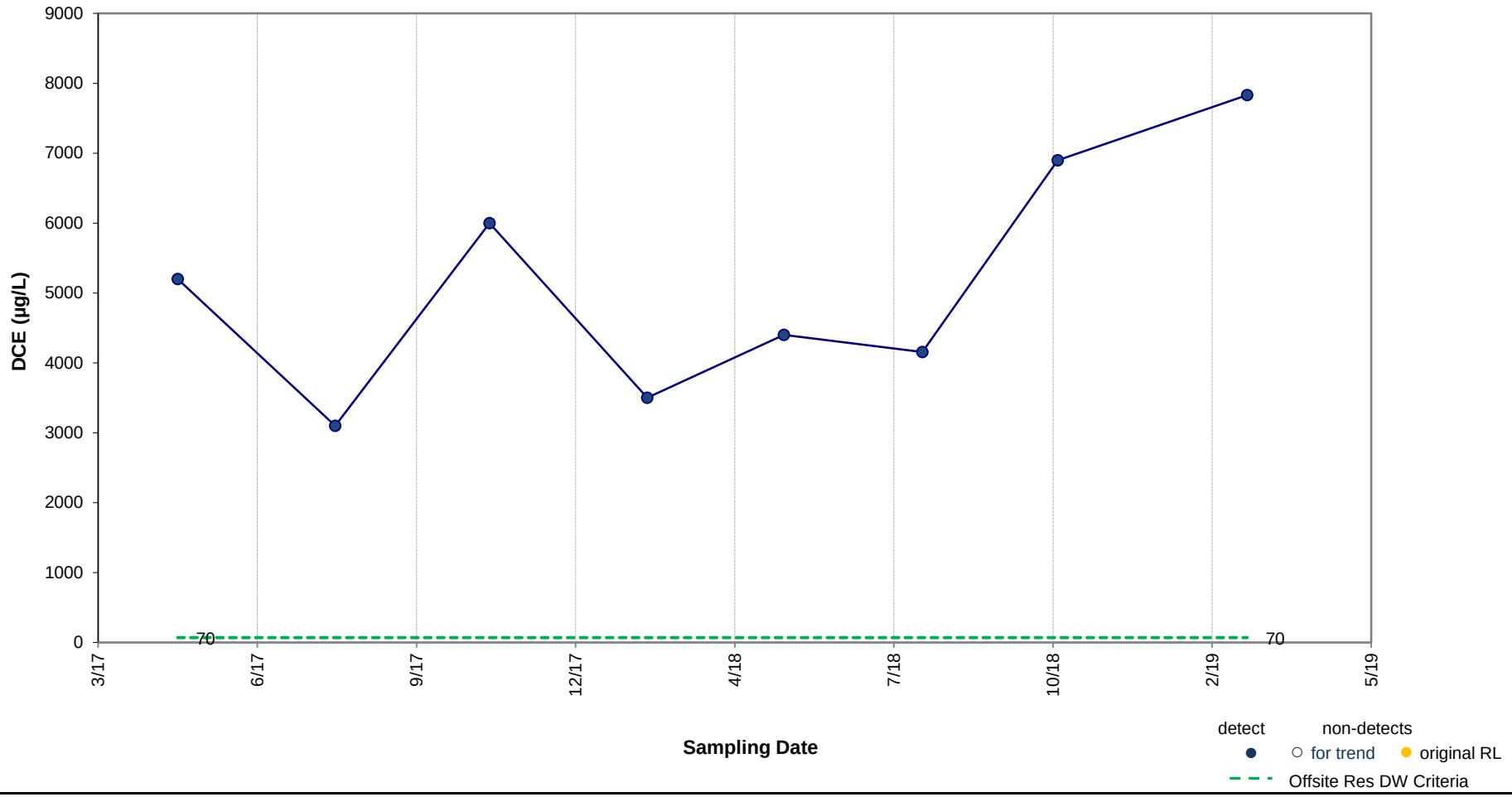
Concentration vs. Time Plot – VC in MW-85

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 35



Results of Mann-Kendall Test for Trend: **INCREASING TREND**

p value = 0.089 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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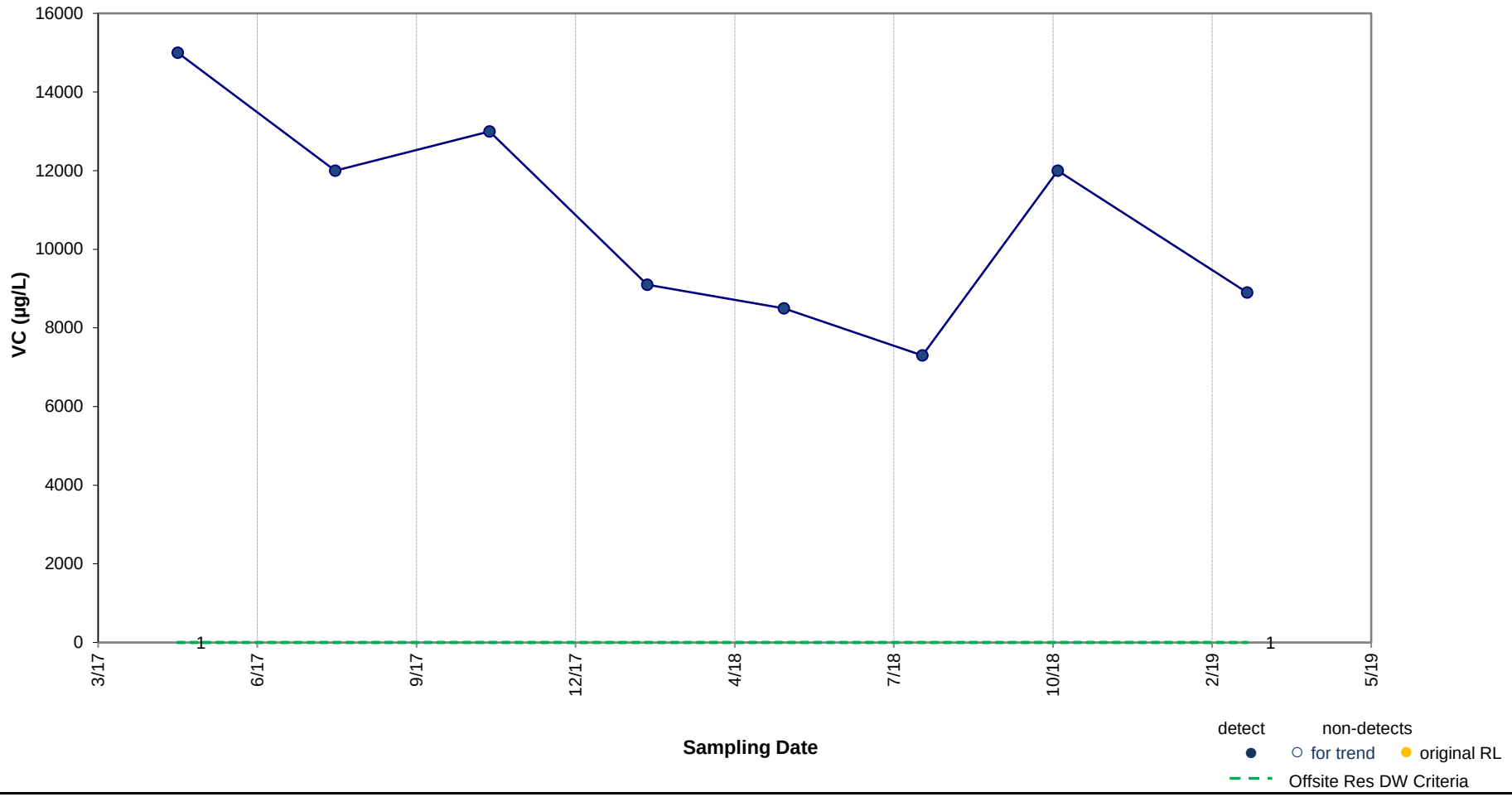
Concentration vs. Time Plot – DCE in TW-16-02

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 36



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.043 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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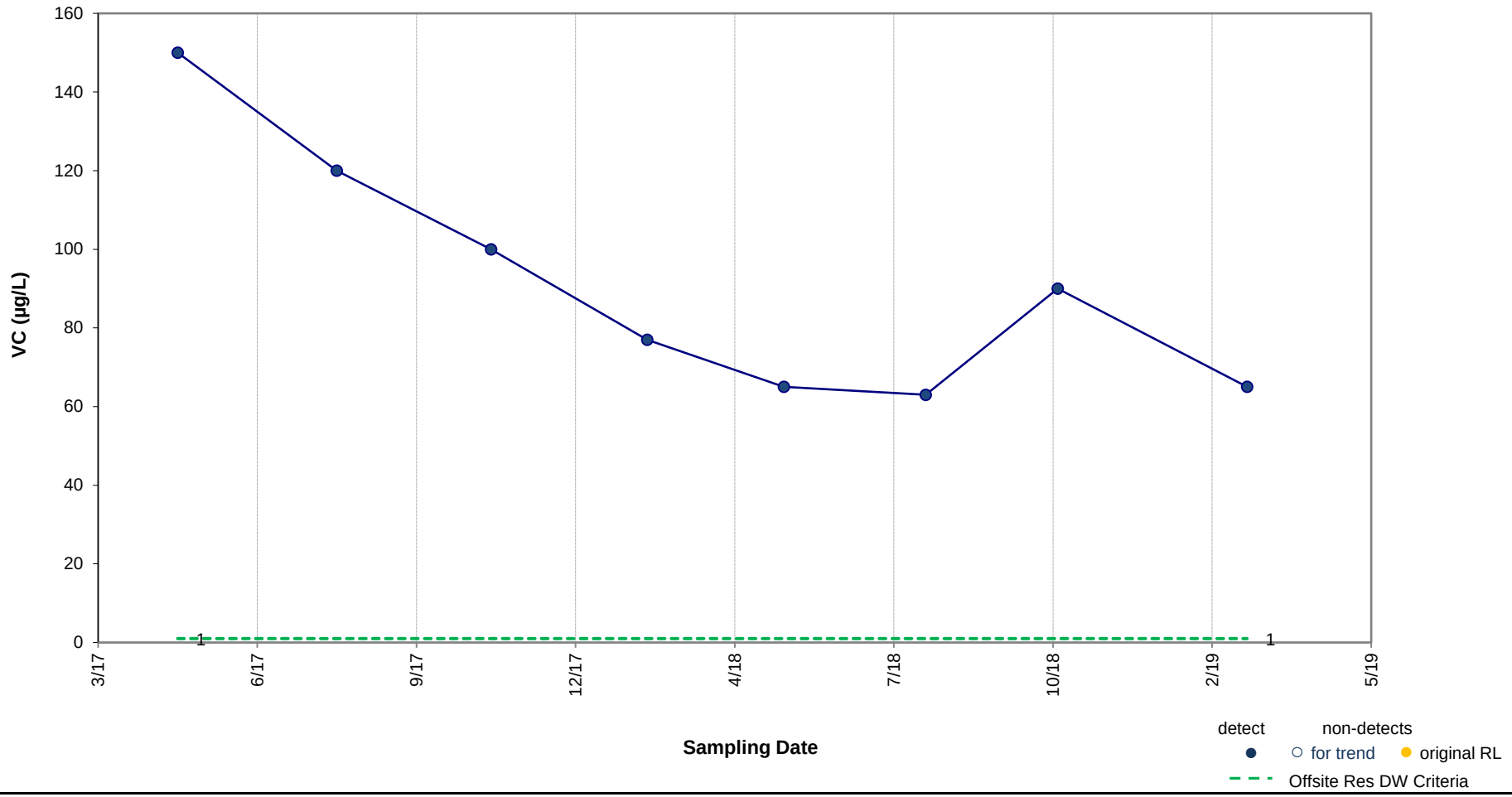
Concentration vs. Time Plot – VC in TW-16-02

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 37



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.012 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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Concentration vs. Time Plot – VC in TW-16-04

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 38

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