TRANSMITTAL LETTER

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From:
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Copies:

Date:
January 31, 2020

Subject:
Livonia Transmission Plant
Q4 2019 Progress Report

Arcadis Project No.:
MI001454.0007

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☐ Samples
☐ Specifications
☐ Copy of Letter
☐ Change Order
☒ Reports

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1	2/1/2020			Q4 2019 Progress Report	

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FORD MOTOR COMPANY

QUARTERLY PROGRESS REPORT - 4Q 2019

Livonia Transmission Plant

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January 31, 2020

QUARTERLY PROGRESS REPORT - 4Q 2019

Livonia Transmission Plant

Kris Hinskey

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Date:
January 31, 2020

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4Q 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/Sampling
   - Groundwater Delineation

Off-Site

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

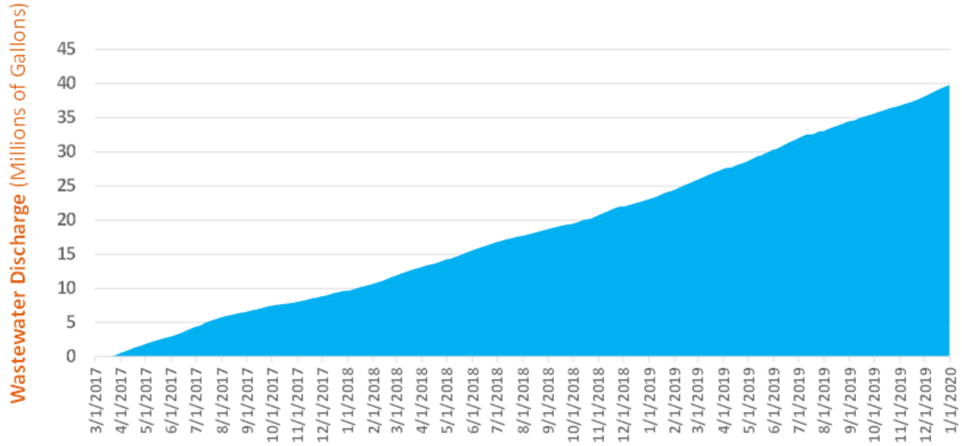
Total On-Site Routine Samples

Period	Groundwater / Water	Soil/ Sediment	Sub-Slab /Soil Gas
4Q 2019	88	0	148
Total since Oct. 2015	1,114	328	300

Total Off-Site Routine Samples

Period	Groundwater	Soil Gas
4Q 2019	136	0
Total since Oct. 2015	921	255

Hydraulic Control System – Through December 2019
Total Treated Groundwater Discharged



Total Treated Groundwater: 39,805,429 Gallons

■ Cumulative Discharge Volume, gallons

Key Dates

2018-2020 Document Submittal

Document	Date Submitted	Status
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
Response to EGLE Request for CSM	7/20/18	Received
2Q 2018 Progress Report	7/31/18	Received
Public Outreach Plan	8/7/2018	Received
3Q 2018 Progress Report	10/3118	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
Laboratory Memo	4/16/19	Received

Upcoming Dates

2020

February	Off-Site 1Q 2020 Groundwater Sampling
February	On-Site 1Q 2020 Groundwater Sampling

Document	Date Submitted	Status
Extension Request to EGLE	4/17/19	Responded
1Q 2019 Progress Report	5/2/19	Received
Response to EGLE	5/15/19	Responded
Response to EGLE	5/17/19	Responded
Response to EGLE	5/24/19	Responded
Response to EGLE	5/30/19	Responded
EGLE Update Letter	6/7/19	Received
Updated Public Outreach Plan	6/28/19	Received
EGLE Update Letter	7/12/19	Received
Response to EGLE	7/25/19	Responded
EGLE Update Letter	7/31/19	Received
Q2 2019 Progress Report	7/31/19	Received
Residential Concern Memo	7/31/19	Received
Utility Corridor Response Activity Plan	8/8/19	Responded
EGLE Update Letter	8/30/19	Received
Residential Concern Memo	8/30/19	Received
EGLE Update Letter	9/30/19	Received
Residential Concern Memo	9/30/19	Received
Residential Concern Memo	10/31/19	Received
EGLE Update Letter	10/31/19	Received
Q3 2019 Progress Report	11/8/19	Received
EGLE Update Letter	11/27/19	Received
Residential Concern Memo	11/27/19	Received
EGLE Update Letter	12/31/19	Received
Residential Concern Memo	12/31/19	Received

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TABLES

FIGURES

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APPENDICES

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ACRONYMS AND ABBREVIATIONS

1,1-DCE	1,1-dichloroethene
4Q 2019	fourth quarter of 2019
3Q 2019	third quarter of 2019
2Q 2019	second quarter of 2019
1Q 2019	first quarter of 2019
2Q 2018	second quarter of 2018
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
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
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
PLC	programmable logic controller
QAPP	Quality Assurance Project Plan
RIASL	Recommended Interim Action Screening Level
ROW	right-of-way

RRD	Remediation and Redevelopment Division
SMR	Self-Monitoring Report
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
VAP	vertical aquifer profile
VC	vinyl chloride
VI	vapor intrusion
VOC	volatile organic compound
WWTP	Wastewater Pre-Treatment Plant

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 associated with the hydraulic control system (HCS) and sub-slab depressurization system (SSDS) completed voluntarily by Ford. This progress report includes activities completed from October 1 through December 31, 2019 (4Q 2019). Activities described in this 4Q 2019 report include:

- On- and off-site groundwater 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 4Q 2019 include on-site vapor intrusion (VI) investigation, off-site VI investigation, and continued delineation of both the on- and off-site groundwater impacts, as outlined in the Response Activity Plan - Vapor Intrusion Assessment and Response Activity Plan - Remedial Investigation, both dated April 13, 2018. In addition to the activities completed under the approved Response Activity Plan (RespAP), information regarding the interim preemptive mitigation system activities completed in 4Q 2019 is included in this report. Details regarding the additional response activities completed in 4Q 2019 are provided below.

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Date	Activity	Activities Completed in 4Q2019	Additional Activities Required (yes or no)
October to December 2019	Additional Off-Site Vapor Intrusion Assessment	435 samples collected (includes duplicate samples), includes sub-slab, indoor air, and ambient.	Yes
October to December 2019	Additional On-Site Vapor Intrusion Assessment	148 sub-slab samples collected (includes duplicate samples) to complete defining the extent of impacts	Yes
October to December 2019	Additional On-Site and Off-Site Monitoring Well Installation	13 monitoring wells installed on site; 11 monitoring wells installed off site (**Appendix A**).	Yes
October to December 2019	Additional On-Site and Off-Site Investigation	10 investigation soil borings installed off site. Vertical aquifer profile sampling completed at each location.	Yes
October to December 2019	Off-Site Mitigation System Installation	RetroCoat applied in 5 detached garages and 3 sheds.	Yes

The off-site VI assessment is ongoing, and large amounts of data were collected during 4Q 2019. The additional off-site VI data collected during 4Q 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, Wastewater 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 (ROW; **Figure 2**).

2 SUMMARY OF ROUTINE ACTIVITIES

The following table summarizes all routine monitoring activities at the AOC completed during 4Q 2019. Refer to the subsequent sections for further detail on each respective event and associated tables and figures.

Date	Activity	Tables	Figures
November 2019	On-Site Groundwater Sampling	1, 2	3, 4, 5, 6, 7, 8,
November 2019	Off-Site Groundwater Sampling	3, 4	3, 9, 10, 11
October to December 2019	HCS Performance Monitoring	5	2, 3, 12
October to December 2019	SSD Performance Monitoring	-	13

2.1 On-Site Groundwater Sampling

Arcadis completed on-site gauging on November 4, 2019. Monitoring wells and piezometers were gauged from the top of casing using an electronic water level meter to within 0.01 foot. A summary of the on-site 4Q 2019 groundwater elevations is included on the on-site quarterly groundwater elevation summary table (**Table 1)**. On-site groundwater elevation contours and apparent groundwater flow for the 4Q 2019 are provided on **Figure 3**.

On-site groundwater sampling was completed from November 5 through November 26, 2019 on all monitoring wells excluding the 10 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 one monitoring well (MW-27), which has not been located in more than 10 quarterly events. Monitoring well MW-27 has been paved over and is no longer accessible. This well will be removed from the current sampling plan. Groundwater was purged from the wells at a flow rate of 100 to 300 milliliters per minute (mL/min) until field parameters (conductivity, pH, turbidity, temperature, dissolved oxygen [DO], and oxidation-reduction potential [ORP]) stabilized. Once field parameters stabilized, groundwater samples were collected into laboratory-supplied bottles. A summary of the 4Q 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 88 on-site monitoring wells and submitted on ice to TestAmerica Laboratories in Canton, Ohio and Edison, New Jersey (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 groundwater samples were submitted for analysis of the specific list of VOCs via United States Environmental Protection Agency (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 in Section 3 below.

2.2 Off-Site Groundwater Sampling

Arcadis completed off-site gauging on November 4, 2019. Monitoring wells were gauged from the top of casing using an electronic water level meter accurate to within 0.01 foot. A summary of the 4Q 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 groundwater flow are provided on **Figure 3**. Only monitoring wells within the ROWs were gauged during the site-wide gauging event and used to produce the elevation contour figure.

Off-site groundwater sampling was completed from November 5 through November 26, 2019. Groundwater was purged from the monitoring well at a flow rate of 100 to 300 mL/min until field parameters (depth to water, specific conductance, conductivity, pH, turbidity, temperature, DO, and redox/ORP) stabilized. Once field parameters were stable, groundwater samples were collected into laboratory-supplied bottles. A summary of the 4Q 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 136 monitoring wells and submitted on ice to TestAmerica. Additionally, duplicates, matrix spike/matrix spike duplicates, and trip blanks collected during the sampling event were analyzed in accordance with the methodology specified in the off-site QAPP (Arcadis 2017b) and submitted to TestAmerica. Samples were not collected from the following two monitoring wells:

- MW-129 due to a cracked well casing that could compromise sample collection. This well will be repaired before the 1Q 2020 sampling event.
- MW-175S due to no access to the property. Arcadis continues to work with the property owner to gain access to the property to sample the monitoring well.

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 in Section 3 below.

2.3 Off-Site Soil Gas Sampling

The off-site soil vapor monitoring points (SVMPs) were not sampled in 4Q 2019.

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 each 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 constant 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

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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.

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 underneath the concrete slab. The goal of the interim SSDS is to reduce the potential for sub-slab soil vapor to 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 (June 2018). 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, 1,1-DCE (J flag – estimated concentrations only), 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 (February/March 2019, June 2019, September 2019, and November 2019) are provided on **Figures 4** through **8**, respectively. All other site-specific compounds (PCE, 1,4-dioxane) 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 (June 2018) 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 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 4Q 2019 sampling event. Although TCE, cis-1,2-DCE, and 1,4-dioxane were detected off site, no results exceeded the applicable criteria (TCE 1.0 µg/L, cis-1,2-DCE 70 µg/L, and 1,4-dioxane 7.2 µg/L). The results for 1,4-dioxane, TCE, and VC from the four most recent quarters of data (February/March 2019, May 2019 September 2019, and November 2019) are provided on **Figures 9, 10,** and **11,** respectively. Other site-specific compounds (1,1-DCE, trans-1,2-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 Vapor Intrusion

3.3.1 Ongoing Off-Site Vapor Intrusion Response Activities

Since September 2018, multiple media have been sampled to assess vapor intrusion. To date, approximately 2,687 indoor air, ambient air, and sub-slab soil vapor samples (includes duplicate samples) have been collected at residential and commercial properties. Additionally, (XX) water samples have been collected from residential properties where a sump is present.

To further evaluate groundwater quality, one additional monitoring well (MW-207S) was installed in 4Q 2019. This monitoring well will start being sampled in the 1Q 2020 to further evaluate the VI pathway in compliance with the CD. On November 13, 2019, EGLE sent Ford an email indicating that due to the 100-foot buffer line moving more to the north along Capitol Avenue, three additional residential homes were required to be mitigated consistent with the interim preemptive mitigation program. Preemptive mitigation is ongoing at 33 residential properties. To date, 27 of 33 mitigation systems have been installed. Five of the six remaining mitigation systems are scheduled to be installed beginning in 1Q 2020 with planned completion by 2Q 2020. Mitigation in the remaining home has not been completed due to access issues.

3.4 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 5**). System shutdowns are documented and as detailed below. Samples are collected monthly to document permit compliance for sanitary discharge and air emissions.

3.4.1 Hydraulic Control System Operation

The HCS operated with minimal unscheduled downtime. **Exhibit 1** below describes the system shutdowns, approximate durations, and dates. The majority of the downtime was to facilitate repairs to equipment and routine maintenance. The system operated with an uptime of 98% during 4Q 2019.

Exhibit 1: HCS Shutdown Summary

Date of Shutdown	Duration of Shutdowns	Summary of Shutdown
1-Oct-19	Less than 1 hour	Field staff turned off wells to complete repairs on effluent pipe within the system building, then returned the system to normal operation. Total shutdown time was less than 1 hour.
11-Oct-19	Less than 2 hours	Field staff turned off wells to change setpoints, then returned the system to normal operation. Total shutdown time was approximately 2 hours.
28-Oct-19	Less than 3 hours	Field staff shut down the system to replace a mechanical seal on a transfer pump, then returned the system to normal operation. Total shutdown time was approximately 3 hours.
20-Nov-19 through 21-Nov-19	Less than 30 hours	Field staff shut down the system to replace a transfer pump seal while flushing activities were occurring. Total shutdown time was less than 30 hours.
09-Dec-19	Less than 1 hour	The system was shut down to perform backwashing on the lead carbon vessel. Field staff completed backwashing, and the HCS resumed normal operation the same day. Total shutdown time was less than 1 hour.

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 5** for the 4Q 2019 reporting period. The total volume of water collected and treated from March 15, 2017 through the 4Q 2019 is 39,805,429 gallons.

Exhibit 2: HCS Treated Discharge Water Volume and Flowrate Summary – 4Q 2019

Month	Volume Treated (Gallons)	Average Operational Flowrate* (GPM)
October	1,158,614	26
November	1,356,617	33
December	1,716,217	39

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 4Q 2019 reporting period. Groundwater mass removal calculations are based on air stripper effluent vapor sampled since June 2017.

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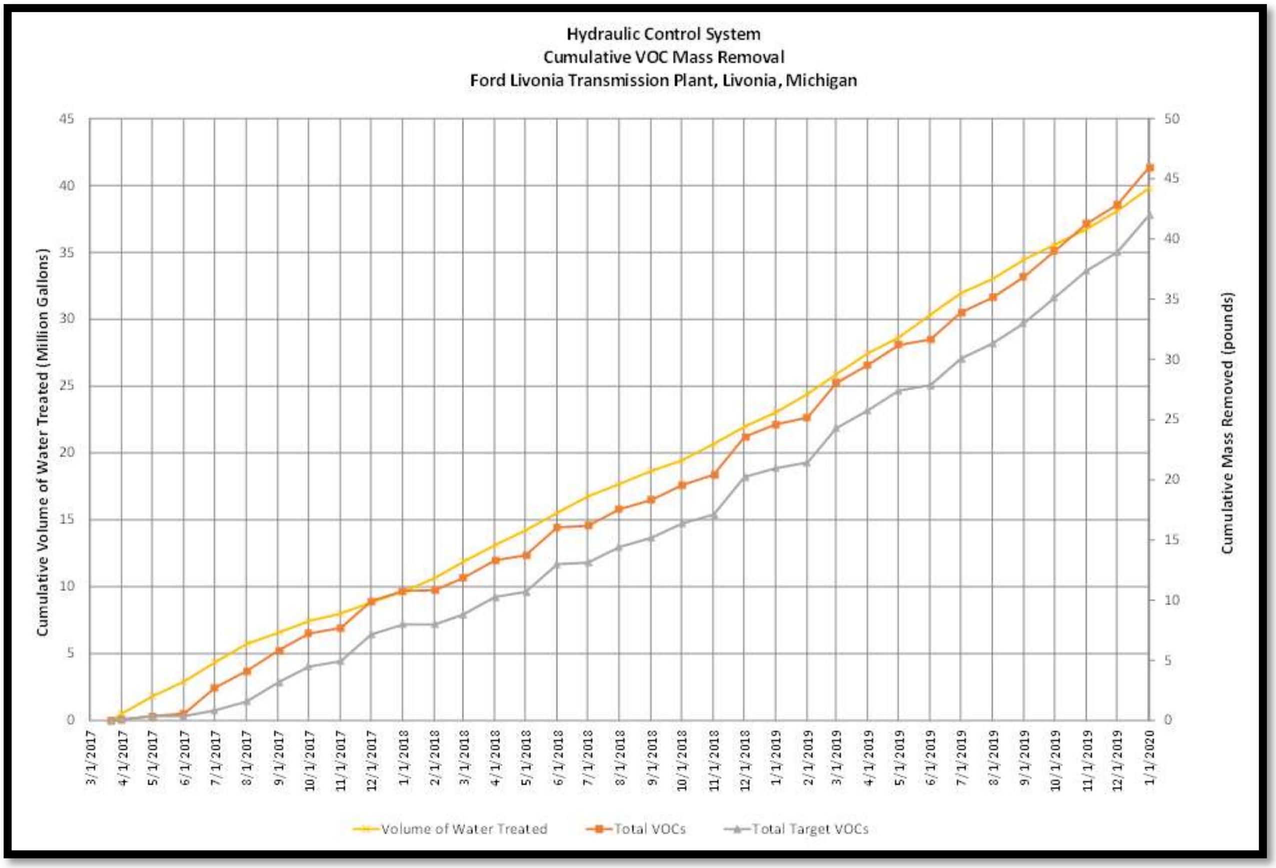
Exhibit 3: HCS Mass Removal – 4Q 2019



3.4.2 Maintenance Activities

Routine maintenance is required for effective operation of the HCS equipment and extraction wells. In 4Q 2019, all four horizontal wells were flushed to maintain pumping capacity. Ellingson-DTD (formerly Directed Technologies Drilling) was contracted to clean the extraction well screens and casings by flushing potable water through the wells to flush out sediment and biofouling material. Each horizontal well was flushed with 8,000 to 20,000 gallons of water at a flow rate of up to 250 gpm. Post-flushing video inspections were completed to ensure that flushing was successful. The videos showed that the well screen slots were more visible, and the majority of the loose material in the wells had been removed.

3.4.3 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 and well efficiency improved in 4Q 2019 after the flushing event. Pumping rates increased overall, and the inward hydraulic gradient improved between November and December as discussed below.

3.4.3.1 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-long cross-sectional area. The elevation of groundwater and the corresponding HCS total flow rate vary seasonally. The HCS extraction wells are equipped with variable speed pumps and can vary flow rate based on wet and dry seasons. The average monthly pumping rates (ranging from approximately 10 to 42 gpm over the course of a year) are consistent with the range of ambient groundwater flux rate calculated for the site. Average flow rates increased between October and December 2019, in part due increased water levels, but also coincident with the November flushing event and resulting increased well efficiency. As shown on **Figure 3**, the hydraulic gradient west of the HCS is steep as groundwater approaches the HCS system, and then exhibits a deflection around the three northern HCS wells (ESD-1, ESD-2, and ESD-3) with an inward gradient shown to the south around ESD-4. This result is consistent with groundwater removal and capture at the site.

Consistent with USEPA guidance, hydraulic gradient direction was calculated for a series of well triplets located downgradient of the HCS system. Groundwater gauging was completed before the flushing event in November and after the flushing event in December. The well triplets and calculated flow vectors are shown on **Figures 12A and 12B**. The November gradient map shows that flow near the northern portion of the system (ESD-1 and ESD-2) is easterly, flow is deflected southerly near ESD-3 and inward near ESD-4. The December gradient map shows improvement in hydraulic capture, primarily due to increased well efficiency and higher maintained pumping rates. Flow in December was still easterly in the vicinity of ESD-1 but turns south-southwesterly near the northern end of ESD-2 and inward to the west around EDA-3 and ESD-4. As noted above, the pumping rates are consistent with the expected groundwater flux.

Hydraulic capture is difficult to evaluate for this system for several reasons:

- Aquifer response is subtle (as outlined below), and low seasonal water levels make it difficult to demonstrate drawdown during portions of the year.
- The coverage provided by the existing piezometers and monitoring wells is relatively sparse, and the well spacing relative to the HCS extraction wells is not optimum.
- Dense utilities in the area limit safe drilling locations (particularly near ESD-1), and spacing near the ESD wells is maintained to avoid striking the HCS system during drilling.
- HCS well efficiency also varies over time, and regular maintenance (such as flushing) will be required to maintain optimum performance.

3.4.3.2 Hydraulic Response

Pressure transducers have been installed to monitor the system performance and influence on the aquifer system surrounding the HCS. Transducers are installed in 20 monitoring wells and piezometers at the southern 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 are currently equipped with transducers:

- MW-50, MW-62, PZ-01, PZ-08, PZ-14, and PZ-15 record water levels near the northernmost section of the 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 the 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 4Q 2019 show piezometer and monitoring well groundwater elevation response in phase with pumping response, indicating hydraulic communication between the HCS wells and the surrounding aquifer. Hydrographs for each ESD well are provided in **Appendix D.**

3.4.3.3 Groundwater Analytical Trends

To date, up to 12 rounds of groundwater samples have been collected from monitoring wells beginning in 2016 (May 2016, April 2017, July 2017, November 2017, February 2018, May 2018, August 2018, October/November 2018, December 2018 [select wells], February/March 2019, May/June 2019, September 2019, and November 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 the result from monitoring well MW-71, which is located west of the HCS, opposite the primary zone of VOC impact migrating east from the LTP building. Since the installation of this well (April 2017), concentrations have been stable with only estimated detections of total DCE and VC at concentrations less than 1.0 µg/L.

Concentration 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 November 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.

Trend analysis downgradient of the HCS provides 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 E**. 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 exceptions are MW-02 and MW-22, where total DCE show statistically significant increasing trends, and MW-10, where VC shows a statistically significant increasing trend. These two wells are located upgradient of the HCS system along the core of the southern impacted area. Groundwater impacts associated with these two monitoring wells are 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, except for a statistically significant increasing trend at MW-50 immediately adjacent to ESD-1.
- 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, which shows a statistically significant decreasing trend, and MW-69, which shows a statistically significant increasing trend.
    - Review of the trend graph for MW-69, included in **Appendix E**, shows that the VC concentration was 2.8 µg/L in April 2017, fluctuated for several quarters, then increased to 4.1 µg/L in February 2019. Concentrations in June and September of 2019 were 3.6 and 3.5 µg/L, respectively, then increased to 4.2 µg/L in November 2019. This well will continue to be monitored. Although statistically significant, the variability and overall low concentration associated with this dataset does not show a clear upward trend or, by itself, indicate a lack of hydraulic capture.
- Downgradient of the HCS (off site): Concentrations of VC at each monitoring well located off site show no trend, except for MW-75D, MW-79D, MW-80S, and MW-85, which show statistically significant decreasing trends.
    - Review of the trend graph for MW-75D shows that VC concentration was 6.4 µg/L in May 2017. Concentrations have continued to decrease with the most recent sample collected on November 2019, which was 2.2 µg/L
    - Review of the trend graph for MW-79D shows that VC concentration was 4.1 µg/L in May 2017. Concentrations have continued to decrease with the most recent sample collected on November 2019, which was 2.6 µg/L

- Review of the trend graph for MW-80S shows that VC concentration was 7.6 µg/L in May 2017. Concentrations have continued to decrease with the most recent sample collected on November 2019, which was 3.6 µg/L
- Review of the trend graph for MW-85 shows that VC concentration was 8.6 µg/L in May 2017. Concentrations have continued to decrease with the most recent sample collected on November 2019, which was 5.1J µg/L

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 MW-22, VC at MW-10, MW-50, and MW-69), 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 and 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 of compliance samples have been within discharge limits since system startup. Self-Monitoring Reports (SMRs) are submitted to the GLWA every 6 months to document discharge compliance.

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 polychlorinated biphenyls (PCBs)	USEPA 608.3	Non-Detect
Total Toxic Organic Compounds	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). Discharge volumes, documented daily and tabulated monthly, have been within discharge

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limits since system startup. Tabulated discharge volumes for the 4Q 2019 reporting period are presented in **Table 5**.

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 and available upon request.

3.6 Interim Sub-Slab Depressurization System Operation and Performance Monitoring

The SSDS performance is continually evaluated and monitored. Vapor analytical samples are collected monthly 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 and available upon request.

The SSDS operated with minimal downtime during the reporting period. **Exhibit 5** below describes the approximate duration and date of each shutdown. The majority of the downtime was to facilitate repairs to the 12 minor leaks identified during the leak testing of the overhead conveyance piping. The system operated with an uptime of 83.4% during 4Q 2019. Leak testing of the remaining 15 percent of the piping network, and repairs are ongoing and will be summarized in the next quarterly report.

Exhibit 5: SSDS Shutdown Summary – 4Q 2019

Date of Shutdown	Duration of Shutdowns	Summary of Shutdown
14-Oct-19	Less than 3 hours	Field staff were onsite to recalibrate meters, the system was shut down and returned to normal operation the same day. Shutdown time was approximately 2 hours.
11-Nov-19 through 15-Nov-19	Approximately 93 hours	The system was shut down to facilitate leak testing. Total shutdown time was approximately 93 hours.
19-Nov-19 through 27-Nov-19	Approximately 193 hours	The system was shut down to facilitate leak testing. Total shutdown time was approximately 193 hours.
13-Dec-19 through 16-Dec-19	Approximately 73 hours	The system was shut down to facilitate piping repairs identified during leak testing. Total shutdown time was approximately 73 hours.

Exhibit 6 below depicts the cumulative constituent-specific mass removal of VOCs from sub-slab soil vapor through the 4Q 2019 reporting period.

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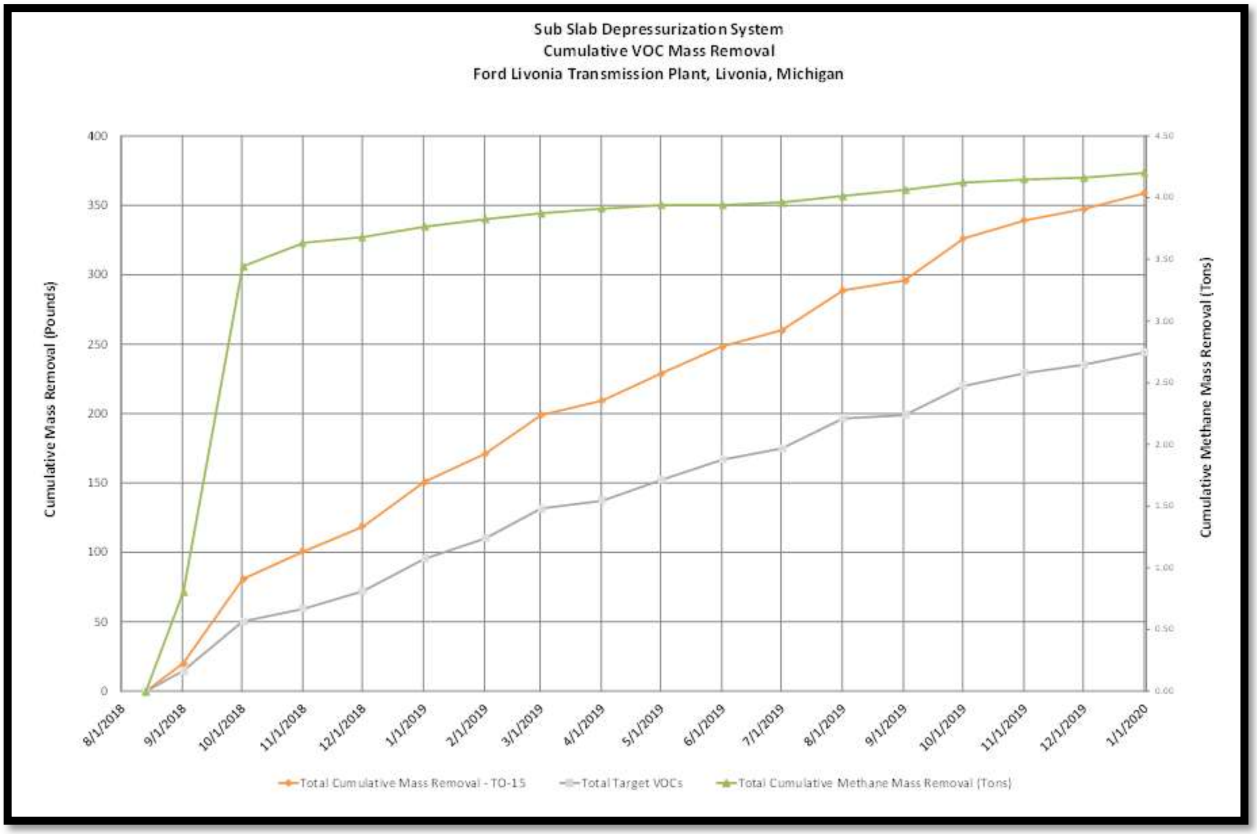
Exhibit 6: SSDS Mass Removal – 4Q 2019



4 ACCESS AGREEMENTS

In 4Q 2019, one access agreement was obtained for the residential property at 12125 Stark Road. Ford continues to negotiate in good faith to obtain access to the remaining residential properties for completion of response activities.

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 Notice of Violation Great Lakes Water Authority

On January 6, 2020, Ford received a Notice of Violation (NOV) from the GLWA. The NOV was due to a compliance water sample exceeding the acceptable hold time. The sample was collected on October 3, 2019 and was to be analyzed for SVOC by Method 8270. Due to a miscommunication with the lab courier, the sample was not picked up and provided to the lab until October 9, 2019. Arcadis received notice from the laboratory on October 10, 2019 that the sample was received by the laboratory, but the laboratory did not inform Arcadis that the sample had exceeded the acceptable hold time. Therefore, the sample was extracted outside of the acceptable hold time, which is 7 days. The following steps will be taken to prevent future extraction hold time errors:

- The project team will collect effluent samples on or before Thursday during the regular (non-holiday) work week. This will allow the lab courier to pick up and overnight samples on or before Friday of that week.
- The project team will inform the courier/laboratory that the samples with short hold times are ready for pickup on the day the sample is collected.
- The project team will review the sample logins to ensure that extraction is within the required hold time window.
- The laboratory has been notified to communicate with the team immediately when there is a hold time issue. If the sample has expired, the lab will notify Arcadis and Ford immediately so that another sample may be collected within the current month.

5.3 Public Outreach

Ford currently has an active website that allows the general public access to project updates: http://www.fordlivoniabostonbeaconproject.com. Additionally, during work implementation, Arcadis continues to communicate with EGLE and off-site property owners.

5.4 List of Reporting Documents

A list of all reporting documents submitted during the 4Q 2019 reporting period is included in **Exhibit 7** below.

Exhibit 7: Submitted Reporting Documents – 4Q 2019

Report Title	Submission Date
Residential Concern Memo	October 31, 2019
EGLE Update Letter	October 31, 2019
Q3 2019 Progress Report	November 8, 2019
Residential Concern Memo	November 27, 2019
EGLE Update Letter	November 27, 2019
Residential Concern Memo	December 31, 2019
EGLE Update Letter	December 31, 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 4Q 2019, 17 soil drums, 17 water drums, one lead paint drum, and four filter media 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
1Q 2020 On-site groundwater sampling	February 2020	March 2020
1Q 2020 Off-site groundwater sampling	February 2020	March 2020
HCS performance monitoring	Monthly	Ongoing
SSDS performance monitoring	Monthly	Ongoing
Off-Site Groundwater Delineation	Ongoing	Ongoing
Off-Site Vapor Intrusion Investigation	Ongoing	Ongoing
Off-Site Mitigation Response	Ongoing	Ongoing

8 REFERENCES

Arcadis. 2017a. Quality Assurance Project Plan for the Ford Livonia Transmission Plant – On-Site. August.

Arcadis. 2017b. Quality Assurance Project Plan for the Ford Livonia Transmission Plant – Off-Site. August.

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

MDEQ. 2018. Part 201 Groundwater: Residential and Nonresidential Part 201 Generic Cleanup Criteria and Screening Levels. Michigan Department of Environmental Quality, Michigan.

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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
			06/14/19	8.21	9.42	11.70	665.77	1.21	664.56	665.53
			09/26/19	8.47	10.90	11.66	665.51	2.43	663.08	665.03
			11/04/19	8.43	10.80	NM	665.55	2.37	663.18	665.08
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
			06/14/19	8.18	9.01	11.70	665.72	0.83	664.89	665.55
			09/26/19	8.32	10.21	11.67	665.58	1.89	663.69	665.20
			11/04/19	8.33	10.50	NM	665.57	2.17	663.40	665.13
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	NM	NM
			02/22/19	6.38	7.49	11.33	663.80	1.11	662.69	663.58
			06/14/19	5.80	6.85	11.73	664.38	1.05	663.33	664.17
			09/26/19	6.44	7.54	NM	663.74	1.10	662.64	663.52
			11/04/19	6.09	7.30	NM	664.09	1.21	662.88	663.85
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
			06/14/19	7.44	8.97	11.22	666.48	1.53	664.95	666.18
			09/26/19	7.62	9.20	11.20	666.30	1.58	664.72	665.99
			11/04/19	Could Not Open						

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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
			11/19/18	8.91	10.38	NM	665.02	1.47	663.55	664.73
			02/22/19	8.99	10.49	11.85	664.94	1.50	663.44	664.64
			06/14/19	8.66	10.00	11.83	665.27	1.34	663.93	665.01
			09/26/19	8.96	10.51	NM	664.97	1.55	663.42	664.66
			11/04/19	8.95	10.38	NM	664.98	1.43	663.55	664.70
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
			11/19/18	6.88	8.40	NM	667.05	1.52	665.53	666.75
			02/22/19	6.79	8.42	11.50	667.14	1.63	665.51	666.82
			06/14/19	6.35	8.10	11.53	667.58	1.75	665.83	667.23
			09/26/19	Could Not Open						
			11/04/19	6.70	8.16	NM	667.23	1.46	665.77	666.94
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
			11/19/18	Could Not Locate						
			02/22/19							
			06/14/19	6.31	6.40	11.70	667.21	0.09	667.12	667.19
			09/26/19	7.30	7.35	NM	666.22	0.05	666.17	666.21
			11/04/19	6.52	6.64	NM	667.00	0.12	666.88	666.98
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
			06/14/19	Could Not Locate						
			09/26/19	6.10	7.74	NM	667.78	1.64	666.14	667.45
			11/04/19	5.80	7.41	NM	668.08	1.61	666.47	667.76

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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	NM	NM**
			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
			06/14/19	Could Not Open						
			09/26/19							
			11/04/19							
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
			11/19/18	Could Not Locate						
			02/22/19	8.34	8.65	11.50	665.55	0.31	665.24	665.49
			06/14/19	Could Not Locate						
			09/26/19							
			11/04/19							
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
			06/14/19	NM	NM	NM	NA	NA	NM	NM
			09/26/19	NP	28.84	100.25	NA	NA	646.33	646.33
			11/04/19	NP	24.33	100.40	NA	NA	650.84	650.84
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
			06/14/19	NP	19.53	99.11	NA	NA	656.22	656.22
			09/26/19	NP	23.12	99.90	NA	NA	652.63	652.63
			11/04/19	NP	20.49	99.89	NA	NA	655.26	655.26

See Notes on Last Page.

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
			06/14/19	Could Not Access, high traffic roadway						
			09/28/19	NP	24.70	94.59	NA	NA	645.33	645.33
			11/04/19	Could Not Access, high traffic roadway						
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)	NM(2)	NM(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
			06/14/19	NP	3.17	18.64	NA	NA	667.60	667.60
			09/26/19	NP	3.65	18.65	NA	NA	667.12	667.12
			11/04/19	NP	NM(2)	NM(2)	NA(2)	NA(2)	NM(2)	NM(2)
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
			06/14/19	NP	6.69	19.50	NA	NA	667.11	667.11
			09/26/19	NP	6.98	19.43	NA	NA	666.82	666.82
			11/04/19	NP	6.88	19.48	NA	NA	666.92	666.92
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
			06/14/19	NP	7.10	18.64	NA	NA	666.51	666.51
			09/26/19	NP	7.36	18.65	NA	NA	666.25	666.25
			11/04/19	NP	7.25	18.63	NA	NA	666.36	666.36

See Notes on Last Page.

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)
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
			06/14/19	NP	7.39	20.15	NA	NA	666.46	666.46
			09/26/19	NP	7.63	20.12	NA	NA	666.22	666.22
			11/04/19	NP	7.69	20.13	NA	NA	666.16	666.16
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	NM	NM
			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
			06/14/19	NP	7.00	19.68	NA	NA	667.40	667.40
			09/27/19	NP	7.28	19.66	NA	NA	667.12	667.12
			11/04/19	Access to clean room not given.						
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
			06/14/19	NP	4.25	22.40	NA	NA	666.64	666.64
			09/26/19	NP	4.88	22.39	NA	NA	666.01	666.01
			11/04/19	NA	4.82	22.35	NA	NA	666.07	666.07
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
			06/14/19	NP	5.42	24.25	NA	NA	665.76	665.76
			09/26/19	NP	5.98	24.24	NA	NA	665.2	665.20
			11/04/19	NP	5.96	24.26	NA	NA	665.22	665.22

See Notes on Last Page.

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)
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
			06/14/19	NP	8.30	20.78	NA	NA	665.48	665.48
			09/26/19	NP	8.63	20.75	NA	NA	665.15	665.15
			11/04/19	NP	8.63	20.75	NA	NA	665.15	665.15
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
			06/14/19	NP	6.91	19.41	NA	NA	664.33	664.33
			09/26/19	NP	6.56	19.29	NA	NA	664.68	664.68
			11/04/19	NP	5.46	19.26	NA	NA	665.78	665.78
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
			06/14/19	NP	6.14	17.82	NA	NA	664.27	664.27
			09/26/19	NP	6.83	17.84	NA	NA	663.58	663.58
			11/04/19	NP	6.69	17.83	NA	NA	663.72	663.72
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	NP	NM	NM	NA	NA	NM	NM
			02/22/19	NP	6.47	19.49	NA	NA	663.18	663.18
			06/14/19	NP	5.31	19.97	NA	NA	664.34	664.34
			09/26/19	NP	5.94	19.99	NA	NA	663.71	663.71
			11/04/19	NP	5.72	19.82	NA	NA	663.93	663.93
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
			06/14/19	NP	4.95	15.42	NA	NA	664.38	664.38
			09/26/19	NP	4.67	15.24	NA	NA	664.66	664.66
			11/04/19	NP	5.65	14.98	NA	NA	663.68	663.68

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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)
MW-21^{S}	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
			06/14/19	NP	6.57	18.60	NA	NA	664.19	664.19
			09/26/19	NP	6.94	17.64	NA	NA	663.82	663.82
	669.72		11/04/19	NP	6.81	17.65	NA	NA	662.91	662.91
MW-22^{S}	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
			06/14/19	NP	6.53	20.48	NA	NA	663.65	663.65
			09/26/19	NP	7.48	20.47	NA	NA	662.70	662.70
	670.20		11/04/19	NP	7.43	20.46	NA	NA	662.77	662.77
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						
			06/14/19	NP	5.33	19.46	NA	NA	663.91	663.91
			09/26/19	NP	6.34	19.48	NA	NA	662.90	662.90
			11/04/19	NP	6.22	19.69	NA	NA	663.02	663.02
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
			06/14/19	NP	9.21	23.73	NA	NA	666.27	666.27
			09/26/19	NP	10.09	23.87	NA	NA	665.39	665.39
			11/04/19	NP	9.95	23.71	NA	NA	665.53	665.53

See Notes on Last Page.

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)
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
			06/14/19	NP	4.89	20.52	NA	NA	670.15	670.15
			09/26/19	NP	6.05	20.50	NA	NA	668.99	668.99
			11/04/19	NP	5.15	20.50	NA	NA	669.89	669.89
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
			06/14/19	NP	5.01	14.05	NA	NA	668.38	668.38
			09/26/19	NP	6.11	14.04	NA	NA	667.28	667.28
			11/04/19	NP	5.30	14.05	NA	NA	668.09	668.09
MW-27*	Well Inaccessible									
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
			06/14/19	NP	3.50	11.65	NA	NA	664.65	664.65
			09/26/19	NP	4.67	11.65	NA	NA	663.48	663.48
			11/04/19	NP	4.01	11.68	NA	NA	664.14	664.14
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
			06/14/19	NM	NM	NM	NA	NA	NM	NM
			09/26/19	NP	5.50	14.90	NA	NA	663.95	663.95
			11/04/19	NP	5.22	19.75(3)	NA	NA	664.23	664.23

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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)
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
			06/14/19	NP	8.50	24.74	NA	NA	662.20	662.20
			09/26/19	NP	9.81	24.65	NA	NA	660.89	660.89
			11/04/19	NP	10.01	24.71	NA	NA	660.69	660.69
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
			06/14/19	NP	8.58	21.68	NA	NA	662.24	662.24
			09/26/19	NP	9.84	21.68	NA	NA	660.98	660.98
			11/04/19	NP	9.91	21.70	NA	NA	660.91	660.91
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
			06/14/19	NP	8.00	22.73	NA	NA	662.43	662.43
			09/26/19	NP	9.26	22.84	NA	NA	661.17	661.17
			11/04/19	NP	9.32	22.84	NA	NA	661.11	661.11
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
			06/14/19	NP	6.90	18.69	NA	NA	663.04	663.04
			09/26/19	NP	8.00	18.41	NA	NA	661.94	661.94
			11/04/19	NP	7.93	18.71	NA	NA	662.01	662.01

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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)
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
			06/14/19	NP	7.95	21.26	NA	NA	662.54	662.54
			09/26/19	NP	9.39	21.28	NA	NA	661.10	661.10
			11/04/19	NP	9.32	20.27(3)	NA	NA	661.17	661.17
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
			06/14/19	NP	6.85	24.35	NA	NA	662.59	662.59
			09/26/19	NP	8.60	23.34	NA	NA	660.84	660.84
			11/04/19	NP	8.45	24.29	NA	NA	660.99	660.99
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
			06/14/19	NP	8.90	24.80	NA	NA	667.49	667.49
			09/26/19	NP	9.65	24.82	NA	NA	666.74	666.74
			11/04/19	NP	9.63	24.83	NA	NA	666.76	666.76
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
			06/14/19	NP	6.67	22.67	NA	NA	664.57	664.57
			09/26/19	NP	7.79	22.68	NA	NA	663.45	663.45
			11/04/19	NP	7.62	22.69	NA	NA	663.62	663.62
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
			06/14/19	NP	6.90	19.50	NA	NA	664.89	664.89
			09/26/19	NP	8.05	19.53	NA	NA	663.74	663.74
			11/04/19	NP	7.92	19.51	NA	NA	663.87	663.87

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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)
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
			06/14/19	NP	9.60	24.19	NA	NA	662.59	662.59
			09/26/19	NP	10.81	24.16	NA	NA	661.38	661.38
			11/04/19	NP	10.86	24.18	NA	NA	661.33	661.33
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
			06/14/19	NP	8.40	19.65	NA	NA	662.25	662.25
			09/26/19	NP	9.66	19.64	NA	NA	660.99	660.99
			11/04/19	NP	9.64	19.52	NA	NA	661.01	661.01
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
			06/14/19	NP	7.80	20.95	NA	NA	662.54	662.54
			09/26/19	NP	9.29	20.78	NA	NA	661.05	661.05
			11/04/19	NP	9.28	20.95	NA	NA	661.06	661.06
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
			06/14/19	NP	7.56	20.44	NA	NA	662.54	662.54
			09/26/19	NP	9.10	20.46	NA	NA	661.00	661.00
			11/04/19	NP	9.13	20.46	NA	NA	660.97	660.97

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Table 1
On-Site Groundwater Elevations
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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)
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
			06/14/19	NP	6.55	21.54	NA	NA	662.69	662.69
			09/26/19	NP	8.45	21.56	NA	NA	660.79	660.79
			11/04/19	NP	8.14	21.53	NA	NA	661.10	661.10
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
			06/14/19	NP	7.38	20.73	NA	NA	664.10	664.10
			09/26/19	NP	8.44	20.75	NA	NA	663.04	663.04
			11/04/19	NP	8.16	20.72	NA	NA	663.32	663.32
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
			06/14/19	NP	9.60	19.79	NA	NA	661.23	661.23
			09/26/19	NP	10.18	20.68	NA	NA	660.65	660.65
			11/04/19	NP	10.52	19.69	NA	NA	660.31	660.31
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
			06/14/19	NP	9.48	19.87	NA	NA	661.36	661.36
			09/26/19	NP	10.35	19.73	NA	NA	660.49	660.49
			11/04/19	NP	10.26	19.70	NA	NA	660.58	660.58

See Notes on Last Page.

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)
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
			06/14/19	NM	NM	NM	NA	NA	NM	NM
			09/26/19	NP	10.23	19.96	NA	NA	661.10	661.10
			11/04/19	NP	10.07	19.92	NA	NA	661.26	661.26
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
			06/14/19	NP	8.64	20.26	NA	NA	662.34	662.34
			09/26/19	NP	9.17	20.26	NA	NA	661.81	661.81
			11/04/19	NP	8.78	20.25	NA	NA	662.20	662.20
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
			06/14/19	NP	6.14	16.86	NA	NA	662.93	662.93
			09/27/19	NP	6.36	17.21	NA	NA	662.71	662.71
			11/04/19	NP	6.28	17.17	NA	NA	662.79	662.79
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
			06/14/19	NP	6.82	14.91	NA	NA	663.34	663.34
			09/26/19	NP	8.03	14.72	NA	NA	662.13	662.13
			11/04/19	NP	7.40	18.78	NA	NA	662.76	662.76

See Notes on Last Page.

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)
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
			06/14/19	NP	6.08	18.89	NA	NA	664.99	664.99
			09/26/19	NP	7.81	18.91	NA	NA	663.26	663.26
			11/04/19	NP	7.12	18.88	NA	NA	663.95	663.95
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
			06/14/19	NP	6.43	19.75	NA	NA	662.73	662.73
			09/26/19	NP	8.58	19.76	NA	NA	660.58	660.58
			11/04/19	NP	8.14	19.44	NA	NA	661.02	661.02
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
			06/14/19	NP	5.98	20.62	NA	NA	662.61	662.61
			09/26/19	NP	8.15	20.64	NA	NA	660.44	660.44
			11/04/19	NP	8.23	20.62	NA	NA	660.36	660.36
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						
			06/14/19	NP	5.90	20.82	NA	NA	662.59	662.59
			09/26/19	NP	8.54	20.51	NA	NA	659.95	659.95
			11/04/19	NP	7.82	20.85	NA	NA	660.67	660.67
MW-54S	668.24	4.5-9.5	06/14/19	NP	2.96	9.25	NA	NA	665.28	665.28
			09/26/19	NP	7.56	9.10	NA	NA	660.68	660.68
			11/04/19	NP	4.83	9.28	NA	NA	663.41	663.41

See Notes on Last Page.

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)
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
			06/14/19	NP	6.95	19.72	NA	NA	663.09	663.09
			09/26/19	NP	9.20	19.56	NA	NA	660.84	660.84
			11/04/19	NP	8.14	19.73	NA	NA	661.90	661.90
MW-55D	670.17	19-24	06/14/19	NP	7.04	23.82	NA	NA	663.13	663.13
			09/26/19	NP	9.46	25.65	NA	NA	660.71	660.71
			11/04/19	NP	8.12	23.45	NA	NA	662.05	662.05
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
			06/14/19	NP	6.68	20.41	NA	NA	663.58	663.58
			09/26/19	NP	8.32	20.40	NA	NA	661.94	661.94
			11/04/19	NP	7.34	20.35	NA	NA	662.92	662.92
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
			06/14/19	NP	5.75	21.66	NA	NA	663.18	663.18
			09/26/19	NP	8.03	21.68	NA	NA	660.90	660.90
			11/04/19	NP	7.13	21.71	NA	NA	661.80	661.80
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
			06/14/19	NP	4.12	19.66	NA	NA	664.61	664.61
			09/26/19	NP	5.75	19.64	NA	NA	662.98	662.98
			11/04/19	NP	5.07	19.64	NA	NA	663.66	663.66

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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)
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
			06/14/19	NP	7.87	21.15	NA	NA	663.19	663.19
			09/26/19	NP	9.14	21.12	NA	NA	661.92	661.92
			11/04/19	NP	8.60	21.12	NA	NA	662.46	662.46
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
			06/19/19	NP	7.55	11.78	NA	NA	662.41	662.41
			09/26/19	NP	8.22	11.78	NA	NA	661.74	661.74
			11/04/19	NP	7.68	11.77	NA	NA	662.28	662.28
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
			06/14/19	NP	8.30	20.00	NA	NA	662.79	662.79
			09/26/19	NP	9.71	20.01	NA	NA	661.38	661.38
			11/04/19	NP	9.45	20.01	NA	NA	661.64	661.64
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
			06/14/19	NP	8.35	21.10	NA	NA	663.63	663.63
			09/26/19	NP	9.57	21.10	NA	NA	662.41	662.41
			11/04/19	NP	9.07	21.08	NA	NA	662.91	662.91
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
			06/14/19	NP	6.45	19.00	NA	NA	663.38	663.38
			09/26/19	NP	7.49	19.02	NA	NA	662.34	662.34
			11/04/19	NP	7.03	18.99	NA	NA	662.80	662.80

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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)
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
			06/14/19	NP	9.02	14.03	NA	NA	662.30	662.30
			09/26/19	NP	9.59	14.00	NA	NA	661.73	661.73
			11/04/19	NP	9.38	14.00	NA	NA	661.94	661.94
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
			06/14/19	NP	8.75	19.85	NA	NA	661.96	661.96
			09/26/19	NP	9.47	19.79	NA	NA	661.24	661.24
			11/04/19	NP	9.35	19.81	NA	NA	661.36	661.36
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
			06/14/19	NM	NM	NM	NA	NA	NM	NM
			09/26/19	NP	9.35	19.92	NA	NA	660.92	660.92
			11/04/19	NP	9.46	19.91	NA	NA	660.81	660.81
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
			06/14/19	NP	9.82	20.09	NA	NA	661.54	661.54
			09/26/19	NP	10.77	20.11	NA	NA	660.59	660.59
			11/04/19	NP	10.91	20.10	NA	NA	660.45	660.45
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
			06/14/19	NP	10.91	20.15	NA	NA	660.13	660.13
			09/26/19	NP	11.12	20.17	NA	NA	659.92	659.92
			11/04/19	NP	11.84	20.15	NA	NA	659.20	659.20

See Notes on Last Page.

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)
MW-113	672.44	5-10	09/26/19	NP	5.20	9.56	NA	NA	667.24	667.24
			11/04/19	NP	4.31	9.56	NA	NA	668.13	668.13
MW-114	670.80	5-10	09/26/19	NP	5.50	9.42	NA	NA	665.30	665.30
			11/04/19	NP	5.39	9.44	NA	NA	665.41	665.41
MW-120	670.35	7-12	09/26/19	NP	6.78	11.74	NA	NA	663.57	663.57
			11/04/19	NP	5.05	11.75	NA	NA	665.30	665.30
MW-122	670.47	16-20	09/26/19	NP	10.01	20.70	NA	NA	660.46	660.46
			11/04/19	NP	8.98	20.19	NA	NA	661.49	661.49
MW-124	670.24	5-10	09/30/19	NP	2.01	9.60	NA	NA	668.23	668.23
			11/04/19	NP	1.17	9.58	NA	NA	669.07	669.07
MW-194[S]	672.47	12-17	11/20/19	NP	2.39	16.15	NA	NA	670.08	670.08
MW-194S[S]	672.67	2-7	11/20/19	NP	2.58	6.53	NA	NA	670.09	670.09
MW-195S[S]	671.99	2-7	11/20/19	NP	1.98	6.20	NA	NA	670.01	670.01
MW-196[S]	672.75	12-17	11/20/19	NP	2.24	17.14	NA	NA	670.51	670.51
MW-196S[S]	673.01	2-7	11/20/19	NP	2.50	6.55	NA	NA	670.51	670.51
MW-197S[S]	675.93	3-8	11/25/19	NP	5.02	7.40	NA	NA	670.91	670.91
MW-198[S]	675.37	12-17	11/25/19	NP	4.28	16.52	NA	NA	671.09	671.09
MW-198S[S]	675.41	2.5-7.5	11/20/19	NP	4.35	7.10	NA	NA	671.06	671.06
MW-199S[S]	672.10	2-7	11/25/19	NP	1.97	5.82	NA	NA	670.13	670.13
MW-200[S]	672.42	15-20	11/21/19	NP	6.41	18.80	NA	NA	666.01	666.01
MW-200S[S]	672.54	5-10	11/21/19	NP	6.35	9.58	NA	NA	666.19	666.19
MW-201[S]	672.22	17-22	11/19/19	NP	5.02	21.47	NA	NA	667.20	667.20
MW-201S[S]	672.30	3.5-8.5	11/19/19	NP	5.16	8.13	NA	NA	667.14	667.14
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
			06/14/19	NP	7.40	21.45	NA	NA	662.83	662.83
			09/26/19	NP	8.46	21.47	NA	NA	661.77	661.77
			11/04/19	NP	8.61	21.57	NA	NA	661.62	661.62
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
			06/14/19	NP	4.78	23.78	NA	NA	665.19	665.19
			09/26/19	NP	6.75	23.70	NA	NA	663.22	663.22
			11/04/19	NP	6.05	23.72	NA	NA	663.92	663.92
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
			06/14/19	NP	6.59	16.62	NA	NA	662.94	662.94
			09/26/19	NP	7.71	16.80	NA	NA	661.82	661.82
			11/04/19	NP	7.58	16.80	NA	NA	661.95	661.95

See Notes on Last Page.

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)
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
			06/14/19	NP	6.36	16.89	NA	NA	663.07	663.07
			09/26/19	NP	7.50	17.15	NA	NA	661.93	661.93
			11/04/19	NP	7.43	17.12	NA	NA	662.00	662.00
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
			06/14/19	NP	4.22	18.74	NA	NA	665.12	665.12
			09/26/19	NP	6.16	18.65	NA	NA	663.18	663.18
			11/04/19	NP	5.44	18.33	NA	NA	663.90	663.90
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
			06/14/19	NP	4.61	18.71	NA	NA	665.19	665.19
			09/26/19	NP	6.53	18.93	NA	NA	663.27	663.27
			11/04/19	NP	5.89	18.91	NA	NA	663.91	663.91
PZ-01	670.88	15-20	02/22/19	NP	8.64	19.42	NA	NA	662.24	662.24
			06/14/19	NP	7.84	19.42	NA	NA	663.04	663.04
			09/26/19	NP	9.57	19.43	NA	NA	661.31	661.31
			11/04/19	NP	9.07	19.43	NA	NA	661.81	661.81
PZ-02	670.67	15-20	02/22/19	NP	8.90	19.70	NA	NA	661.77	661.77
			06/14/19	NP	8.06	19.70	NA	NA	662.61	662.61
			09/26/19	NP	9.20	19.72	NA	NA	661.47	661.47
			11/04/19	NP	9.15	19.70	NA	NA	661.52	661.52
PZ-03	670.62	15-20	02/22/19	NP	9.23	19.68	NA	NA	661.39	661.39
			06/14/19	NP	8.31	19.68	NA	NA	662.31	662.31
			09/26/19	NP	9.48	19.67	NA	NA	661.14	661.14
			11/04/19	NP	9.49	19.68	NA	NA	661.13	661.13
PZ-04	671.03	16-21	02/22/19	NP	10.18	19.75	NA	NA	660.85	660.85
			06/14/19	NP	9.26	20.73	NA	NA	661.77	661.77
			09/26/19	NP	10.56	20.77	NA	NA	660.47	660.47
			11/04/19	NP	12.22	19.74[3]	NA	NA	658.81	658.81
PZ-05	670.92	15-20	02/22/19	NP	10.60	19.63	NA	NA	660.32	660.32
			06/14/19	NP	9.52	19.64	NA	NA	661.40	661.40
			09/26/19	NP	10.25	19.62	NA	NA	660.67	660.67
			11/04/19	NP	10.42	19.63	NA	NA	660.50	660.50
PZ-06	671.82	16-21	02/22/19	NP	10.85	20.97	NA	NA	660.97	660.97
			06/14/19	NP	9.37	20.98	NA	NA	662.45	662.45
			09/26/19	NP	9.94	20.97	NA	NA	661.88	661.88
			11/04/19	NP	9.53	20.92	NA	NA	662.29	662.29

See Notes on Last Page.

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)
PZ-07	670.87	15-20	02/22/19	NP	9.49	19.78	NA	NA	661.38	661.38
			06/14/19	NP	8.41	19.79	NA	NA	662.46	662.46
			09/26/19	NP	9.09	19.79	NA	NA	661.78	661.78
			11/04/19	NP	8.73	19.77	NA	NA	662.14	662.14
PZ-08	668.62	15-20	02/22/19	NP	5.85	19.50	NA	NA	662.77	662.77
			06/14/19	NP	5.31	19.85	NA	NA	663.31	663.31
			09/26/19	NP	7.01	19.88	NA	NA	661.61	661.61
			11/04/19	NP	6.18	19.85	NA	NA	662.44	662.44
PZ-09	671.91	15-20	03/08/19	NP	10.36	19.75	NA	NA	661.55	661.55
			06/14/19	NP	9.47	19.74	NA	NA	662.44	662.44
			09/26/19	NP	10.02	19.76	NA	NA	661.89	661.89
			11/04/19	NP	9.76	19.77	NA	NA	662.15	662.15
PZ-10	671.42	15-20	02/22/19	NP	10.39	19.76	NA	NA	661.03	661.03
			06/14/19	NP	9.59	19.77	NA	NA	661.83	661.83
			09/26/19	NP	10.13	19.78	NA	NA	661.29	661.29
			11/04/19	NP	9.93	19.77	NA	NA	661.49	661.49
PZ-11	671.06	15-20	02/22/19	NP	10.72	19.83	NA	NA	660.34	660.34
			06/14/19	NP	9.52	19.83	NA	NA	661.54	661.54
			09/26/19	NP	10.38	19.83	NA	NA	660.68	660.68
			11/04/19	NP	10.40	19.82	NA	NA	660.66	660.66
PZ-12	671.29	15-20	02/22/19	NP	11.74	19.65	NA	NA	659.55	659.55
			06/14/19	NP	10.63	19.62	NA	NA	660.66	660.66
			09/26/19	NP	11.20	19.62	NA	NA	660.09	660.09
			11/04/19	NP	11.89	19.63	NA	NA	659.40	659.40
PZ-13	671.21	15-20	02/22/19	NP	10.46	18.77	NA	NA	660.75	660.75
			06/14/19	NP	9.60	19.73	NA	NA	661.61	661.61
			09/26/19	NP	10.21	18.76	NA	NA	661.00	661.00
			11/04/19	NP	10.02	18.74	NA	NA	661.19	661.19
PZ-14	670.26	13-18	06/14/19	NP	6.45	17.84	NA	NA	663.81	663.81
			09/26/19	NP	7.81	17.84	NA	NA	662.45	662.45
			11/04/19	NP	7.16	17.84	NA	NA	663.10	663.10
PZ-15	669.28	13-18	06/14/19	NP	5.56	17.32	NA	NA	663.72	663.72
			09/26/19	NP	7.34	17.28	NA	NA	661.94	661.94
			11/04/19	NP	6.41	17.24	NA	NA	662.87	662.87

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 submerged under water.
(3) Monitoring well total depth incorrect due to field measurement error. Confirmed during sampling of the monitoring well.
* 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.
S Monitoring well TOC Surveyed on 11/12/2019 after reinstallation or repairs.

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

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-1										MW-2										
Screen Interval (ft. bgs):			14-19										15.5-20.5										
Date:	Unit		4/26/2017	7/28/2017	11/10/2017	5/11/2018	8/14/2018	10/29/2018	3/1/2019	6/11/2019	9/25/2019	11/15/2019	4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/10/2018	10/26/2018	3/1/2019	6/11/2019	9/25/2019	11/20/2019
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	1.5 J	1.8 J	4.5	4.4	5.7	5.1	4.9	3.9	5.8	4.9	4.9
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	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
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	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
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	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 100	< 200	2.8 J
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 130	< 250	< 330	< 330	< 130	< 710	< 250	< 500	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.33 J	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.37 J	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	1.0 J	< 10	< 10	< 10	< 10	3.8 J	NA	NA	NA	< 250	< 500	< 670	< 670	< 250	< 1,400	< 500	< 1,000	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	1.2 J	NA	NA	NA	< 250	< 500	< 670	< 670	< 250	< 1,400	< 500	< 1,000	NA	NA	NA
Acetone	µg/l	2,100	< 10	4.0 J	< 10	2.8 J	< 10	< 10	28	NA	NA	NA	< 250	< 500	< 670	< 670	< 250	< 1,400	< 500	< 1,000	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 130	< 250	< 330	< 330	< 130	< 710	< 250	< 500	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
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	**630**	**1,200**	**1,000**	**1,400**	**1,700 J**	**2,300**	**1,900**	**2,600**	**3,400**	**3,800**	**3,000**
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 130	< 250	< 330	< 330	< 130	< 710	< 250	< 500	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 50	< 100	< 130	< 130	< 50	< 290	< 100	< 200	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 250	< 500	< 670	< 670	< 250	< 1,400	< 500	< 1,000	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 250	< 500	< 670	< 670	< 250	< 1,400	< 500	< 1,000	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-1										MW-2										
Screen Interval (ft. bgs):			14-19										15.5-20.5										
Date:	Unit		4/26/2017	7/28/2017	11/10/2017	5/11/2018	8/14/2018	10/29/2018	3/1/2019	6/11/2019	9/25/2019	11/15/2019	4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/10/2018	10/26/2018	3/1/2019	6/11/2019	9/25/2019	11/20/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
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	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 100	< 200	< 10
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 50	< 100	< 130	< 130	< 50	< 290	< 100	< 200	NA	NA	NA
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	**200**	**270**	**260**	**390**	**510**	**510**	**530**	**760**	**790**	**840**	**760**
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	NA	NA
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	< 25	< 50	< 67	< 67	< 25	< 140	**8.2 J**	< 100	< 100	**27 J**	3.4 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	**200**	**160**	**140**	**210**	**190**	**170**	**190**	**230**	**190**	**200**	**160**
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:		EGLE Non-Residential Drinking Water Criteria	MW-3											MW-4										
Screen Interval (ft. bgs):			14-19											15.5-20.5										
Date:	Unit		4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	3/1/2019	6/11/2019	9/25/2019	11/19/2019	4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	3/1/2019	6/11/2019	9/25/2019	11/19/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	0.67 J	0.79 J	0.57 J	< 2.0	0.50 J	1.4 J	1.3 J	1.0 J	1.8 J	1.5 J	1.1 J	1.1 J	0.78 J	< 20	0.38 J	0.76 J	< 200	< 200	< 200	1.9 J	1.8 J	< 10
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	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
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	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
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	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1,000	< 1,700	< 100
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5,000	< 5,000	< 5,000	< 8,300	< 5,000 J	< 5,000	< 2,500	< 10,000	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
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	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	0.21 J	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10,000	< 10,000	< 10,000	< 17,000	< 10,000 J	< 10,000	< 5,000	< 20,000	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10,000	< 10,000	< 10,000	< 17,000	< 10,000 J	< 10,000	< 5,000	< 20,000	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10,000	< 10,000	< 10,000	< 17,000	< 10,000 J	< 10,000	< 5,000	< 20,000	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5,000	< 5,000	< 5,000	< 8,300	< 5,000 J	< 5,000	< 2,500	< 10,000	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	0.25 J	< 1.0	**32,000**	**27,000**	**21,000**	**26,000**	**21,000 J**	**22,000**	**24,000**	**21,000**	**6,400**	**18,000**	**18,000**
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5,000	< 5,000	< 5,000	< 8,300	< 5,000 J	< 5,000	< 2,500	< 10,000	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2,000	< 2,000	< 2,000	< 3,300	< 2,000 J	< 2,000	< 1,000	< 4,000	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10,000	< 10,000	< 10,000	< 17,000	< 10,000 J	< 10,000	< 5,000	< 20,000	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10,000	< 10,000	< 10,000	< 17,000	< 10,000 J	< 10,000	< 5,000	< 20,000	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA

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Location:		EGLE Non-Residential Drinking Water Criteria	MW-3											MW-4										
Screen Interval (ft. bgs):			14-19											15.5-20.5										
Date:	Unit		4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	3/1/2019	6/11/2019	9/25/2019	11/19/2019	4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	3/1/2019	6/11/2019	9/25/2019	11/19/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
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	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1,000	< 1,700	< 100
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2,000	< 2,000	< 2,000	< 3,300	< 2,000 J	< 2,000	< 1,000	< 4,000	NA	NA	NA
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	**1,200**	**1,100**	**850 J**	**1,100 J**	**860 J**	**1,000**	**1,100**	**1,000 J**	**310 J**	**770 J**	**790**
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	NA	NA
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	**21,000**	**18,000**	**19,000**	**23,000**	**23,000 J**	**31,000**	**35,000**	**41,000**	**13,000**	**35,000**	**35,000**
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	**570 J**	**640 J**	**470 J**	< 1,700	**610 J**	< 1,000	**610**	**1,100 J**	< 1,000	**670 J**	**870**
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:		EGLE Non-Residential Drinking Water Criteria	MW-5										MW-7									
Screen Interval (ft. bgs):			15.5-20.5										18-23									
Date:	Unit		8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	3/1/2019	6/11/2019	9/27/2019	11/20/2019	7/31/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	02/27/2019	6/10/2019	9/25/2019	11/22/2019
Semi-volatile Organic Compounds (SVOCs)																						
1,4-Dioxane	µg/l	350	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	< 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA
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
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.73 J	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	1.9 J	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	< 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	< 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA

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

Location:	Unit	EGLE Non-Residential Drinking Water Criteria	MW-5										MW-7									
Screen Interval (ft. bgs):			15.5-20.5										18-23									
Date:			8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	3/1/2019	6/11/2019	9/27/2019	11/20/2019	7/31/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	02/27/2019	6/10/2019	9/25/2019	11/22/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Trichloroethene	µg/l	5.0	< 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	< 1.0	< 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	< 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
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
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
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	mg/l	NS	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
Iron	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	µg/l	50	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:		EGLE Non-Residential Drinking Water Criteria	MW-9										MW-10										
Screen Interval (ft. bgs):			19.5-24.5										16.5-21.5										
Date:	Unit		7/28/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	3/1/2019	6/10/2019	9/23/2019	11/21/2019	4/27/2017	8/4/2017	11/9/2017	2/13/2018	5/10/2018	8/9/2018	11/7/2018	3/1/2019	6/11/2019	9/27/2019	11/19/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	8.6	11	12	3.6	4.3	3.9	3.8	5.2	4.2	3.1	5.9	4.5	5.6	4.4	4.4	4.8	5.5	4.5	6.1	5.0	5.6
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	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
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	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
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	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 100	< 200	< 10
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 250	< 330	< 500	< 1,000	< 500	< 710	< 1,300	< 500	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 500	< 670	< 1,000	< 2,000	< 1,000	< 1,400	< 2,500	< 1,000	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 500	< 670	< 1,000	< 2,000	< 1,000	< 1,400	< 2,500	< 1,000	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 500	< 670	< 1,000	< 2,000	< 1,000	< 1,400	< 2,500	< 1,000	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 250	< 330	< 500	< 1,000	< 500	< 710	< 1,300	< 500	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 100	< 200	6.4 J
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 250	< 330	< 500	< 1,000	< 500	< 710	< 1,300	< 500	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 100	< 130	< 200	< 400	< 200	< 290	< 500	< 200	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 500	< 670	< 1,000	< 2,000	< 1,000	< 1,400	< 2,500	< 1,000	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 500	< 670	< 1,000	< 2,000	< 1,000	< 1,400	< 2,500	< 1,000	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-9										MW-10										
Screen Interval (ft. bgs):			19.5-24.5										16.5-21.5										
Date:	Unit		7/28/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	3/1/2019	6/10/2019	9/23/2019	11/21/2019	4/27/2017	8/4/2017	11/9/2017	2/13/2018	5/10/2018	8/9/2018	11/7/2018	3/1/2019	6/11/2019	9/27/2019	11/19/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
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	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 100	< 200	< 10
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 100	< 130	< 200	< 400	< 200	< 290	< 500	< 200	NA	NA	NA
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	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	< 100	< 200	< 10
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 50	< 67	< 100	< 200	< 100	< 140	< 250	< 100	NA	NA	NA
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	< 50	< 67	< 100	< 200	< 100	< 140	< 250	**14 J**	< 100	< 200	< 10
Vinyl chloride	µg/l	2.0	**5.5**	**7.1**	**4.6**	**2.2**	1.7	1.5	0.94 J	1.2	0.98 J	0.81 J	**1,200**	**2,100**	**2,000**	**1,900**	**3,100**	**2,300**	**3,100**	**3,300**	**3,600**	**3,000**	**2,700**
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:		EGLE Non-Residential Drinking Water Criteria	MW-14										MW-15-59D										
Screen Interval (ft. bgs):			15-20										94-99										
Date:	Unit		7/28/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	02/26/2019	6/12/2019	9/23/2019	11/21/2019	4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/15/2018	8/9/2018	10/31/2018	3/5/2019	6/13/2019	9/27/2019	11/22/2019
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	NA	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	3.0 J	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	3.3 J	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	1.6 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	< 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	< 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	0.86 J	0.58 J	0.62 J	0.76 J	0.69 J	0.43 J	0.34 J	0.62 J	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	0.62 J	< 1.0	< 1.0	< 1.0	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:		EGLE Non-Residential Drinking Water Criteria	MW-14										MW-15-59D										
Screen Interval (ft. bgs):			15-20										94-99										
Date:	Unit		7/28/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	02/26/2019	6/12/2019	9/23/2019	11/21/2019	4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/15/2018	8/9/2018	10/31/2018	3/5/2019	6/13/2019	9/27/2019	11/22/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	< 1.0	NA	NA	NA	0.35 J	0.46 J	0.30 J	0.31 J	< 1.0	0.17 J	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	0.25 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.28 J	NA	NA	NA
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	0.13 J	< 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	< 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:		EGLE Non-Residential Drinking Water Criteria	MW-15-60D											MW-15-61D										
Screen Interval (ft. bgs):			93-98											88-93										
Date:	Unit		4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/11/2018	8/7/2018	10/29/2018	3/5/2019	6/13/2019	9/27/2019	11/22/2019	4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/15/2018	8/7/2018	11/1/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019
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	< 2.0	< 2.0	< 2.0	NA	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	12	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	0.57 J	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	0.51 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	0.91 J	0.58 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	0.48 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	0.50 J	< 1.0	< 1.0	< 1.0	0.12 J	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	0.47 J	< 1.0	< 1.0	< 1.0	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-15-60D											MW-15-61D										
Screen Interval (ft. bgs):			93-98											88-93										
Date:	Unit		4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/11/2018	8/7/2018	10/29/2018	3/5/2019	6/13/2019	9/27/2019	11/22/2019	4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/15/2018	8/7/2018	11/1/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	0.33 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	0.28 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	< 1.0	0.31 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

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

Location:		EGLE Non-Residential Drinking Water	MW-18											MW-19								
Screen Interval (ft. bgs):			13-18											15-20								
Date:	Unit	Criteria	4/21/2017	7/28/2017	11/10/2017	2/14/2018	5/8/2018	8/7/2018	10/29/2018	02/26/2019	6/10/2019	9/25/2019	11/12/2019	11/14/2017	2/14/2018	5/14/2018	8/10/2018	10/26/2018	02/28/2019	6/12/2019	9/24/2019	11/20/2019
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	120	130	140	130	150	170	190	350	290
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	6.3	4.8	3.6	4.7	6.6	5.8	NA	NA	NA
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
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	NA*	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	0.26 J	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	0.49 J	0.52 J	0.36 J	0.48 J	0.47 J	0.47 J	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	1.3 J	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	0.87 J	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	3.2 J	5.6 J	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	8.9	6.5	1.7	< 1.0	4.1	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	0.45 J	1.1	0.94 J	0.71 J	1.0	1.6	1.3	0.65 J	0.99 J	1.1
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	1.1 J	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-18											MW-19									
Screen Interval (ft. bgs):			13-18											15-20									
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	6/10/2019	9/25/2019	11/12/2019	11/14/2017	2/14/2018	5/14/2018	8/10/2018	10/26/2018	02/28/2019	6/12/2019	9/24/2019	11/20/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	1.1	1.0	0.91 J	1.0	0.97 J	0.66 J	0.60 J	0.54 J	0.70 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	1.8	1.5	1.3	< 1.0	1.6	1.9	0.73 J	1.2	1.4
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
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
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	mg/l	NS	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
Iron	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	µg/l	50	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:			MW-20										MW-21							
Screen Interval (ft. bgs):			13.5-18.5										13.5-18.5							
Date:	Unit	EGLE Non-Residential Drinking Water Criteria	7/31/2017	11/10/2017	2/12/2018	5/11/2018	8/9/2018	10/29/2018	02/26/2019	6/12/2019	9/26/2019	11/12/2019	2/13/2018	5/15/2018	8/14/2018	10/26/2018	02/26/2019	6/13/2019	9/25/2019	11/13/2019
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	25	5.3	6.5	14	18	6.3	58	45
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	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
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	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
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	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	< 710	< 500	**65 J**
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5,000	< 5,000	< 5,000	< 8,300	< 13,000	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.17 J	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	1.4 J	< 10	< 10	< 10	NA	NA	NA	< 10,000	< 10,000	1,500 J	< 17,000	< 25,000	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	0.81 J	2.0 J	0.63 J	< 10	0.52 J	NA	NA	NA	< 10,000	< 10,000	830 J	< 17,000	< 25,000	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	2.2 J	3.8 J	6.9 J	< 10	< 10	NA	NA	NA	< 10,000	2,100 J	< 10,000	< 17,000	< 25,000	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5,000	< 5,000	< 5,000	< 8,300	< 13,000	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
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	**20,000**	**18,000**	**26,000**	**40,000**	**25,000**	**13,000 J**	**15,000**	**23,000**
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5,000	**560 J**	< 5,000	< 8,300	< 13,000	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2,000	< 2,000	< 2,000	< 3,300	< 5,000	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10,000	< 10,000	< 10,000	< 17,000	< 25,000	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10,000	< 10,000	910 J	< 17,000	< 25,000	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	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:		EGLE Non-Residential Drinking Water Criteria	MW-20										MW-21							
Screen Interval (ft. bgs):			13.5-18.5										13.5-18.5							
Date:	Unit		7/31/2017	11/10/2017	2/12/2018	5/11/2018	8/9/2018	10/29/2018	02/26/2019	6/12/2019	9/26/2019	11/12/2019	2/13/2018	5/15/2018	8/14/2018	10/26/2018	02/26/2019	6/13/2019	9/25/2019	11/13/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000 J	< 1,000	< 1,700	< 2,500	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
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	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	< 710	< 500	< 100
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2,000	< 2,000	< 2,000	< 3,300	< 5,000	NA	NA	NA
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	< 1,000	< 1,000	**190 J**	< 1,700	< 2,500	< 710	< 500	**120**
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	NA	NA
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	**460 J**	< 1,000	< 1,000	**1,900**	**570 J**	< 710	**190 J**	**62 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	**5,400**	**3,700**	**3,400**	**7,800**	**5,600**	**2,400**	**3,000**	**6,600**
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
Other																				
Carbon, Dissolved	mg/l	NS	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
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	mg/l	NS	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
Iron	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	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location:		EGLE Non-Residential Drinking Water Criteria	MW-22											MW-23									
Screen Interval (ft. bgs):			16.5-21.5											15-20									
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	6/10/2019	9/19/2019	11/12/2019	8/3/2017	11/7/2017	2/6/2018	5/7/2018	8/6/2018	10/30/2018	2/25/2019	6/10/2019	9/24/2019	11/11/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	32	26	49	22	34	19	37	23	40	3.0	12	0.50 J	< 20	< 20	< 2.0	< 200	< 200	NS	< 2.0 J	< 2.0 J	0.35 J
Volatile Organic Compounds (VOCs)																							
1,1,1-Trichloroethane	µg/l	200	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
1,1-Dichloroethene	µg/l	7.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 200	1.6	1.3 J	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1,000	< 2,500	**21 J**
1,2,3-Trimethylbenzene	µg/l	NS	< 310	< 500	< 250	< 710	< 330	< 250	< 500	< 250	NA	NA	NA	< 5,000	< 10,000	< 5,000	< 500	< 13,000	< 13,000	NS	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 630	< 1,000	< 500	< 1,400	< 670	< 500	< 1,000	< 500	NA	NA	NA	< 10,000	< 20,000	< 10,000	< 1,000	< 25,000	< 25,000	NS	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 630	< 1,000	< 500	< 1,400	< 670	< 500	< 1,000	< 500	NA	NA	NA	< 10,000	< 20,000	< 10,000	< 1,000	< 25,000	< 25,000	NS	NA	NA	NA
Acetone	µg/l	2,100	< 630	< 1,000	< 500	< 1,400	< 670	< 500	< 1,000	< 500	NA	NA	NA	< 10,000	< 20,000	< 10,000	< 1,000	< 25,000	< 25,000	NS	NA	NA	NA
Benzene	µg/l	5.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Bromodichloromethane	µg/l	80	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Bromoform	µg/l	80	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Bromomethane	µg/l	29	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 310	< 500	< 250	< 710	< 330	< 250	< 500	< 250	NA	NA	NA	< 5,000	< 10,000	< 5,000	< 500	< 13,000	< 13,000	NS	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
CFC-11	µg/l	7,300	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
CFC-12	µg/l	4,800	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Chlorobenzene	µg/l	100	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Chloroethane	µg/l	1,700	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Chloroform	µg/l	80	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Chloromethane	µg/l	1,100	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	**130**	**210**	25 J	**200**	**180**	**310**	**180 J**	**190**	**120 J**	**390**	**230**	**21,000**	**78,000**	**33,000**	**2,400**	**43,000**	**66,000**	NS	**23,000**	**43,000**	**15,000**
cis-1,3-Dichloropropene	µg/l	NS	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Cyclohexane	µg/l	NS	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Dichloromethane	µg/l	5.0	**140 J**	< 500	< 250	**120 J**	< 330	< 250	< 500	< 250	NA	NA	NA	< 5,000	< 10,000	**750 J**	< 500	< 13,000	< 13,000	NS	NA	NA	NA
Diethyl ether	µg/l	10	< 130	< 200	< 100	< 290	< 130	< 100	< 200	< 100	NA	NA	NA	< 2,000	< 4,000	< 2,000	< 200	< 5,000	< 5,000	NS	NA	NA	NA
Ethylbenzene	µg/l	74	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Methyl Acetate	µg/l	NS	< 630	< 1,000	< 500	< 1,400	< 670	< 500	< 1,000	< 500	NA	NA	NA	< 10,000	< 20,000	< 10,000	< 1,000	< 25,000	< 25,000	NS	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 630	< 1,000	< 500	< 1,400	< 670	< 500	< 1,000	< 500	NA	NA	NA	< 10,000	< 20,000	< 10,000	< 1,000	< 25,000	< 25,000	NS	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-22											MW-23									
Screen Interval (ft. bgs):			16.5-21.5											15-20									
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	6/10/2019	9/19/2019	11/12/2019	8/3/2017	11/7/2017	2/6/2018	5/7/2018	8/6/2018	10/30/2018	2/25/2019	6/10/2019	9/24/2019	11/11/2019
Methyl-tert-butylether	µg/l	40	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Tetrachloroethene	µg/l	5.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 200	< 1.0	< 2.0	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1,000	< 2,500	< 50
Toluene	µg/l	790	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Total Xylenes	µg/l	280	< 130	< 200	< 100	< 290	< 130	< 100	< 200	< 100	NA	NA	NA	< 2,000	< 4,000	< 2,000	< 200	< 5,000	< 5,000	NS	NA	NA	NA
trans-1,2-Dichloroethene	µg/l	100	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 200	2.5	1.6 J	**1,200**	**4,100**	**1,800**	**180**	**2,300 J**	**3,000**	NS	**1,000**	**1,600 J**	**500**
trans-1,3-Dichloropropene	µg/l	NS	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	NA	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA	NA	NA
Trichloroethene	µg/l	5.0	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 200	0.25 J	< 2.0	**5,300**	**25,000**	**11,000**	**1,000**	**12,000**	**18,000**	NS	**7,000**	**11,000**	**2,800**
Vinyl chloride	µg/l	2.0	**2,300**	**2,100**	**1,600**	**1,500**	**2,400**	**1,300**	**2,600 J**	**1,700**	**2,600**	**830**	**860**	**1,100**	**2,400**	**820 J**	**77 J**	< 2,500	**1,600 J**	NS	**670 J**	**1,600 J**	**380**
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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Location:		EGLE Non-Residential Drinking Water Criteria	MW-24											MW-25										
Screen Interval (ft. bgs):			19-24											16-21										
Date:	Unit		4/26/2017	8/2/2017	11/10/2017	2/14/2018	5/14/2018	8/14/2018	10/29/2018	3/1/2019	6/11/2019	9/23/2019	11/22/2019	4/21/2017	8/2/2017	11/14/2017	2/13/2018	5/9/2018	8/13/2018	10/29/2018	02/27/2019	6/10/2019	9/25/2019	11/15/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	< 2.0	0.26 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.75 J	1.1 J	0.86 J	0.68 J	0.99 J	1.9 J	3.2	4.5	4.3	4.9	6.6
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	1.7 J	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	0.77 J	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	< 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	< 1.0	< 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	0.88 J	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-24											MW-25										
Screen Interval (ft. bgs):			19-24											16-21										
Date:	Unit		4/26/2017	8/2/2017	11/10/2017	2/14/2018	5/14/2018	8/14/2018	10/29/2018	3/1/2019	6/11/2019	9/23/2019	11/22/2019	4/21/2017	8/2/2017	11/14/2017	2/13/2018	5/9/2018	8/13/2018	10/29/2018	02/27/2019	6/10/2019	9/25/2019	11/15/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	< 1.0	< 1.0	< 1.0	< 1.0	< 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

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-26									MW-28									
Screen Interval (ft. bgs):			4.5-14.5									2-12									
Date:	Unit		8/4/2017	11/14/2017	5/15/2018	8/9/2018	10/26/2018	02/28/2019	6/13/2019	9/25/2019	11/15/2019	8/3/2017	11/8/2017	2/7/2018	5/15/2018	8/13/2018	10/31/2018	02/26/2019	6/11/2019	9/24/2019	11/14/2019
Semi-volatile Organic Compounds (SVOCs)																					
1,4-Dioxane	µg/l	350	0.25 J	< 2.0	< 2.0	< 2.0	< 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	< 2.0	0.93 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	NA	NA	NA	28	26	25	24	37	35	15	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	NA	NA	NA	14	12	10	13	15	15	7.9	NA	NA	NA
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.87 J	< 1.0	0.71 J	1.6	0.90 J	0.57 J	0.33 J	0.43 J	0.40 J	1.8	1.2	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 20	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 20	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 20	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
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	1.1	0.91 J	0.50 J	0.43 J	0.86 J	0.51 J	0.24 J	0.22 J	0.98 J	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	3.1 J	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 20	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 20	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-26									MW-28									
Screen Interval (ft. bgs):			4.5-14.5									2-12									
Date:	Unit		8/4/2017	11/14/2017	5/15/2018	8/9/2018	10/26/2018	02/28/2019	6/13/2019	9/25/2019	11/15/2019	8/3/2017	11/8/2017	2/7/2018	5/15/2018	8/13/2018	10/31/2018	02/26/2019	6/11/2019	9/24/2019	11/14/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 2.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
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	0.22 J	< 2.0	< 1.0	0.16 J	0.27 J	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	NA	NA	NA
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 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Trichloroethene	µg/l	5.0	< 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	0.43 J	0.64 J	< 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	< 2.0	0.33 J	< 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
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
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
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	mg/l	NS	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
Iron	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	µg/l	50	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:	Unit	EGLE Non-Residential Drinking Water Criteria	MW-29											MW-30										
Screen Interval (ft. bgs):			5-15											19-24										
Date:			4/26/2017	8/4/2017	11/14/2017	2/14/2018	5/14/2018	8/9/2018	10/26/2018	02/28/2019	6/12/2019	9/25/2019	11/20/2019	4/25/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019
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	< 2.0	0.92 J	0.60 J	10	11	13	12	14	15	15	15	13	14	9.2
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA*	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.18 J	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	4.4 J	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	3.4 J	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA

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Location:		**EGLE Non-Residential Drinking Water Criteria**	**MW-29**											**MW-30**										
Screen Interval (ft. bgs):			**5-15**											**19-24**										
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**	**6/12/2019**	**9/25/2019**	**11/20/2019**	**4/25/2017**	**7/27/2017**	**11/9/2017**	**2/13/2018**	**5/8/2018**	**8/10/2018**	**11/1/2018**	**3/2/2019**	**6/15/2019**	**9/28/2019**	**11/23/2019**
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	0.20 J	< 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
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.50	NA	0.31 J	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.50	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	65	NA	360	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	2.6	NA	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	< 0.10	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	52	NA	53	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	2.1	NA	2.4	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	< 100	NA	**3,700**	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**630**	NA	**3,700**	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**77**	NA	**150**	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**70**	NA	**150**	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:		EGLE Non-Residential Drinking Water Criteria	MW-31											MW-32									
Screen Interval (ft. bgs):			17-22											18-23									
Date:	Unit		4/21/2017	7/28/2017	11/10/2017	2/14/2018	5/8/2018	8/10/2018	11/1/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019	7/28/2017	11/7/2017	2/12/2018	5/8/2018	8/7/2018	11/7/2018	02/28/2019	6/11/2019	9/24/2019	11/14/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	< 2.0	0.47 J	< 2.0	< 2.0	< 2.0	< 2.0	< 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
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	0.31 J	0.37 J	0.50 J	0.32 J	0.38 J	0.48 J	0.43 J	0.48 J	3.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-31											MW-32									
Screen Interval (ft. bgs):			17-22											18-23									
Date:	Unit		4/21/2017	7/28/2017	11/10/2017	2/14/2018	5/8/2018	8/10/2018	11/1/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019	7/28/2017	11/7/2017	2/12/2018	5/8/2018	8/7/2018	11/7/2018	02/28/2019	6/11/2019	9/24/2019	11/14/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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
Vinyl chloride	µg/l	2.0	< 1.0	0.68 J	0.84 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.67 J	< 1.0	< 1.0	< 1.0	0.38 J	0.39 J	0.35 J	0.43 J	0.70 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:		EGLE Non-Residential Drinking Water Criteria	MW-33										MW-34										
Screen Interval (ft. bgs):			14-19										16.5-21.5										
Date:	Unit		7/28/2017	11/8/2017	2/14/2018	5/8/2018	8/9/2018	11/2/2018	02/27/2019	6/11/2019	9/25/2019	11/8/2019	4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019
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	8.3	6.1	6.6	7.4	4.9	7.6	6.7	6.9	5.6	7.2	5.5
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.17 J	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	2.7 J	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	0.37 J	0.35 J	< 1.0	< 1.0	0.33 J	0.44 J	0.32 J	< 1.0	0.64 J	0.66 J
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-33										MW-34										
Screen Interval (ft. bgs):			14-19										16.5-21.5										
Date:	Unit		7/28/2017	11/8/2017	2/14/2018	5/8/2018	8/9/2018	11/2/2018	02/27/2019	6/11/2019	9/25/2019	11/8/2019	4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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
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	0.52 J	1.5	2.0	0.97 J	0.87 J	1.1	1.2	0.85 J	0.89 J	**2.2**	1.8
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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Location:	Unit	EGLE Non-Residential Drinking Water Criteria	MW-35										MW-36									
Screen Interval (ft. bgs):			19.5-24.5										20-25									
Date:			7/27/2017	11/7/2017	2/14/2018	5/9/2018	8/10/2018	11/1/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019	7/28/2017	11/10/2017	2/15/2018	5/14/2018	8/14/2018	10/29/2018	3/1/2019	6/11/2019	9/25/2019	11/21/2019
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	5.2	5.0	2.8	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	1.7 J	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	0.89 J	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.32 J	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	1.1 J	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-35										MW-36									
Screen Interval (ft. bgs):			19.5-24.5										20-25									
Date:	Unit		7/27/2017	11/7/2017	2/14/2018	5/9/2018	8/10/2018	11/1/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019	7/28/2017	11/10/2017	2/15/2018	5/14/2018	8/14/2018	10/29/2018	3/1/2019	6/11/2019	9/25/2019	11/21/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.14 J	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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
Vinyl chloride	µg/l	2.0	**3.5**	**2.4**	**4.5**	**7.2**	**3.0**	1.8	**4.1**	**6.7**	**2.6**	**3.2**	< 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
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
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
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	mg/l	NS	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
Iron	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	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location:		EGLE Non-Residential Drinking Water Criteria	MW-37										MW-38										
Screen Interval (ft. bgs):			18-23										15-20										
Date:	Unit		8/1/2017	11/10/2017	2/12/2018	5/10/2018	8/9/2018	10/31/2018	02/27/2019	6/12/2019	9/25/2019	11/14/2019	4/26/2017	7/28/2017	11/8/2017	2/15/2018	5/8/2018	8/9/2018	11/1/2018	02/27/2019	6/11/2019	9/25/2019	11/8/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	0.37 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	< 2.0	< 2.0	< 2.0	0.39 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.17 J	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	2.9	< 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water	MW-37										MW-38										
Screen Interval (ft. bgs):			18-23										15-20										
Date:	Unit	Criteria	8/1/2017	11/10/2017	2/12/2018	5/10/2018	8/9/2018	10/31/2018	02/27/2019	6/12/2019	9/25/2019	11/14/2019	4/26/2017	7/28/2017	11/8/2017	2/15/2018	5/8/2018	8/9/2018	11/1/2018	02/27/2019	6/11/2019	9/25/2019	11/8/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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
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	< 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

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-39											MW-40								
Screen Interval (ft. bgs):			20-25											20-25								
Date:	Unit		4/26/2017	7/28/2017	11/7/2017	2/15/2018	5/8/2018	8/7/2018	11/1/2018	02/28/2019	6/11/2019	9/24/2019	11/8/2019	7/28/2017	11/15/2017	5/8/2018	8/10/2018	11/1/2018	2/25/2019	6/15/2019	9/28/2019	11/23/2019
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	NS	< 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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	NS	< 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	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	NS	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	NS	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	NS	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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	2.7	3.2	2.3 J	2.4	2.6	NS	2.2	2.8	3.2
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NS	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	NS	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	NS	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	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:		EGLE Non-Residential Drinking Water Criteria	MW-39											MW-40									
Screen Interval (ft. bgs):			20-25											20-25									
Date:	Unit		4/26/2017	7/28/2017	11/7/2017	2/15/2018	5/8/2018	8/7/2018	11/1/2018	02/28/2019	6/11/2019	9/24/2019	11/8/2019	7/28/2017	11/15/2017	5/8/2018	8/10/2018	11/1/2018	2/25/2019	6/15/2019	9/28/2019	11/23/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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	NS	< 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NS	NA	NA	NA
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	0.41 J	0.48 J	0.34 J	0.37 J	0.39 J	NS	0.37 J	0.43 J	0.46 J
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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	NS	< 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	0.77 J	1.8	1.3 J	0.54 J	1.4	NS	0.26 J	0.90 J	0.70 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
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
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
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	mg/l	NS	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
Iron	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	µg/l	50	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:		EGLE Non-Residential Drinking Water Criteria	MW-41											MW-42										
Screen Interval (ft. bgs):			16-21											16-21										
Date:	Unit		4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019	4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/9/2018	8/10/2018	11/1/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019
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	1.2 J	1.5 J	1.3 J	1.8 J	2.4	1.8 J	2.2	2.3	2.6	3.1	2.5	3.0	2.4
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	1.9	1.8	2.3	2.1	2.6	2.5	2.9	3.1	2.0	2.0	2.8	< 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA

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Location:			MW-41											MW-42										
Screen Interval (ft. bgs):			16-21											16-21										
Date:	Unit	EGLE 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	3/2/2019	6/15/2019	9/28/2019	11/23/2019	4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/9/2018	8/10/2018	11/1/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
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	0.24 J	0.37 J	< 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	0.13 J	< 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**	1.9	1.5	**2.7**	0.81 J	0.99 J	1.0	0.81 J	0.99 J	0.60 J	0.60 J	0.70 J	0.67 J	0.92 J	1.1
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
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:		EGLE Non-Residential Drinking Water Criteria	MW-43											MW-44										
Screen Interval (ft. bgs):			17-22											16-21										
Date:	Unit		4/27/2017	7/27/2017	11/9/2017	2/13/2018	5/9/2018	8/10/2018	11/1/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019	4/25/2017	8/2/2017	11/7/2017	2/6/2018	5/14/2018	8/13/2018	10/30/2018	02/25/2019	6/11/2019	9/19/2019	11/12/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	3.6	3.5	3.5	2.2	2.8	3.3	4.0	3.3	2.7	4.4	3.6	12	7.1	12	9.0	11	9.5	2.7	5.7	14	14	12
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	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
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	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
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	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 20	< 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	NA	NA	NA	< 31	< 50	< 100	< 33	< 67	< 100	< 100	< 100	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
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	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 63	< 100	< 200	< 67	< 130	< 200	< 200	< 200	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 63	< 100	< 200	< 67	< 130	< 200	< 200	< 200	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 63	< 100	< 200	< 67	< 130	< 200	< 200	< 200	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 31	< 50	< 100	< 33	< 67	< 100	< 100	< 100	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
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	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 20	< 1.0	0.28 J
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	**8.3 J**	< 50	**18 J**	4.1 J	**9.7 J**	< 100	< 100	< 100	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 13	< 20	< 40	< 13	< 27	< 40	< 40	< 40	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 63	< 100	< 200	< 67	< 130	< 200	< 200	< 200	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 63	< 100	< 200	< 67	< 130	< 200	< 200	< 200	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA

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

Location:	Unit	EGLE Non-Residential Drinking Water Criteria	MW-43											MW-44										
Screen Interval (ft. bgs):			17-22											16-21										
Date:			4/27/2017	7/27/2017	11/9/2017	2/13/2018	5/9/2018	8/10/2018	11/1/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019	4/25/2017	8/2/2017	11/7/2017	2/6/2018	5/14/2018	8/13/2018	10/30/2018	02/25/2019	6/11/2019	9/19/2019	11/12/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
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	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 20	< 1.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 13	< 20	< 40	< 13	< 27	< 40	< 40	< 40	NA	NA	NA
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	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 20	< 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	NA	NA	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA	NA	NA
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	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 20	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	**8.4**	**3.0**	**2.2**	**8.0**	**6.4 J**	1.0	0.71 J	**3.4**	1.5	< 1.0	0.33 J	**230**	**380**	**520**	**210**	**270**	**240**	**240**	**180**	**180**	**270**	**340**
Gases																								
Ethane	µg/l	NS	0.48 J	NA	0.74 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	< 0.50	NA	0.27 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	190	NA	210	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	4.4	NA	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	< 0.50	NA	< 0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	220	NA	**260**	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	4.0	NA	4.3	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	**1,700**	NA	**2,800**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	**2,500**	NA	**3,900**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	**210**	NA	**190**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	**210**	NA	**200**	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:		EGLE Non-Residential Drinking Water Criteria	MW-45											MW-46										
Screen Interval (ft. bgs):			15-20											16-21										
Date:	Unit		4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/8/2018	8/9/2018	11/2/2018	02/26/2019	6/11/2019	9/27/2019	11/8/2019	4/24/2017	7/31/2017	11/13/2017	2/12/2018	5/14/2018	8/9/2018	11/2/2018	02/26/2019	6/11/2019	9/25/2019	11/7/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	4.1	2.5	< 2.0	< 2.0	0.40 J	1.0 J	1.1 J	< 2.0	0.94 J	< 2.0	0.45 J	21	0.83 J	3.7	11	13	8.5	7.0	3.0	11	4.8	7.7
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	1.9 J	2.8	3.6	2.4	1.0 J	1.3	0.80 J	0.32 J	NA	NA	NA
1,1-Dichloroethene	µg/l	7.0	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 25	< 25	0.37 J	< 5.0	0.78 J	0.90 J	0.46 J	< 1.7	< 1.0	< 1.0	< 1.0	< 3.3	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 2,500	< 2,500	< 330	< 500	< 330	< 170	< 50	< 83	NA	NA	NA	< 25	< 5.0	< 13	< 5.0	< 8.4	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	0.55 J	< 1.7	0.57 J	0.21 J	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	0.21 J	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 5,000	< 5,000	< 670	< 1,000	< 670	< 330	< 100	< 170	NA	NA	NA	< 50	< 10	< 25	< 10	< 17	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 5,000	< 5,000	< 670	< 1,000	< 670	< 330	< 100	< 170	NA	NA	NA	< 50	< 10	< 25	< 10	< 17	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 5,000	< 5,000	< 670	< 1,000	< 670	< 330	< 100	< 170	NA	NA	NA	< 50	< 10	< 25	< 10	< 17	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 2,500	< 2,500	< 330	< 500	< 330	< 170	< 50	< 83	NA	NA	NA	< 25	< 5.0	< 13	< 5.0	< 8.4	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	**10,000**	**8,100**	**2,100**	**1,800**	**1,200**	**1,000**	**640**	**340**	**310**	**160**	**150**	21	15	22	14	6.0	11	4.6	1.4	4.0	5.0	5.5
cis-1,3-Dichloropropene	µg/l	NS	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	**330 J**	< 2,500	< 330	< 500	< 330	< 170	< 50	< 83	NA	NA	NA	4.1 J	< 5.0	< 13	< 5.0	< 8.4	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 1,000	< 1,000	< 130	< 200	< 130	< 67	5.0 J	< 33	NA	NA	NA	< 10	< 2.0	< 5.0	< 2.0	< 3.3	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 5,000	< 5,000	< 670	< 1,000	< 670	< 330	< 100	< 170	NA	NA	NA	< 50	< 10	< 25	< 10	< 17	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 5,000	< 5,000	< 670	< 1,000	< 670	< 330	< 100	< 170	NA	NA	NA	< 50	< 10	< 25	< 10	< 17	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-45											MW-46										
Screen Interval (ft. bgs):			15-20											16-21										
Date:	Unit		4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/8/2018	8/9/2018	11/2/2018	02/26/2019	6/11/2019	9/27/2019	11/8/2019	4/24/2017	7/31/2017	11/13/2017	2/12/2018	5/14/2018	8/9/2018	11/2/2018	02/26/2019	6/11/2019	9/25/2019	11/7/2019
Methyl-tert-butylether	µg/l	40	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	7.9	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Tetrachloroethene	µg/l	5.0	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 25	< 25	< 1.0	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	< 3.3	< 1.0	< 1.0
Toluene	µg/l	790	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 1,000	< 1,000	< 130	< 200	< 130	< 67	< 20	< 33	NA	NA	NA	< 10	< 2.0	< 5.0	< 2.0	< 3.3	< 2.0	< 2.0	< 2.0	NA	NA	NA
trans-1,2-Dichloroethene	µg/l	100	< 500	< 500	< 67	< 100	< 67	< 33	6.5 J	< 17	< 25	< 25	0.60 J	1.6 J	2.6	2.7	1.7	0.86 J	1.2	0.56 J	0.20 J	< 3.3	0.53 J	0.91 J
trans-1,3-Dichloropropene	µg/l	NS	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	NA	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	NA	NA
Trichloroethene	µg/l	5.0	< 500	< 500	< 67	< 100	< 67	< 33	2.7 J	< 17	< 25	< 25	< 1.0	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	< 3.3	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	**7,600**	**5,400**	**1,500**	**1,200**	**1,400**	**800**	**420**	**380**	**540**	**310**	**210**	**150**	**13**	**57**	**38**	**30**	**66**	**32**	**17**	**87**	**20**	**32**
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:		EGLE Non-Residential Drinking Water Criteria	MW-47										MW-48										
Screen Interval (ft. bgs):			16-21										17-22										
Date:	Unit		4/24/2017	7/31/2017	11/10/2017	5/10/2018	8/9/2018	10/25/2018	02/28/2019	6/12/2019	9/25/2019	11/6/2019	4/21/2017	8/1/2017	11/14/2017	2/12/2018	5/15/2018	8/6/2018	10/25/2018	3/4/2019	6/13/2019	9/20/2019	11/6/2019
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	< 2.0	< 2.0	< 2.0	9.5	2.1	7.7	12	6.2	6.5	1.6 J	< 2.0	5.3	2.5
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethene	µg/l	7.0	< 5.0	< 4.0	< 10	< 5.0 J	0.43 J	< 5.0	< 2.5	< 4.0	0.59 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
1,2,3-Trimethylbenzene	µg/l	NS	< 25	< 20	< 50	< 25 J	< 8.4	< 25	< 13	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 50	< 40	< 100	< 50 J	< 17	< 50	< 25	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.5 J	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 50	< 40	< 100	< 50 J	< 17	< 50	< 25	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 50	< 40	< 100	< 50 J	< 17	< 50	< 25	NA	NA	NA	< 10	< 10	5.1 J	< 10	3.8 J	< 10	< 10	8.4 J	NA	NA	NA
Benzene	µg/l	5.0	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 25	< 20	< 50	< 25 J	< 8.4	< 25	< 13	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	69	69	**79**	49 J	55	48	32	25	32	28	< 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	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	3.4 J	< 20	< 50	< 25 J	< 8.4	< 25	< 13	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 10	< 8.0	< 20	< 10 J	< 3.3	< 10	< 5.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 50	< 40	< 100	< 50 J	< 17	< 50	< 25	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 50	< 40	< 100	< 50 J	< 17	< 50	< 25	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-47										MW-48										
Screen Interval (ft. bgs):			16-21										17-22										
Date:	Unit		4/24/2017	7/31/2017	11/10/2017	5/10/2018	8/9/2018	10/25/2018	02/28/2019	6/12/2019	9/25/2019	11/6/2019	4/21/2017	8/1/2017	11/14/2017	2/12/2018	5/15/2018	8/6/2018	10/25/2018	3/4/2019	6/13/2019	9/20/2019	11/6/2019
Methyl-tert-butylether	µg/l	40	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Tetrachloroethene	µg/l	5.0	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 4.0	< 1.0	< 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	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 10	< 8.0	< 20	< 10 J	< 3.3	< 10	< 5.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
trans-1,2-Dichloroethene	µg/l	100	7.1	8.6	9.3 J	6.5 J	7.2	7.1	5.4	5.3	5.6	5.2	< 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	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Trichloroethene	µg/l	5.0	< 5.0	< 4.0	< 10	< 5.0 J	< 1.7	< 5.0	< 2.5	< 4.0	< 1.0	< 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	**120**	**110**	**220**	**88 J**	**59**	**100**	**44**	**120**	**94**	**96**	0.85 J	**11**	**5.2**	**3.8**	**7.4**	**5.3**	**6.6**	0.24 J	< 1.0	1.6	0.57 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	6,000	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:		EGLE Non-Residential Drinking Water Criteria	MW-49										MW-50										
Screen Interval (ft. bgs):			12.5-17.5										16-21										
Date:	Unit		4/21/2017	7/28/2017	2/13/2018	5/11/2018	8/14/2018	10/30/2018	02/27/2019	6/11/2019	9/27/2019	11/13/2019	4/21/2017	7/31/2017	11/13/2017	2/12/2018	5/9/2018	8/6/2018	10/24/2018	02/27/2019	6/12/2019	9/20/2019	11/5/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	12	9.4	7.0	5.5	5.0	5.4	8.1	6.1	8.9	15	1.5 J	2.2	0.68 J	0.78 J	2.8	1.7 J	2.8	3.6	3.3	3.1	2.0
Volatile Organic Compounds (VOCs)																							
1,1,1-Trichloroethane	µg/l	200	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	0.48 J	< 5.0	< 6.7	NA	NA	NA
1,1-Dichloroethene	µg/l	7.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	< 710	< 2,500	**48 J**	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	0.26 J	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 10,000	< 5,000	< 8,300	< 8,300	< 2,500	< 5,000	< 13,000	NA	NA	NA	< 25	< 20	< 25	< 25	< 25	< 5.0	< 25	< 33	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 20,000	< 10,000	< 17,000	< 17,000	< 5,000	< 10,000	< 25,000	NA	NA	NA	< 50	< 40	< 50	< 50	< 50	< 10	< 50	< 67	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 20,000	< 10,000	< 17,000	< 17,000	< 5,000	< 10,000	< 25,000	NA	NA	NA	< 50	< 40	< 50	< 50	< 50	< 10	< 50	< 67	NA	NA	NA
Acetone	µg/l	2,100	< 20,000	< 10,000	< 17,000	**3,900 J**	< 5,000	< 10,000	< 25,000	NA	NA	NA	< 50	< 40	< 50	< 50	< 50	< 10	< 50	< 67	NA	NA	NA
Benzene	µg/l	5.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Bromodichloromethane	µg/l	80	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Bromoform	µg/l	80	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Bromomethane	µg/l	29	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 10,000	< 5,000	< 8,300	< 8,300	< 2,500	< 5,000	< 13,000	NA	NA	NA	< 25	< 20	< 25	< 25	< 25	< 5.0	< 25	< 33	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
CFC-11	µg/l	7,300	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
CFC-12	µg/l	4,800	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Chlorobenzene	µg/l	100	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Chloroethane	µg/l	1,700	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Chloroform	µg/l	80	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Chloromethane	µg/l	1,100	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	**43,000**	**29,000**	**20,000**	**17,000**	**15,000**	**22,000**	**37,000**	**19,000**	**28,000**	**23,000**	13	15	23	22	12	17	16	20	9.4	5.2	5.8
cis-1,3-Dichloropropene	µg/l	NS	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Cyclohexane	µg/l	NS	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Dichloromethane	µg/l	5.0	**1,100 J**	< 5,000	< 8,300	**940 J**	< 2,500	< 5,000	< 13,000	NA	NA	NA	< 25	< 20	< 25	3.5 J	< 25	< 5.0	< 25	< 33	NA	NA	NA
Diethyl ether	µg/l	10	< 4,000	< 2,000	< 3,300	< 3,300	< 1,000	< 2,000	< 5,000	NA	NA	NA	< 10	< 8.0	< 10	< 10	< 10	< 2.0	< 10	< 13	NA	NA	NA
Ethylbenzene	µg/l	74	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Methyl Acetate	µg/l	NS	< 20,000	< 10,000	< 17,000	< 17,000	< 5,000	< 10,000	< 25,000	NA	NA	NA	< 50	< 40	< 50	< 50	< 50	< 10	< 50	< 67	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 20,000	< 10,000	< 17,000	< 17,000	< 5,000	< 10,000	< 25,000	NA	NA	NA	< 50	< 40	< 50	< 50	< 50	< 10	< 50	< 67	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-49										MW-50										
Screen Interval (ft. bgs):			12.5-17.5										16-21										
Date:	Unit		4/21/2017	7/28/2017	2/13/2018	5/11/2018	8/14/2018	10/30/2018	02/27/2019	6/11/2019	9/27/2019	11/13/2019	4/21/2017	7/31/2017	11/13/2017	2/12/2018	5/9/2018	8/6/2018	10/24/2018	02/27/2019	6/12/2019	9/20/2019	11/5/2019
Methyl-tert-butylether	µg/l	40	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Tetrachloroethene	µg/l	5.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	< 710	< 2,500	< 50	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Total Xylenes	µg/l	280	< 4,000	< 2,000	< 3,300	< 3,300	< 1,000	< 2,000	< 5,000	NA	NA	NA	< 10	< 8.0	< 10	< 10	< 10	< 2.0	< 10	< 13	NA	NA	NA
trans-1,2-Dichloroethene	µg/l	100	< 2,000	< 1,000	< 1,700	< 1,700	**110 J**	< 1,000	< 2,500	< 710	< 2,500	**150**	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	0.31 J	< 5.0	< 6.7	0.31 J	< 1.0	0.25 J
trans-1,3-Dichloropropene	µg/l	NS	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	NA	NA
Trichloroethene	µg/l	5.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	< 710	< 2,500	< 50	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	**10,000**	**9,800**	**8,400**	**8,100**	**4,900**	**8,400**	**9,100**	**7,100**	**8,100**	**7,800**	**48**	**140**	**150**	**76**	**150**	**97**	**99**	**170**	**200**	**120**	**120**
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:		EGLE Non-Residential Drinking Water Criteria	MW-51											MW-52									
Screen Interval (ft. bgs):			15-20											15-20									
Date:	Unit		4/25/2017	8/3/2017	11/9/2017	2/8/2018	5/14/2018	8/6/2018	10/30/2018	3/1/2019	6/12/2019	9/24/2019	11/15/2019	7/27/2017	11/10/2017	2/13/2018	5/9/2018	8/10/2018	10/31/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	0.75 J	1.2 J	1.1 J	1.1 J	0.49 J	1.6 J	2.5	1.5 J	2.2	3.2	2.1	1.3 J	0.68 J	1.2 J	0.30 J	1.8 J	2.7	1.9 J	1.2 J	1.1 J	0.64 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	0.41 J	0.72 J	0.70 J	0.84 J	0.45 J	0.77 J	1.0	0.57 J	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA*	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	0.24 J	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.40 J	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.18 J	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	3.9 J	< 10	< 10	< 10	NA	NA	NA	2.2 J	< 10	< 10	2.7 J	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	0.31 J	< 1.0	0.37 J	0.33 J	0.22 J	0.16 J	< 1.0	0.36 J	< 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-51											MW-52									
Screen Interval (ft. bgs):			15-20											15-20									
Date:	Unit		4/25/2017	8/3/2017	11/9/2017	2/8/2018	5/14/2018	8/6/2018	10/30/2018	3/1/2019	6/12/2019	9/24/2019	11/15/2019	7/27/2017	11/10/2017	2/13/2018	5/9/2018	8/10/2018	10/31/2018	3/2/2019	6/15/2019	9/28/2019	11/23/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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
Vinyl chloride	µg/l	2.0	0.57 J	0.97 J	0.47 J	< 1.0	0.70 J	0.40 J	0.39 J	0.29 J	0.36 J	0.28 J	0.61 J	**7.0**	**9.1**	**4.0**	**4.3**	**4.5**	**5.0**	**3.9**	**3.4**	**5.9**	**4.7**
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:		EGLE Non-Residential Drinking Water Criteria	MW-53											MW-54									
Screen Interval (ft. bgs):			16-21											16-21									
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	6/10/2019	9/28/2019	11/20/2019	7/27/2017	11/8/2017	2/7/2018	5/9/2018	8/13/2018	10/31/2018	2/25/2019	6/10/2019	9/27/2019	11/19/2019
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	2.5	1.5 J	1.3 J	1.5 J	2.0	2.7	1.7 J	1.4 J	2.6	NS	3.0	2.2	2.4
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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	< 1.0	< 1.0	< 1.0	NS	< 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	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	NS	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	0.18 J	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	NS	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	NS	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	NS	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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	< 1.0	< 1.0	< 1.0	NS	< 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 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NS	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	NS	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	NS	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-53											MW-54									
Screen Interval (ft. bgs):			16-21											16-21									
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	6/10/2019	9/28/2019	11/20/2019	7/27/2017	11/8/2017	2/7/2018	5/9/2018	8/13/2018	10/31/2018	2/25/2019	6/10/2019	9/27/2019	11/19/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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	< 1.0	< 1.0	< 1.0	NS	< 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NS	NA	NA	NA
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	< 1.0	< 1.0	< 1.0	NS	< 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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	< 1.0	< 1.0	< 1.0	NS	< 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	< 1.0	0.84 J	0.80 J	0.88 J	1.5	1.2	0.98 J	0.34 J	0.85 J	NS	0.87 J	0.84 J	1.2
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
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:		EGLE Non-Residential Drinking Water Criteria	MW-54S				MW-55										MW-55D		
Screen Interval (ft. bgs):			4.5-9.5				15-20										19-24		
Date:	Unit		4/29/2019	6/10/2019	9/27/2019	11/19/2019	7/27/2017	11/8/2017	2/7/2018	5/10/2018	8/13/2018	10/31/2018	02/27/2019	6/11/2019	9/25/2019	11/20/2019	6/11/2019	9/25/2019	11/20/2019
Semi-volatile Organic Compounds (SVOCs)																			
1,4-Dioxane	µg/l	350	< 2.0	< 2.0	< 2.0	< 2.0	1.2 J	1.4 J	0.96 J	1.2 J	1.1 J	1.6 J	< 2.0	1.2 J	< 2.0	0.65 J	2.8	2.6	1.8 J
Volatile Organic Compounds (VOCs)																			
1,1,1-Trichloroethane	µg/l	200	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	µg/l	7.0	< 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
1,2,3-Trimethylbenzene	µg/l	NS	NA	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA
Acetone	µg/l	2,100	NA	NA	NA	NA	< 10	< 10	< 10	2.7 J	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA
Benzene	µg/l	5.0	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Bromodichloromethane	µg/l	80	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Bromoform	µg/l	80	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Bromomethane	µg/l	29	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Carbon Disulfide	µg/l	2,300	NA	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
CFC-11	µg/l	7,300	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
CFC-12	µg/l	4,800	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Chlorobenzene	µg/l	100	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	µg/l	80	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Chloroethane	µg/l	1,700	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Chloroform	µg/l	80	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Chloromethane	µg/l	1,100	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	0.26 J	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0	< 1.0	0.89 J	< 1.0	< 1.0	0.79 J	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/l	NS	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Dichloromethane	µg/l	5.0	NA	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	NA	NA	NA
Diethyl ether	µg/l	10	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	NA	NA	NA
Ethylbenzene	µg/l	74	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Isopropylbenzene	µg/l	2,300	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Methyl Acetate	µg/l	NS	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA
Methylcyclohexane	µg/l	NS	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	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:		EGLE Non-Residential Drinking Water Criteria	MW-54S				MW-55										MW-55D		
Screen Interval (ft. bgs):			4.5-9.5				15-20										19-24		
Date:	Unit		4/29/2019	6/10/2019	9/27/2019	11/19/2019	7/27/2017	11/8/2017	2/7/2018	5/10/2018	8/13/2018	10/31/2018	02/27/2019	6/11/2019	9/25/2019	11/20/2019	6/11/2019	9/25/2019	11/20/2019
Methyl-tert-butylether	µg/l	40	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Styrene (Monomer)	µg/l	100	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Tetrachloroethene	µg/l	5.0	< 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
Toluene	µg/l	790	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Total Xylenes	µg/l	280	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	µg/l	100	< 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
trans-1,3-Dichloropropene	µg/l	NS	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/l	5.0	< 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
Vinyl chloride	µg/l	2.0	< 1.0	< 1.0	< 1.0 J	< 1.0	0.84 J	0.65 J	< 1.0	0.48 J	0.39 J	0.57 J	0.54 J	0.48 J	0.58 J	0.50 J	0.34 J	< 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

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

Location:	Unit	EGLE Non-Residential Drinking Water Criteria	MW-56											MW-57									
Screen Interval (ft. bgs):			16-21											17-22									
Date:			4/24/2017	7/28/2017	11/8/2017	2/14/2018	5/9/2018	8/13/2018	10/31/2018	02/27/2019	6/11/2019	9/25/2019	11/20/2019	7/27/2017	11/7/2017	2/9/2018	5/9/2018	8/6/2018	10/25/2018	02/28/2019	6/11/2019	9/27/2019	11/19/2019
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	3.7	2.4	0.49 J	4.6	4.9	4.9	3.9	4.5	4.6	3.1	3.6	3.3	1.8 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.16 J	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	2.7 J	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	1.8 J	< 10	< 10	< 10	< 10	< 10	12	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	0.27 J	0.34 J	0.86 J	< 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	2.6 J	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-56											MW-57									
Screen Interval (ft. bgs):			16-21											17-22									
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	6/11/2019	9/25/2019	11/20/2019	7/27/2017	11/7/2017	2/9/2018	5/9/2018	8/6/2018	10/25/2018	02/28/2019	6/11/2019	9/27/2019	11/19/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.11 J	0.12 J	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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
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	0.21 J	< 1.0	< 1.0	0.59 J	0.56 J	0.39 J	0.64 J	0.88 J	0.77 J	0.90 J	0.96 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:	Unit	EGLE Non-Residential Drinking Water Criteria	MW-58										MW-62										
Screen Interval (ft. bgs):			15-20										16.3-21.3										
Date:			7/28/2017	11/8/2017	2/7/2018	5/14/2018	8/13/2018	10/31/2018	3/1/2019	6/11/2019	9/25/2019	11/14/2019	4/21/2017	7/31/2017	11/13/2017	2/6/2018	5/9/2018	8/6/2018	10/24/2018	02/27/2019	6/12/2019	9/27/2019	11/5/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	10	8.0	9.6	3.6	2.2	3.9	6.2	11	8.6	9.0	2.8	3.7	3.7	2.1	1.5 J	3.1	2.3	2.4	2.0	3.1	3.0
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA*	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	4.4 J	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	1.6	< 1.0	0.30 J	0.30 J	0.83 J	< 1.0	0.23 J	0.33 J	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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-58										MW-62										
Screen Interval (ft. bgs):			15-20										16.3-21.3										
Date:	Unit		7/28/2017	11/8/2017	2/7/2018	5/14/2018	8/13/2018	10/31/2018	3/1/2019	6/11/2019	9/25/2019	11/14/2019	4/21/2017	7/31/2017	11/13/2017	2/6/2018	5/9/2018	8/6/2018	10/24/2018	02/27/2019	6/12/2019	9/27/2019	11/5/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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
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	1.3	< 1.0	1.0	1.3	1.2	0.66 J	1.0	0.73 J	0.62 J	0.65 J	1.5
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:	Unit	EGLE Non-Residential Drinking Water Criteria	MW-63												MW-64										
Screen Interval (ft. bgs):			7-12												15-20										
Date:			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	6/12/2019	9/20/2019	11/5/2019	4/24/2017	7/27/2017	11/7/2017	2/9/2018	5/10/2018	8/13/2018	11/5/2018	02/28/2019	6/11/2019	9/27/2019	11/15/2019
Semi-volatile Organic Compounds (SVOCs)																									
1,4-Dioxane	µg/l	350	19	NA	0.36 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.32 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.50 J
Volatile Organic Compounds (VOCs)																									
1,1,1-Trichloroethane	µg/l	200	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethene	µg/l	7.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	< 500	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10,000	< 10,000	< 1,000	< 100	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10,000	< 10,000	< 1,000	< 100	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10,000	< 10,000	< 1,000	< 100	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5,000	< 5,000	< 500	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	< 1,000	< 1,000	< 100	< 10	1.7	2.5	3.3	2.2	1.8	2.9	1.4	1.3	< 1.0	0.37 J	0.31 J	0.30 J	< 1.0	0.29 J	0.32 J	0.23 J	0.25 J	< 1.0	0.29 J
cis-1,3-Dichloropropene	µg/l	NS	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5,000	< 5,000	< 500	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2,000	< 2,000	< 200	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1,000	< 1,000	< 100	5.6 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10,000	< 10,000	< 1,000	< 100	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10,000	< 10,000	< 1,000	< 100	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	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:		EGLE Non-Residential Drinking Water Criteria	MW-63												MW-64										
Screen Interval (ft. bgs):			7-12												15-20										
Date:	Unit		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	6/12/2019	9/20/2019	11/5/2019	4/24/2017	7/27/2017	11/7/2017	2/9/2018	5/10/2018	8/13/2018	11/5/2018	02/28/2019	6/11/2019	9/27/2019	11/15/2019
Methyl-tert-butylether	µg/l	40	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	**13,000**	**13,000**	**3,900**	**320**	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Tetrachloroethene	µg/l	5.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2,000	< 2,000	< 200	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
trans-1,2-Dichloroethene	µg/l	100	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	0.30 J	0.29 J	< 1.0	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
trans-1,3-Dichloropropene	µg/l	NS	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Trichloroethene	µg/l	5.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	**2.4**	**4.8**	**7.0**	**6.7**	1.3	**5.9**	**3.0**	**3.4**	1.7	**9.9**	**7.3**
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:	Unit	EGLE Non-Residential Drinking Water Criteria	MW-65											MW-66										
Screen Interval (ft. bgs):			16-21											15-20										
Date:			4/25/2017	8/2/2017	11/8/2017	2/6/2018	5/10/2018	8/8/2018	10/30/2018	02/28/2019	6/12/2019	9/18/2019	11/5/2019	4/25/2017	8/2/2017	11/13/2017	2/12/2018	5/10/2018	8/8/2018	11/2/2018	3/4/2019	6/10/2019	9/19/2019	11/5/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	3.8	3.1	3.8	3.4	2.1	1.8 J	2.9	2.6	3.8	4.2	4.2	0.76 J	0.99 J	0.49 J	1.3 J	< 2.0	< 2.0	1.1 J	1.2 J	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	0.35 J	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1-Dichloroethene	µg/l	7.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 10	< 20	< 10	< 10	< 10	< 5.0	< 10	< 13	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 20	< 40	< 20	< 20	< 20	< 10	< 20	< 25	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 20	< 40	< 20	< 20	< 20	< 10	< 20	< 25	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 20	< 40	< 20	< 20	< 20	< 10	< 20	< 25	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 10	< 20	< 10	< 10	< 10	< 5.0	< 10	< 13	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.39 J	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	3.3	4.1	3.9	4.1	6.0	6.2	7.0	5.9	4.9	4.1	4.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 10	< 20	< 10	1.5 J	< 10	< 5.0	< 10	< 13	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 4.0	< 8.0	< 4.0	< 4.0	< 4.0	< 2.0	< 4.0	< 5.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 20	< 40	< 20	< 20	< 20	< 10	< 20	< 25	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 20	< 40	< 20	< 20	< 20	< 10	< 20	< 25	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA

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Location:		EGLE Non-Residential Drinking Water Criteria	MW-65											MW-66										
Screen Interval (ft. bgs):			16-21											15-20										
Date:	Unit		4/25/2017	8/2/2017	11/8/2017	2/6/2018	5/10/2018	8/8/2018	10/30/2018	02/28/2019	6/12/2019	9/18/2019	11/5/2019	4/25/2017	8/2/2017	11/13/2017	2/12/2018	5/10/2018	8/8/2018	11/2/2018	3/4/2019	6/10/2019	9/19/2019	11/5/2019
Methyl-tert-butylether	µg/l	40	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Tetrachloroethene	µg/l	5.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 4.0	< 8.0	< 4.0	< 4.0	< 4.0	< 2.0	< 4.0	< 5.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
trans-1,2-Dichloroethene	µg/l	100	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Trichloroethene	µg/l	5.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	**61**	**49**	**48**	**36**	**41**	**35**	**48**	**34**	**41**	**25**	**45**	**5.6**	**5.4**	**3.0**	**2.7**	**2.4**	**3.2**	1.2	**3.2**	1.5	< 1.0	0.81 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:		EGLE Non-Residential Drinking Water Criteria	MW-67											MW-68										
Screen Interval (ft. bgs):			9-14											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	6/13/2019	9/20/2019	11/6/2019	4/24/2017	8/1/2017	11/10/2017	2/12/2018	5/15/2018	8/9/2018	10/25/2018	02/27/2019	6/12/2019	9/25/2019	11/7/2019
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	< 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	< 2.0	< 2.0	0.57 J
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
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	NA	NA	NA	1.6	1.7	3.7	2.0	1.4	1.9	2.1	1.4	NA	NA	NA
1,1-Dichloroethene	µg/l	7.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 3.3	< 1.0	0.34 J	< 1.0	< 1.0	0.39 J	< 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	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 100	< 40	< 50	< 33	< 10	< 25	< 33	< 25	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 100	< 40	< 50	< 33	< 10	< 25	< 33	< 25	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 100	< 40	< 50	< 33	3.5 J	< 25	< 33	< 25	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 50	< 20	< 25	< 17	< 5.0	< 13	< 17	< 13	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	47	36	15	9.6	5.7	4.5	5.6	5.6	< 3.3	8.9	9.7	20	18	13	13	10	13	17	31	31	32	40
cis-1,3-Dichloropropene	µg/l	NS	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 50	< 20	< 25	1.8 J	< 5.0	< 13	< 17	< 13	NA	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 20	< 8.0	< 10	< 6.7	< 2.0	< 5.0	< 6.7	< 5.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 100	< 40	< 50	< 33	< 10	< 25	< 33	< 25	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 100	< 40	< 50	< 33	< 10	< 25	< 33	< 25	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA

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Location:		EGLE Non-Residential Drinking Water Criteria	MW-67											MW-68										
Screen Interval (ft. bgs):			9-14											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	6/13/2019	9/20/2019	11/6/2019	4/24/2017	8/1/2017	11/10/2017	2/12/2018	5/15/2018	8/9/2018	10/25/2018	02/27/2019	6/12/2019	9/25/2019	11/7/2019
Methyl-tert-butylether	µg/l	40	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Tetrachloroethene	µg/l	5.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	< 3.3	< 1.0	< 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	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 20	< 8.0	< 10	< 6.7	< 2.0	< 5.0	< 6.7	< 5.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA
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	< 3.3	1.7	1.7	1.9	1.9	1.5	1.8	1.4	1.7	2.1	3.6	4.0	4.2	5.3
trans-1,3-Dichloropropene	µg/l	NS	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5	< 3.3	< 2.5	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA
Trichloroethene	µg/l	5.0	**94**	**91**	**110**	**83**	**57**	**60**	**69**	**41**	< 3.3	**70**	**70**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	0.26 J	< 1.0	0.50 J
Vinyl chloride	µg/l	2.0	**14**	< 4.0	< 5.0	< 3.3	1.3	< 2.5	< 3.3	1.7 J	< 3.3	0.72 J	0.91 J	**12**	**2.1**	**18**	**2.5**	**2.1**	**2.2**	**2.1**	**17**	**19**	**6.8**	**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
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:		EGLE Non-Residential Drinking Water Criteria	MW-69										MW-70										
Screen Interval (ft. bgs):			15-20										15-20										
Date:	Unit		4/25/2017	11/10/2017	2/14/2018	5/10/2018	8/13/2018	11/6/2018	02/28/2019	6/12/2019	9/23/2019	11/21/2019	4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/14/2018	8/9/2018	11/2/2018	02/26/2019	6/11/2019	9/26/2019	11/7/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	12	35	23	7.3	7.1	12	5.0	6.7	5.3	4.1	0.76 J	0.68 J	1.1 J	0.91 J	3.0	1.6 J	2.2	6.5	3.9	4.2	5.2
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	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
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	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	2.4 J	3.3 J	3.4 J	< 13	2.2 J	< 13	2.5 J	2.3 J	NA	NA	NA
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	< 6.7	< 10	< 10	< 13	2.1 J	< 13	1.3 J	< 10	< 10	< 5.0	1.5
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 33	< 50	< 50	< 67	NA*	< 63	< 20	< 50	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	2.5 J	< 13	< 4.0	< 10	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	0.79 J	< 13	< 4.0	< 10	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 67	< 100	< 100	< 130	< 33	< 130	< 40	< 100	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 67	< 100	< 100	< 130	< 33	< 130	< 40	< 100	NA	NA	NA
Acetone	µg/l	2,100	4.4 J	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 67	< 100	< 100	< 130	15 J	< 130	< 40	< 100	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 33	< 50	< 50	< 67	< 17	< 63	< 20	< 50	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	0.23 J	0.22 J	0.30 J	**190**	**200**	**200**	**230**	**260**	**200**	**250**	**290**	**150**	**220**	**300**
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	**8.9 J**	< 50	< 50	< 67	< 17	< 63	< 20	< 50	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 13	< 20	< 20	< 27	< 6.7	< 25	1.8 J	< 20	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 67	< 100	< 100	< 130	< 33	< 130	< 40	< 100	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	< 67	< 100	< 100	< 130	< 33	< 130	< 40	< 100	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	MW-69										MW-70										
Screen Interval (ft. bgs):			15-20										15-20										
Date:	Unit		4/25/2017	11/10/2017	2/14/2018	5/10/2018	8/13/2018	11/6/2018	02/28/2019	6/12/2019	9/23/2019	11/21/2019	4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/14/2018	8/9/2018	11/2/2018	02/26/2019	6/11/2019	9/26/2019	11/7/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
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	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 10	< 5.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	< 13	< 20	< 20	< 27	< 6.7	< 25	< 8.0	< 20	NA	NA	NA
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	3.8 J	4.2 J	5.1 J	4.4 J	3.0 J	3.3 J	4.4	3.8 J	2.4 J	2.1 J	3.2
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	NA	NA
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	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 10	< 5.0	< 1.0
Vinyl chloride	µg/l	2.0	**2.8**	< 1.0	< 1.0	**3.3**	**2.7**	1.4	**4.1**	**3.6**	**3.5**	**4.2**	**120**	**100**	**140**	**160**	**210**	**190**	**210**	**350**	**230**	**340**	**440**
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:	Unit	EGLE Non-Residential Drinking Water Criteria	MW-71											MW-113				MW-114				MW-120			
Screen Interval (ft. bgs):			15-20											5-10				5-10				7-12			
Date:			4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/8/2018	8/9/2018	11/6/2018	02/27/2019	6/11/2019	9/27/2019	11/7/2019	4/23/2019	6/12/2019	9/25/2019	11/15/2019	4/23/2019	6/13/2019	9/25/2019	11/15/2019	4/23/2019	6/15/2019	9/28/2019	11/23/2019
Semi-volatile Organic Compounds (SVOCs)																									
1,4-Dioxane	µg/l	350	4.3	1.4 J	0.72 J	0.57 J	0.38 J	0.95 J	1.1 J	< 2.0	1.6 J	1.3 J	1.3 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
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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.16 J	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	0.39 J	0.37 J	0.40 J	0.34 J	0.36 J	0.30 J	0.42 J	0.41 J	0.61 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
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	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:		EGLE Non-Residential Drinking Water Criteria	MW-71											MW-113				MW-114				MW-120			
Screen Interval (ft. bgs):			15-20											5-10				5-10				7-12			
Date:	Unit		4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/8/2018	8/9/2018	11/6/2018	02/27/2019	6/11/2019	9/27/2019	11/7/2019	4/23/2019	6/12/2019	9/25/2019	11/15/2019	4/23/2019	6/13/2019	9/25/2019	11/15/2019	4/23/2019	6/15/2019	9/28/2019	11/23/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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 J	< 1.0	< 1.0	< 1.0	< 1.0 J	< 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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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	3.7	4.3	**5.9**	4.8
Vinyl chloride	µg/l	2.0	< 1.0	0.68 J	0.83 J	0.59 J	0.59 J	< 1.0	0.31 J	0.40 J	0.77 J	0.41 J	0.83 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
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:		EGLE Non-Residential Drinking Water Criteria	MW-122			MW-124				MW-194	MW-194S	MW-195S	MW-196	MW-196S	MW-197S	MW-198	MW-198S	MW-199S	MW-200	MW-200S	MW-201	MW-201S
Screen Interval (ft. bgs):			16-21			5-10				12-17	2-7	2-7	12-17	2-7	3-8	12-17	2.5-7.5	2-7	15-20	5-10	17-22	3.5-8.5
Date:	Unit		6/10/2019	9/25/2019	11/20/2019	4/23/2019	6/13/2019	9/30/2019	11/15/2019	11/20/2019	11/20/2019	11/20/2019	11/20/2019	11/20/2019	11/25/2019	11/25/2019	11/20/2019	11/25/2019	11/21/2019	11/21/2019	11/19/2019	11/19/2019
Semi-volatile Organic Compounds (SVOCs)																						
1,4-Dioxane	µg/l	350	NS	1.9 J	0.93 J	< 2.0	< 2.0	< 2.0	< 2.0	1.5 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.6	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																						
1,1,1-Trichloroethane	µg/l	200	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	µg/l	7.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	0.73 J	< 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	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	µg/l	2,100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	µg/l	5.0	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	µg/l	80	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	µg/l	80	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	µg/l	29	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	µg/l	2,300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CFC-11	µg/l	7,300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CFC-12	µg/l	4,800	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	µg/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	µg/l	80	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	µg/l	1,700	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	µg/l	80	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	µg/l	1,100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	NS	< 1.0	< 1.0	1.7	1.8	2.1	2.3	< 1.0	< 1.0	**120**	**210**	68	10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichloromethane	µg/l	5.0	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	µg/l	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	µg/l	74	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	µg/l	2,300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	µg/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	µg/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location:		EGLE Non-Residential Drinking Water Criteria	MW-122			MW-124				MW-194	MW-194S	MW-195S	MW-196	MW-196S	MW-197S	MW-198	MW-198S	MW-199S	MW-200	MW-200S	MW-201	MW-201S
Screen Interval (ft. bgs):			16-21			5-10				12-17	2-7	2-7	12-17	2-7	3-8	12-17	2.5-7.5	2-7	15-20	5-10	17-22	3.5-8.5
Date:	Unit		6/10/2019	9/25/2019	11/20/2019	4/23/2019	6/13/2019	9/30/2019	11/15/2019	11/20/2019	11/20/2019	11/20/2019	11/20/2019	11/20/2019	11/25/2019	11/25/2019	11/20/2019	11/25/2019	11/21/2019	11/21/2019	11/19/2019	11/19/2019
Methyl-tert-butylether	µg/l	40	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene (Monomer)	µg/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	µg/l	5.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	µg/l	280	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	µg/l	100	NS	< 1.0	< 1.0	0.19 J	0.26 J	0.24 J	0.27 J	< 1.0	< 1.0	**150**	55	1.7	0.43 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/l	5.0	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3,400**	**490**	**78**	**14**	< 1.0	0.43 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	NS	**2.4**	**2.6**	0.32 J	0.40 J	< 1.0	0.19 J	< 1.0	< 1.0	**16**	< 2.0	< 1.0	**2.1**	< 1.0	< 1.0	0.33 J	< 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
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
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
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	mg/l	NS	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
Iron	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	µg/l	50	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:		EGLE Non-Residential Drinking Water Criteria	PW-16-01										PW-16-02									
Screen Interval (ft. bgs):			9.7-19.7										6-21									
Date:	Unit		8/2/2017	11/7/2017	2/7/2018	5/15/2018	8/6/2018	10/30/2018	02/26/2019	6/10/2019	9/24/2019	11/11/2019	8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019	6/11/2019	9/27/2019	11/14/2019
Semi-volatile Organic Compounds (SVOCs)																						
1,4-Dioxane	µg/l	350	< 2.0	14	0.76 J	< 2.0	< 2.0	1.3 J	< 2.0	3.0	1.3 J	< 2.0	0.51 J	< 2.0	< 2.0	< 2.0	1.5 J	1.4 J	< 2.0	< 2.0	1.4 J	< 2.0
Volatile Organic Compounds (VOCs)																						
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	< 100	< 100	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 1,000	< 71	< 71	< 200	< 200	< 5.0	NA	NA	NA	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 2,000	< 140	< 140	< 400	< 400	< 10	NA	NA	NA	< 50	< 10	< 10	< 10	< 10	< 20	< 10	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 2,000	< 140	< 140	< 400	< 400	< 10	NA	NA	NA	< 50	< 10	< 10	< 10	< 10	< 20	< 10	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 2,000	< 140	32 J	< 400	< 400	< 10	NA	NA	NA	< 50	< 10	< 10	< 10	< 10	< 20	< 10	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 1,000	< 71	< 71	< 200	< 200	< 5.0	NA	NA	NA	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Chloroethane	µg/l	1,700	0.55 J	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	2.2	**550**	**82**	7.1 J	**180**	**250**	0.51 J	**300**	**310**	67	63	2.3	12	< 1.0	11	11	1.9	< 1.0	20	0.67 J
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 1,000	**11 J**	**8.6 J**	< 200	< 200	< 5.0	NA	NA	NA	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 400	< 29	< 29	< 80	< 80	< 2.0	NA	NA	NA	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 2,000	< 140	< 140	< 400	< 400	< 10	NA	NA	NA	< 50	< 10	< 10	< 10	< 10	< 20	< 10	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 2,000	< 140	< 140	< 400	< 400	< 10	NA	NA	NA	< 50	< 10	< 10	< 10	< 10	< 20	< 10	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	PW-16-01										PW-16-02									
Screen Interval (ft. bgs):			9.7-19.7										6-21									
Date:	Unit		8/2/2017	11/7/2017	2/7/2018	5/15/2018	8/6/2018	10/30/2018	02/26/2019	6/10/2019	9/24/2019	11/11/2019	8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019	6/11/2019	9/27/2019	11/14/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 200	< 14	< 14 J	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Styrene (Monomer)	µg/l	100	0.35 J	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Tetrachloroethene	µg/l	5.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	< 100	< 100	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0
Toluene	µg/l	790	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 400	< 29	< 29	< 80	< 80	< 2.0	NA	NA	NA	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	NA	NA	NA
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 200	5.4 J	< 14	< 40	10 J	< 1.0	< 100	< 100	3.7	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	NA	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	NA	NA
Trichloroethene	µg/l	5.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	< 100	< 100	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0
Vinyl chloride	µg/l	2.0	**24**	**5,300**	**160**	**37 J**	**870**	**1,400**	0.92 J	**2,100**	**2,000**	**450**	**160**	2.0	**18**	< 1.0	**71**	**62**	0.94 J	< 1.0	**59**	0.40 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
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
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
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	mg/l	NS	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
Iron	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	µg/l	50	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:		EGLE Non-Residential Drinking Water Criteria	TW-16-01										TW-16-02										
Screen Interval (ft. bgs):			12-17										12-17										
Date:	Unit		8/2/2017	11/7/2017	2/7/2018	5/15/2018	8/6/2018	10/30/2018	02/26/2019	6/10/2019	9/24/2019	11/11/2019	4/25/2017	8/2/2017	11/7/2017	2/14/2018	5/11/2018	8/6/2018	10/30/2018	02/26/2019	6/10/2019	9/24/2019	11/11/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	0.32 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J	< 2.0	< 2.0	7.2	3.9	5.8	3.9	5.0	2.7	5.3	4.6	2.8	2.2	2.0
Volatile Organic Compounds (VOCs)																							
1,1,1-Trichloroethane	µg/l	200	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
1,1-Dichloroethene	µg/l	7.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 33 J	< 20	0.57 J	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	< 250	< 330	**15 J**
1,2,3-Trimethylbenzene	µg/l	NS	< 50	< 63	< 170	< 170	< 130	< 130	< 500	NA	NA	NA	< 3,100	< 2,500	< 2,000	< 5,000	< 2,500	< 1,300	< 2,500	< 1,700	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 100	< 130	< 330	< 330	< 250	< 250	< 1,000	NA	NA	NA	< 6,300	< 5,000	< 4,000	< 10,000	< 5,000	< 2,500	< 5,000	< 3,300	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 100	< 130	< 330	< 330	< 250	< 250	< 1,000	NA	NA	NA	< 6,300	< 5,000	< 4,000	< 10,000	< 5,000	< 2,500	< 5,000	< 3,300	NA	NA	NA
Acetone	µg/l	2,100	< 100	< 130	< 330	68 J	< 250	< 250	< 1,000	NA	NA	NA	< 6,300	< 5,000	< 4,000	< 10,000	< 5,000	< 2,500	< 5,000	< 3,300	NA	NA	NA
Benzene	µg/l	5.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Bromodichloromethane	µg/l	80	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Bromoform	µg/l	80	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Bromomethane	µg/l	29	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 50	< 63	< 170	< 170	< 130	< 130	< 500	NA	NA	NA	< 3,100	< 2,500	< 2,000	< 5,000	< 2,500	< 1,300	< 2,500	< 1,700	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
CFC-11	µg/l	7,300	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
CFC-12	µg/l	4,800	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Chlorobenzene	µg/l	100	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Chloroethane	µg/l	1,700	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Chloroform	µg/l	80	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Chloromethane	µg/l	1,100	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	17	32	34	68	**140**	**180**	**150**	**140**	**170**	**180**	**5,200**	**3,100**	**6,000**	**3,500**	**4,400**	**4,100**	**6,900**	**7,700**	**3,000**	**2,800**	**3,300**
cis-1,3-Dichloropropene	µg/l	NS	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Cyclohexane	µg/l	NS	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Dichloromethane	µg/l	5.0	< 50	**10 J**	**23 J**	**20 J**	< 130	< 130	< 500	NA	NA	NA	**1,200 J**	< 2,500	< 2,000	< 5,000	< 2,500	< 1,300	< 2,500	< 1,700	NA	NA	NA
Diethyl ether	µg/l	10	< 20	< 25	< 67	< 67	< 50	< 50	< 200	NA	NA	NA	< 1,300	< 1,000	< 800	< 2,000	< 1,000	< 500	< 1,000	< 670	NA	NA	NA
Ethylbenzene	µg/l	74	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Methyl Acetate	µg/l	NS	< 100	< 130	< 330	< 330	< 250	< 250	< 1,000	NA	NA	NA	< 6,300	< 5,000	< 4,000	< 10,000	< 5,000	< 2,500	< 5,000	< 3,300	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 100	< 130	< 330	< 330	< 250	< 250	< 1,000	NA	NA	NA	< 6,300	< 5,000	< 4,000	< 10,000	< 5,000	< 2,500	< 5,000	< 3,300	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA

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

Location:		EGLE Non-Residential Drinking Water Criteria	TW-16-01										TW-16-02										
Screen Interval (ft. bgs):			12-17										12-17										
Date:	Unit		8/2/2017	11/7/2017	2/7/2018	5/15/2018	8/6/2018	10/30/2018	02/26/2019	6/10/2019	9/24/2019	11/11/2019	4/25/2017	8/2/2017	11/7/2017	2/14/2018	5/11/2018	8/6/2018	10/30/2018	02/26/2019	6/10/2019	9/24/2019	11/11/2019
Methyl-tert-butylether	µg/l	40	< 10	< 13	< 33	< 33 J	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Tetrachloroethene	µg/l	5.0	< 10	< 13	< 33	< 33	< 25	< 25	< 100	< 33 J	< 20	< 1.0	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	< 250	< 330	< 25
Toluene	µg/l	790	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Total Xylenes	µg/l	280	< 20	< 25	< 67	< 67	< 50	< 50	< 200	NA	NA	NA	< 1,300	< 1,000	< 800	< 2,000	< 1,000	< 500	< 1,000	< 670	NA	NA	NA
trans-1,2-Dichloroethene	µg/l	100	< 10	< 13	< 33	11 J	7.5 J	14 J	22 J	8.0 J	< 20	4.9	< 630	< 500	< 400	< 1,000	< 500	56 J	< 500	**130 J**	< 250	< 330	48
trans-1,3-Dichloropropene	µg/l	NS	< 10	< 13	< 33	< 33	< 25	< 25	< 100	NA	NA	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	NA	NA
Trichloroethene	µg/l	5.0	< 10	< 13	< 33	< 33	< 25	< 25	**15 J**	< 33 J	< 20	< 1.0	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	< 250	< 330	< 25
Vinyl chloride	µg/l	2.0	**210**	**320**	**380**	**720**	**680**	**830**	**750**	**550**	**420**	**480**	**15,000**	**12,000**	**13,000**	**9,100**	**8,500**	**7,300**	**12,000**	**8,900**	**5,800**	**7,600**	**5,700**
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:		EGLE 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	6/11/2019	9/27/2019	11/14/2019	4/25/2017	8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019	6/11/2019	9/27/2019	11/14/2019
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	< 2.0	0.93 J	0.43 J	1.7 J	0.81 J	0.89 J	< 2.0	< 2.0	1.2 J	1.5 J	1.2 J	1.1 J	< 2.0	0.86 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	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
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	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 4.0	< 3.3	< 10	< 2.5	0.44 J	< 6.7	0.43 J	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	0.50 J	< 3.3	< 3.3	NA	NA	NA
1,1-Dichloroethene	µg/l	7.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 1.0	< 1.0	< 1.0	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	< 2.5	< 2.5	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 20	< 17	< 50	< 13	< 10	< 33	< 8.4	NA	NA	NA	< 20	< 20	< 33	< 33	< 13	< 5.0	< 17	< 17	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 40	< 33	< 100	< 25	< 20	< 67	< 17	NA	NA	NA	< 40	< 40	< 67	< 67	< 25	< 10	< 33	< 33	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 40	< 33	< 100	< 25	< 20	< 67	< 17	NA	NA	NA	< 40	< 40	< 67	< 67	< 25	< 10	< 33	< 33	NA	NA	NA
Acetone	µg/l	2,100	< 40	< 33	< 100	< 25	< 20	< 67	< 17	NA	NA	NA	< 40	< 40	< 67	< 67	< 25	5.5 J	< 33	< 33	NA	NA	NA
Benzene	µg/l	5.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Bromodichloromethane	µg/l	80	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Bromoform	µg/l	80	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Bromomethane	µg/l	29	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 20	< 17	< 50	< 13	< 10	< 33	< 8.4	NA	NA	NA	< 20	< 20	< 33	< 33	< 13	< 5.0	< 17	< 17	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
CFC-11	µg/l	7,300	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
CFC-12	µg/l	4,800	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Chlorobenzene	µg/l	100	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Chloroethane	µg/l	1,700	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Chloroform	µg/l	80	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Chloromethane	µg/l	1,100	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
cis-1,2-Dichloroethene	µg/l	70	37	36	40	39	36	42	33	14	35	52	20	18	23	25	20	21	20	14	14	13	20
cis-1,3-Dichloropropene	µg/l	NS	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Cyclohexane	µg/l	NS	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Dichloromethane	µg/l	5.0	< 20	< 17	< 50	< 13	< 10	< 33	< 8.4	NA	NA	NA	4.4 J	< 20	< 33	< 33	< 13	< 5.0	< 17	< 17	NA	NA	NA
Diethyl ether	µg/l	10	< 8.0	< 6.7	< 20	< 5.0	< 4.0	< 13	< 3.3	NA	NA	NA	< 8.0	< 8.0	< 13	< 13	< 5.0	< 2.0	< 6.7	< 6.7	NA	NA	NA
Ethylbenzene	µg/l	74	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Methyl Acetate	µg/l	NS	< 40	< 33	< 100	< 25	< 20	< 67	< 17	NA	NA	NA	< 40	< 40	< 67	< 67	< 25	< 10	< 33	< 33	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 40	< 33	< 100	< 25	< 20	< 67	< 17	NA	NA	NA	< 40	< 40	< 67	< 67	< 25	< 10	< 33	< 33	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	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:		EGLE 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	6/11/2019	9/27/2019	11/14/2019	4/25/2017	8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019	6/11/2019	9/27/2019	11/14/2019
Methyl-tert-butylether	µg/l	40	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Tetrachloroethene	µg/l	5.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 1.0	< 1.0	< 1.0	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	< 2.5	< 2.5	< 1.0
Toluene	µg/l	790	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Total Xylenes	µg/l	280	< 8.0	< 6.7	< 20	< 5.0	< 4.0	< 13	< 3.3	NA	NA	NA	< 8.0	< 8.0	< 13	< 13	< 5.0	< 2.0	< 6.7	< 6.7	NA	NA	NA
trans-1,2-Dichloroethene	µg/l	100	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 1.0	< 1.0	< 1.0	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	< 2.5	< 2.5	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA	NA	NA	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA	NA	NA
Trichloroethene	µg/l	5.0	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 1.0	< 1.0	< 1.0	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	< 2.5	< 2.5	< 1.0
Vinyl chloride	µg/l	2.0	**100**	**77**	**95**	**78**	**76**	**97**	**48**	**20**	**53**	**87**	**150**	**120**	**100**	**77**	**65**	**63**	**90**	**65**	**51**	**49**	**46**
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.

Notes:

Results are compared to EGLE Part 201 Generic Cleanup Criteria, June 2018.

Bold	Result denotes exceedance of EGLE 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

Analytical Methods:
8260B SIM
8260B

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 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	05/22/17	NP	6.98	19.31	NA	661.83	661.83
			07/24/17	NP	8.60	19.60	NA	660.21	660.21
			11/06/17	NP	9.20	19.54	NA	659.61	659.61
			02/05/18	NP	8.58	19.86	NA	660.23	660.23
			05/07/18	NP	6.83	19.63	NA	661.98	661.98
			08/16/18	NP	8.68	NM	NA	660.13	660.13
			11/19/18	NP	7.72	19.64	NA	661.09	661.09
			02/22/19	NP	7.48	19.61	NA	661.33	661.33
			06/14/19	NP	6.86	19.65	NA	661.95	661.95
			09/26/19	NP	9.98	19.63	NA	658.83	658.83
			11/04/19	NP	8.57	19.62	NA	660.24	660.24
MW-72S	668.96	3-13	03/05/19	NP	7.56	13.05	NA	661.40	661.40
			06/14/19	NP	7.00	13.03	NA	661.96	661.96
			09/26/19	NP	9.32	13.03	NA	659.64	659.64
			11/04/19	NP	8.76	13.03	NA	660.20	660.20
MW-73S	666.89	7-12	05/22/17	NP	4.72	11.31	NA	662.17	662.17
			07/24/17	NP	6.38	11.48	NA	660.51	660.51
			11/06/17	NP	6.94	11.42	NA	659.95	659.95
			02/05/18	NP	6.30	11.62	NA	660.59	660.59
			05/07/18	NP	4.77	11.55	NA	662.12	662.12
			08/16/18	NP	6.25	NM	NA	660.64	660.64
			11/19/18	NP	5.45	11.54	NA	661.44	661.44
			12/10/18	Monitoring Well Abandoned					
MW-73SR	667.00	2.5-12.5	02/22/19	NP	5.56	12.38	NA	661.44	661.44
			06/14/19	NP	4.80	12.40	NA	662.20	662.20
			09/26/19	NP	6.82	12.49	NA	660.18	660.18
			11/04/19	NP	6.43	12.40	NA	660.57	660.57
MW-73D	667.08	13.5-18.5	05/22/17	NP	4.98	17.21	NA	662.10	662.10
			07/24/17	NP	6.64	17.47	NA	660.44	660.44
			11/06/17	NP	7.22	17.38	NA	659.86	659.86
			02/05/18	NP	6.54	17.52	NA	660.54	660.54
			05/07/18	NP	5.02	17.36	NA	662.06	662.06
			08/16/18	NP	6.49	NM	NA	660.59	660.59
			11/19/18	NP	5.73	17.35	NA	661.35	661.35
			02/22/19	NP	5.54	17.37	NA	661.54	661.54
			06/14/19	NP	4.79	17.37	NA	662.29	662.29
			09/26/19	NP	7.84	17.39	NA	659.24	659.24
			11/04/19	NP	6.39	17.38	NA	660.69	660.69
MW-74	668.02	14-19	05/22/17	NP	5.94	18.52	NA	662.08	662.08
			07/24/17	NP	7.47	18.81	NA	660.55	660.55
			11/06/17	NP	8.12	18.76	NA	659.90	659.90
			02/05/18	NP	7.49	18.85	NA	660.53	660.53
			05/07/18	NP	5.95	18.77	NA	662.07	662.07
			08/16/18	NP	7.38	NM	NA	660.64	660.64
			11/19/18	NP	6.25	18.77	NA	661.77	661.77
			02/22/19	NP	6.45	18.76	NA	661.57	661.57
			06/14/19	NP	5.63	18.76	NA	662.39	662.39
			09/26/19	NP	7.48	18.78	NA	660.54	660.54
			11/04/19	NP	7.31	18.78	NA	660.71	660.71
MW-74S	667.93	3-13	02/22/19	NP	6.44	12.78	NA	661.49	661.49
			06/14/19	NP	5.65	12.77	NA	662.28	662.28
			09/26/19	NP	7.49	12.76	NA	660.44	660.44
			11/04/19	NP	7.31	12.79	NA	660.62	660.62

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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-75S	666.86	5-10	05/22/17	NP	5.16	9.23	NA	661.70	661.70
			07/24/17	NP	6.15	9.48	NA	660.71	660.71
			11/06/17	NP	6.83	9.43	NA	660.03	660.03
			02/05/18	NP	6.56	9.82	NA	660.30	660.30
			05/07/18	NP	5.08	9.67	NA	661.78	661.78
			08/16/18	NP	5.81	NM	NA	661.05	661.05
			11/19/18	NP	5.47	9.62	NA	661.39	661.39
			12/10/18	Monitoring Well Abandoned					
MW-75SR	666.96	2.5-12.5	02/22/19	NP	5.60	12.38	NA	661.36	661.36
			06/14/19	NP	4.63	12.36	NA	662.33	662.33
			09/26/19	NP	6.26	12.38	NA	660.70	660.70
			11/04/19	NP	5.98	12.37	NA	660.98	660.98
MW-75D	666.89	12-17	05/22/17	NP	5.20	16.59	NA	661.69	661.69
			07/24/17	NP	6.19	16.78	NA	660.70	660.70
			11/06/17	NP	6.81	17.80	NA	660.08	660.08
			02/05/18	NP	6.59	16.83	NA	660.30	660.30
			05/07/18	NP	5.04	16.77	NA	661.85	661.85
			08/16/18	NP	6.09	NM	NA	660.80	660.80
			11/19/18	NP	5.51	17.74	NA	661.38	661.38
			02/22/19	NP	5.72	16.78	NA	661.17	661.17
			06/14/19	NP	4.57	16.74	NA	662.32	662.32
			09/26/19	NP	6.26	16.70	NA	660.63	660.63
			11/04/19	NP	5.89	16.66	NA	661.00	661.00
MW-76	670.10	15-20	05/22/17	NP	9.43	19.44	NA	660.67	660.67
			07/24/17	NP	10.05	19.73	NA	660.05	660.05
			11/06/17	NP	10.73	19.66	NA	659.37	659.37
			02/05/18	NP	10.89	19.71	NA	659.21	659.21
			05/07/18	NP	9.34	19.64	NA	660.76	660.76
			08/16/18	NP	9.59	NM	NA	660.51	660.51
			11/19/18	NP	9.25	19.60	NA	660.85	660.85
			02/22/19	NP	9.75	19.62	NA	660.35	660.35
			06/14/19	NP	8.56	19.61	NA	661.54	661.54
			09/26/19	NP	9.78	19.63	NA	660.32	660.32
			11/04/19	NP	9.74	19.62	NA	660.36	660.36
MW-76S	669.98	4.5-14.5	02/22/19	NP	9.64	14.15	NA	660.34	660.34
			06/14/19	NP	8.55	14.50	NA	661.43	661.43
			09/26/19	NP	9.65	14.17	NA	660.33	660.33
			11/04/19	NP	9.63	14.15	NA	660.35	660.35
MW-77	660.56	9-14	05/22/17	NP	4.59	13.45	NA	655.97	655.97
			07/24/17	NP	5.90	13.75	NA	654.66	654.66
			11/06/17	NP	6.30	13.67	NA	654.26	654.26
			02/05/18	NP	5.43	13.75	NA	655.13	655.13
			05/07/18	NP	4.28	13.70	NA	656.28	656.28
			08/16/18	NP	5.88	NM	NA	654.68	654.68
			11/19/18	NP	4.59	13.69	NA	655.97	655.97
			02/22/19	NP	4.64	13.72	NA	655.92	655.92
			06/14/19	NP	4.23	13.71	NA	656.33	656.33
			09/26/19	NP	5.97	13.72	NA	654.59	654.59
			11/04/19	NP	5.21	13.70	NA	655.35	655.35
MW-77S	660.55	2.5-12.5	02/22/19	NP	4.53	12.16	NA	656.02	656.02
			06/14/19	NP	4.12	12.14	NA	656.43	656.43
			09/26/19	NP	5.89	12.17	NA	654.66	654.66
			11/04/19	NP	5.15	12.15	NA	655.40	655.40

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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-78	657.23	7-12	05/22/17	NP	1.78	11.47	NA	655.45	655.45
			07/24/17	NP	3.55	11.79	NA	653.68	653.68
			11/06/17	NP	3.50	11.72	NA	653.73	653.73
			02/05/18	NP	3.09	11.80	NA	654.14	654.14
			05/07/18	NP	1.54	11.75	NA	655.69	655.69
			08/16/18	NP	3.53	NM	NA	653.70	653.70
			11/19/18	NP	1.68	11.71	NA	655.55	655.55
			02/22/19	NP	2.02	11.75	NA	655.21	655.21
			06/14/19	NP	1.19	11.75	NA	656.04	656.04
			09/26/19	NP	3.71	11.77	NA	653.52	653.52
			11/04/19	NP	2.70	11.76	NA	654.53	654.53
MW-78S	657.61	2.5-12.5	02/22/19	NP	2.37	12.40	NA	655.24	655.24
			06/14/19	NP	1.51	12.38	NA	656.10	656.10
			09/26/19	NP	3.45	12.41	NA	654.16	654.16
			11/04/19	NP	3.05	12.40	NA	654.56	654.56
MW-79S	663.10	5-10	05/22/17	NP	4.15	9.49	NA	658.95	658.95
			07/24/17	NP	6.37	9.76	NA	656.73	656.73
			11/06/17	NP	6.56	9.71	NA	656.54	656.54
			02/05/18	NP	5.46	9.78	NA	657.64	657.64
			05/07/18	NP	3.49	9.73	NA	659.61	659.61
			08/16/18	NP	6.40	NM	NA	656.70	656.70
			11/19/18	NP	4.50	9.71	NA	658.60	658.60
			12/10/18	Monitoring Well Abandoned					
MW-79SR	663.06	2.5-12.5	02/22/19	NP	4.19	12.28	NA	658.87	658.87
			06/14/19	NP	3.50	12.50	NA	659.56	659.56
			09/26/19	NP	6.52	12.26	NA	656.54	656.54
			11/04/19	NP	5.65	12.25	NA	657.41	657.41
MW-79D	663.35	10-15	05/22/17	NP	4.20	14.38	NA	659.15	659.15
			07/24/17	NP	6.45	14.66	NA	656.90	656.90
			11/06/17	NP	6.62	14.60	NA	656.73	656.73
			02/05/18	NP	5.51	14.69	NA	657.84	657.84
			05/07/18	NP	3.55	14.62	NA	659.80	659.80
			08/16/18	NP	6.49	NM	NA	656.86	656.86
			11/19/18	NP	4.58	14.60	NA	658.77	658.77
			02/22/19	NP	4.33	14.64	NA	659.02	659.02
			06/14/19	NP	3.63	14.62	NA	659.72	659.72
			09/26/19	NP	6.66	14.64	NA	656.69	656.69
			11/04/19	NP	5.80	14.63	NA	657.55	657.55
MW-80S	656.08	7-12	05/22/17	NP	2.41	11.29	NA	653.67	653.67
			07/24/17	NP	4.19	11.50	NA	651.89	651.89
			11/06/17	NP	3.41	11.53	NA	652.67	652.67
			02/05/18	NP	2.86	11.81	NA	653.22	653.22
			05/07/18	NP	1.23	11.56	NA	654.85	654.85
			08/16/18	NP	4.14	NM	NA	651.94	651.94
			11/19/18	NP	2.17	11.53	NA	653.91	653.91
			12/10/18	Monitoring Well Abandoned					
MW-80SR	656.23	2.5-12.5	03/06/19	NP	2.43	12.21	NA	653.80	653.80
			06/14/19	NP	1.39	12.24	NA	654.84	654.84
			09/26/19	NP	4.41	12.24	NA	651.82	651.82
			11/04/19	NP	2.80	12.22	NA	653.43	653.43

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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-81	657.32	8-13	05/22/17	NP	6.05	12.40	NA	651.27	651.27
			07/24/17	NP	7.24	12.70	NA	650.08	650.08
			11/06/17	NP	8.27	12.63	NA	649.05	649.05
			02/05/18	NP	7.29	12.71	NA	650.03	650.03
			05/07/18	NP	5.98	12.66	NA	651.34	651.34
			08/16/18	NP	7.40	NM	NA	649.92	649.92
			11/19/18	NP	6.62	12.64	NA	650.70	650.70
			02/22/19	NP	6.19	12.67	NA	651.13	651.13
			06/14/19	NP	5.85	12.65	NA	651.47	651.47
			09/26/19	NP	7.62	12.68	NA	649.70	649.70
			11/04/19	NP	7.31	12.68	NA	650.01	650.01
MW-81S	657.67	2.5-12.5	02/22/19	NP	6.49	12.52	NA	651.18	651.18
			06/14/19	NP	5.18	12.51	NA	652.49	652.49
			09/26/19	NP	7.83	12.52	NA	649.84	649.84
			11/04/19	NP	7.60	12.54	NA	650.07	650.07
MW-82S	658.63	9-14	05/22/17	NP	6.93	13.12	NA	651.70	651.70
			07/24/17	NP	8.24	11.50	NA	650.39	650.39
			11/06/17	NP	9.08	13.34	NA	649.55	649.55
			02/05/18	NP	8.32	13.44	NA	650.31	650.31
			05/07/18	NP	7.10	13.36	NA	651.53	651.53
			08/16/18	NP	8.38	NM	NA	650.25	650.25
			11/19/18	NP	7.62	13.37	NA	651.01	651.01
			12/10/18	Monitoring Well Abandoned					
MW-82SR	658.92	5-15	02/22/19	NP	7.47	16.12	NA	651.45	651.45
			06/14/19	NP	6.85	15.10	NA	652.07	652.07
			09/26/19	NP	8.65	16.12	NA	650.27	650.27
			11/04/19	NP	8.27	16.12	NA	650.65	650.65
MW-82D	658.45	18-23	05/22/17	NP	7.34	22.45	NA	651.11	651.11
			07/24/17	NP	8.50	22.80	NA	649.95	649.95
			11/06/17	NP	9.41	22.72	NA	649.04	649.04
			02/05/18	NP	8.65	22.81	NA	649.80	649.80
			05/07/18	NP	7.33	22.74	NA	651.12	651.12
			08/16/18	NP	8.49	NM	NA	649.96	649.96
			11/19/18	NP	7.59	22.70	NA	650.86	650.86
			03/06/19	NP	7.65	23.00	NA	650.80	650.80
			06/14/19	NP	7.10	22.70	NA	651.35	651.35
			09/26/19	NP	8.65	22.75	NA	649.80	649.80
			11/04/19	NP	8.38	22.73	NA	650.07	650.07
MW-83	660.09	8-13	05/22/17	NP	6.46	12.11	NA	653.63	653.63
			07/24/17	NP	7.61	12.44	NA	652.48	652.48
			11/06/17	NP	8.08	12.46	NA	652.01	652.01
			02/05/18	NP	7.53	12.48	NA	652.56	652.56
			05/07/18	NP	6.28	12.43	NA	653.81	653.81
			08/16/18	NP	7.71	NM	NA	652.38	652.38
			11/19/18	NP	6.78	12.38	NA	653.31	653.31
			02/22/19	NP	6.71	12.40	NA	653.38	653.38
			06/14/19	NP	6.25	12.40	NA	653.84	653.84
			09/26/19	NP	7.95	12.41	NA	652.14	652.14
			11/04/19	NP	7.36	12.43	NA	652.73	652.73
MW-83S	660.26	3-13	02/22/19	NP	6.87	12.80	NA	653.39	653.39
			06/14/19	NP	6.41	12.80	NA	653.85	653.85
			09/26/19	NP	8.12	12.79	NA	652.14	652.14
			11/04/19	NP	7.49	12.79	NA	652.77	652.77

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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-84	662.50	8-13	05/22/17	NP	3.26	12.28	NA	659.24	659.24
			07/24/17	NP	5.19	12.59	NA	657.31	657.31
			11/06/17	NP	5.54	12.52	NA	656.96	656.96
			02/05/18	NP	4.60	12.60	NA	657.90	657.90
			05/07/18	NP	2.90	12.55	NA	659.60	659.60
			08/16/18	NP	5.22	NM	NA	657.28	657.28
			11/19/18	NP	3.56	12.54	NA	658.94	658.94
			02/22/19	NP	3.50	12.56	NA	659.00	659.00
			06/14/19	NP	2.71	12.50	NA	659.79	659.79
			09/26/19	NP	5.38	12.55	NA	657.12	657.12
			11/04/19	NP	4.58	12.57	NA	657.92	657.92
MW-84S	662.69	2.5-12.5	02/22/19	NP	3.67	12.71	NA	659.02	659.02
			06/14/19	NP	2.85	12.72	NA	659.84	659.84
			09/26/19	NP	5.54	12.72	NA	657.15	657.15
			11/04/19	NP	4.74	12.71	NA	657.95	657.95
MW-85	658.85	8-13	05/22/17	NP	4.71	12.43	NA	654.14	654.14
			07/24/17	NP	6.12	12.75	NA	652.73	652.73
			11/06/17	NP	6.34	12.70	NA	652.51	652.51
			02/05/18	NP	5.53	12.76	NA	653.32	653.32
			05/07/18	NP	4.16	12.69	NA	654.69	654.69
			08/16/18	NP	6.12	NM	NA	652.73	652.73
			11/19/18	NP	5.33	12.66	NA	653.52	653.52
			02/22/19	NP	4.75	12.70	NA	654.10	654.10
			06/14/19	NP	4.50	12.70	NA	654.35	654.35
			09/26/19	NP	6.32	12.69	NA	652.53	652.53
			11/04/19	NP	5.97	12.69	NA	652.88	652.88
MW-85S	NS	2.5-12.5	12/07/18	NP	5.42	12.35	NA	NA	NA
			03/01/19	Monitoring Well Abandoned					
MW-85SR	659.31	4.5-9.5	06/14/19	NP	4.70	8.45	NA	654.61	654.61
			09/26/19	NP	6.45	8.45	NA	652.86	652.86
			11/04/19	NP	6.08	8.45	NA	653.23	653.23
MW-86	666.11	12-17	05/22/17	NP	6.25	16.35	NA	653.06	653.06
			07/24/17	NP	8.07	16.66	NA	651.24	651.24
			11/06/17	NP	8.70	16.58	NA	657.41	657.41
			02/05/18	NP	7.87	16.72	NA	658.24	658.24
			05/07/18	NP	6.03	16.60	NA	660.08	660.08
			08/16/18	NP	8.06	NM	NA	658.05	658.05
			11/19/18	NP	6.66	16.59	NA	659.45	659.45
			02/22/19	NP	6.67	16.61	NA	659.44	659.44
			06/14/19	NP	5.78	16.64	NA	660.33	660.33
			09/26/19	NP	8.15	16.61	NA	657.96	657.96
			11/04/19	NP	7.60	16.62	NA	658.51	658.51
MW-86S	666.14	2.5-12.5	02/22/19	NP	6.83	12.33	NA	659.31	659.31
			06/14/19	NP	5.93	12.33	NA	660.21	660.21
			09/26/19	NP	8.33	12.36	NA	657.81	657.81
			11/04/19	NP	7.80	12.34	NA	658.34	658.34

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-87	668.89	14-19	05/22/17	NP	9.41	18.55	NA	659.48	659.48
			07/24/17	NP	10.65	18.85	NA	658.24	658.24
			11/06/17	NP	11.42	18.79	NA	657.47	657.47
			02/05/18	NP	11.06	18.86	NA	657.83	657.83
			05/07/18	NP	9.39	18.80	NA	659.50	659.50
			08/16/18	NP	10.61	NM	NA	658.28	658.28
			11/19/18	NP	9.68	18.79	NA	659.21	659.21
			11/20/18	NP	6.62	12.86	NA	662.27	662.27
			11/20/18	NP	4.40	12.63	NA	664.49	664.49
			11/20/18	NP	2.38	12.15	NA	666.51	666.51
			11/20/18	NM	NM	NM	NA	NA	NA
			11/20/18	NP	5.14	12.08	NA	663.75	663.75
			11/20/18	NP	6.50	12.02	NA	662.39	662.39
			11/20/18	NP	5.69	12.24	NA	663.20	663.20
			11/20/18	NP	3.58	12.02	NA	665.31	665.31
			02/22/19	NP	9.79	18.82	NA	659.10	659.10
			06/14/19	NP	8.75	18.81	NA	660.14	660.14
			09/26/19	NP	10.45	18.83	NA	658.44	658.44
			11/04/19	NP	10.15	18.82	NA	658.74	658.74
MW-87S	668.65	4.5-14.5	02/22/19	NP	9.95	14.14	NA	658.70	658.70
			06/14/19	NP	8.55	14.12	NA	660.10	660.10
			09/26/19	NP	10.28	14.10	NA	658.37	658.37
			11/04/19	NP	9.98	13.82(1)	NA	658.67	658.67
MW-96S	662.21	2.5-12.5	02/22/19	NP	5.13	12.10	NA	657.08	657.08
			06/14/19	NP	4.57	12.08	NA	657.64	657.64
			09/26/19	NP	6.74	12.09	NA	655.47	655.47
			11/04/19	NP	6.01	12.10	NA	656.20	656.20
MW-97S	660.07	2.5-12.5	03/06/19	NP	4.47	11.96	NA	655.60	655.60
			06/14/19	NP	3.96	12.01	NA	656.11	656.11
			09/26/19	NP	5.72	12.01	NA	654.35	654.35
			11/04/19	NP	4.98	12.01	NA	655.09	655.09
MW-98S	656.10	2.5-12.5	02/22/19	NP	1.60	12.09	NA	654.50	654.50
			06/14/19	NP	0.79	12.10	NA	655.31	655.31
			09/26/19	NP	3.23	12.09	NA	652.87	652.87
			11/04/19	NP	2.10	12.09	NA	654.00	654.00
MW-99S	667.38	3.0-13.0	02/22/19	NP	6.00	12.84	NA	661.38	661.38
			06/14/19	NP	5.20	12.86	NA	662.18	662.18
			09/26/19	NP	6.89	12.85	NA	660.49	660.49
			11/04/19	NP	6.71	12.87	NA	660.67	660.67
MW-100S	667.64	3.0-13.0	02/22/19	NP	6.64	12.90	NA	661.00	661.00
			06/14/19	NP	5.53	12.88	NA	662.11	662.11
			09/26/19	NP	6.98	12.89	NA	660.66	660.66
			11/04/19	NP	6.76	12.90	NA	660.88	660.88
MW-101S	668.82	4.5-14.5	03/06/19	NP	8.21	14.01	NA	660.61	660.61
			06/14/19	NP	7.78	14.07	NA	661.04	661.04
			09/26/19	NP	8.33	14.06	NA	660.49	660.49
			11/04/19	NP	8.26	14.06	NA	660.56	660.56
MW-102	660.87	10.0-15.0	02/22/19	NP	1.17	14.65	NA	659.70	659.70
			06/14/19	NP	0.70	14.65	NA	660.17	660.17
			09/26/19	NP	3.20	13.64	NA	657.67	657.67
			11/04/19	NP	2.34	14.63	NA	658.53	658.53

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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-102S	661.01	2.5-12.5	02/22/19	NP	1.33	12.35	NA	659.68	659.68
			06/14/19	NP	0.80	12.35	NA	660.21	660.21
			09/26/19	NP	3.50	12.36	NA	657.51	657.51
			11/04/19	NP	2.53	12.37	NA	658.48	658.48
MW-105S	661.45	2.5-12.5	02/22/19	NP	2.88	11.80	NA	658.57	658.57
			06/14/19	NP	2.25	11.80	NA	659.20	659.20
			09/26/19	NP	4.70	11.72	NA	656.75	656.75
			11/04/19	NP	3.85	11.79	NA	657.60	657.60
MW-106S	655.03	2.5-12.5	02/22/19	NP	2.76	11.70	NA	652.27	652.27
			06/14/19	NP	2.18	11.65	NA	652.85	652.85
			09/26/19	NP	4.49	11.64	NA	650.54	650.54
			11/04/19	NP	3.40	11.62	NA	651.63	651.63
MW-107S	657.86	2.5-12.5	02/22/19	NP	5.52	12.20	NA	652.34	652.34
			06/14/19	NP	5.11	12.50	NA	652.75	652.75
			09/26/19	NP	6.55	12.16	NA	651.31	651.31
			11/04/19	NP	5.93	12.15	NA	651.93	651.93
MW-108S	657.54	2.5-12.5	02/22/19	Could Not Locate					
			06/14/19	NP	3.05	12.25	NA	654.49	654.49
			09/26/19	NP	5.09	12.26	NA	652.45	652.45
			11/04/19	NP	4.03	12.27	NA	653.51	653.51
MW-131S	660.96	2.5-12.5	02/22/19	NP	4.13	12.70	NA	656.83	656.83
			06/14/19	NP	6.70	12.65	NA	654.26	654.26
			09/26/19	NP	5.88	12.69	NA	655.08	655.08
			11/04/19	NP	5.32	12.68	NA	655.64	655.64
MW-132S	659.86	2.5-12.5	02/22/19	NP	5.28	12.38	NA	654.58	654.58
			06/14/19	NP	5.25	12.40	NA	654.61	654.61
			09/26/19	NP	6.31	12.39	NA	653.55	653.55
			11/04/19	NP	5.91	12.39	NA	653.95	653.95
MW-133S	657.91	4.0-9.0	06/14/19	NP	5.35	8.55	NA	652.56	652.56
			09/26/19	NP	7.25	8.55	NA	650.66	650.66
			11/04/19	NP	6.73	8.56	NA	651.18	651.18
MW-134S	658.75	5.0-10.0	06/14/19	NP	6.30	9.40	NA	652.45	652.45
			09/26/19	NP	8.19	9.46	NA	650.56	650.56
			11/04/19	NP	7.71	9.45	NA	651.04	651.04
MW-135S*	657.67	5.0-10.0	06/14/19	NP	5.30	9.70	NA	652.37	652.37
			09/26/19	NP	7.14	9.68	NA	650.53	650.53
	657.44		11/04/19	NP	6.74	9.70	NA	650.70	650.70
MW-136S	655.53	2.0-7.0	06/14/19	NP	2.16	7.50	NA	653.37	653.37
			09/26/19	NP	4.66	7.15	NA	650.87	650.87
			11/04/19	NP	3.23	7.14	NA	652.30	652.30
MW-137S*	656.10	2.0-7.0	06/14/19	NP	1.60	7.20	NA	654.50	654.50
			09/26/19	NP	4.43	7.10	NA	651.67	651.67
	656.10		11/04/19	NP	3.05	7.03	NA	653.05	653.05
MW-138S	653.92	2.0-7.0	06/14/19	NP	0.20	5.95	NA	653.72	653.72
			09/26/19	NP	2.68	5.97	NA	651.24	651.24
			11/04/19	NP	1.16	5.94	NA	652.76	652.76
MW-139S	660.14	2.0-7.0	06/14/19	NP	1.17	6.90	NA	658.97	658.97
			09/26/19	NP	4.10	6.90	NA	656.04	656.04
			11/04/19	NP	3.14	6.90	NA	657.00	657.00
MW-140S	662.23	2.0-7.0	06/14/19	NP	2.46	6.48	NA	659.77	659.77
			09/26/19	NP	5.29	6.46	NA	656.94	656.94
			11/04/19	NP	4.40	6.46	NA	657.83	657.83

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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-141S	663.67	3.0-8.0	06/14/19	NP	4.00	7.60	NA	659.67	659.67
			09/26/19	NP	7.18	7.68	NA	656.49	656.49
			11/04/19	NP	6.30	7.69	NA	657.37	657.37
MW-142S	657.90	2.5-7.5	06/14/19	NP	3.55	6.75	NA	654.35	654.35
			09/26/19	NP	5.34	6.75	NA	652.56	652.56
			11/04/19	NP	4.51	6.86	NA	653.39	653.39
MW-192S	654.92	2.5-7.5	06/14/19	NP	1.45	7.70	NA	653.47	653.47
			09/26/19	NP	3.10	7.68	NA	651.82	651.82
			11/04/19	NP	2.04	7.63	NA	652.88	652.88

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.

* MW-135S and MW-137S were re-surveyed after repairs on 11/12/2019.

(1) Monitoring well total depth incorrect due to field measurement error. Confirmed during sampling of the monitoring well.

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
NS	not surveyed
TOC	top of casing

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

Location:	Unit	Residential Drinking Water Criteria	MW-72											MW-72S				
Screen Interval (ft. bgs):			15-20											3-13				
Date:			5/22/2017	7/26/2017	11/7/2017	2/6/2018	5/9/2018	8/10/2018	10/22/2018	3/5/2019	5/17/2019	9/23/2019	11/5/2019	12/17/2018	3/5/2019	5/8/2019	9/23/2019	11/6/2019
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	0.97 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	< 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	< 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	< 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	< 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	0.20 J	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	1.0**	**3.9**	**2.9**	**1.6**	**1.3**	**1.5 J**	**1.2**	**1.1**	**1.9**	**1.7**	**1.5**	**2.8**	< 1.0	0.24 J	< 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
Iron, Total	µg/l	300	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
Manganese, Total	µg/l	50	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
Sulfate	mg/l	250	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
Total Organic Carbon	mg/l	NS	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
Ethene	µg/l	NS	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

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

Location:	Unit	Residential Drinking Water Criteria	MW-73D											MW-73S						
Screen Interval (ft. bgs):			13.5-18.5											7-12						
Date:			5/22/2017	7/26/2017	11/7/2017	2/6/2018	5/9/2018	8/10/2018	10/22/2018	3/4/2019	5/8/2019	9/24/2019	11/11/2019	5/22/2017	7/26/2017	11/7/2017	2/6/2018	5/9/2018	8/10/2018	10/22/2018
Semi-volatile Organic Compounds (SVOCs)																				
1,4-Dioxane	µg/l	7.2*	3.2	3.1	2.8	1.5 J	3.0	1.9 J	3.8	1.6 J	2.3	3.8	2.8	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.86 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	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	NA	0.45 J	0.50 J	0.43 J	0.35 J	0.56 J	0.19 J	0.30 J	< 1.0	< 1.0	< 1.0	NA	1.9	1.8	1.3	1.3	1.5	1.7
Tetrachloroethene	µg/l	5.0	NA	< 1.0	< 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
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	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J
Trichloroethene	µg/l	1.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0	< 1.0	< 1.0	0.40 J	0.48 J	0.48 J	0.33 J	0.38 J	0.51 J	0.46 J
Vinyl chloride	µg/l	1.0**	**1.1**	0.85 J	**1.3**	0.79 J	0.80 J	0.75 J	< 1.0	0.71 J	< 1.0	0.48 J	< 1.0	**1.6**	**1.3**	**1.9**	**1.1**	**1.2**	0.62 J	0.96 J
Metals																				
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**3,900**	NA	**1,200**	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**3,900**	NA	**1,200**	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**1,200**	NA	**940**	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**1,200**	NA	**890**	NA	NA	NA	NA
Anions																				
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	< 0.10	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	89	NA	NA	NA	NA
Total Organic Carbon (TOC)																				
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.1	NA	4.8	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2	NA	4.6	NA	NA	NA	NA
Gases																				
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	NA	NA	NA	NA

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

Location:		Residential Drinking Water Criteria	MW-73SR					MW-74										
Screen Interval (ft. bgs):			2.5-12.5					14-19										
Date:	Unit		12/17/2018	3/4/2019	5/8/2019	9/24/2019	11/11/2019	5/23/2017	7/26/2017	11/7/2017	2/6/2018	5/9/2018	8/9/2018	10/22/2018	3/8/2019	5/17/2019	9/18/2019	11/11/2019
Semi-volatile Organic Compounds (SVOCs)																		
1,4-Dioxane	µg/l	7.2*	0.87 J	< 2.0	< 2.0	< 2.0	< 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	1.4 J	1.4 J
Volatile Organic Compounds (VOCs)																		
1,1-Dichloroethene	µg/l	7.0	< 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	< 1.0
cis-1,2-Dichloroethene	µg/l	70	2.3	2.1	1.8	3.0	2.4	NA	< 1.0	< 1.0	0.42 J	0.96 J	0.41 J	0.45 J	0.84 J	1.3	0.62 J	0.62 J
Tetrachloroethene	µg/l	5.0	< 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	< 1.0
trans-1,2-Dichloroethene	µg/l	100	0.43 J	0.25 J	< 1.0	0.35 J	< 1.0	NA	< 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**	0.29 J	0.23 J	< 1.0	0.34 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
Vinyl chloride	µg/l	1.0**	**1.7**	**1.5**	< 1.0	**1.3**	1.0	< 1.0	**2.7**	**2.4**	**2.0**	0.70 J	**2.8**	**2.2**	**1.1**	< 1.0	**1.7**	**1.8**
Metals																		
Iron, Dissolved	µg/l	300	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
Manganese, Dissolved	µg/l	50	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
Anions																		
Nitrate-N	mg/l	10	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
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
Total Organic Carbon	mg/l	NS	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
Ethene	µg/l	NS	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

See Notes on Last Page.

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

Location:		Residential Drinking Water Criteria	MW-74S					MW-75D										
Screen Interval (ft. bgs):			3-13					12-17										
Date:	Unit		12/21/2018	3/8/2019	5/8/2019	9/18/2019	11/6/2019	5/23/2017	7/26/2017	11/8/2017	2/6/2018	5/9/2018	8/9/2018	10/22/2018	3/7/2019	5/15/2019	9/18/2019	11/26/2019
Semi-volatile Organic Compounds (SVOCs)																		
1,4-Dioxane	µg/l	7.2*	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.9 J	1.8 J	1.8 J	0.91 J	0.65 J	2.0	2.3	1.5 J	1.5 J	3.3	1.9 J
Volatile Organic Compounds (VOCs)																		
1,1-Dichloroethene	µg/l	7.0	< 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	< 1.0
cis-1,2-Dichloroethene	µg/l	70	1.3	0.82 J	0.97 J	1.0	1.5	NA	< 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	0.21 J	< 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	< 1.0
trans-1,2-Dichloroethene	µg/l	100	< 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	< 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
Vinyl chloride	µg/l	1.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**6.4**	**3.7**	**4.9 J**	**1.9**	**2.4**	**1.8**	**1.7**	**1.6**	**1.7**	**1.6**	**2.2**
Metals																		
Iron, Dissolved	µg/l	300	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
Manganese, Dissolved	µg/l	50	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
Anions																		
Nitrate-N	mg/l	10	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
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
Total Organic Carbon	mg/l	NS	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
Ethene	µg/l	NS	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

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

Location:		Residential Drinking Water Criteria	MW-75S									MW-75SR				
Screen Interval (ft. bgs):			5-10									2.5-12.5				
Date:	Unit		5/23/2017	7/26/2017	11/8/2017	2/6/2018	5/9/2018	8/9/2018	10/22/2018	12/18/2018	3/7/2019	12/18/2018	3/7/2019	5/9/2019	9/18/2019	11/26/2019
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	< 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	< 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	< 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	< 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	< 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
Vinyl chloride	µg/l	1.0**	0.45 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.51 J	0.33 J
Metals																
Iron, Dissolved	µg/l	300	< 100	NA	**330**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	210	NA	**350**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	**63**	NA	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	**70**	NA	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																
Nitrate-N	mg/l	10	**21**	NA	8.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	89	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																
Carbon, Dissolved	mg/l	NS	4.6	NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	3.6	NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																
Ethane	µg/l	NS	NA	NA	0.95 J	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
Methane	µg/l	NS	NA	NA	3,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Location:		Residential Drinking Water Criteria	MW-76												MW-76S				
Screen Interval (ft. bgs):			15-20												4.5-14.5				
Date:	Unit		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	5/17/2019	9/17/2019	11/20/2019	12/21/2018	3/1/2019	5/8/2019	9/17/2019	11/5/2019
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	< 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	<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	1.3	1.2	1.4	1.4	<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	< 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	0.22 J	< 1.0	< 1.0	0.26 J	<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	< 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	**340**	NA	270	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
Manganese, Dissolved	µg/l	50	**760**	NA	**760**	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
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
Sulfate	mg/l	250	120	NA	160	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
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
Gases																			
Ethane	µg/l	NS	NA	NA	< 1.0	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
Methane	µg/l	NS	NA	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Location:		Residential Drinking Water Criteria	MW-77											MW-77S				
Screen Interval (ft. bgs):			9-14											2.5-12.5				
Date:	Unit		5/25/2017	7/26/2017	11/10/2017	2/8/2018	5/11/2018	8/6/2018	10/23/2018	3/4/2019	5/16/2019	9/17/2019	11/22/2019	12/27/2018	3/4/2019	5/16/2019	9/17/2019	11/22/2019
Semi-volatile Organic Compounds (SVOCs)																		
1,4-Dioxane	µg/l	7.2*	NA	0.32 J	< 2.0	< 2.0	0.27 J	< 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	NA	< 1.0	< 1.0	< 1.0	< 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	NA	0.67 J	0.73 J	0.66 J	0.54 J	0.61 J	0.74 J	0.60 J	0.39 J	0.66 J	0.72 J	< 1.0	0.30 J	< 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	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0**	0.87 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.17 J	< 1.0	< 1.0	< 1.0	< 1.0	0.22 J	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	1.0**	0.51 J	0.45 J	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	0.48 J	0.24 J	0.35 J	< 1.0	< 1.0	0.20 J	< 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
Iron, Total	µg/l	300	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
Manganese, Total	µg/l	50	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
Sulfate	mg/l	250	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
Total Organic Carbon	mg/l	NS	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
Ethene	µg/l	NS	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

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

Location:		Residential Drinking Water Criteria	MW-78												MW-78S				
Screen Interval (ft. bgs):			7-12												2.5-12.5				
Date:	Unit		5/25/2017	7/25/2017	11/9/2017	2/8/2018	5/8/2018	8/6/2018	10/22/2018	12/19/2018	2/26/2019	5/13/2019	9/19/2019	11/14/2019	12/19/2018	2/26/2019	5/13/2019	9/19/2019	11/14/2019
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	< 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	< 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	< 1.0	0.22 J	0.19 J	0.22 J	0.41 J	<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	< 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	< 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	< 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
Iron, Total	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, Total	µg/l	50	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
Sulfate	mg/l	250	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
Total Organic Carbon	mg/l	NS	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
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

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

Location:		Residential Drinking Water Criteria	MW-79D											MW-79S						
Screen Interval (ft. bgs):			10-15											5-10						
Date:	Unit		5/24/2017	7/25/2017	11/9/2017	2/8/2018	5/8/2018	8/6/2018	10/24/2018	3/7/2019	5/15/2019	9/19/2019	11/12/2019	5/24/2017	7/25/2017	11/9/2017	2/8/2018	5/8/2018	8/6/2018	10/30/2018
Semi-volatile Organic Compounds (SVOCs)																				
1,4-Dioxane	µg/l	7.2*	NA	< 2.0	< 2.0	< 2.0	0.49 J	0.87 J	0.95 J	< 2.0	0.99 J	< 2.0	0.35 J	NA	< 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	< 1.0	NA	< 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	< 1.0	NA	< 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	< 1.0	NA	< 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	< 1.0	NA	< 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**	**3.2**	**4.1**	**3.6**	**1.9**	**3.5**	**2.8**	**1.3**	**1.6**	**2.6**	**1.5**	**2.6**	< 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	**990**	NA	**2,500**	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**1,100**	NA	**2,900**	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**110**	NA	**200**	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**120**	NA	**200**	NA	NA	NA	NA
Anions																				
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.063 J	NA	< 0.10	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41	NA	69	NA	NA	NA	NA
Total Organic Carbon (TOC)																				
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.1	NA	4.9	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.1	NA	4.4	NA	NA	NA	NA
Gases																				
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.6	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:	Unit	Residential Drinking Water Criteria	MW-79SR					MW-80S							MW-80SR				
Screen Interval (ft. bgs):			2.5-12.5					7-12							2.5-12.5				
Date:			12/19/2018	3/1/2019	5/15/2019	9/18/2019	11/13/2019	5/24/2017	7/25/2017	11/8/2017	2/8/2018	5/8/2018	8/6/2018	10/22/2018	12/27/2018	3/6/2019	5/10/2019	9/23/2019	11/5/2019
Semi-volatile Organic Compounds (SVOCs)																			
1,4-Dioxane	µg/l	7.2*	< 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	< 2.0	< 2.0	0.84 J
Volatile Organic Compounds (VOCs)																			
1,1-Dichloroethene	µg/l	7.0	< 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	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 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	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 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	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/l	100	< 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	< 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**	0.56 J	0.53 J	0.36 J	0.40 J	0.30 J	**4.6**	**7.1**	**7.6**	**2.9**	**6.3**	**6.2**	**4.1**	**1.4**	**2.1**	**3.2**	**3.4**	**3.6**
Metals																			
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	**600**	NA	**3,600**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	**530**	NA	**3,600**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	**200**	NA	**230**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	**190**	NA	**230**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																			
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	< 0.10	NA	< 0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	97	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																			
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	5.6	NA	5.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	4.5	NA	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																			
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	55	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Location:		Residential Drinking Water Criteria	MW-81											MW-81S				
Screen Interval (ft. bgs):			8-13											2.5-12.5				
Date:	Unit		5/26/2017	7/25/2017	11/9/2017	2/6/2018	5/10/2018	8/9/2018	10/23/2018	3/6/2019	5/17/2019	9/19/2019	11/7/2019	12/26/2018	3/6/2019	5/17/2019	9/19/2019	11/7/2019
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	< 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	< 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	< 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	< 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	< 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
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	< 1.0	< 1.0	< 1.0	0.66 J	< 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
Iron, Total	µg/l	300	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
Manganese, Total	µg/l	50	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
Sulfate	mg/l	250	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
Total Organic Carbon	mg/l	NS	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
Ethene	µg/l	NS	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

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

Location:	Unit	Residential Drinking Water Criteria	MW-82D											MW-82S						
Screen Interval (ft. bgs):			18-23											9-14						
Date:			5/24/2017	7/25/2017	11/8/2017	2/6/2018	5/10/2018	8/8/2018	10/23/2018	3/6/2019	5/17/2019	9/23/2019	11/7/2019	5/24/2017	7/25/2017	11/8/2017	2/6/2018	5/10/2018	8/8/2018	10/23/2018
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	< 2.0	NA	< 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	< 1.0	NA	< 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	< 1.0	NA	< 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	< 1.0	NA	< 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	< 1.0	NA	< 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	0.78 J	< 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	180	NA	**710**	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**380**	NA	**720**	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**510**	NA	**390**	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**550**	NA	**380**	NA	NA	NA	NA
Anions																				
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.10	NA	< 0.10	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**470**	NA	**270**	NA	NA	NA	NA
Total Organic Carbon (TOC)																				
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7	NA	4.8	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1	NA	2.2	NA	NA	NA	NA
Gases																				
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	NA	NA	NA	NA

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

Location:		Residential Drinking Water Criteria	MW-82SR					MW-83										
Screen Interval (ft. bgs):			5-15					8-13										
Date:	Unit		12/26/2018	3/5/2019	5/17/2019	9/23/2019	11/7/2019	5/26/2017	7/25/2017	11/9/2017	2/8/2018	5/11/2018	8/8/2018	10/22/2018	3/5/2019	5/22/2019	9/18/2019	11/5/2019
Semi-volatile Organic Compounds (SVOCs)																		
1,4-Dioxane	µg/l	7.2*	< 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	< 2.0
Volatile Organic Compounds (VOCs)																		
1,1-Dichloroethene	µg/l	7.0	< 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	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 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	< 1.0
Tetrachloroethene	µg/l	5.0	< 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	< 1.0
trans-1,2-Dichloroethene	µg/l	100	< 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	< 1.0
Trichloroethene	µg/l	1.0**	< 1.0	0.16 J	< 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
Vinyl chloride	µg/l	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	< 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
Iron, Total	µg/l	300	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
Manganese, Total	µg/l	50	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
Sulfate	mg/l	250	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
Total Organic Carbon	mg/l	NS	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
Ethene	µg/l	NS	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

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

Location:	Unit	Residential Drinking Water Criteria	MW-83S					MW-84										
Screen Interval (ft. bgs):			3-13					8-13										
Date:			12/26/2018	3/5/2019	5/22/2019	9/18/2019	11/5/2019	5/25/2017	7/25/2017	11/9/2017	2/8/2018	5/8/2018	8/6/2018	10/23/2018	2/28/2019	5/21/2019	9/24/2019	11/25/2019
Semi-volatile Organic Compounds (SVOCs)																		
1,4-Dioxane	µg/l	7.2*	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.86 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	NA	< 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	NA	< 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	NA	< 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	NA	< 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**	0.23 J	0.20 J	< 1.0	< 1.0	< 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
Vinyl chloride	µg/l	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	< 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
Iron, Total	µg/l	300	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
Manganese, Total	µg/l	50	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
Sulfate	mg/l	250	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
Total Organic Carbon	mg/l	NS	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
Ethene	µg/l	NS	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

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

Location:		Residential Drinking Water Criteria	MW-84S					MW-85											MW-85S
Screen Interval (ft. bgs):			2.5-12.5					8-13											2.5-12.5
Date:	Unit		12/21/2018	2/28/2019	5/9/2019	9/24/2019	11/25/2019	5/25/2017	7/25/2017	11/7/2017	2/8/2018	5/8/2018	8/8/2018	10/22/2018	2/26/2019	5/17/2019	9/17/2019	11/13/2019	12/21/2018
Semi-volatile Organic Compounds (SVOCs)																			
1,4-Dioxane	µg/l	7.2*	< 2.0	< 2.0	< 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	1.3 J	< 2.0	0.49 J	1.1 J
Volatile Organic Compounds (VOCs)																			
1,1-Dichloroethene	µg/l	7.0	< 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	< 1.0 J	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 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	< 1.0 J	< 1.0
Tetrachloroethene	µg/l	5.0	< 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	< 1.0 J	< 1.0
trans-1,2-Dichloroethene	µg/l	100	< 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	< 1.0 J	< 1.0
Trichloroethene	µg/l	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	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0
Vinyl chloride	µg/l	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**	**5.4**	**6.5**	**5.1 J**	**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
Iron, Total	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, Total	µg/l	50	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
Sulfate	mg/l	250	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
Total Organic Carbon	mg/l	NS	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
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

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

Location:	Unit	Residential Drinking Water Criteria	MW-85SR			MW-86										
Screen Interval (ft. bgs):			4.5-9.5			12-17										
Date:			4/12/2019	9/17/2019	11/13/2019	5/25/2017	7/26/2017	11/10/2017	2/8/2018	5/10/2018	8/6/2018	10/24/2018	2/28/2019	5/21/2019	9/19/2019	11/25/2019
Semi-volatile Organic Compounds (SVOCs)																
1,4-Dioxane	µg/l	7.2*	< 2.0	< 2.0	< 2.0	NA	0.99 J	0.87 J	< 2.0	1.2 J	< 2.0	1.4 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	NA	< 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	NA	< 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	NA	< 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	NA	< 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
Vinyl chloride	µg/l	1.0**	**2.2**	**2.1**	**1.4**	< 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
Iron, Total	µg/l	300	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
Manganese, Total	µg/l	50	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
Sulfate	mg/l	250	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
Total Organic Carbon	mg/l	NS	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
Ethene	µg/l	NS	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

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

Location:		Residential Drinking Water Criteria	MW-86S					MW-87											
Screen Interval (ft. bgs):			2.5-12.5					14-19											
Date:	Unit		12/18/2018	2/28/2019	5/13/2019	9/19/2019	11/25/2019	5/23/2017	7/26/2017	11/10/2017	2/8/2018	5/10/2018	8/6/2018	10/23/2018	12/21/2018	2/28/2019	5/21/2019	9/20/2019	11/22/2019
Semi-volatile Organic Compounds (SVOCs)																			
1,4-Dioxane	µg/l	7.2*	< 2.0	< 2.0	< 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	< 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	NA	< 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	NA	< 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	NA	< 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	NA	< 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
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
Metals																			
Iron, Dissolved	µg/l	300	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
Manganese, Dissolved	µg/l	50	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
Anions																			
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 (TOC)																			
Carbon, Dissolved	mg/l	NS	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
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

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

Location:	Unit	Residential Drinking Water Criteria	MW-87S					MW-96S					MW-97S				
Screen Interval (ft. bgs):			4.5-14.5					2.5-12.5					2.5-12.5				
Date:			12/21/2018	3/1/2019	5/13/2019	9/20/2019	11/22/2019	12/18/2018	2/27/2019	5/16/2019	9/20/2019	11/26/2019	12/27/2018	3/6/2019	5/10/2019	9/19/2019	11/22/2019
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	< 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	< 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
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
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
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
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	0.42 J	< 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
Iron, Total	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, Total	µg/l	50	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
Sulfate	mg/l	250	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
Total Organic Carbon	mg/l	NS	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
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

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

Location:		Residential Drinking Water Criteria	MW-98S					MW-99S					MW-100S				
Screen Interval (ft. bgs):			2.5-12.5					3-13					3-13				
Date:	Unit		12/19/2018	3/6/2019	5/10/2019	9/20/2019	11/13/2019	12/21/2018	3/7/2019	5/9/2019	9/16/2019	11/6/2019	12/18/2018	2/27/2019	5/9/2019	9/16/2019	11/26/2019
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	< 2.0	< 2.0	1.0 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
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0	0.94 J	0.57 J	0.89 J	0.30 J	0.41 J	< 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
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
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
Vinyl chloride	µg/l	1.0**	< 1.0	0.43 J	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	< 1.0	< 1.0	0.22 J	< 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
Iron, Total	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, Total	µg/l	50	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
Sulfate	mg/l	250	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
Total Organic Carbon	mg/l	NS	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
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

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

Location:			MW-101S					MW-102					MW-102S				
Screen Interval (ft. bgs):			4.5-14.5					10-15					2.5-12.5				
Date:	Unit	Residential Drinking Water Criteria	12/21/2018	3/6/2019	5/8/2019	9/16/2019	11/13/2019	12/19/2018	2/25/2019	5/17/2019	9/18/2019	11/18/2019	12/19/2018	2/25/2019	5/14/2019	9/18/2019	11/18/2019
Semi-volatile Organic Compounds (SVOCs)																	
1,4-Dioxane	µg/l	7.2*	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.7 J	1.3 J	1.1 J	1.0 J	1.0 J	< 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	< 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
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
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
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
Vinyl chloride	µg/l	1.0**	< 1.0	0.58 J	< 1.0	< 1.0	< 1.0	**1.6**	**1.7**	**1.8**	1.0	**1.4**	< 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
Iron, Total	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, Total	µg/l	50	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
Sulfate	mg/l	250	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
Total Organic Carbon	mg/l	NS	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
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

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

Location:		Residential Drinking Water Criteria	MW-105S					MW-106S					MW-107S				
Screen Interval (ft. bgs):			2.5-12.5					2.5-12.5					2.5-12.5				
Date:	Unit		12/26/2018	2/25/2019	5/14/2019	9/16/2019	11/13/2019	12/19/2018	2/27/2019	5/16/2019	9/23/2019	11/15/2019	12/26/2018	2/27/2019	5/10/2019	9/24/2019	11/12/2019
Semi-volatile Organic Compounds (SVOCs)																	
1,4-Dioxane	µg/l	7.2*	< 2.0	< 2.0	< 2.0	< 2.0	0.55 J	< 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 J	< 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 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 J	< 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 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 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 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**	< 1.0	< 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
Metals																	
Iron, Dissolved	µg/l	300	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
Manganese, Dissolved	µg/l	50	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
Anions																	
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 (TOC)																	
Carbon, Dissolved	mg/l	NS	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
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

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

Location:		Residential Drinking Water Criteria	MW-108S					MW-131S					MW-132S				
Screen Interval (ft. bgs):			2.5-12.5					2.5-12.5					2.5-12.5				
Date:	Unit		12/26/2018	2/25/2019	5/14/2019	9/19/2019	11/12/2019	12/26/2018	2/26/2019	5/14/2019	9/16/2019	11/12/2019	12/26/2018	2/26/2019	5/14/2019	9/16/2019	11/12/2019
Semi-volatile Organic Compounds (SVOCs)																	
1,4-Dioxane	µg/l	7.2*	0.90 J	NS	0.93 J	< 2.0	< 2.0	1.0 J	< 2.0	1.3 J	1.3 J	0.52 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																	
1,1-Dichloroethene	µg/l	7.0	< 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
cis-1,2-Dichloroethene	µg/l	70	< 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
Tetrachloroethene	µg/l	5.0	< 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
trans-1,2-Dichloroethene	µg/l	100	< 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
Trichloroethene	µg/l	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
Vinyl chloride	µg/l	1.0**	< 1.0	NS	< 1.0	< 1.0	< 1.0	0.98 J	0.69 J	0.85 J	0.87 J	**1.2**	< 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
Iron, Total	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, Total	µg/l	50	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
Sulfate	mg/l	250	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
Total Organic Carbon	mg/l	NS	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
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

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

Location:		Residential Drinking Water Criteria	MW-133S				MW-134S				MW-135S				MW-136S			
Screen Interval (ft. bgs):			4-9				5-10				5-10				2-7			
Date:	Unit		2/14/2019	5/23/2019	9/17/2019	11/7/2019	2/14/2019	5/20/2019	9/17/2019	11/5/2019	2/14/2019	5/20/2019	9/16/2019	11/5/2019	2/19/2019	5/22/2019	9/18/2019	11/13/2019
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	< 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	< 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
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
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
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
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	0.96 J	< 1.0
Metals																		
Iron, Dissolved	µg/l	300	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
Manganese, Dissolved	µg/l	50	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
Anions																		
Nitrate-N	mg/l	10	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
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
Total Organic Carbon	mg/l	NS	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
Ethene	µg/l	NS	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

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

Location:		Residential Drinking Water Criteria	MW-137S				MW-138S				MW-139S				MW-140S			
Screen Interval (ft. bgs):			2-7				2-7				2-7				2-7			
Date:	Unit		2/23/2019	5/13/2019	9/23/2019	11/5/2019	2/19/2019	5/16/2019	9/23/2019	11/15/2019	2/26/2019	5/9/2019	9/20/2019	11/13/2019	2/26/2019	5/16/2019	9/18/2019	11/12/2019
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	< 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	< 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
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
trans-1,2-Dichloroethene	µg/l	100	< 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
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
Vinyl chloride	µg/l	1.0**	< 1.0	0.91 J	**1.1**	0.50 J	**1.7**	**1.6**	**1.4**	**1.2**	< 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
Iron, Total	µg/l	300	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
Manganese, Total	µg/l	50	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
Sulfate	mg/l	250	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
Total Organic Carbon	mg/l	NS	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
Ethene	µg/l	NS	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

See Notes on Last Page.

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

Location:		Residential Drinking Water Criteria	MW-141S				MW-142S				MW-192S		
Screen Interval (ft. bgs):			3-8				2.5-7.5				2.5-7.5		
Date:	Unit		2/27/2019	5/15/2019	9/18/2019	11/13/2019	2/25/2019	5/23/2019	9/16/2019	11/13/2019	4/11/2019	9/20/2019	11/15/2019
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	< 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
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	0.34 J	0.53 J
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
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 J
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
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
Metals													
Iron, Dissolved	µg/l	300	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
Manganese, Dissolved	µg/l	50	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
Anions													
Nitrate-N	mg/l	10	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
Total Organic Carbon (TOC)													
Carbon, Dissolved	mg/l	NS	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
Gases													
Ethane	µg/l	NS	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
Methane	µg/l	NS	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 EGLE Part 201 Generic Cleanup Criteria, June 2018.

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 EGLE Proposed Rule Changes (September 2016) and Emergency Rules (October 27, 2016).

** Groundwater results for Trichloroethene and Vinyl Chloride are compared to the published EGLE 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
mg/l	milligrams per liter
NA	not analyzed
NS	no standard / not sampled
µg/l	micrograms per liter

Analytical Methods:

8260B
8260 SIM

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Table 5
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)
10/1/2019[S]	39,394	11/1/2019[Ω]	42,097	12/1/2019	51,530
10/2/2019	47,805	11/2/2019	47,000	12/2/2019[Ω]	51,076
10/3/2019[Ω*]	45,858	11/3/2019	52,277	12/3/2019	56,650
10/4/2019[Ω]	44,084	11/4/2019[Ω]	45,348	12/4/2019	62,094
10/5/2019	47,749	11/5/2019[*]	41,960	12/5/2019	62,752
10/6/2019	42,477	11/6/2019	37,289	12/6/2019[Ω*]	62,281
10/7/2019[Ω]	39,623	11/7/2019	34,809	12/7/2019	61,993
10/8/2019	37,538	11/8/2019[Ω]	34,896	12/8/2019	61,577
10/9/2019	36,555	11/9/2019	34,807	12/9/2019[ΩS]	58,975
10/10/2019	36,022	11/10/2019	34,629	12/10/2019	61,188
10/11/2019[ΩS]	36,406	11/11/2019[Ω]	35,595	12/11/2019	61,009
10/12/2019	40,163	11/12/2019	34,326	12/12/2019[Ω]	61,225
10/13/2019	39,819	11/13/2019	32,348	12/13/2019[Ω]	58,414
10/14/2019	41,858	11/14/2019	34,439	12/14/2019[Ω]	59,314
10/15/2019[Ω]	43,442	11/15/2019	36,072	12/15/2019	58,610
10/16/2019	43,112	11/16/2019[Ω]	43,837	12/16/2019[Ω]	57,996
10/17/2019	42,795	11/17/2019	56,964	12/17/2019	57,621
10/18/2019[Ω]	41,862	11/18/2019[Ω]	57,607	12/18/2019	57,023
10/19/2019	40,118	11/19/2019	60,399	12/19/2019	56,969
10/20/2019	36,398	11/20/2019[S]	23,297	12/20/2019[Ω]	56,640
10/21/2019	34,524	11/21/2019[S]	25,781	12/21/2019	56,382
10/22/2019[Ω]	32,564	11/22/2019[Ω]	61,481	12/22/2019	55,277
10/23/2019	31,439	11/23/2019	61,096	12/23/2019[Ω]	52,824
10/24/2019	31,529	11/24/2019	59,737	12/24/2019	50,568
10/25/2019[Ω]	30,545	11/25/2019[Ω]	56,970	12/25/2019	48,608
10/26/2019	30,275	11/26/2019	56,430	12/26/2019	47,538
10/27/2019	30,568	11/27/2019	54,456	12/27/2019[Ω]	47,120
10/28/2019[ΩS]	25,809	11/28/2019	54,289	12/28/2019	47,070
10/29/2019	27,162	11/29/2019	53,747	12/29/2019	46,143
10/30/2019	27,315	11/30/2019	52,634	12/30/2019[Ω]	44,919
10/31/2019	33,806	--	--	12/31/2019	44,831
Total volume discharged during October 2019	**1,158,614**	**Total volume discharged during November 2019**	**1,356,617**	**Total volume discharged during December 2019**	**1,716,217**

Notes:
Treated groundwater discharge volume readings are recorded daily.

Footnotes:

[¥] Volume of treated groundwater discharged from the hydraulic control 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] Hydraulic control system inspection visit.

[S] System shut down.

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FIGURES

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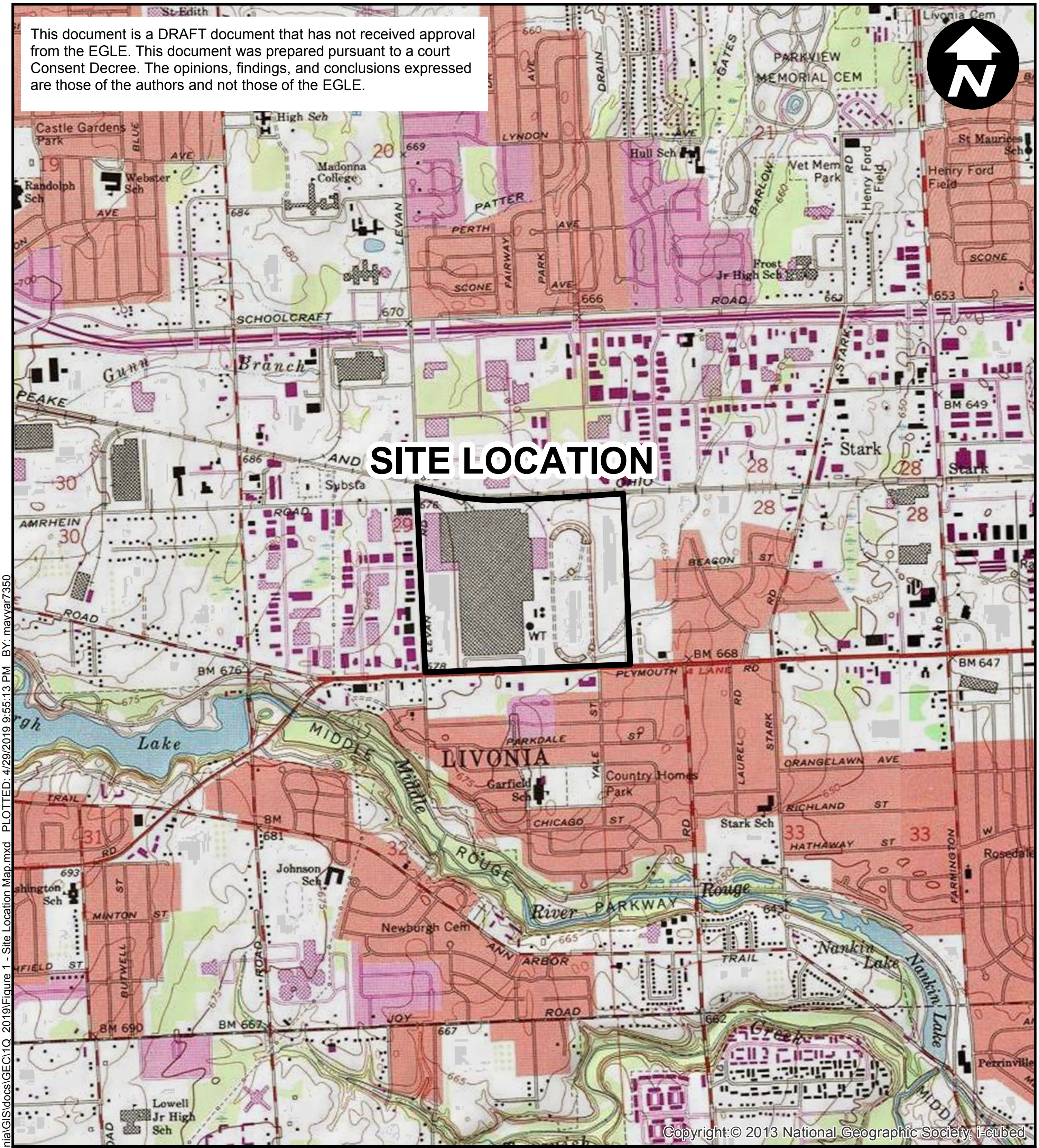

0 2,000 4,000

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: MI001454.0007 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\Ford\Livonia\GIS\docs\GEC\1Q_2019\Figure 1 - Site Location Map.mxd PLOTTED: 4/29/2019 9:55:13 PM BY: mayyar7350

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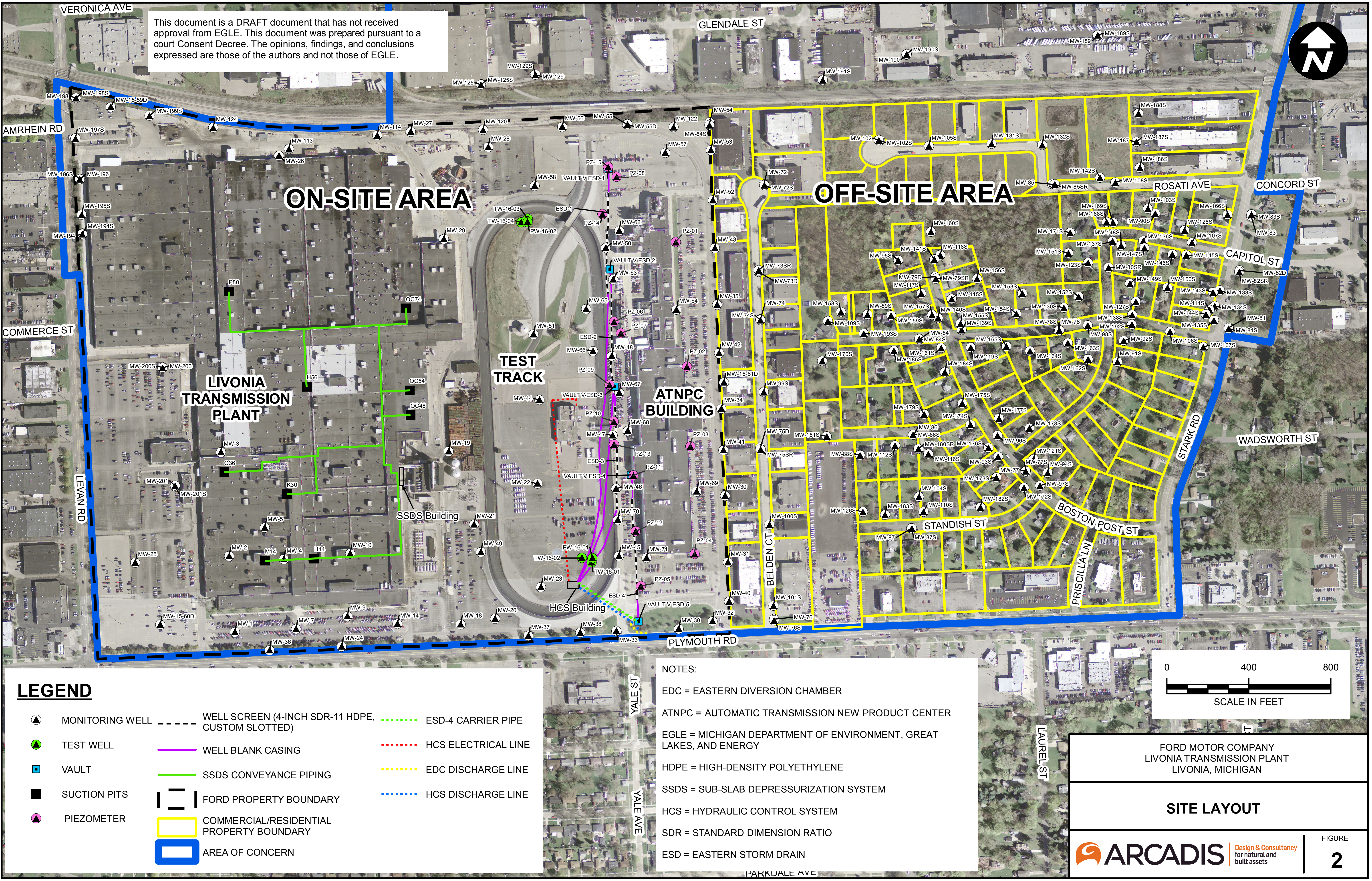

LEGEND

▲ MONITORING WELL

▲ TEST WELL

▣ VAULT

■ SUCTION PITS

▲ PIEZOMETER

- - - WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)

— WELL BLANK CASING

— SSDS CONVEYANCE PIPING

▭ FORD PROPERTY BOUNDARY

▭ COMMERCIAL/RESIDENTIAL PROPERTY BOUNDARY

▭ AREA OF CONCERN

····· ESD-4 CARRIER PIPE

····· HCS ELECTRICAL LINE

····· EDC DISCHARGE LINE

····· HCS DISCHARGE LINE

NOTES:

EDC = EASTERN DIVERSION CHAMBER

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

SDR = STANDARD DIMENSION RATIO

ESD = EASTERN STORM DRAIN

0 400 800

SCALE IN FEET

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: 30016352.0004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\Ford\Livonia\GIS\docs\2020-01\Figure 2 - Site Layout On-site and Off-site MW.mxd PLOTTED: 1/8/2020 11:19:48 AM BY: msmiller

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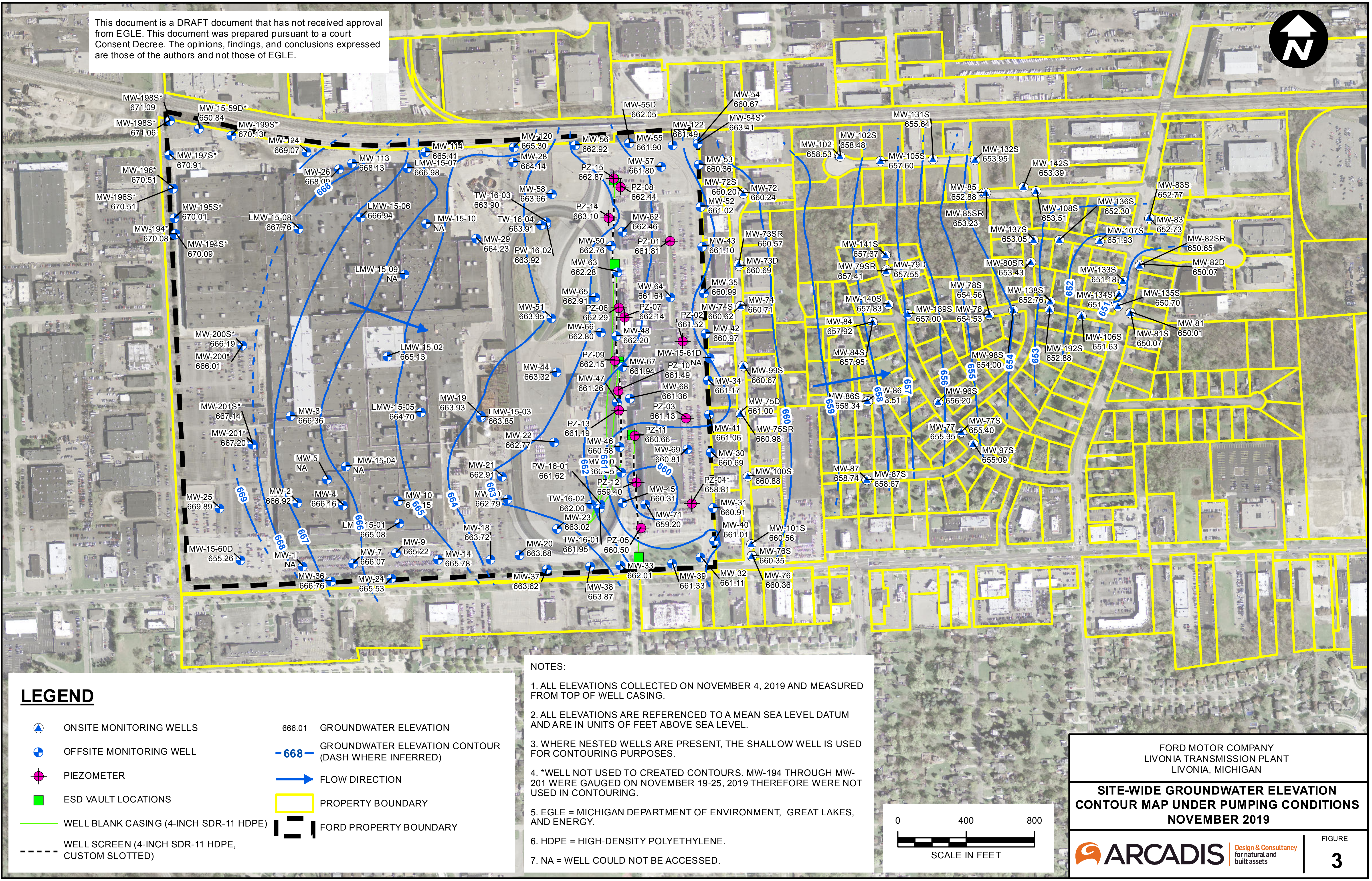

LEGEND

▲	ONSITE MONITORING WELLS	666.01	GROUNDWATER ELEVATION
●	OFFSITE MONITORING WELL	668	GROUNDWATER ELEVATION CONTOUR (DASH WHERE INFERRED)
⊕	PIEZOMETER	→	FLOW DIRECTION
🟩	ESD VAULT LOCATIONS	▭	PROPERTY BOUNDARY
—	WELL BLANK CASING (4-INCH SDR-11 HDPE)	▭	FORD PROPERTY BOUNDARY
- - -	WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)		

NOTES:

1. ALL ELEVATIONS COLLECTED ON NOVEMBER 4, 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.

3. WHERE NESTED WELLS ARE PRESENT, THE SHALLOW WELL IS USED FOR CONTOURING PURPOSES.

4. *WELL NOT USED TO CREATED CONTOURS. MW-194 THROUGH MW-201 WERE GAUGED ON NOVEMBER 19-25, 2019 THEREFORE WERE NOT USED IN CONTOURING.

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

6. HDPE = HIGH-DENSITY POLYETHYLENE.

7. NA = WELL COULD NOT BE ACCESSED.

0 400 800
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

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

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3

CITY: Novi DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY PROJECT NUMBER: MI001454.0007 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
Z:\GISProjects_ENV\NoviBrighton_MI\Ford\Livonia\GIS\docs\2020-01\GWE\GWE_DatapostQ4_OnsiteOffsiteNov2019.mxd PLOTTED: 1/17/2020 2:54:13 PM BY: msmiller

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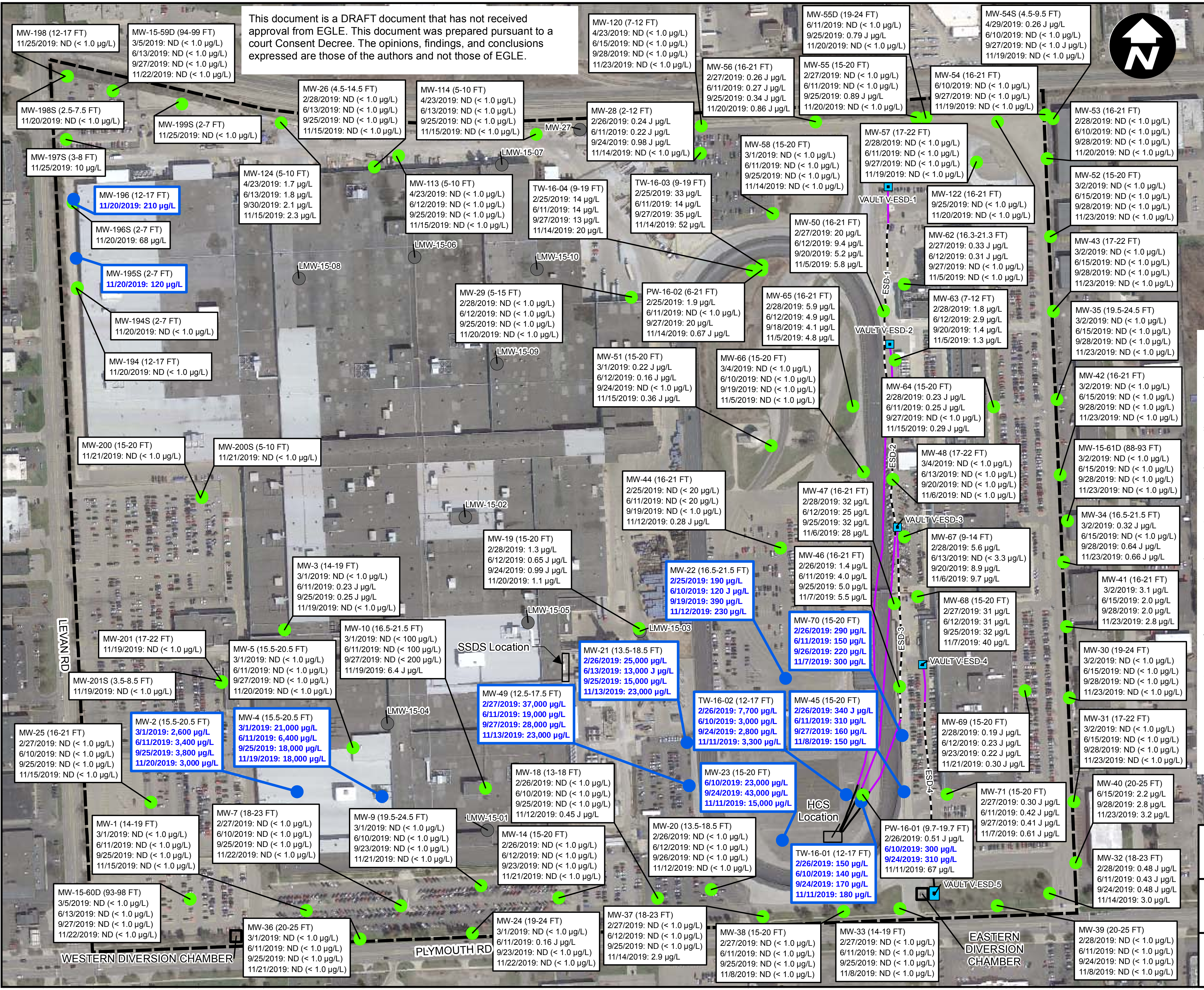


MW-198 (12-17 FT)
11/25/2019: ND (< 1.0 µg/L)

MW-15-59D (94-99 FT)
3/5/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-198S (2.5-7.5 FT)
11/20/2019: ND (< 1.0 µg/L)

MW-199S (2-7 FT)
11/25/2019: ND (< 1.0 µg/L)

MW-197S (3-8 FT)
11/25/2019: 10 µg/L

MW-196 (12-17 FT)
11/20/2019: 210 µg/L

MW-196S (2-7 FT)
11/20/2019: 68 µg/L

MW-195S (2-7 FT)
11/20/2019: 120 µg/L

MW-194S (2-7 FT)
11/20/2019: ND (< 1.0 µg/L)

MW-194 (12-17 FT)
11/20/2019: ND (< 1.0 µg/L)

MW-26 (4.5-14.5 FT)
2/28/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-124 (5-10 FT)
4/23/2019: 1.7 µg/L
6/13/2019: 1.8 µg/L
9/30/2019: 2.1 µg/L
11/15/2019: 2.3 µg/L

MW-114 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-113 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-120 (7-12 FT)
4/23/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-28 (2-12 FT)
2/26/2019: 0.24 J µg/L
6/11/2019: 0.22 J µg/L
9/24/2019: 0.98 J µg/L
11/14/2019: ND (< 1.0 µg/L)

TW-16-04 (9-19 FT)
2/25/2019: 14 µg/L
6/11/2019: 14 µg/L
9/27/2019: 13 µg/L
11/14/2019: 20 µg/L

TW-16-03 (9-19 FT)
2/25/2019: 33 µg/L
6/11/2019: 14 µg/L
9/27/2019: 35 µg/L
11/14/2019: 52 µg/L

MW-56 (16-21 FT)
2/27/2019: 0.26 J µg/L
6/11/2019: 0.27 J µg/L
9/25/2019: 0.34 J µg/L
11/20/2019: 0.86 J µg/L

MW-58 (15-20 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-55D (19-24 FT)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: 0.79 J µg/L
11/20/2019: ND (< 1.0 µg/L)

MW-55 (15-20 FT)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: 0.89 J µg/L
11/20/2019: ND (< 1.0 µg/L)

MW-54S (4.5-9.5 FT)
4/29/2019: 0.26 J µg/L
6/10/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 J µg/L)
11/19/2019: ND (< 1.0 µg/L)

MW-54 (16-21 FT)
6/10/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/19/2019: ND (< 1.0 µg/L)

MW-57 (17-22 FT)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/19/2019: ND (< 1.0 µg/L)

MW-122 (16-21 FT)
9/25/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-53 (16-21 FT)
2/28/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-52 (15-20 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-50 (16-21 FT)
2/27/2019: 20 µg/L
6/12/2019: 9.4 µg/L
9/20/2019: 5.2 µg/L
11/5/2019: 5.8 µg/L

MW-62 (16.3-21.3 FT)
2/27/2019: 0.33 J µg/L
6/12/2019: 0.31 J µg/L
9/27/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-43 (17-22 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-29 (5-15 FT)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

PW-16-02 (6-21 FT)
2/25/2019: 1.9 µg/L
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: 20 µg/L
11/14/2019: 0.67 J µg/L

MW-65 (16-21 FT)
2/28/2019: 5.9 µg/L
6/12/2019: 4.9 µg/L
9/18/2019: 4.1 µg/L
11/5/2019: 4.8 µg/L

MW-63 (7-12 FT)
2/28/2019: 1.8 µg/L
6/12/2019: 2.9 µg/L
9/20/2019: 1.4 µg/L
11/5/2019: 1.3 µg/L

MW-35 (19.5-24.5 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-51 (15-20 FT)
3/1/2019: 0.22 J µg/L
6/12/2019: 0.16 J µg/L
9/24/2019: ND (< 1.0 µg/L)
11/15/2019: 0.36 J µg/L

MW-66 (15-20 FT)
3/4/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-64 (15-20 FT)
2/28/2019: 0.23 J µg/L
6/11/2019: 0.25 J µg/L
9/27/2019: ND (< 1.0 µg/L)
11/15/2019: 0.29 J µg/L

MW-42 (16-21 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-200 (15-20 FT)
11/21/2019: ND (< 1.0 µg/L)

MW-200S (5-10 FT)
11/21/2019: ND (< 1.0 µg/L)

MW-44 (16-21 FT)
2/25/2019: ND (< 20 µg/L)
6/11/2019: ND (< 20 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/12/2019: 0.28 J µg/L

MW-47 (16-21 FT)
2/28/2019: 32 µg/L
6/12/2019: 25 µg/L
9/25/2019: 32 µg/L
11/6/2019: 28 µg/L

MW-48 (17-22 FT)
3/4/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/6/2019: ND (< 1.0 µg/L)

MW-15-61D (88-93 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-19 (15-20 FT)
2/28/2019: 1.3 µg/L
6/12/2019: 0.65 J µg/L
9/24/2019: 0.99 J µg/L
11/20/2019: 1.1 µg/L

MW-22 (16.5-21.5 FT)
2/25/2019: 190 µg/L
6/10/2019: 120 J µg/L
9/19/2019: 390 µg/L
11/12/2019: 230 µg/L

MW-46 (16-21 FT)
2/26/2019: 1.4 µg/L
6/11/2019: 4.0 µg/L
9/25/2019: 5.0 µg/L
11/7/2019: 5.5 µg/L

MW-67 (9-14 FT)
2/28/2019: 5.6 µg/L
6/13/2019: ND (< 3.3 µg/L)
9/20/2019: 8.9 µg/L
11/6/2019: 9.7 µg/L

MW-34 (16.5-21.5 FT)
3/2/2019: 0.32 J µg/L
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: 0.64 J µg/L
11/23/2019: 0.66 J µg/L

MW-3 (14-19 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: 0.23 J µg/L
9/25/2019: 0.25 J µg/L
11/19/2019: ND (< 1.0 µg/L)

MW-41 (16-21 FT)
3/2/2019: 3.1 µg/L
6/15/2019: 2.0 µg/L
9/28/2019: 2.0 µg/L
11/23/2019: 2.8 µg/L

MW-68 (15-20 FT)
2/27/2019: 31 µg/L
6/12/2019: 31 µg/L
9/25/2019: 32 µg/L
11/7/2019: 40 µg/L

MW-70 (15-20 FT)
2/26/2019: 290 µg/L
6/11/2019: 150 µg/L
9/26/2019: 220 µg/L
11/7/2019: 300 µg/L

MW-201 (17-22 FT)
11/19/2019: ND (< 1.0 µg/L)

MW-5 (15.5-20.5 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-10 (16.5-21.5 FT)
3/1/2019: ND (< 100 µg/L)
6/11/2019: ND (< 100 µg/L)
9/27/2019: ND (< 200 µg/L)
11/19/2019: 6.4 J µg/L

MW-21 (13.5-18.5 FT)
2/26/2019: 25,000 µg/L
6/13/2019: 13,000 J µg/L
9/25/2019: 15,000 µg/L
11/13/2019: 23,000 µg/L

MW-30 (19-24 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-201S (3.5-8.5 FT)
11/19/2019: ND (< 1.0 µg/L)

MW-49 (12.5-17.5 FT)
2/27/2019: 37,000 µg/L
6/11/2019: 19,000 µg/L
9/27/2019: 28,000 µg/L
11/13/2019: 23,000 µg/L

TW-16-02 (12-17 FT)
2/26/2019: 7,700 µg/L
6/10/2019: 3,000 µg/L
9/24/2019: 2,800 µg/L
11/11/2019: 3,300 µg/L

MW-45 (15-20 FT)
2/26/2019: 340 J µg/L
6/11/2019: 310 µg/L
9/27/2019: 160 µg/L
11/8/2019: 150 µg/L

MW-69 (15-20 FT)
2/28/2019: 0.19 J µg/L
6/12/2019: 0.23 J µg/L
9/23/2019: 0.22 J µg/L
11/21/2019: 0.30 J µg/L

MW-31 (17-22 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-25 (16-21 FT)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-2 (15.5-20.5 FT)
3/1/2019: 2,600 µg/L
6/11/2019: 3,400 µg/L
9/25/2019: 3,800 µg/L
11/20/2019: 3,000 µg/L

MW-4 (15.5-20.5 FT)
3/1/2019: 21,000 µg/L
6/11/2019: 6,400 µg/L
9/25/2019: 18,000 µg/L
11/19/2019: 18,000 µg/L

MW-18 (13-18 FT)
2/26/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/12/2019: 0.45 J µg/L

MW-23 (15-20 FT)
6/10/2019: 23,000 µg/L
9/24/2019: 43,000 µg/L
11/11/2019: 15,000 µg/L

MW-71 (15-20 FT)
2/27/2019: 0.30 J µg/L
6/11/2019: 0.42 J µg/L
9/27/2019: 0.41 J µg/L
11/7/2019: 0.61 J µg/L

MW-40 (20-25 FT)
6/15/2019: 2.2 µg/L
9/28/2019: 2.8 µg/L
11/23/2019: 3.2 µg/L

MW-1 (14-19 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-7 (18-23 FT)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-9 (19.5-24.5 FT)
3/1/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/21/2019: ND (< 1.0 µg/L)

MW-14 (15-20 FT)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/21/2019: ND (< 1.0 µg/L)

MW-20 (13.5-18.5 FT)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/26/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

PW-16-01 (9.7-19.7 FT)
2/26/2019: 0.51 J µg/L
6/10/2019: 300 µg/L
9/24/2019: 310 µg/L
11/11/2019: 67 µg/L

TW-16-01 (12-17 FT)
2/26/2019: 150 µg/L
6/10/2019: 140 µg/L
9/24/2019: 170 µg/L
11/11/2019: 180 µg/L

MW-32 (18-23 FT)
2/28/2019: 0.48 J µg/L
6/11/2019: 0.43 J µg/L
9/24/2019: 0.48 J µg/L
11/14/2019: 3.0 µg/L

MW-15-60D (93-98 FT)
3/5/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-36 (20-25 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/21/2019: ND (< 1.0 µg/L)

MW-24 (19-24 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: 0.16 J µg/L
9/23/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-37 (18-23 FT)
2/27/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/14/2019: 2.9 µg/L

MW-38 (15-20 FT)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/8/2019: ND (< 1.0 µg/L)

MW-33 (14-19 FT)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/8/2019: ND (< 1.0 µg/L)

MW-39 (20-25 FT)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/8/2019: ND (< 1.0 µg/L)

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 (FEBRUARY/MARCH 2019, APRIL/JUNE 2019, SEPTEMBER 2019, AND NOVEMBER 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 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

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

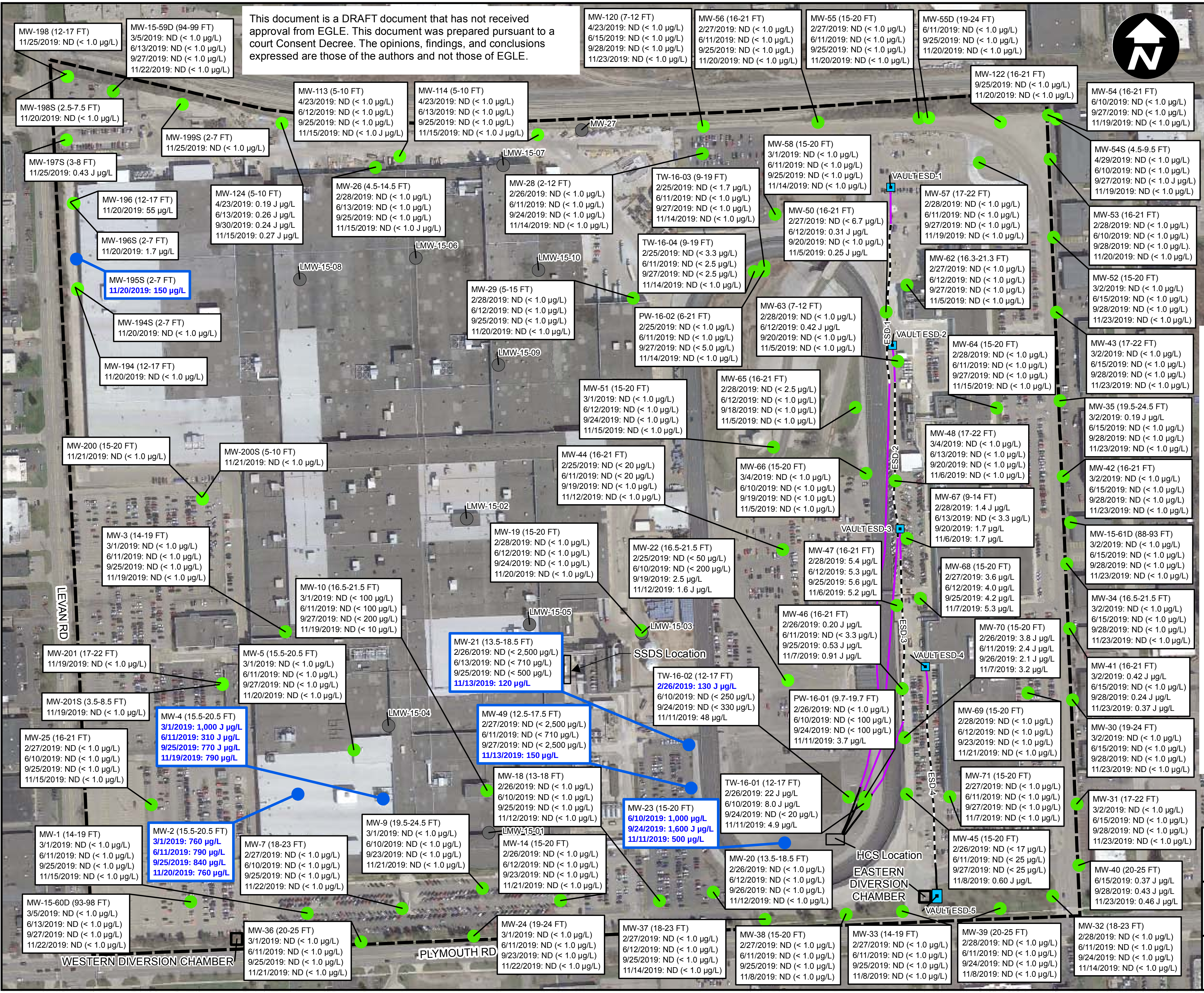
ARCADIS Design & Consultancy for natural and built assets

FIGURE
4

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet BY: Sharmayh4948
Z:\GISProjects_ENV\NoviBrighton_MI\Ford\Livonia\GIS\docs\GEC\Progress Report_Quarter 4_2019\Figure 4_On-Site GWA cis.mxd PLOTTED: 1/14/2020 9:58:13 PM

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet PLOTTED: 1/14/2020 10:15:13 PM BY: Sharmayh4948
Z:\GISProjects_ENV\NoviBrighton_MI\Ford\Livonia\GIS\docs\GEC\Progress Report_Quarter 4_2019\Figure 5_On-Site GWA trans.mxd

This document is a DRAFT document that has not received approval from 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 EGLE.



MW-198 (12-17 FT)
11/25/2019: ND (< 1.0 µg/L)

MW-15-59D (94-99 FT)
3/5/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-198S (2.5-7.5 FT)
11/20/2019: ND (< 1.0 µg/L)

MW-199S (2-7 FT)
11/25/2019: ND (< 1.0 µg/L)

MW-197S (3-8 FT)
11/25/2019: 0.43 J µg/L

MW-113 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 J µg/L)

MW-114 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 J µg/L)

MW-120 (7-12 FT)
4/23/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-56 (16-21 FT)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-55 (15-20 FT)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-55D (19-24 FT)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-122 (16-21 FT)
9/25/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-54 (16-21 FT)
6/10/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/19/2019: ND (< 1.0 µg/L)

MW-54S (4.5-9.5 FT)
4/29/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 J µg/L)
11/19/2019: ND (< 1.0 µg/L)

MW-196 (12-17 FT)
11/20/2019: 55 µg/L

MW-196S (2-7 FT)
11/20/2019: 1.7 µg/L

MW-124 (5-10 FT)
4/23/2019: 0.19 J µg/L
6/13/2019: 0.26 J µg/L
9/30/2019: 0.24 J µg/L
11/15/2019: 0.27 J µg/L

MW-26 (4.5-14.5 FT)
2/28/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 J µg/L)

MW-28 (2-12 FT)
2/26/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

TW-16-03 (9-19 FT)
2/25/2019: ND (< 1.7 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-58 (15-20 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-50 (16-21 FT)
2/27/2019: ND (< 6.7 µg/L)
6/12/2019: 0.31 J µg/L
9/20/2019: ND (< 1.0 µg/L)
11/5/2019: 0.25 J µg/L

MW-57 (17-22 FT)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/19/2019: ND (< 1.0 µg/L)

MW-53 (16-21 FT)
2/28/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L).
11/20/2019: ND (< 1.0 µg/L)

TW-16-04 (9-19 FT)
2/25/2019: ND (< 3.3 µg/L)
6/11/2019: ND (< 2.5 µg/L)
9/27/2019: ND (< 2.5 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-62 (16.3-21.3 FT)
2/27/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-52 (15-20 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-195S (2-7 FT)
11/20/2019: 150 µg/L

MW-29 (5-15 FT)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-63 (7-12 FT)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: 0.42 J µg/L
9/20/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

PW-16-02 (6-21 FT)
2/25/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 5.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-194S (2-7 FT)
11/20/2019: ND (< 1.0 µg/L)

MW-64 (15-20 FT)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-43 (17-22 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-194 (12-17 FT)
11/20/2019: ND (< 1.0 µg/L)

MW-65 (16-21 FT)
2/28/2019: ND (< 2.5 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-51 (15-20 FT)
3/1/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-35 (19.5-24.5 FT)
3/2/2019: 0.19 J µg/L
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-48 (17-22 FT)
3/4/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/6/2019: ND (< 1.0 µg/L)

MW-200 (15-20 FT)
11/21/2019: ND (< 1.0 µg/L)

MW-200S (5-10 FT)
11/21/2019: ND (< 1.0 µg/L)

MW-44 (16-21 FT)
2/25/2019: ND (< 20 µg/L)
6/11/2019: ND (< 20 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-66 (15-20 FT)
3/4/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-42 (16-21 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-67 (9-14 FT)
2/28/2019: 1.4 J µg/L
6/13/2019: ND (< 3.3 µg/L)
9/20/2019: 1.7 µg/L
11/6/2019: 1.7 µg/L

MW-3 (14-19 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/19/2019: ND (< 1.0 µg/L)

MW-19 (15-20 FT)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-22 (16.5-21.5 FT)
2/25/2019: ND (< 50 µg/L)
6/10/2019: ND (< 200 µg/L)
9/19/2019: 2.5 µg/L
11/12/2019: 1.6 J µg/L

MW-47 (16-21 FT)
2/28/2019: 5.4 µg/L
6/12/2019: 5.3 µg/L
9/25/2019: 5.6 µg/L
11/6/2019: 5.2 µg/L

MW-15-61D (88-93 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-68 (15-20 FT)
2/27/2019: 3.6 µg/L
6/12/2019: 4.0 µg/L
9/25/2019: 4.2 µg/L
11/7/2019: 5.3 µg/L

MW-10 (16.5-21.5 FT)
3/1/2019: ND (< 100 µg/L)
6/11/2019: ND (< 100 µg/L)
9/27/2019: ND (< 200 µg/L)
11/19/2019: ND (< 10 µg/L)

MW-34 (16.5-21.5 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-46 (16-21 FT)
2/26/2019: 0.20 J µg/L
6/11/2019: ND (< 3.3 µg/L)
9/25/2019: 0.53 J µg/L
11/7/2019: 0.91 J µg/L

MW-70 (15-20 FT)
2/26/2019: 3.8 J µg/L
6/11/2019: 2.4 J µg/L
9/26/2019: 2.1 J µg/L
11/7/2019: 3.2 µg/L

MW-21 (13.5-18.5 FT)
2/26/2019: ND (< 2,500 µg/L)
6/13/2019: ND (< 710 µg/L)
9/25/2019: ND (< 500 µg/L)
11/13/2019: 120 µg/L

MW-201 (17-22 FT)
11/19/2019: ND (< 1.0 µg/L)

MW-5 (15.5-20.5 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

TW-16-02 (12-17 FT)
2/26/2019: 130 J µg/L
6/10/2019: ND (< 250 µg/L)
9/24/2019: ND (< 330 µg/L)
11/11/2019: 48 µg/L

MW-41 (16-21 FT)
3/2/2019: 0.42 J µg/L
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: 0.24 J µg/L
11/23/2019: 0.37 J µg/L

MW-201S (3.5-8.5 FT)
11/19/2019: ND (< 1.0 µg/L)

MW-4 (15.5-20.5 FT)
3/1/2019: 1,000 J µg/L
6/11/2019: 310 J µg/L
9/25/2019: 770 J µg/L
11/19/2019: 790 µg/L

MW-49 (12.5-17.5 FT)
2/27/2019: ND (< 2,500 µg/L)
6/11/2019: ND (< 710 µg/L)
9/27/2019: ND (< 2,500 µg/L)
11/13/2019: 150 µg/L

PW-16-01 (9.7-19.7 FT)
2/26/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 100 µg/L)
9/24/2019: ND (< 100 µg/L)
11/11/2019: 3.7 µg/L

MW-69 (15-20 FT)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/21/2019: ND (< 1.0 µg/L)

MW-30 (19-24 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-25 (16-21 FT)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-18 (13-18 FT)
2/26/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

TW-16-01 (12-17 FT)
2/26/2019: 22 J µg/L
6/10/2019: 8.0 J µg/L
9/24/2019: ND (< 20 µg/L)
11/11/2019: 4.9 µg/L

MW-71 (15-20 FT)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/7/2019: ND (< 1.0 µg/L)

MW-31 (17-22 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-23 (15-20 FT)
6/10/2019: 1,000 µg/L
9/24/2019: 1,600 J µg/L
11/11/2019: 500 µg/L

MW-1 (14-19 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-2 (15.5-20.5 FT)
3/1/2019: 760 µg/L
6/11/2019: 790 µg/L
9/25/2019: 840 µg/L
11/20/2019: 760 µg/L

MW-7 (18-23 FT)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-9 (19.5-24.5 FT)
3/1/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/21/2019: ND (< 1.0 µg/L)

MW-14 (15-20 FT)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/21/2019: ND (< 1.0 µg/L)

MW-20 (13.5-18.5 FT)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/26/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-45 (15-20 FT)
2/26/2019: ND (< 17 µg/L)
6/11/2019: ND (< 25 µg/L)
9/27/2019: ND (< 25 µg/L)
11/8/2019: 0.60 J µg/L

MW-40 (20-25 FT)
6/15/2019: 0.37 J µg/L
9/28/2019: 0.43 J µg/L
11/23/2019: 0.46 J µg/L

MW-15-60D (93-98 FT)
3/5/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-36 (20-25 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/21/2019: ND (< 1.0 µg/L)

MW-24 (19-24 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-37 (18-23 FT)
2/27/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-38 (15-20 FT)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/8/2019: ND (< 1.0 µg/L)

MW-33 (14-19 FT)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/8/2019: ND (< 1.0 µg/L)

MW-39 (20-25 FT)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/8/2019: ND (< 1.0 µg/L)

MW-32 (18-23 FT)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/14/2019: 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 (FEBRUARY/MARCH 2019, APRIL/JUNE 2019, SEPTEMBER 2019, AND NOVEMBER 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

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

HDPE = HIGH-DENSITY POLYETHYLENE

SSDS = SUB-SLAB DEPRESSURIZATION SYSTEM

HCS = HYDRAULIC CONTROL SYSTEM

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

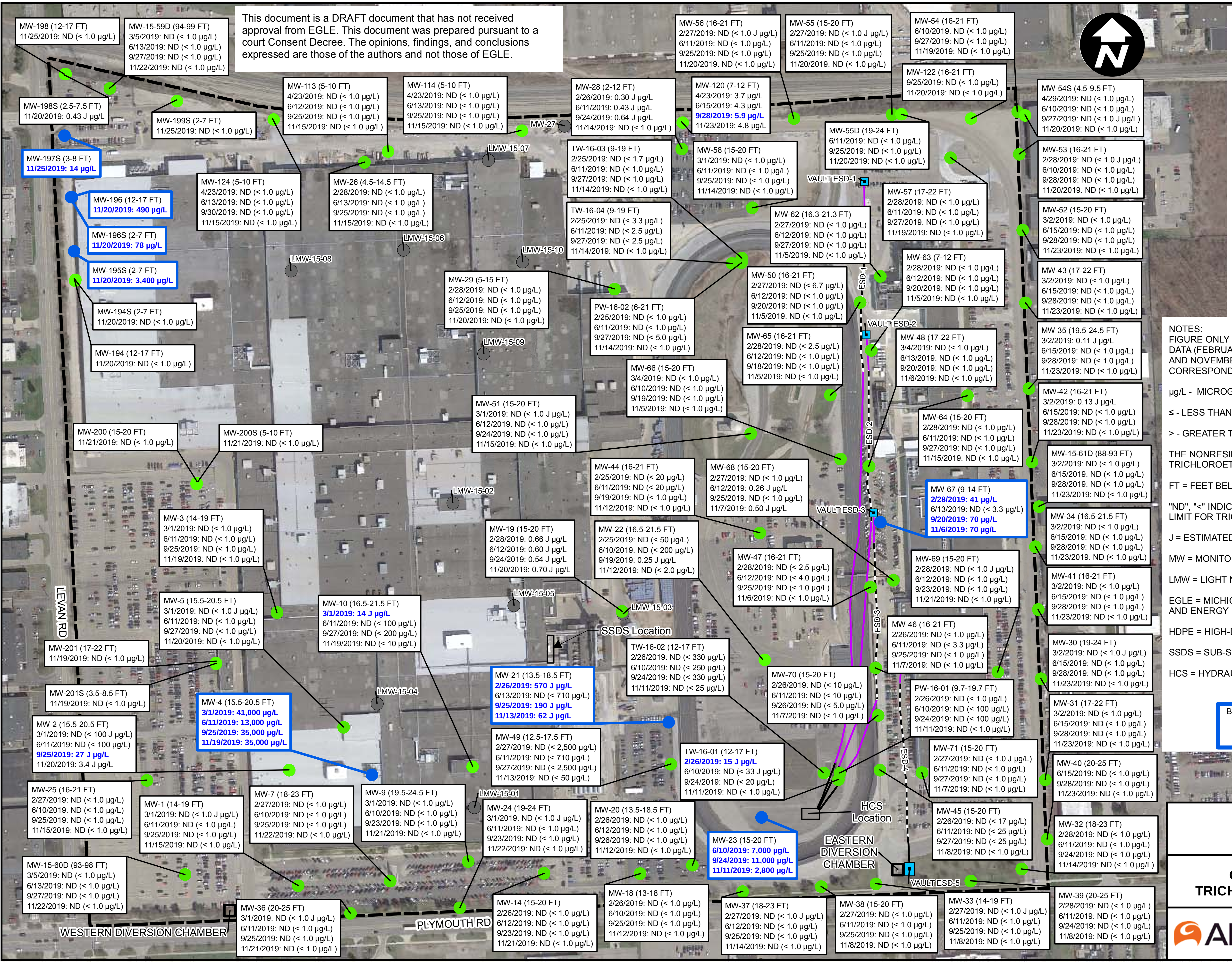
ON-SITE MONITORING WELLS TRANS-1,2-DICHLOROETHENE IN GROUNDWATER

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\FordLivonia\GIS\docs\GEC\Progress Report_Quarter 4_2019\Figure 6_On-Site GWA TCE.mxd PLOTTED: 1/14/2020 10:19:07 PM BY: Sharmayh4948

This document is a DRAFT document that has not received approval from 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 EGLE.



MW-198 (12-17 FT)
11/25/2019: ND (< 1.0 µg/L)

MW-15-59D (94-99 FT)
3/5/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-198S (2.5-7.5 FT)
11/20/2019: 0.43 J µg/L

MW-199S (2-7 FT)
11/25/2019: ND (< 1.0 µg/L)

MW-197S (3-8 FT)
11/25/2019: 14 µg/L

MW-196 (12-17 FT)
11/20/2019: 490 µg/L

MW-196S (2-7 FT)
11/20/2019: 78 µg/L

MW-195S (2-7 FT)
11/20/2019: 3,400 µg/L

MW-194S (2-7 FT)
11/20/2019: ND (< 1.0 µg/L)

MW-194 (12-17 FT)
11/20/2019: ND (< 1.0 µg/L)

MW-113 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-114 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-124 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/30/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-26 (4.5-14.5 FT)
2/28/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-28 (2-12 FT)
2/26/2019: 0.30 J µg/L
6/11/2019: 0.43 J µg/L
9/24/2019: 0.64 J µg/L
11/14/2019: ND (< 1.0 µg/L)

MW-120 (7-12 FT)
4/23/2019: 3.7 µg/L
6/15/2019: 4.3 µg/L
9/28/2019: 5.9 µg/L
11/23/2019: 4.8 µg/L

MW-56 (16-21 FT)
2/27/2019: ND (< 1.0 J µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-55 (15-20 FT)
2/27/2019: ND (< 1.0 J µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-54 (16-21 FT)
6/10/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/19/2019: ND (< 1.0 µg/L)

MW-122 (16-21 FT)
9/25/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-54S (4.5-9.5 FT)
4/29/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 J µg/L)
11/20/2019: ND (< 1.0 µg/L)

TW-16-03 (9-19 FT)
2/25/2019: ND (< 1.7 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-58 (15-20 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-55D (19-24 FT)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-53 (16-21 FT)
2/28/2019: ND (< 1.0 J µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-57 (17-22 FT)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/19/2019: ND (< 1.0 µg/L)

MW-62 (16.3-21.3 FT)
2/27/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-52 (15-20 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

TW-16-04 (9-19 FT)
2/25/2019: ND (< 3.3 µg/L)
6/11/2019: ND (< 2.5 µg/L)
9/27/2019: ND (< 2.5 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-63 (7-12 FT)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-43 (17-22 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-29 (5-15 FT)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-50 (16-21 FT)
2/27/2019: ND (< 6.7 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

PW-16-02 (6-21 FT)
2/25/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 5.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-65 (16-21 FT)
2/28/2019: ND (< 2.5 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-48 (17-22 FT)
3/4/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/6/2019: ND (< 1.0 µg/L)

MW-35 (19.5-24.5 FT)
3/2/2019: 0.11 J µg/L
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-66 (15-20 FT)
3/4/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-42 (16-21 FT)
3/2/2019: 0.13 J µg/L
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-51 (15-20 FT)
3/1/2019: ND (< 1.0 J µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-64 (15-20 FT)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-200 (15-20 FT)
11/21/2019: ND (< 1.0 µg/L)

MW-200S (5-10 FT)
11/21/2019: ND (< 1.0 µg/L)

MW-15-61D (88-93 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-44 (16-21 FT)
2/25/2019: ND (< 20 µg/L)
6/11/2019: ND (< 20 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-68 (15-20 FT)
2/27/2019: ND (< 1.0 µg/L)
6/12/2019: 0.26 J µg/L
9/25/2019: ND (< 1.0 µg/L)
11/7/2019: 0.50 J µg/L

MW-67 (9-14 FT)
2/28/2019: 41 µg/L
6/13/2019: ND (< 3.3 µg/L)
9/20/2019: 70 µg/L
11/6/2019: 70 µg/L

MW-3 (14-19 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/19/2019: ND (< 1.0 µg/L)

MW-19 (15-20 FT)
2/28/2019: 0.66 J µg/L
6/12/2019: 0.60 J µg/L
9/24/2019: 0.54 J µg/L
11/20/2019: 0.70 J µg/L

MW-22 (16.5-21.5 FT)
2/25/2019: ND (< 50 µg/L)
6/10/2019: ND (< 200 µg/L)
9/19/2019: 0.25 J µg/L
11/12/2019: ND (< 2.0 µg/L)

MW-34 (16.5-21.5 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-47 (16-21 FT)
2/28/2019: ND (< 2.5 µg/L)
6/12/2019: ND (< 4.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/6/2019: ND (< 1.0 µg/L)

MW-69 (15-20 FT)
2/28/2019: ND (< 1.0 J µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/21/2019: ND (< 1.0 µg/L)

MW-41 (16-21 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-5 (15.5-20.5 FT)
3/1/2019: ND (< 1.0 J µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-10 (16.5-21.5 FT)
3/1/2019: 14 J µg/L
6/11/2019: ND (< 100 µg/L)
9/27/2019: ND (< 200 µg/L)
11/19/2019: ND (< 10 µg/L)

MW-46 (16-21 FT)
2/26/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 3.3 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/7/2019: ND (< 1.0 µg/L)

MW-30 (19-24 FT)
3/2/2019: ND (< 1.0 J µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-201 (17-22 FT)
11/19/2019: ND (< 1.0 µg/L)

TW-16-02 (12-17 FT)
2/26/2019: ND (< 330 µg/L)
6/10/2019: ND (< 250 µg/L)
9/24/2019: ND (< 330 µg/L)
11/11/2019: ND (< 25 µg/L)

MW-21 (13.5-18.5 FT)
2/26/2019: 570 J µg/L
6/13/2019: ND (< 710 µg/L)
9/25/2019: 190 J µg/L
11/13/2019: 62 J µg/L

MW-70 (15-20 FT)
2/26/2019: ND (< 10 µg/L)
6/11/2019: ND (< 10 µg/L)
9/26/2019: ND (< 5.0 µg/L)
11/7/2019: ND (< 1.0 µg/L)

PW-16-01 (9.7-19.7 FT)
2/26/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 100 µg/L)
9/24/2019: ND (< 100 µg/L)
11/11/2019: ND (< 1.0 µg/L)

MW-31 (17-22 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-201S (3.5-8.5 FT)
11/19/2019: ND (< 1.0 µg/L)

MW-4 (15.5-20.5 FT)
3/1/2019: 41,000 µg/L
6/11/2019: 13,000 µg/L
9/25/2019: 35,000 µg/L
11/19/2019: 35,000 µg/L

MW-2 (15.5-20.5 FT)
3/1/2019: ND (< 100 J µg/L)
6/11/2019: ND (< 100 µg/L)
9/25/2019: 27 J µg/L
11/20/2019: 3.4 J µg/L

MW-49 (12.5-17.5 FT)
2/27/2019: ND (< 2,500 µg/L)
6/11/2019: ND (< 710 µg/L)
9/27/2019: ND (< 2,500 µg/L)
11/13/2019: ND (< 50 µg/L)

TW-16-01 (12-17 FT)
2/26/2019: 15 J µg/L
6/10/2019: ND (< 33 J µg/L)
9/24/2019: ND (< 20 µg/L)
11/11/2019: ND (< 1.0 µg/L)

MW-71 (15-20 FT)
2/27/2019: ND (< 1.0 J µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/7/2019: ND (< 1.0 µg/L)

MW-40 (20-25 FT)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-25 (16-21 FT)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-1 (14-19 FT)
3/1/2019: ND (< 1.0 J µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-7 (18-23 FT)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-9 (19.5-24.5 FT)
3/1/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/21/2019: ND (< 1.0 µg/L)

MW-24 (19-24 FT)
3/1/2019: ND (< 1.0 J µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-20 (13.5-18.5 FT)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/26/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-23 (15-20 FT)
6/10/2019: 7,000 µg/L
9/24/2019: 11,000 µg/L
11/11/2019: 2,800 µg/L

MW-45 (15-20 FT)
2/26/2019: ND (< 17 µg/L)
6/11/2019: ND (< 25 µg/L)
9/27/2019: ND (< 25 µg/L)
11/8/2019: ND (< 1.0 µg/L)

MW-32 (18-23 FT)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-15-60D (93-98 FT)
3/5/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-36 (20-25 FT)
3/1/2019: ND (< 1.0 J µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/21/2019: ND (< 1.0 µg/L)

MW-14 (15-20 FT)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/21/2019: ND (< 1.0 µg/L)

MW-18 (13-18 FT)
2/26/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-37 (18-23 FT)
2/27/2019: ND (< 1.0 J µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-38 (15-20 FT)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/8/2019: ND (< 1.0 µg/L)

MW-33 (14-19 FT)
2/27/2019: ND (< 1.0 J µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/8/2019: ND (< 1.0 µg/L)

MW-39 (20-25 FT)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/8/2019: 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 (FEBRUARY/MARCH 2019, APRIL/JUNE 2019, SEPTEMBER 2019, AND NOVEMBER 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

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

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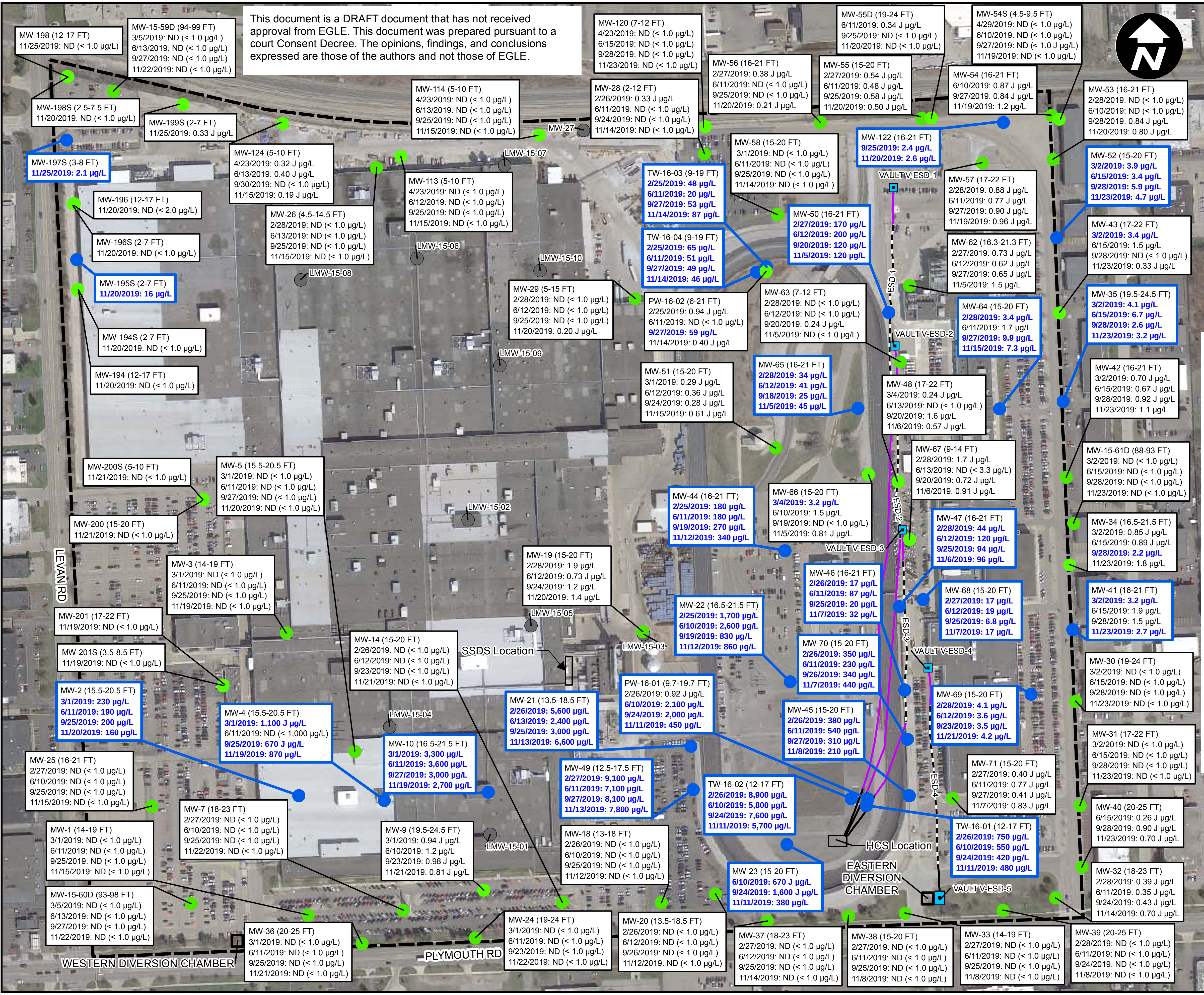

MW-198 (12-17 FT)
11/25/2019: ND (< 1.0 µg/L)

MW-15-59D (94-99 FT)
3/5/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-198S (2.5-7.5 FT)
11/20/2019: ND (< 1.0 µg/L)

MW-199S (2-7 FT)
11/25/2019: 0.33 J µg/L

MW-197S (3-8 FT)
11/25/2019: 2.1 µg/L

MW-124 (5-10 FT)
4/23/2019: 0.32 J µg/L
6/13/2019: 0.40 J µg/L
9/30/2019: ND (< 1.0 µg/L)
11/15/2019: 0.19 J µg/L

MW-114 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-113 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-196 (12-17 FT)
11/20/2019: ND (< 2.0 µg/L)

MW-26 (4.5-14.5 FT)
2/28/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-196S (2-7 FT)
11/20/2019: ND (< 1.0 µg/L)

MW-195S (2-7 FT)
11/20/2019: 16 µg/L

MW-194S (2-7 FT)
11/20/2019: ND (< 1.0 µg/L)

MW-194 (12-17 FT)
11/20/2019: ND (< 1.0 µg/L)

MW-120 (7-12 FT)
4/23/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-28 (2-12 FT)
2/26/2019: 0.33 J µg/L
6/11/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-56 (16-21 FT)
2/27/2019: 0.38 J µg/L
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/20/2019: 0.21 J µg/L

MW-55D (19-24 FT)
6/11/2019: 0.34 J µg/L
9/25/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-55 (15-20 FT)
2/27/2019: 0.54 J µg/L
6/11/2019: 0.48 J µg/L
9/25/2019: 0.58 J µg/L
11/20/2019: 0.50 J µg/L

MW-54S (4.5-9.5 FT)
4/29/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 J µg/L)
11/19/2019: ND (< 1.0 µg/L)

MW-54 (16-21 FT)
6/10/2019: 0.87 J µg/L
9/27/2019: 0.84 J µg/L
11/19/2019: 1.2 µg/L

MW-53 (16-21 FT)
2/28/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/28/2019: 0.84 J µg/L
11/20/2019: 0.80 J µg/L

MW-122 (16-21 FT)
9/25/2019: 2.4 µg/L
11/20/2019: 2.6 µg/L

MW-58 (15-20 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

TW-16-03 (9-19 FT)
2/25/2019: 48 µg/L
6/11/2019: 20 µg/L
9/27/2019: 53 µg/L
11/14/2019: 87 µg/L

MW-57 (17-22 FT)
2/28/2019: 0.88 J µg/L
6/11/2019: 0.77 J µg/L
9/27/2019: 0.90 J µg/L
11/19/2019: 0.96 J µg/L

MW-52 (15-20 FT)
3/2/2019: 3.9 µg/L
6/15/2019: 3.4 µg/L
9/28/2019: 5.9 µg/L
11/23/2019: 4.7 µg/L

MW-50 (16-21 FT)
2/27/2019: 170 µg/L
6/12/2019: 200 µg/L
9/20/2019: 120 µg/L
11/5/2019: 120 µg/L

TW-16-04 (9-19 FT)
2/25/2019: 65 µg/L
6/11/2019: 51 µg/L
9/27/2019: 49 µg/L
11/14/2019: 46 µg/L

MW-43 (17-22 FT)
3/2/2019: 3.4 µg/L
6/15/2019: 1.5 µg/L
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: 0.33 J µg/L

MW-62 (16.3-21.3 FT)
2/27/2019: 0.73 J µg/L
6/12/2019: 0.62 J µg/L
9/27/2019: 0.65 J µg/L
11/5/2019: 1.5 µg/L

MW-29 (5-15 FT)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/20/2019: 0.20 J µg/L

PW-16-02 (6-21 FT)
2/25/2019: 0.94 J µg/L
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: 59 µg/L
11/14/2019: 0.40 J µg/L

MW-63 (7-12 FT)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/20/2019: 0.24 J µg/L
11/5/2019: ND (< 1.0 µg/L)

MW-64 (15-20 FT)
2/28/2019: 3.4 µg/L
6/11/2019: 1.7 µg/L
9/27/2019: 9.9 µg/L
11/15/2019: 7.3 µg/L

MW-35 (19.5-24.5 FT)
3/2/2019: 4.1 µg/L
6/15/2019: 6.7 µg/L
9/28/2019: 2.6 µg/L
11/23/2019: 3.2 µg/L

MW-51 (15-20 FT)
3/1/2019: 0.29 J µg/L
6/12/2019: 0.36 J µg/L
9/24/2019: 0.28 J µg/L
11/15/2019: 0.61 J µg/L

MW-65 (16-21 FT)
2/28/2019: 34 µg/L
6/12/2019: 41 µg/L
9/18/2019: 25 µg/L
11/5/2019: 45 µg/L

MW-48 (17-22 FT)
3/4/2019: 0.24 J µg/L
6/13/2019: ND (< 1.0 µg/L)
9/20/2019: 1.6 µg/L
11/6/2019: 0.57 J µg/L

MW-42 (16-21 FT)
3/2/2019: 0.70 J µg/L
6/15/2019: 0.67 J µg/L
9/28/2019: 0.92 J µg/L
11/23/2019: 1.1 µg/L

MW-200S (5-10 FT)
11/21/2019: ND (< 1.0 µg/L)

MW-5 (15.5-20.5 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-200 (15-20 FT)
11/21/2019: ND (< 1.0 µg/L)

MW-67 (9-14 FT)
2/28/2019: 1.7 J µg/L
6/13/2019: ND (< 3.3 µg/L)
9/20/2019: 0.72 J µg/L
11/6/2019: 0.91 J µg/L

MW-15-61D (88-93 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-44 (16-21 FT)
2/25/2019: 180 µg/L
6/11/2019: 180 µg/L
9/19/2019: 270 µg/L
11/12/2019: 340 µg/L

MW-66 (15-20 FT)
3/4/2019: 3.2 µg/L
6/10/2019: 1.5 µg/L
9/19/2019: ND (< 1.0 µg/L)
11/5/2019: 0.81 J µg/L

MW-47 (16-21 FT)
2/28/2019: 44 µg/L
6/12/2019: 120 µg/L
9/25/2019: 94 µg/L
11/6/2019: 96 µg/L

MW-34 (16.5-21.5 FT)
3/2/2019: 0.85 J µg/L
6/15/2019: 0.89 J µg/L
9/28/2019: 2.2 µg/L
11/23/2019: 1.8 µg/L

MW-3 (14-19 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/19/2019: ND (< 1.0 µg/L)

MW-19 (15-20 FT)
2/28/2019: 1.9 µg/L
6/12/2019: 0.73 J µg/L
9/24/2019: 1.2 µg/L
11/20/2019: 1.4 µg/L

MW-46 (16-21 FT)
2/26/2019: 17 µg/L
6/11/2019: 87 µg/L
9/25/2019: 20 µg/L
11/7/2019: 32 µg/L

MW-68 (15-20 FT)
2/27/2019: 17 µg/L
6/12/2019: 19 µg/L
9/25/2019: 6.8 µg/L
11/7/2019: 17 µg/L

MW-41 (16-21 FT)
3/2/2019: 3.2 µg/L
6/15/2019: 1.9 µg/L
9/28/2019: 1.5 µg/L
11/23/2019: 2.7 µg/L

MW-22 (16.5-21.5 FT)
2/25/2019: 1,700 µg/L
6/10/2019: 2,600 µg/L
9/19/2019: 830 µg/L
11/12/2019: 860 µg/L

MW-201 (17-22 FT)
11/19/2019: ND (< 1.0 µg/L)

MW-14 (15-20 FT)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/21/2019: ND (< 1.0 µg/L)

MW-70 (15-20 FT)
2/26/2019: 350 µg/L
6/11/2019: 230 µg/L
9/26/2019: 340 µg/L
11/7/2019: 440 µg/L

MW-201S (3.5-8.5 FT)
11/19/2019: ND (< 1.0 µg/L)

MW-30 (19-24 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

PW-16-01 (9.7-19.7 FT)
2/26/2019: 0.92 J µg/L
6/10/2019: 2,100 µg/L
9/24/2019: 2,000 µg/L
11/11/2019: 450 µg/L

MW-2 (15.5-20.5 FT)
3/1/2019: 230 µg/L
6/11/2019: 190 µg/L
9/25/2019: 200 µg/L
11/20/2019: 160 µg/L

MW-21 (13.5-18.5 FT)
2/26/2019: 5,600 µg/L
6/13/2019: 2,400 µg/L
9/25/2019: 3,000 µg/L
11/13/2019: 6,600 µg/L

MW-69 (15-20 FT)
2/28/2019: 4.1 µg/L
6/12/2019: 3.6 µg/L
9/23/2019: 3.5 µg/L
11/21/2019: 4.2 µg/L

MW-4 (15.5-20.5 FT)
3/1/2019: 1,100 J µg/L
6/11/2019: ND (< 1,000 µg/L)
9/25/2019: 670 J µg/L
11/19/2019: 870 µg/L

MW-45 (15-20 FT)
2/26/2019: 380 µg/L
6/11/2019: 540 µg/L
9/27/2019: 310 µg/L
11/8/2019: 210 µg/L

MW-31 (17-22 FT)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)
9/28/2019: ND (< 1.0 µg/L)
11/23/2019: ND (< 1.0 µg/L)

MW-25 (16-21 FT)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-10 (16.5-21.5 FT)
3/1/2019: 3,300 µg/L
6/11/2019: 3,600 µg/L
9/27/2019: 3,000 µg/L
11/19/2019: 2,700 µg/L

MW-49 (12.5-17.5 FT)
2/27/2019: 9,100 µg/L
6/11/2019: 7,100 µg/L
9/27/2019: 8,100 µg/L
11/13/2019: 7,800 µg/L

MW-71 (15-20 FT)
2/27/2019: 0.40 J µg/L
6/11/2019: 0.77 J µg/L
9/27/2019: 0.41 J µg/L
11/7/2019: 0.83 J µg/L

TW-16-02 (12-17 FT)
2/26/2019: 8,900 µg/L
6/10/2019: 5,800 µg/L
9/24/2019: 7,600 µg/L
11/11/2019: 5,700 µg/L

MW-7 (18-23 FT)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-40 (20-25 FT)
6/15/2019: 0.26 J µg/L
9/28/2019: 0.90 J µg/L
11/23/2019: 0.70 J µg/L

TW-16-01 (12-17 FT)
2/26/2019: 750 µg/L
6/10/2019: 550 µg/L
9/24/2019: 420 µg/L
11/11/2019: 480 µg/L

MW-1 (14-19 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-9 (19.5-24.5 FT)
3/1/2019: 0.94 J µg/L
6/10/2019: 1.2 µg/L
9/23/2019: 0.98 J µg/L
11/21/2019: 0.81 J µg/L

MW-18 (13-18 FT)
2/26/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-23 (15-20 FT)
6/10/2019: 670 J µg/L
9/24/2019: 1,600 J µg/L
11/11/2019: 380 µg/L

MW-32 (18-23 FT)
2/28/2019: 0.39 J µg/L
6/11/2019: 0.35 J µg/L
9/24/2019: 0.43 J µg/L
11/14/2019: 0.70 J µg/L

MW-15-60D (93-98 FT)
3/5/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)
9/27/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-36 (20-25 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/21/2019: ND (< 1.0 µg/L)

MW-24 (19-24 FT)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-20 (13.5-18.5 FT)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/26/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-37 (18-23 FT)
2/27/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-38 (15-20 FT)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/8/2019: ND (< 1.0 µg/L)

MW-33 (14-19 FT)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/25/2019: ND (< 1.0 µg/L)
11/8/2019: ND (< 1.0 µg/L)

MW-39 (20-25 FT)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/8/2019: 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 (FEBRUARY/MARCH 2019, APRIL/JUNE 2019, SEPTEMBER 2019, AND NOVEMBER 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

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 PLOTTED: 1/14/2020 10:23:20 PM BY: Sharmayh4948
Z:\GISProjects_ENV\NoviBrighton_MI\Ford\Livonia\GIS\docs\GEC\Progress Report_Quarter 4_2019\Figure 7_On-Site GWA VC.mxd

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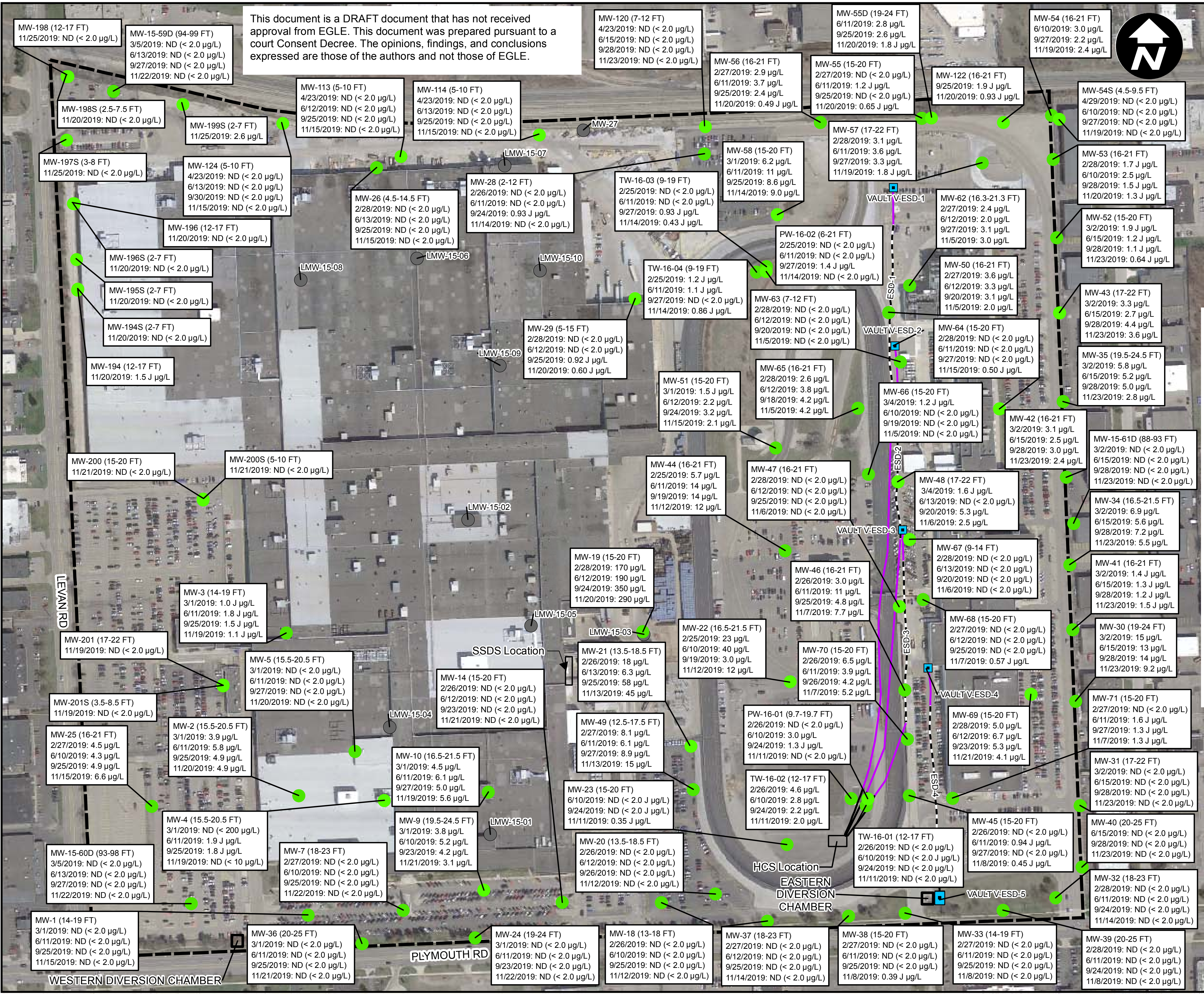

LEGEND

●	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 (FEBRUARY/MARCH 2019, APRIL/JUNE 2019, SEPTEMBER 2019, AND NOVEMBER 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 µg/L.

FT = FEET BELOW GROUND SURFACE

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY 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

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\Ford\Livonia\GIS\docs\GEC\Progress Report_Quarter 4_2019\Figure 8_On-Site GWA DX.mxd PLOTTED: 1/14/2020 10:28:03 PM BY: Sharmayh4948

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MW-102 (10-15 FT)
2/25/2019: 1.3 J µg/L
5/17/2019: 1.1 J µg/L
9/18/2019: 1.0 J µg/L
11/18/2019: 1.0 J µg/L

MW-105S (2.5-12.5 FT)
2/25/2019: ND (< 2.0 µg/L)
5/14/2019: ND (< 2.0 µg/L)
9/16/2019: ND (< 2.0 µg/L)
11/13/2019: 0.55 J µg/L

MW-131S (2.5-12.5 FT)
2/26/2019: ND (< 2.0 µg/L)
5/14/2019: 1.3 J µg/L
9/16/2019: 1.3 J µg/L
11/12/2019: 0.52 J µg/L

MW-132S (2.5-12.5 FT)
2/26/2019: ND (< 2.0 µg/L)
5/14/2019: ND (< 2.0 µg/L)
9/16/2019: ND (< 2.0 µg/L)
11/12/2019: ND (< 2.0 µg/L)

MW-85SR (4.5-9.5 FT)
4/12/2019: ND (< 2.0 µg/L)
9/17/2019: ND (< 2.0 µg/L)
11/13/2019: ND (< 2.0 µg/L)

MW-142S (2.5-7.5 FT)
2/25/2019: ND (< 2.0 µg/L)
5/23/2019: ND (< 2.0 µg/L)
9/16/2019: ND (< 2.0 µg/L)
11/13/2019: ND (< 2.0 µg/L)

MW-83 (8-13 FT)
3/5/2019: ND (< 2.0 µg/L)
5/22/2019: ND (< 2.0 µg/L)
9/18/2019: ND (< 2.0 µg/L)
11/5/2019: ND (< 2.0 µg/L)

MW-83S (3-13 FT)
3/5/2019: ND (< 2.0 µg/L)
5/22/2019: ND (< 2.0 µg/L)
9/18/2019: ND (< 2.0 µg/L)
11/5/2019: ND (< 2.0 µg/L)

MW-82SR (5-15 FT)
3/5/2019: ND (< 2.0 µg/L)
5/17/2019: ND (< 2.0 µg/L)
9/23/2019: ND (< 2.0 µg/L)
11/7/2019: ND (< 2.0 µg/L)

MW-108S (2.5-12.5 FT)
5/14/2019: 0.93 J µg/L
9/19/2019: ND (< 2.0 µg/L)
11/12/2019: ND (< 2.0 µg/L)

MW-82D (18-23 FT)
3/6/2019: ND (< 2.0 µg/L)
5/17/2019: ND (< 2.0 µg/L)
9/23/2019: ND (< 2.0 µg/L)
11/7/2019: ND (< 2.0 µg/L)

MW-72S (3-13 FT)
3/5/2019: ND (< 2.0 µg/L)
5/8/2019: ND (< 2.0 µg/L)
9/23/2019: ND (< 2.0 µg/L)
11/6/2019: ND (< 2.0 µg/L)

MW-102S (2.5-12.5 FT)
2/25/2019: ND (< 2.0 µg/L)
5/14/2019: ND (< 2.0 µg/L)
9/18/2019: ND (< 2.0 µg/L)
11/18/2019: ND (< 2.0 µg/L)

MW-141S (3-8 FT)
2/27/2019: ND (< 2.0 µg/L)
5/15/2019: ND (< 2.0 µg/L)
9/18/2019: ND (< 2.0 µg/L)
11/13/2019: ND (< 2.0 µg/L)

MW-85 (8-13 FT)
2/26/2019: ND (< 2.0 µg/L)
5/17/2019: 1.3 µg/L
9/17/2019: ND (< 2.0 µg/L)
11/13/2019: 0.49 J µg/L

MW-107S (2.5-12.5 FT)
2/27/2019: ND (< 2.0 µg/L)
5/10/2019: ND (< 2.0 µg/L)
9/24/2019: ND (< 2.0 µg/L)
11/12/2019: ND (< 2.0 µg/L)

MW-136S (2-7 FT)
2/19/2019: ND (< 2.0 µg/L)
5/22/2019: ND (< 2.0 µg/L)
9/18/2019: ND (< 2.0 µg/L)
11/13/2019: ND (< 2.0 µg/L)

MW-73D (13.5-18.5 FT)
3/4/2019: 1.6 J µg/L
5/8/2019: 2.3 µg/L
9/24/2019: 3.8 µg/L
11/11/2019: 2.8 µg/L

MW-72 (15-20 FT)
3/5/2019: 0.91 J µg/L
5/17/2019: ND (< 2.0 µg/L)
9/23/2019: ND (< 2.0 µg/L)
11/5/2019: 0.97 J µg/L

MW-79D (10-15 FT)
3/7/2019: ND (< 2.0 µg/L)
5/15/2019: 0.99 J µg/L
9/19/2019: ND (< 2.0 µg/L)
11/12/2019: 0.35 J µg/L

MW-137S (2-7 FT)
2/23/2019: ND (< 2.0 µg/L)
5/13/2019: ND (< 2.0 µg/L)
9/23/2019: ND (< 2.0 µg/L)
11/5/2019: ND (< 2.0 µg/L)

MW-73SR (2.5-12.5 FT)
3/4/2019: ND (< 2.0 µg/L)
5/8/2019: ND (< 2.0 µg/L)
9/24/2019: ND (< 2.0 µg/L)
11/11/2019: ND (< 2.0 µg/L)

MW-80SR (2.5-12.5 FT)
3/6/2019: ND (< 2.0 µg/L)
5/10/2019: ND (< 2.0 µg/L)
9/23/2019: ND (< 2.0 µg/L)
11/5/2019: 0.84 J µg/L

MW-79SR (2.5-12.5 FT)
3/1/2019: ND (< 2.0 µg/L)
5/15/2019: ND (< 2.0 µg/L)
9/18/2019: ND (< 2.0 µg/L)
11/13/2019: ND (< 2.0 µg/L)

MW-133S (4-9 FT)
2/14/2019: ND (< 2.0 µg/L)
5/23/2019: ND (< 2.0 µg/L)
9/17/2019: ND (< 2.0 µg/L)
11/7/2019: ND (< 2.0 µg/L)

MW-134S (5-10 FT)
2/14/2019: ND (< 2.0 µg/L)
5/20/2019: ND (< 2.0 µg/L)
9/17/2019: ND (< 2.0 µg/L)
11/5/2019: ND (< 2.0 µg/L)

MW-140S (2-7 FT)
2/26/2019: ND (< 2.0 µg/L)
5/16/2019: ND (< 2.0 µg/L)
9/18/2019: ND (< 2.0 µg/L)
11/12/2019: ND (< 2.0 µg/L)

MW-74 (14-19 FT)
3/8/2019: ND (< 2.0 µg/L)
5/17/2019: ND (< 2.0 µg/L)
9/18/2019: 1.4 J µg/L
11/11/2019: 1.4 J µg/L

MW-98S (2.5-12.5 FT)
3/6/2019: ND (< 2.0 µg/L)
5/10/2019: ND (< 2.0 µg/L)
9/20/2019: ND (< 2.0 µg/L)
11/13/2019: ND (< 2.0 µg/L)

MW-135S (5-10 FT)
2/14/2019: ND (< 2.0 µg/L)
5/20/2019: ND (< 2.0 µg/L)
9/16/2019: ND (< 2.0 µg/L)
11/5/2019: ND (< 2.0 µg/L)

MW-139S (2-7 FT)
2/26/2019: ND (< 2.0 µg/L)
5/9/2019: ND (< 2.0 µg/L)
9/20/2019: ND (< 2.0 µg/L)
11/13/2019: ND (< 2.0 µg/L)

MW-74S (3-13 FT)
3/8/2019: ND (< 2.0 µg/L)
5/8/2019: ND (< 2.0 µg/L)
9/18/2019: ND (< 2.0 µg/L)
11/6/2019: ND (< 2.0 µg/L)

MW-78S (2.5-12.5 FT)
2/26/2019: ND (< 2.0 µg/L)
5/13/2019: ND (< 2.0 µg/L)
9/19/2019: ND (< 2.0 µg/L)
11/14/2019: ND (< 2.0 µg/L)

MW-138S (2-7 FT)
2/19/2019: ND (< 2.0 µg/L)
5/16/2019: ND (< 2.0 µg/L)
9/23/2019: ND (< 2.0 µg/L)
11/15/2019: ND (< 2.0 µg/L)

MW-81S (2.5-12.5 FT)
3/6/2019: ND (< 2.0 µg/L)
5/17/2019: ND (< 2.0 µg/L)
9/19/2019: ND (< 2.0 µg/L)
11/7/2019: ND (< 2.0 µg/L)

MW-84 (8-13 FT)
2/28/2019: ND (< 2.0 J µg/L)
5/21/2019: ND (< 2.0 µg/L)
9/24/2019: ND (< 2.0 µg/L)
11/25/2019: ND (< 2.0 µg/L)

MW-99S (3-13 FT)
3/7/2019: ND (< 2.0 µg/L)
5/9/2019: ND (< 2.0 µg/L)
9/16/2019: ND (< 2.0 µg/L)
11/6/2019: ND (< 2.0 µg/L)

MW-78 (7-12 FT)
2/26/2019: ND (< 2.0 µg/L)
5/13/2019: ND (< 2.0 µg/L)
9/19/2019: ND (< 2.0 µg/L)
11/14/2019: ND (< 2.0 µg/L)

MW-96S (2.5-12.5 FT)
2/27/2019: ND (< 2.0 µg/L)
5/16/2019: ND (< 2.0 µg/L)
9/20/2019: ND (< 2.0 µg/L)
11/26/2019: ND (< 2.0 µg/L)

MW-106S (2.5-12.5 FT)
2/27/2019: ND (< 2.0 µg/L)
5/16/2019: ND (< 2.0 µg/L)
9/23/2019: ND (< 2.0 µg/L)
11/15/2019: ND (< 2.0 µg/L)

MW-81 (8-13 FT)
3/6/2019: ND (< 2.0 µg/L)
5/17/2019: ND (< 2.0 µg/L)
9/19/2019: ND (< 2.0 µg/L)
11/7/2019: ND (< 2.0 µg/L)

MW-75SR (2.5-12.5 FT)
3/7/2019: ND (< 2.0 µg/L)
5/9/2019: ND (< 2.0 µg/L)
9/18/2019: ND (< 2.0 µg/L)
11/26/2019: ND (< 2.0 µg/L)

MW-84S (2.5-12.5 FT)
2/28/2019: ND (< 2.0 J µg/L)
5/9/2019: ND (< 2.0 µg/L)
9/24/2019: ND (< 2.0 µg/L)
11/25/2019: ND (< 2.0 µg/L)

MW-86S (2.5-12.5 FT)
2/28/2019: ND (< 2.0 µg/L)
5/13/2019: ND (< 2.0 µg/L)
9/19/2019: ND (< 2.0 µg/L)
11/25/2019: ND (< 2.0 µg/L)

MW-77 (9-14 FT)
3/4/2019: ND (< 2.0 µg/L)
5/16/2019: ND (< 2.0 µg/L)
9/17/2019: ND (< 2.0 µg/L)
11/22/2019: ND (< 2.0 µg/L)

MW-192S (2.5-7.5 FT)
4/11/2019: ND (< 2.0 µg/L)
9/20/2019: ND (< 2.0 µg/L)
11/15/2019: ND (< 2.0 µg/L)

MW-75D (12-17 FT)
3/7/2019: 1.5 J µg/L
5/15/2019: 1.5 J µg/L
9/18/2019: 3.3 µg/L
11/26/2019: 1.9 J µg/L

MW-86 (12-17 FT)
2/28/2019: ND (< 2.0 J µg/L)
5/21/2019: ND (< 2.0 µg/L)
9/19/2019: ND (< 2.0 µg/L)
11/25/2019: ND (< 2.0 µg/L)

MW-77S (2.5-12.5 FT)
3/4/2019: ND (< 2.0 µg/L)
5/16/2019: ND (< 2.0 µg/L)
9/17/2019: ND (< 2.0 µg/L)
11/22/2019: ND (< 2.0 µg/L)

MW-100S (3-13 FT)
2/27/2019: ND (< 2.0 µg/L)
5/9/2019: ND (< 2.0 µg/L)
9/16/2019: ND (< 2.0 µg/L)
11/26/2019: ND (< 2.0 µg/L)

MW-87S (4.5-14.5 FT)
3/1/2019: ND (< 2.0 µg/L)
5/13/2019: ND (< 2.0 µg/L)
9/20/2019: ND (< 2.0 µg/L)
11/22/2019: ND (< 2.0 µg/L)

MW-97S (2.5-12.5 FT)
3/6/2019: ND (< 2.0 µg/L)
5/10/2019: ND (< 2.0 µg/L)
9/19/2019: ND (< 2.0 µg/L)
11/22/2019: ND (< 2.0 µg/L)

MW-87 (14-19 FT)
2/28/2019: ND (< 2.0 µg/L)
5/21/2019: ND (< 2.0 µg/L)
9/20/2019: ND (< 2.0 µg/L)
11/22/2019: ND (< 2.0 µg/L)

MW-101S (4.5-14.5 FT)
3/6/2019: ND (< 2.0 µg/L)
5/8/2019: ND (< 2.0 µg/L)
9/16/2019: ND (< 2.0 µg/L)
11/13/2019: ND (< 2.0 µg/L)

MW-76 (15-20 FT)
3/1/2019: ND (< 2.0 µg/L)
5/17/2019: ND (< 2.0 µg/L)
9/17/2019: ND (< 2.0 µg/L)
11/20/2019: ND (< 2.0 µg/L)

MW-76S (4.5-14.5 FT)
3/1/2019: ND (< 2.0 µg/L)
5/8/2019: ND (< 2.0 µg/L)
9/17/2019: ND (< 2.0 µg/L)
11/5/2019: ND (< 2.0 µg/L)

LEGEND

▭	PROPERTY BOUNDARY
▭	FORD PROPERTY BOUNDARY
●	OFF-SITE MONITORING WELL 1,4-DIOXANE ≤ 7.2 µg/L

NOTES:

FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (FEBRUARY/MARCH 2019, APRIL/MAY 2019, SEPTEMBER 2019, AND NOVEMBER 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

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_MI\Ford\Livonia\GIS\docs\GEC\Progress Report_Quarter 4_2019\Figure 9_Off-Site GWA DX.mxd PLOTTED: 1/12/2020 9:01:06 PM BY: Shamayh4948

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MW-72 (15-20 FT)
3/5/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-72S (3-13 FT)
3/5/2019: 0.20 J µg/L
5/8/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/6/2019: ND (< 1.0 µg/L)

MW-73SR (2.5-12.5 FT)
3/4/2019: 0.23 J µg/L
5/8/2019: ND (< 1.0 µg/L)
9/24/2019: 0.34 J µg/L
11/11/2019: ND (< 1.0 µg/L)

MW-73D (13.5-18.5 FT)
3/4/2019: 0.19 J µg/L
5/8/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/11/2019: ND (< 1.0 µg/L)

MW-74S (3-13 FT)
3/8/2019: ND (< 1.0 µg/L)
5/8/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/6/2019: ND (< 1.0 µg/L)

MW-99S (3-13 FT)
3/7/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L)
9/16/2019: ND (< 1.0 µg/L)
11/6/2019: ND (< 1.0 µg/L)

MW-75D (12-17 FT)
3/7/2019: ND (< 1.0 µg/L)
5/15/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/26/2019: ND (< 1.0 µg/L)

MW-75SR (2.5-12.5 FT)
3/7/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/26/2019: ND (< 1.0 µg/L)

MW-100S (3-13 FT)
2/27/2019: ND (< 1.0 J µg/L)
5/9/2019: ND (< 1.0 µg/L)
9/16/2019: ND (< 1.0 µg/L)
11/26/2019: ND (< 1.0 µg/L)

MW-101S (4.5-14.5 FT)
3/6/2019: ND (< 1.0 µg/L)
5/8/2019: ND (< 1.0 µg/L)
9/16/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 µg/L)

MW-76S (4.5-14.5 FT)
3/1/2019: ND (< 1.0 µg/L)
5/8/2019: ND (< 1.0 µg/L)
9/17/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-76 (15-20 FT)
3/1/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)
9/17/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

MW-102S (2.5-12.5 FT)
2/25/2019: ND (< 1.0 µg/L)
5/14/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/18/2019: ND (< 1.0 µg/L)

MW-102 (10-15 FT)
2/25/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/18/2019: ND (< 1.0 µg/L)

MW-79D (10-15 FT)
3/7/2019: ND (< 1.0 µg/L)
5/15/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-79SR (2.5-12.5 FT)
3/1/2019: ND (< 1.0 µg/L)
5/15/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 µg/L)

MW-74 (14-19 FT)
3/8/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/11/2019: ND (< 1.0 µg/L)

MW-84S (2.5-12.5 FT)
2/28/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L)
9/24/2019: 0.17 J µg/L
11/25/2019: ND (< 1.0 µg/L)

MW-84 (8-13 FT)
2/28/2019: ND (< 1.0 µg/L)
5/21/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/25/2019: ND (< 1.0 µg/L)

MW-86 (12-17 FT)
2/28/2019: ND (< 1.0 µg/L)
5/21/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/25/2019: ND (< 1.0 µg/L)

MW-86S (2.5-12.5 FT)
2/28/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/25/2019: ND (< 1.0 µg/L)

MW-87S (4.5-14.5 FT)
3/1/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-131S (2.5-12.5 FT)
2/26/2019: ND (< 1.0 µg/L)
5/14/2019: ND (< 1.0 µg/L)
9/16/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-105S (2.5-12.5 FT)
2/25/2019: ND (< 1.0 µg/L)
5/14/2019: ND (< 1.0 µg/L)
9/16/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 J µg/L)

MW-141S (3-8 FT)
2/27/2019: ND (< 1.0 µg/L)
5/15/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 µg/L)

MW-140S (2-7 FT)
2/26/2019: ND (< 1.0 µg/L)
5/16/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-132S (2.5-12.5 FT)
2/26/2019: ND (< 1.0 µg/L)
5/14/2019: ND (< 1.0 µg/L)
9/16/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-85SR (4.5-9.5 FT)
4/12/2019: ND (< 1.0 µg/L)
9/17/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 µg/L)

MW-85 (8-13 FT)
2/26/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)
9/17/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 J µg/L)

MW-80SR (2.5-12.5 FT)
3/6/2019: ND (< 1.0 µg/L)
5/10/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-139S (2-7 FT)
2/26/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 µg/L)

MW-78 (7-12 FT)
2/26/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-78S (2.5-12.5 FT)
2/26/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-77S (2.5-12.5 FT)
3/4/2019: 0.22 J µg/L
5/16/2019: ND (< 1.0 µg/L)
9/17/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-87 (14-19 FT)
2/28/2019: ND (< 1.0 µg/L)
5/21/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-108S (2.5-12.5 FT)
2/25/2019: NS
5/14/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-142S (2.5-7.5 FT)
2/25/2019: ND (< 1.0 µg/L)
5/23/2019: ND (< 1.0 µg/L)
9/16/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 µg/L)

MW-137S (2-7 FT)
2/23/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-138S (2-7 FT)
2/19/2019: ND (< 1.0 µg/L)
5/16/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-98S (2.5-12.5 FT)
3/6/2019: ND (< 1.0 µg/L)
5/10/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 µg/L)

MW-96S (2.5-12.5 FT)
2/27/2019: ND (< 1.0 J µg/L)
5/16/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/26/2019: ND (< 1.0 µg/L)

MW-77 (9-14 FT)
3/4/2019: 0.17 J µg/L
5/16/2019: ND (< 1.0 µg/L)
9/17/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-97S (2.5-12.5 FT)
3/6/2019: ND (< 1.0 µg/L)
5/10/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-107S (2.5-12.5 FT)
2/27/2019: ND (< 1.0 µg/L)
5/10/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-136S (2-7 FT)
2/19/2019: ND (< 1.0 µg/L)
5/22/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 µg/L)

MW-133S (4-9 FT)
2/14/2019: ND (< 1.0 µg/L)
5/23/2019: ND (< 1.0 µg/L)
9/17/2019: ND (< 1.0 µg/L)
11/7/2019: ND (< 1.0 µg/L)

MW-192S (2.5-7.5 FT)
4/11/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-83S (3-13 FT)
3/5/2019: 0.20 J µg/L
5/22/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-83 (8-13 FT)
3/5/2019: 0.17 J µg/L
5/22/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-82SR (5-15 FT)
3/5/2019: 0.16 J µg/L
5/17/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/7/2019: ND (< 1.0 µg/L)

MW-82D (18-23 FT)
3/6/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/7/2019: ND (< 1.0 µg/L)

MW-134S (5-10 FT)
2/14/2019: ND (< 1.0 µg/L)
5/20/2019: ND (< 1.0 µg/L)
9/17/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-135S (5-10 FT)
2/14/2019: ND (< 1.0 µg/L)
5/20/2019: ND (< 1.0 µg/L)
9/16/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-81 (8-13 FT)
3/6/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/7/2019: ND (< 1.0 µg/L)

MW-81S (2.5-12.5 FT)
3/6/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/7/2019: ND (< 1.0 µg/L)

MW-106S (2.5-12.5 FT)
2/27/2019: ND (< 1.0 J µg/L)
5/16/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

LEGEND

🟨	PROPERTY BOUNDARY
▭	FORD PROPERTY BOUNDARY
●	OFF-SITE MONITORING WELL TRICHLOROETHENE ≤ 1.0 µg/L

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (FEBRUARY/MARCH 2019, APRIL/MAY 2019, SEPTEMBER 2019, AND NOVEMBER 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

NS = NOT SAMPLED

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_MI\Ford\Livonia\GIS\docs\GEC\Progress Report_Quarter 4_2019\Figure 10_Off-Site GWA TCE.mxd PLOTTED: 1/12/2020 9:07:15 PM BY: Sharmayh4948

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_MI\Ford\Livonia\GIS\docs\GEC\Progress Report_Quarter 4_2019\Figure 11_Off-Site GWA VC.mxd PLOTTED: 1/12/2020 9:09:26 PM BY: Sharmayh4948

This document is a DRAFT document that has not received approval from 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 EGLE.

MW-102 (10-15 FT)
2/25/2019: 1.7 µg/L
5/17/2019: 1.8 µg/L
9/18/2019: 1.0 µg/L
11/18/2019: 1.4 µg/L

MW-105S (2.5-12.5 FT)
2/25/2019: ND (< 1.0 µg/L)
5/14/2019: ND (< 1.0 µg/L)
9/16/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 J µg/L)

MW-131S (2.5-12.5 FT)
2/26/2019: 0.69 J µg/L
5/14/2019: 0.85 J µg/L
9/16/2019: 0.87 J µg/L
11/12/2019: 1.2 µg/L

MW-132S (2.5-12.5 FT)
2/26/2019: ND (< 1.0 µg/L)
5/14/2019: ND (< 1.0 µg/L)
9/16/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-142S (2.5-7.5 FT)
2/25/2019: ND (< 1.0 µg/L)
5/23/2019: ND (< 1.0 µg/L)
9/16/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 µg/L)

MW-83 (8-13 FT)
3/5/2019: ND (< 1.0 µg/L)
5/22/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-83S (3-13 FT)
3/5/2019: 0.27 J µg/L
5/22/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-72 (15-20 FT)
3/5/2019: 1.9 µg/L
5/17/2019: 1.7 µg/L
9/23/2019: 1.5 µg/L
11/5/2019: 2.8 µg/L

MW-102S (2.5-12.5 FT)
2/25/2019: ND (< 1.0 µg/L)
5/14/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/18/2019: ND (< 1.0 µg/L)

MW-85SR (4.5-9.5 FT)
4/12/2019: 2.2 µg/L
9/17/2019: 2.1 µg/L
11/13/2019: 1.4 µg/L

MW-108S (2.5-12.5 FT)
5/14/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-82D (18-23 FT)
3/6/2019: 0.78 J µg/L
5/17/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/7/2019: ND (< 1.0 µg/L)

MW-72S (3-13FT)
3/5/2019: 0.24 J µg/L
5/8/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/6/2019: ND (< 1.0 µg/L)

MW-141S (3-8 FT)
2/27/2019: ND (< 1.0 µg/L)
5/15/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 µg/L)

MW-85 (8-13 FT)
2/26/2019: 5.5 µg/L
5/17/2019: 5.4 µg/L
9/17/2019: 6.5 µg/L
11/13/2019: 5.1 J µg/L

MW-137S (2-7 FT)
2/23/2019: ND (< 1.0 µg/L)
5/13/2019: 0.91 J µg/L
9/23/2019: 1.1 µg/L
11/5/2019: 0.50 J µg/L

MW-136S (2-7 FT)
2/19/2019: ND (< 1.0 µg/L)
5/22/2019: ND (< 1.0 µg/L)
9/18/2019: 0.96 J µg/L
11/13/2019: ND (< 1.0 µg/L)

MW-107S (2.5-12.5 FT)
2/27/2019: ND (< 1.0 µg/L)
5/10/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-82SR (5-15 FT)
3/5/2019: 0.27 J µg/L
5/17/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/7/2019: ND (< 1.0 µg/L)

MW-73D (13.5-18.5 FT)
3/4/2019: 0.71 J µg/L
5/8/2019: ND (< 1.0 µg/L)
9/24/2019: 0.48 J µg/L
11/11/2019: ND (< 1.0 µg/L)

MW-73SR (2.5-12.5 FT)
3/4/2019: 1.5 µg/L
5/8/2019: ND (< 1.0 µg/L)
9/24/2019: 1.3 µg/L
11/11/2019: 1.0 µg/L

MW-79SR (2.5-12.5 FT)
3/1/2019: 0.53 J µg/L
5/15/2019: 0.36 J µg/L
9/18/2019: 0.40 J µg/L
11/13/2019: 0.30 J µg/L

MW-79D (10-15 FT)
3/7/2019: 1.6 J µg/L
5/15/2019: 2.6 µg/L
9/19/2019: 1.5 µg/L
11/12/2019: 2.6 µg/L

MW-80SR (2.5-12.5 FT)
3/6/2019: 2.1 µg/L
5/10/2019: 3.2 µg/L
9/23/2019: 3.4 µg/L
11/5/2019: 3.6 µg/L

MW-74 (14-19 FT)
3/8/2019: 1.1 µg/L
5/17/2019: ND (< 1.0 µg/L)
9/18/2019: 1.7 µg/L
11/11/2019: 1.8 µg/L

MW-139S (2-7 FT)
2/26/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 µg/L)

MW-98S (2.5-12.5 FT)
3/6/2019: 0.43 J µg/L
5/10/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 µg/L)

MW-138S (2-7 FT)
2/19/2019: 1.7 µg/L
5/16/2019: 1.6 µg/L
9/23/2019: 1.4 µg/L
11/15/2019: 1.2 µg/L

MW-133S (4-9 FT)
2/14/2019: ND (< 1.0 µg/L)
5/23/2019: ND (< 1.0 µg/L)
9/17/2019: ND (< 1.0 µg/L)
11/7/2019: ND (< 1.0 µg/L)

MW-140S (2-7 FT)
2/26/2019: ND (< 1.0 µg/L)
5/16/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/12/2019: ND (< 1.0 µg/L)

MW-78 (7-12 FT)
2/26/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-74S (3-13 FT)
3/8/2019: ND (< 1.0 µg/L)
5/8/2019: ND (< 1.0 µg/L)
9/18/2019: ND (< 1.0 µg/L)
11/6/2019: ND (< 1.0 µg/L)

MW-192S (2.5-7.5 FT)
4/11/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-134S (5-10 FT)
2/14/2019: ND (< 1.0 µg/L)
5/20/2019: ND (< 1.0 µg/L)
9/17/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-84S (2.5-12.5 FT)
2/28/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/25/2019: ND (< 1.0 µg/L)

MW-84 (8-13 FT)
2/28/2019: ND (< 1.0 µg/L)
5/21/2019: ND (< 1.0 µg/L)
9/24/2019: ND (< 1.0 µg/L)
11/25/2019: ND (< 1.0 µg/L)

MW-78S (2.5-12.5 FT)
2/26/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/14/2019: ND (< 1.0 µg/L)

MW-99S (3-13FT)
3/7/2019: 0.28 J µg/L
5/9/2019: ND (< 1.0 µg/L)
9/16/2019: ND (< 1.0 µg/L)
11/6/2019: ND (< 1.0 µg/L)

MW-106S (2.5-12.5 FT)
2/27/2019: ND (< 1.0 µg/L)
5/16/2019: ND (< 1.0 µg/L)
9/23/2019: ND (< 1.0 µg/L)
11/15/2019: ND (< 1.0 µg/L)

MW-81 (8-13 FT)
3/6/2019: 0.69 J µg/L
5/17/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/7/2019: ND (< 1.0 µg/L)

MW-86 (12-17 FT)
2/28/2019: ND (< 1.0 µg/L)
5/21/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/25/2019: ND (< 1.0 µg/L)

MW-96S (2.5-12.5 FT)
2/27/2019: ND (< 1.0 µg/L)
5/16/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/26/2019: ND (< 1.0 µg/L)

MW-75D (12-17 FT)
3/7/2019: 1.6 µg/L
5/15/2019: 1.7 µg/L
9/18/2019: 1.6 µg/L
11/26/2019: 2.2 µg/L

MW-77 (9-14 FT)
3/4/2019: 0.48 J µg/L
5/16/2019: 0.24 J µg/L
9/17/2019: 0.35 J µg/L
11/22/2019: ND (< 1.0 µg/L)

MW-135S (5-10 FT)
2/14/2019: ND (< 1.0 µg/L)
5/20/2019: ND (< 1.0 µg/L)
9/16/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-81S (2.5-12.5 FT)
3/6/2019: 0.66 J µg/L
5/17/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/7/2019: ND (< 1.0 µg/L)

MW-75SR (2.5-12.5 FT)
3/7/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L
9/18/2019: 0.51 J µg/L
11/26/2019: 0.33 J µg/L

MW-86S (2.5-12.5 FT)
2/28/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/25/2019: ND (< 1.0 µg/L)

MW-77S (2.5-12.5 FT)
3/4/2019: 0.20 J µg/L
5/16/2019: ND (< 1.0 µg/L)
9/17/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-97S (2.5-12.5 FT)
3/6/2019: 0.42 J µg/L
5/10/2019: ND (< 1.0 µg/L)
9/19/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-100S (3-13 FT)
2/27/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L)
9/16/2019: ND (< 1.0 µg/L)
11/26/2019: ND (< 1.0 µg/L)

MW-87S (4.5-14.5 FT)
3/1/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-87 (14-19 FT)
2/28/2019: ND (< 1.0 µg/L)
5/21/2019: ND (< 1.0 µg/L)
9/20/2019: ND (< 1.0 µg/L)
11/22/2019: ND (< 1.0 µg/L)

MW-101S (4.5-14.5 FT)
3/6/2019: 0.58 J µg/L
5/8/2019: ND (< 1.0 µg/L)
9/16/2019: ND (< 1.0 µg/L)
11/13/2019: ND (< 1.0 µg/L)

MW-76S (4.5-14.5 FT)
3/1/2019: ND (< 1.0 µg/L)
5/8/2019: ND (< 1.0 µg/L)
9/17/2019: ND (< 1.0 µg/L)
11/5/2019: ND (< 1.0 µg/L)

MW-76 (15-20 FT)
3/1/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)
9/17/2019: ND (< 1.0 µg/L)
11/20/2019: ND (< 1.0 µg/L)

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
BLUE/BOLD TEXT	EXCEEDANCE OF THE TDL FROM PAST AND PRESENT SAMPLING EVENTS

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (FEBRUARY/MARCH 2019, APRIL/MAY 2019, SEPTEMBER 2019, AND NOVEMBER 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 THE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY 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: JB PM: K. HINSKEY PROJECT NUMBER: 30016352 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2133 Feet
G:\COMMON\Ford\Livonia\03 Notes and Data_Engineering\HCS\4_HCS Performance Monitoring\Gradient Maps & GWEC Figures\Gradient Maps\4Q 2019 BY: jroberts

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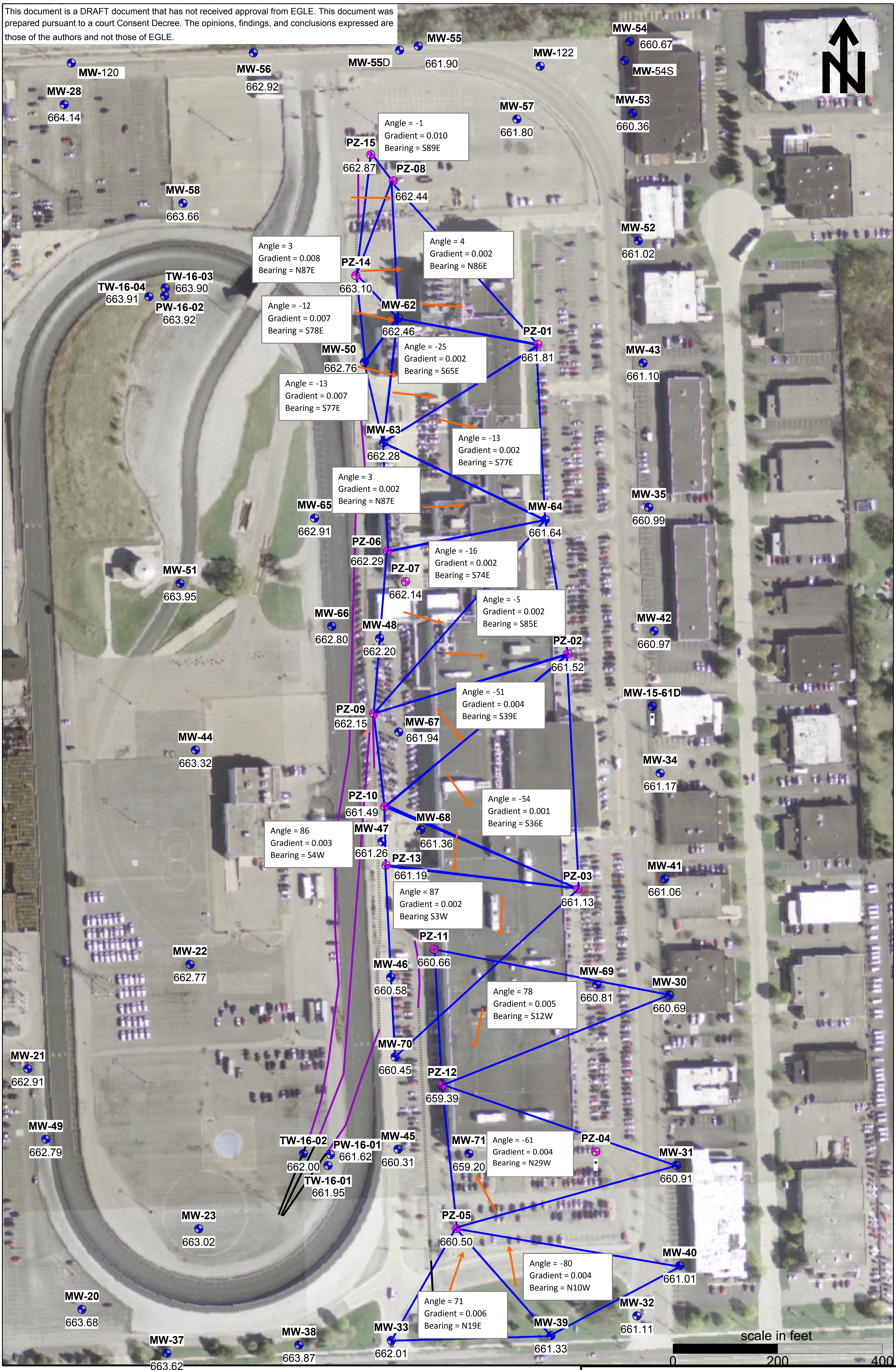

LEGEND:

MW-32	LOCATION ID
⊕	MONITORING WELL
⊕	PIEZOMETER
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 November 4, 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. HDPE - high density polyethylene
4. * - well not gauged

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

HYDRAULIC GRADIENT MAP
NOVEMBER 2019

ARCADIS Design & Consultancy for natural and built assets

FIGURE
12A

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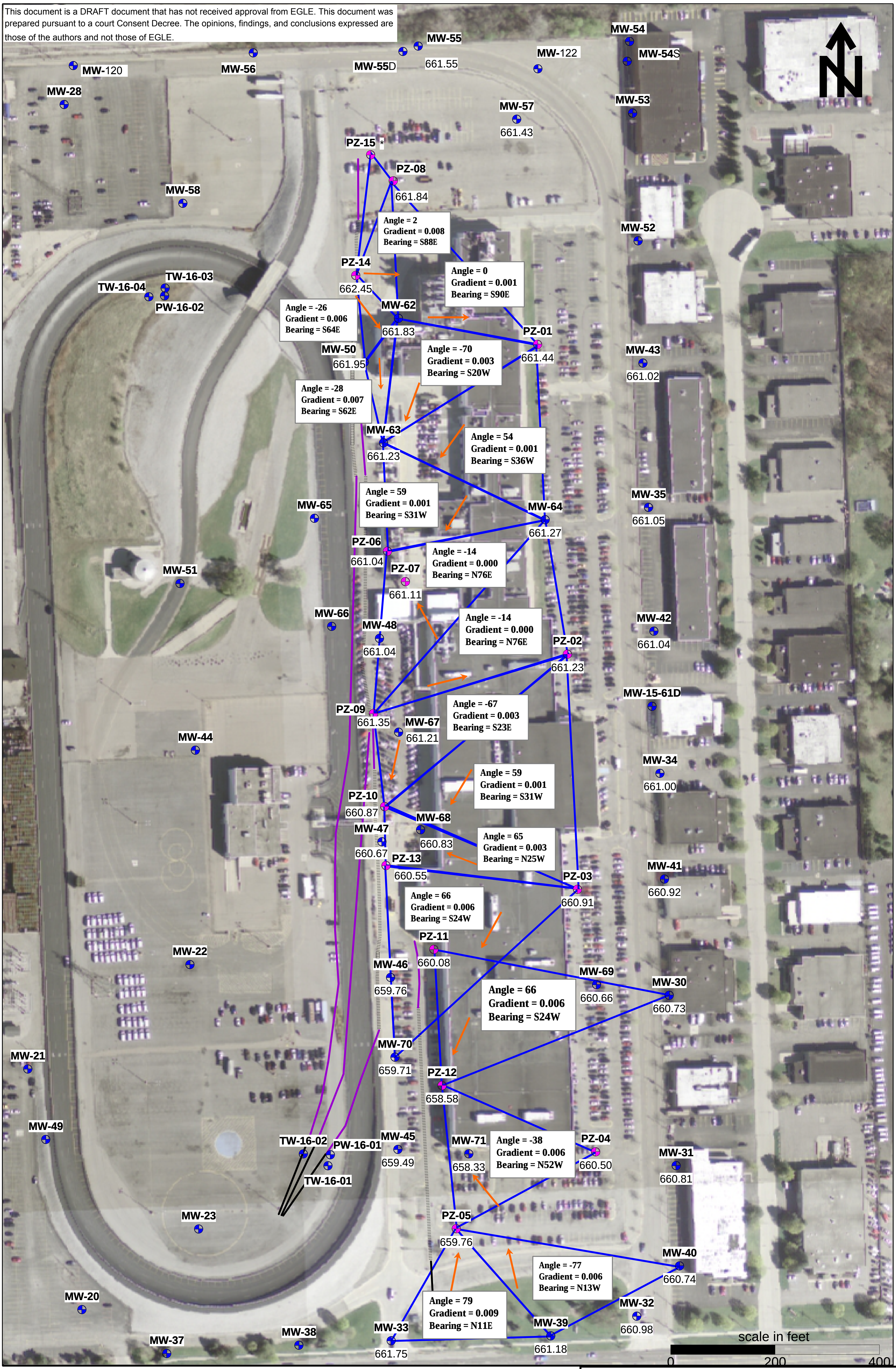

LEGEND:

MW-32 LOCATION ID

● MONITORING WELL

● PIEZOMETER

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 in December 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. HDPE - high density polyethylene
4. * - well not gauged

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

HYDRAULIC GRADIENT MAP
DECEMBER 2019

ARCADIS Design & Consultancy for natural and built assets

FIGURE
12B

APPENDIX A

Off-Site Residential Monitoring Wells

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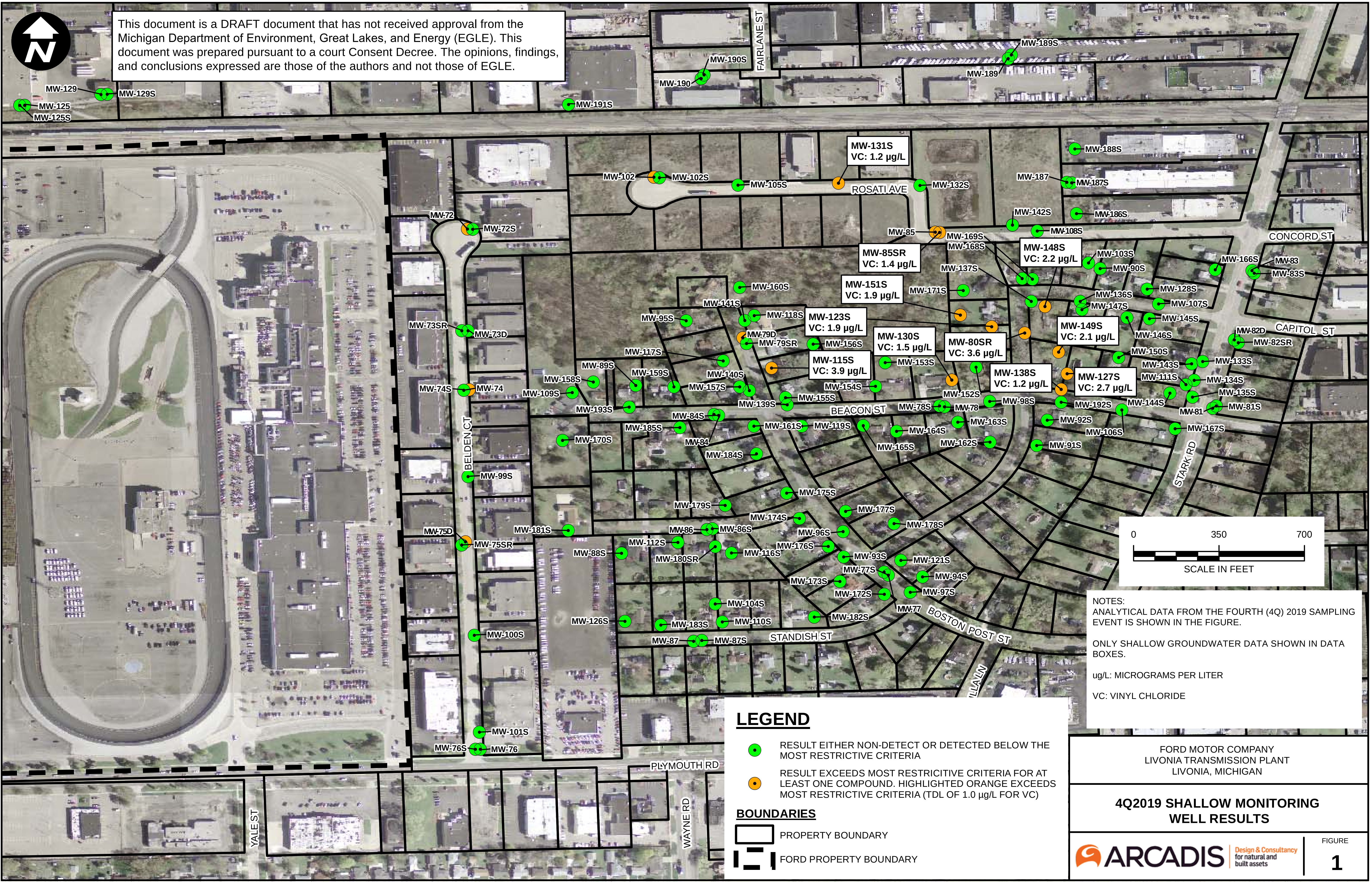

NOTES:
ANALYTICAL DATA FROM THE FOURTH (4Q) 2019 SAMPLING EVENT IS SHOWN IN THE FIGURE.

ONLY SHALLOW GROUNDWATER DATA SHOWN IN DATA BOXES.

ug/L: MICROGRAMS PER LITER

VC: VINYL CHLORIDE

LEGEND

●	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

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

4Q2019 SHALLOW MONITORING WELL 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: 30016352.00004 COORDINATE SYSTEM: GCS North American 1983 BY: Sharmayh4948
Z:\GISProjects_ENV\NoviBrighton_MI\Ford\Livonia\GIS\docs\GEC\4Q_2019\Shallow_MW_4q2019_Results_10pt5.mxd PLOTTED: 1/15/2020 3:25:14 AM

Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
4Q 2019
Ford Livonia Transmission Plant

			Location:	MW-72	MW-72S	MW-73D	MW-73SR	MW-74	MW-74S	MW-75D	MW-75SR	MW-76	MW-76S	MW-77	MW-77S	MW-78	MW-78S	MW-79D
			Date:	11/5/2019	11/6/2019	11/11/2019	11/11/2019	11/11/2019	11/6/2019	11/26/2019	11/26/2019	11/20/2019	11/5/2019	11/22/2019	11/22/2019	11/14/2019	11/14/2019	11/12/2019
			Screen Interval (ft. bgs):	15-20	3-13	13.5-18.5	2.5-12.5	14-19	3-13	12-17	2.5-12.5	15-20	4.5-14.5	9-14	2.5-12.5	7-12	2.5-12.5	10-15
Analytic Method	**Chemical Name**	**Ford LTP Offsite Residential DW Criteria**	**MI GW (EGLE2018) Non Residential DW Criteria**															
SW8468260BBYSIM	1,4-Dioxane	7.2	350	0.97 J	< 2.0	2.8	< 2.0	1.4 J	< 2.0	1.9 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.35 J
SW8260B	1,1-Dichloroethene	7.0	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
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	2.4	0.62 J	1.5	< 1.0	< 1.0	1.4	< 1.0	0.72 J	< 1.0	0.41 J	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5.0	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
SW8260B	trans-1,2-Dichloroethene	100	100	< 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
SW8260B	Trichloroethene	1.0	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
SW8260B	Vinyl chloride	1.0	2.0	**2.8**	< 1.0	< 1.0	1.0	**1.8**	< 1.0	**2.2**	0.33 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.6**

			Location:	MW-79SR	MW-80SR	MW-81	MW-81S	MW-82D	MW-82SR	MW-83	MW-83S	MW-84	MW-84S	MW-85	MW-85SR	MW-86	MW-86S	MW-87
			Date:	11/13/2019	11/5/2019	11/7/2019	11/7/2019	11/7/2019	11/7/2019	11/5/2019	11/5/2019	11/25/2019	11/25/2019	11/13/2019	11/13/2019	11/25/2019	11/25/2019	11/22/2019
			Screen Interval (ft. bgs):	2.5-12.5	2.5-12.5	8-13	2.5-12.5	18-23	5-15	8-13	3-13	8-13	2.5-12.5	8-13	4.5-9.5	12-17	2.5-12.5	14-19
Analytic Method	**Chemical Name**	**Ford LTP Offsite Residential DW Criteria**	**MI GW (EGLE2018) Non Residential DW Criteria**															
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	0.84 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.49 J	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7.0	7.0	< 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
SW8260B	cis-1,2-Dichloroethene	70	70	< 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
SW8260B	Tetrachloroethene	5.0	5.0	< 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
SW8260B	trans-1,2-Dichloroethene	100	100	< 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
SW8260B	Trichloroethene	1.0	5.0	< 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
SW8260B	Vinyl chloride	1.0	2.0	0.30 J	**3.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**5.1 J**	**1.4**	< 1.0	< 1.0	< 1.0

			Location:	MW-87S	MW-88S	MW-89S	MW-90S	MW-91S	MW-92S	MW-93S	MW-94S	MW-95S	MW-96S	MW-97S	MW-98S	MW-99S	MW-100S	MW-101S
			Date:	11/22/2019	11/14/2019	11/14/2019	11/21/2019	11/18/2019	11/19/2019	11/18/2019	11/18/2019	11/15/2019	11/26/2019	11/22/2019	11/13/2019	11/6/2019	11/26/2019	11/13/2019
			Screen Interval (ft. bgs):	4.5-14.5	3-13	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	2.5-12.5	2.5-12.5	3-13	3-13	4.5-14.5
Analytic Method	**Chemical Name**	**Ford LTP Offsite Residential DW Criteria**	**MI GW (EGLE2018) Non Residential DW Criteria**															
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	0.38 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.34 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7.0	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
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.30 J	< 1.0	< 1.0	< 1.0	0.41 J	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5.0	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
SW8260B	trans-1,2-Dichloroethene	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	< 1.0
SW8260B	Trichloroethene	1.0	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
SW8260B	Vinyl chloride	1.0	2.0	< 1.0	< 1.0	0.75 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.97 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:

All units are measured in micrograms per liter (µg/l).

All results are compared to the EGLE Part 201 Generic Cleanup Criteria, June 2018.

Bold	Result exceeds residential Drinking Water criteria
<	Result not detected above reporting limit.

Abbreviations:

DW	drinking water
EGLE	Michigan Department of Environment, Great Lakes, and Energy
ft. bgs	feet below ground surface
J	estimated result
LTP	Livonia Transmission Plant
NS	Not Sampled

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Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
4Q 2019
Ford Livonia Transmission Plant

			Location:	MW-102	MW-102S	MW-103S	MW-104S	MW-105S	MW-106S	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	MW-112S	MW-115S	MW-116S	MW-117S
			Date:	11/18/2019	11/18/2019	11/15/2019	11/21/2019	11/13/2019	11/15/2019	11/12/2019	11/12/2019	11/13/2019	11/21/2019	11/26/2019	11/14/2019	11/14/2019	11/14/2019	11/15/2019
			Screen Interval (ft. bgs):	10-15	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	8-13	8-13	2.5-12.5	2.5-12.5	3-13	2.5-12.5
Analytic Method	**Chemical Name**	**Ford LTP Offsite Residential DW Criteria**	**MI GW (EGLE2018) Non Residential DW Criteria**															
SW8468260BBYSIM	1,4-Dioxane	7.2	350	1.0 J	< 2.0	< 2.0	< 2.0	0.55 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.41 J	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7.0	7.0	< 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	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5.0	5.0	< 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	0.28 J
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1.0	5.0	< 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	0.57 J
SW8260B	Vinyl chloride	1.0	2.0	**1.4**	< 1.0	0.38 J	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	< 1.0	**3.9**	< 1.0	0.80 J

			Location:	MW-118S	MW-119S	MW-121S	MW-123S	MW-125	MW-125S	MW-126S	MW-127S	MW-128S	MW-129	MW-129S	MW-130S	MW-131S	MW-132S	MW-133S
			Date:	11/14/2019	11/12/2019	11/18/2019	11/20/2019	11/14/2019	11/14/2019	11/21/2019	11/21/2019	11/21/2019	NS	11/19/2019	11/18/2019	11/12/2019	11/12/2019	11/7/2019
			Screen Interval (ft. bgs):	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	7-12	2-7	3-13	3-13	4-14	10-15	2-7	3-13	2.5-12.5	2.5-12.5	4-9
Analytic Method	**Chemical Name**	**Ford LTP Offsite Residential DW Criteria**	**MI GW (EGLE2018) Non Residential DW Criteria**															
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.65 J	< 2.0	NS	< 2.0	< 2.0	0.52 J	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7.0	7.0	< 1.0	< 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
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	0.31 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
SW8260B	Tetrachloroethene	5.0	5.0	< 1.0	< 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
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 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
SW8260B	Trichloroethene	1.0	5.0	< 1.0	< 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
SW8260B	Vinyl chloride	1.0	2.0	0.84 J	< 1.0	< 1.0	**1.9**	< 1.0	0.19 J	< 1.0	**2.7**	< 1.0	NS	< 1.0	**1.5**	**1.2**	< 1.0	< 1.0

			Location:	MW-134S	MW-135S	MW-136S	MW-137S	MW-138S	MW-139S	MW-140S	MW-141S	MW-142S	MW-143S	MW-144S	MW-145S	MW-146S	MW-147S	MW-148S
			Date:	11/5/2019	11/5/2019	11/13/2019	11/5/2019	11/15/2019	11/13/2019	11/12/2019	11/13/2019	11/13/2019	11/26/2019	11/26/2019	11/25/2019	11/25/2019	11/25/2019	11/5/2019
			Screen Interval (ft. bgs):	5-10	5-10	2-7	2-7	2-7	2-7	2-7	3-8	2.5-7.5	5.5-10.5	7-12	6-11	6-11	2-7	2-7
Analytic Method	**Chemical Name**	**Ford LTP Offsite Residential DW Criteria**	**MI GW (EGLE2018) Non Residential DW Criteria**															
SW8468260BBYSIM	1,4-Dioxane	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	0.48 J
SW8260B	1,1-Dichloroethene	7.0	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
SW8260B	cis-1,2-Dichloroethene	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	< 1.0
SW8260B	Tetrachloroethene	5.0	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
SW8260B	trans-1,2-Dichloroethene	100	100	< 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
SW8260B	Trichloroethene	1.0	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
SW8260B	Vinyl chloride	1.0	2.0	< 1.0	< 1.0	< 1.0	0.50 J	**1.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.39 J	0.64 J	**2.2**

Notes:

All units are measured in micrograms per liter (µg/l).

All results are compared to the EGLE Part 201 Generic Cleanup Criteria, June 2018.

Bold	Result exceeds residential Drinking Water criteria
<	Result not detected above reporting limit.

Abbreviations:

DW	drinking water
EGLE	Michigan Department of Environment, Great Lakes, and Energy
ft. bgs	feet below ground surface
J	estimated result
LTP	Livonia Transmission Plant
NS	Not Sampled

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Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
4Q 2019
Ford Livonia Transmission Plant

			Location:	MW-149S	MW-150S	MW-151S	MW-152S	MW-153S	MW-154S	MW-155S	MW-156S	MW-157S	MW-158S	MW-159S	MW-160S	MW-161S	MW-162S	MW-163S	MW-164S	MW-165S
			Date:	11/21/2019	11/21/2019	11/20/2019	11/18/2019	11/19/2019	11/18/2019	11/13/2019	11/14/2019	11/15/2019	11/15/2019	11/14/2019	11/14/2019	11/12/2019	11/20/2019	11/18/2019	11/13/2019	11/14/2019
			Screen Interval (ft. bgs):	2-7	2-7	2.5-7.5	2.5-7.5	2-7	2-7	2-7	3-8	2.5-7.5	2.5-7.5	4-9	4-9	2.5-7.5	3-8	2-7	3-8	2-7
Analytic Method	**Chemical Name**	**Ford LTP Offsite Residential DW Criteria**	**MI GW (EGLE2018) Non Residential DW Criteria**																	
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 0.40	< 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	7.0	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
SW8260B	cis-1,2-Dichloroethene	70	70	< 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
SW8260B	Tetrachloroethene	5.0	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
SW8260B	trans-1,2-Dichloroethene	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	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1.0	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
SW8260B	Vinyl chloride	1.0	2.0	**2.1**	0.50 J	**1.9**	0.35 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

			Location:	MW-166S	MW-167S	MW-168S	MW-169S	MW-170S	MW-171S	MW-172S	MW-173S	MW-174S	MW-175S	MW-176S	MW-177S	MW-178S	MW-179S	MW-180SR	MW-181S
			Date:	11/25/2019	11/26/2019	11/15/2019	11/15/2019	11/13/2019	11/19/2019	11/18/2019	11/13/2019	11/12/2019	NS	11/13/2019	11/14/2019	11/14/2019	11/12/2019	11/13/2019	11/14/2019
			Screen Interval (ft. bgs):	6-11	5-10	2-7	2-7	4.5-9.5	2-7	4.5-9.5	5.5-10.5	5.5-10.5	6-11	5-10	4-9	4.5-9.5	6-11	6.5-11.5	3.5-8.5
Analytic Method	**Chemical Name**	**Ford LTP Offsite Residential DW Criteria**	**MI GW (EGLE2018) Non Residential DW Criteria**																
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 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	1.8 J	< 2.0
SW8260B	1,1-Dichloroethene	7.0	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5.0	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1.0	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	1.0	2.0	< 1.0	< 1.0	< 1.0	0.18 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

			Location:	MW-182S	MW-183S	MW-184S	MW-185S	MW-186S	MW-187	MW-187S	MW-188S	MW-189	MW-189S	MW-190	MW-190S	MW-191S	MW-192S	MW-193S
			Date:	11/12/2019	11/21/2019	11/11/2019	11/13/2019	11/11/2019	11/11/2019	11/11/2019	11/11/2019	11/8/2019	11/8/2019	11/8/2019	11/8/2019	11/19/2019	11/15/2019	11/14/2019
			Screen Interval (ft. bgs):	4-9	8-13	4.5-9.5	6-11	2.5-7.5	8-13	3-8	8-Mar	10-15	4.5-9.5	9-14	2.5-7.5	2.5-7.5	2.5-7.5	3-8
Analytic Method	**Chemical Name**	**Ford LTP Offsite Residential DW Criteria**	**MI GW (EGLE2018) Non Residential DW Criteria**															
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 0.40	< 2.0	3.5	< 2.0	< 2.0	**8.0**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7.0	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
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.7	1.2	5.3	0.53 J	< 1.0
SW8260B	Tetrachloroethene	5.0	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
SW8260B	trans-1,2-Dichloroethene	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 J	< 1.0
SW8260B	Trichloroethene	1.0	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	0.54 J	< 1.0	< 1.0
SW8260B	Vinyl chloride	1.0	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0

Notes:

All units are measured in micrograms per liter (µg/l).

All results are compared to the EGLE Part 201 Generic Cleanup Criteria, June 2018.

Bold	Result exceeds residential Drinking Water criteria
<	Result not detected above reporting limit.

Abbreviations:

DW	drinking water
EGLE	Michigan Department of Environment, Great Lakes, and Energy
ft. bgs	feet below ground surface
J	estimated result
LTP	Livonia Transmission Plant
NS	Not Sampled

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

APPENDIX B

On-Site Groundwater Field Sampling Logs

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-1
Date 11-15-19
Project Name/Location Ford LTP
Weather 28.04 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 14-19
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 4.57
Total Depth (ft-bmp) 18.61
Water Column (ft.) 14.04
Gallons in Well 2.28
Pump Intake (ft-bmp) 16.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.70
Sample Time: Label 11:07
Volume Purged 1.6 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 10:20
Purge End 11:05

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:22	0	150	4.57	0.00	8.76	87.00	72.10	1.88	13.8	-123.3	Small Black Particulates, Turbid	No Odor
10:27	5	150	4.55	0.20	7.83	92.00	56.40	0.35	14.5	-177.9	Small Black Particulates, Turbid	No Odor
10:32	5	150	4.72	0.40	7.59	92.60	59.50	0.17	15.7	-303.9	Small Black Particulates, Turbid	No Odor
10:37	5	150	4.75	0.60	7.55	92.40	59.50	0.15	15.9	-208.2	Small Black Particulates, Turbid	No Odor
10:42	5	150	4.75	0.80	7.55	91.60	58.50	0.12	15.9	-211.1	Small Black Particulates, Turbid	No Odor
10:47	5	150	4.75	1.00	7.56	91.40	51.60	0.13	15.9	-213.4	Small Black Particulates, Turbid	No Odor
10:52	5	150	4.65	1.20	7.57	90.60	44.50	0.12	15.9	-214.9	Cloudy, Small Black Particulates	No Odor
10:57	5	150	4.65	1.40	7.57	89.70	45.40	0.10	16.0	-216.7	Clear, Small Black Particulates	No Odor
11:02	5	150	4.65	1.60	7.56	88.20	43.30	0.08	16.0	-218.2	Clear, Small Black Particulates	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot ***1" = 0.04*** ***1.5" = 0.09*** ***2.5" = 0.26*** ***3.5" = 0.50*** ***6" = 1.47***
1.25" = 0.06 ***2" = 0.16*** ***3" = 0.37*** ***4" = 0.65***

Well Information

Well Location: SW parking lot
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-2			Date	11-20-19
Project Name/Location	Ford LTP			Weather	39.02 degrees F, Haze		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15.5-20.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.89	Total Depth (ft-bmp)	19.48	Water Column (ft.)	12.59	Gallons in Well	2.05
		Pump Intake (ft-bmp)	18.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.40				
Sample Time: Label	11:37	Volume Purged	0.81 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	11:05						
Purge End	11:36						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:05	0	100	7.13	0.00	7.32	12.74	6.31	0.99	20.3	15.0	Clear	No Odor
11:10	5	100	7.13	0.13	7.31	12.78	6.97	0.46	20.7	8.7	Clear	No Odor
11:15	5	100	7.13	0.26	7.31	12.84	5.52	0.25	20.7	-3.4	Clear	No Odor
11:20	5	100	7.13	0.39	7.32	12.85	3.75	0.22	20.7	-10.7	Clear	No Odor
11:25	5	100	7.13	0.52	7.32	12.86	2.51	0.16	20.7	-19.5	Clear	No Odor
11:30	5	100	7.13	0.65	7.32	12.87	0.02	0.13	20.7	-26.8	Clear	No Odor
11:33	3	100	7.13	0.73	7.32	12.87	0.88	0.13	20.7	-30.8	Clear	No Odor
11:36	3	100	7.13	0.81	7.32	12.87	0.02	0.12	20.7	-34.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Depart well at 1155

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	In walkway next to clean room by Q14	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-3
Date 11-19-19
Project Name/Location Ford LTP
Weather 37.94 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 14-19
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.21
Total Depth (ft-bmp) 18.63
Water Column (ft.) 11.42
Gallons in Well 1.86
Pump Intake (ft-bmp) 16.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.51
Sample Time: Label 13:47
Volume Purged 0.94 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 13:10
Purge End 13:46

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:10	0	100	7.35	0.00	7.37	28.54	0.02	1.00	21.2	23.5	Clear	No Odor
13:15	5	100	7.35	0.13	7.38	28.70	0.02	0.25	21.1	11.0	Clear	No Odor
13:20	5	100	7.35	0.26	7.39	28.67	0.02	0.16	21.0	-1.5	Clear	No Odor
13:25	5	100	7.35	0.39	7.39	28.62	0.02	0.12	21.0	-13.2	Clear	No Odor
13:30	5	100	7.35	0.52	7.39	28.60	0.02	0.09	21.0	-23.4	Clear	No Odor
13:35	5	100	7.35	0.65	7.39	28.63	0.02	0.07	21.0	-32.3	Clear	No Odor
13:40	5	100	7.35	0.78	7.39	28.59	0.02	0.07	21.0	-43.8	Clear	No Odor
13:43	3	100	7.35	0.86	7.39	28.60	0.02	0.05	21.0	-47.6	Clear	No Odor
13:46	3	100	7.35	0.94	7.39	28.62	0.02	0.05	21.0	-51.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Kiddie corner of hospital, between Q42 and machinery
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-4
Date 11-19-19
Project Name/Location Ford LTP
Weather 35.96 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 15.5-20.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.61
Total Depth (ft-bmp) 20.13
Water Column (ft.) 12.52
Gallons in Well 2.03
Pump Intake (ft-bmp) 18.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.46
Sample Time: Label 11:32
Volume Purged 0.94 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 10:55
Purge End 11:31

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:55	0	100	7.68	0.00	7.09	19.54	5.29	0.82	21.4	155.3	Clear	No Odor
11:00	5	100	7.68	0.13	7.17	20.56	0.80	0.43	21.6	128.6	Clear	No Odor
11:05	5	100	7.68	0.26	7.19	20.69	0.02	0.29	21.9	112.8	Clear	No Odor
11:10	5	100	7.68	0.39	7.19	20.67	0.86	0.22	22.0	102.0	Clear	No Odor
11:15	5	100	7.68	0.52	7.19	20.59	0.02	0.18	22.1	92.5	Clear	No Odor
11:20	5	100	7.68	0.65	7.19	20.56	0.87	0.18	22.1	82.8	Clear	No Odor
11:25	5	100	7.68	0.78	7.19	20.52	0.02	0.14	22.1	75.2	Clear	No Odor
11:28	3	100	7.68	0.86	7.19	20.51	0.02	0.13	22.1	71.4	Clear	No Odor
11:31	3	100	7.68	0.94	7.19	20.50	0.02	0.12	22.1	66.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: By K14
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-5
Date 11-20-19
Project Name/Location Ford LTP
Weather 39.02 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 15.5-20.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.22
Total Depth (ft-bmp) 20.62
Water Column (ft.) 13.40
Gallons in Well 2.18
Pump Intake (ft-bmp) 18.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.41

Sample Time: Label 10:37
Volume Purged 0.89 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 10:00
Purge End 10:34

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:00	0	100	7.50	0.00	7.41	12.46	11.90	0.65	21.5	114.4	Clear	No Odor
10:05	5	100	7.50	0.13	7.48	12.57	2.58	0.39	21.4	99.2	Clear	No Odor
10:10	5	100	7.50	0.26	7.51	12.58	1.16	0.36	21.4	83.9	Clear	No Odor
10:15	5	100	7.50	0.39	7.53	12.55	0.02	0.26	21.5	70.7	Clear	No Odor
10:20	5	100	7.50	0.52	7.54	12.53	0.02	0.18	21.5	57.1	Clear	No Odor
10:25	5	100	7.50	0.65	7.55	12.52	0.02	0.13	21.5	46.8	Clear	No Odor
10:28	3	100	7.50	0.73	7.55	12.50	0.02	0.11	21.5	39.8	Clear	No Odor
10:31	3	100	7.50	0.81	7.55	12.49	0.02	0.13	21.5	36.2	Clear	No Odor
10:34	3	100	7.50	0.89	7.55	12.48	0.02	0.12	21.5	31.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Depart at 1050

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.25" = 0.06* *1.5" = 0.09* *2" = 0.16* *2.5" = 0.26* *3" = 0.37* *3.5" = 0.50* *4" = 0.65* *6" = 1.47*

Well Information

Well Location: Inside clean room by M22
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-7
Date 11-22-19
Project Name/Location Ford LTP
Weather 35.06 degrees F, Mostly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 18-23
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 4.78
Total Depth (ft-bmp) 22.36
Water Column (ft.) 17.58
Gallons in Well 2.86
Pump Intake (ft-bmp) 20.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.46
Sample Time: Label 10:06
Volume Purged 1.32 gallons
Replicate/Code No. DUP-10_112219
Sampled by Madison Olender
Purge Start 9:29
Purge End 10:15

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:30	0	150	4.78	0.00	6.54	9.50	31.90	3.60	14.5	58.3	Clear	Slight Odor
9:35	5	150	4.78	0.20	7.35	10.77	16.70	0.44	14.3	-110.0	Clear	Slight Odor
9:40	5	150	4.78	0.40	7.42	10.24	7.08	0.30	14.6	-130.4	Clear	Slight Odor
9:45	5	150	4.78	0.60	7.43	10.06	1.25	0.26	14.6	-136.2	Clear	Slight Odor
9:50	5	150	4.78	0.80	7.43	10.50	1.03	0.23	14.9	-139.1	Clear	Slight Odor
9:55	5	150	4.78	1.00	7.42	11.16	1.29	0.20	15.3	-141.6	Clear	Slight Odor
10:00	5	150	4.78	1.20	7.42	11.46	0.02	0.19	14.9	-142.4	Clear	No Odor
10:03	3	150	4.78	1.32	7.41	11.48	0.02	0.19	14.9	-142.8	Clear	Slight Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	6	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	6	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: S grass by Plymouth rd
Well Locked at Arrival: no
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00001
Well ID MW-9
Date 11-21-19
Project Name/Location Ford LTP
Weather 42.98 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 19.5-24.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.59
Total Depth (ft-bmp) 24.24
Water Column (ft.) 17.65
Gallons in Well 2.87
Pump Intake (ft-bmp) 22.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.82
Sample Time: Label 14:08
Volume Purged 2.36 gallons
Replicate/Code No. --
Sampled by Madison Olender
Purge Start 13:06
Purge End 14:12

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:07	0	150	6.59	0.00	7.51	23.32	50.10	0.81	14.5	-35.7	Turbid	Faint Odor
13:12	5	150	6.59	0.20	7.40	20.92	26.80	0.37	14.8	-38.9	Small Black Particulates, Turbid	Faint Odor
13:17	5	150	6.59	0.40	7.37	19.44	39.00	0.29	14.8	-34.5	Small Black Particulates	Faint Odor
13:22	5	150	6.59	0.60	7.38	19.04	42.90	0.29	15.0	-37.9	Small Black Particulates	Faint Odor
13:27	5	150	6.59	0.80	7.39	18.93	39.40	0.25	15.3	-43.6	Small Black Particulates	Faint Odor
13:32	5	150	6.59	1.00	7.40	18.66	29.30	0.23	15.5	-52.7	Small Black Particulates	Faint Odor
13:37	5	150	6.59	1.20	7.43	18.19	21.40	0.19	15.4	-67.8	Small Black Particulates	Faint Odor
13:42	5	150	6.59	1.40	7.46	17.02	15.10	0.18	15.6	-81.3	Clear	Faint Odor
13:47	5	150	6.59	1.60	7.47	16.13	9.30	0.17	15.6	-90.5	Clear	Faint Odor
13:52	5	150	6.59	1.80	7.49	15.61	6.59	0.18	15.4	-97.5	Clear	Faint Odor
13:57	5	150	6.59	2.00	7.50	15.09	4.69	0.17	15.6	-103.5	Clear	Faint Odor
14:02	5	120	6.59	2.20	7.51	14.38	2.75	0.17	15.8	-109.2	Clear	Faint Odor
14:07	5	150	6.59	2.36	7.51	13.98	2.02	0.14	15.7	-112.8	Clear	Faint Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Front parking lot
Well Locked at Arrival: no
Condition of Well: Fair,Missing bolts
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00001	Well ID	MW-10			Date	11-19-19
Project Name/Location	Ford LTP			Weather	37.04 degrees F, Fog/Mist		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16.5-21.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.62	Total Depth (ft-bmp)	20.75	Water Column (ft.)	12.13	Gallons in Well	1.97
		Pump Intake (ft-bmp)	19.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.47				
Sample Time: Label	12:37	Volume Purged	0.92 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	12:00						
Purge End	12:36						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:00	0	100	8.80	0.00	7.16	17.55	25.10	1.52	21.7	52.1	Small Orange Particulates	No Odor
12:05	5	100	8.83	0.13	7.16	17.47	13.80	0.65	21.7	49.8	Small Orange Particulates	No Odor
12:10	5	100	8.84	0.24	7.16	17.42	11.70	0.27	21.7	45.4	Clear	No Odor
12:15	5	100	8.84	0.37	7.17	17.50	10.90	0.23	21.7	41.0	Clear	No Odor
12:20	5	100	8.84	0.50	7.19	17.61	11.30	0.17	21.7	34.9	Clear	No Odor
12:25	5	100	8.84	0.63	7.19	17.64	6.13	0.13	21.7	29.4	Clear	No Odor
12:30	5	100	8.84	0.76	7.20	17.74	3.41	0.12	21.7	24.4	Clear	No Odor
12:33	3	100	8.84	0.84	7.21	17.81	2.48	0.11	21.7	19.7	Clear	No Odor
12:36	3	100	8.84	0.92	7.21	17.84	4.00	0.08	21.7	16.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Plant near E14	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-14
Date 11-21-19
Project Name/Location Ford LTP
Weather 41.00 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 15-20
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.60
Total Depth (ft-bmp) 19.32
Water Column (ft.) 12.72
Gallons in Well 2.07
Pump Intake (ft-bmp) 17.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.70
Sample Time: Label 11:56
Volume Purged 1.44 gallons
Replicate/Code No. --
Sampled by Madison Olender
Purge Start 11:17
Purge End 12:01

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:18	0	150	6.60	0.00	7.23	51.16	51.60	0.64	15.1	-6.0	Turbid	Faint Odor
11:23	5	150	6.60	0.20	7.25	49.19	52.20	0.38	15.3	-34.1	Turbid	Faint Odor
11:28	5	150	6.60	0.40	7.28	47.83	34.10	0.31	15.5	-51.3	Turbid	Faint Odor
11:33	5	150	6.60	0.60	7.31	46.10	13.50	0.30	15.4	-62.4	Clear	Faint Odor
11:38	5	150	6.60	0.80	7.33	42.42	8.12	0.29	15.4	-72.8	Clear	No Odor
11:43	5	150	6.60	1.00	7.32	37.85	4.18	0.27	15.6	-75.8	Clear	Faint Odor
11:48	5	150	6.60	1.20	7.29	33.77	3.12	0.26	15.4	-75.1	Clear	Faint Odor
11:51	3	150	6.60	1.32	7.28	33.80	3.10	0.22	15.6	-74.0	Clear	Faint Odor
11:54	3	150	6.60	1.44	7.27	33.84	3.50	0.21	15.4	-74.1	Clear	Faint Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Front parking lot
Well Locked at Arrival: no
Condition of Well: Fair,Missing bolts
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-15-59D			Date	11-22-19
Project Name/Location	Ford LTP			Weather	35.96 degrees F, Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	94-99	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	23.15	Total Depth (ft-bmp)	100.40	Water Column (ft.)	77.25	Gallons in Well	12.55
		Pump Intake (ft-bmp)	95.40	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.11				
Sample Time: Label	14:32	Volume Purged	1.42 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	13:55						
Purge End	14:30						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:00	0	225	23.21	0.00	7.75	0.32	5.09	0.46	12.9	48.6	Clear	Faint Odor
14:05	5	150	23.21	0.30	7.75	3.17	3.57	0.32	12.9	47.5	Clear	Faint Odor
14:10	5	175	23.21	0.50	7.76	0.32	1.73	0.36	13.0	46.4	Clear	Faint Odor
14:15	5	175	23.21	0.73	7.81	0.32	0.40	0.44	13.2	44.2	Clear	Faint Odor
14:20	5	175	23.21	0.96	7.82	0.32	3.95	0.36	13.0	45.4	Clear	Faint Odor
14:25	5	175	23.21	1.19	7.84	0.32	1.90	0.38	12.9	44.4	Clear	Faint Odor
14:30	5	150	23.21	1.42	7.87	0.32	0.02	0.36	12.8	43.2	Clear	Faint Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	Parking area near lamp post	Well Locked at Arrival:	n/a
Condition of Well:	Broken thread tabs	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-15-60D			Date	11-22-19
Project Name/Location			Ford LTP	Weather	35.06 degrees F, Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	93-98	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	21.15	Total Depth (ft-bmp)	99.89	Water Column (ft.)	78.74	Gallons in Well	12.79
		Pump Intake (ft-bmp)	94.40	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.15				
Sample Time: Label	11:45	Volume Purged	1.92 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	11:05						
Purge End	11:40						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:09	0	300	20.83	0.00	7.68	0.42	34.03	0.20	14.5	59.5	Clear	No Odor
11:14	5	300	20.70	0.40	7.85	0.39	33.20	0.12	14.5	55.6	Clear	No Odor
11:19	5	300	20.70	0.80	7.90	0.39	33.80	0.15	14.5	53.1	Clear	No Odor
11:24	5	300	20.70	1.20	7.91	0.38	34.20	0.08	14.5	51.5	Clear	No Odor
11:29	5	120	20.40	1.60	7.88	0.38	38.30	0.25	14.5	51.2	Clear	No Odor
11:34	5	120	20.38	1.76	7.93	0.38	37.00	0.19	14.4	46.3	Clear	No Odor
11:39	5	120	20.38	1.92	7.94	0.38	37.60	0.23	14.6	42.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Sunken sand pack

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Parking lot on corner of Levan and Plymouth	Well Locked at Arrival:	n/a
Condition of Well:	Fair	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-15-61D
Date 11-23-19
Project Name/Location Ford LTP
Weather 26.96 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 88-93
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 30.26
Total Depth (ft-bmp) 92.90
Water Column (ft.) 62.64
Gallons in Well 10.18
Pump Intake (ft-bmp) 90.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.29
Sample Time: Label 11:25
Volume Purged 2.92 gallons
Replicate/Code No. --
Sampled by Julia McClafferty
Purge Start 10:23
Purge End 11:25

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:24	0	175	30.55	0.00	7.32	0.76	40.30	2.08	13.4	70.0	Clear, Small Black Particulates	No Odor
10:29	5	175	31.00	0.23	7.31	0.91	148.00	1.29	13.5	-12.3	Black, Cloudy	No Odor
10:34	5	100	32.20	0.46	7.49	1.22	128.00	0.26	13.2	-109.2	Black, Cloudy	No Odor
10:39	5	150	33.44	0.59	7.59	1.18	122.00	0.44	13.8	-121.4	Cloudy, Gray, Small Black Particulates	No Odor
10:44	5	160	34.65	0.79	7.62	1.03	76.30	0.52	13.6	-119.8	Cloudy	No Odor
10:49	5	100	35.60	1.00	7.58	0.94	103.00	0.49	13.1	-110.8	Cloudy	No Odor
10:54	5	250	36.70	1.13	7.53	0.87	41.70	0.56	13.6	-105.3	Clear	No Odor
10:59	5	350	38.17	1.46	7.47	0.82	39.50	0.52	13.5	-98.5	Brown, Clear	No Odor
11:04	5	130	40.07	1.92	7.47	0.79	30.20	0.50	13.8	-96.7	Clear	No Odor
11:09	5	160	41.95	2.09	7.45	0.76	23.30	0.41	14.2	-94.7	Clear	No Odor
11:14	5	350	42.92	2.30	7.42	0.75	29.30	0.35	13.6	-92.1	Clear	No Odor
11:19	5	120	45.00	2.76	7.43	0.75	21.40	0.36	13.7	-92.6	Clear	No Odor
11:24	5	110	45.35	2.92	7.39	0.74	26.10	0.35	13.4	-90.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Sunken sand pack

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.25" = 0.06* *1.5" = 0.09* *2" = 0.16* *2.5" = 0.26* *3" = 0.37* *3.5" = 0.50* *4" = 0.65* *6" = 1.47*

Well Information

Well Location: Across from parking lot D
Well Locked at Arrival: n/a
Condition of Well: Fair
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-18
Date 11-12-19
Project Name/Location Ford LTP
Weather 21.02 degrees F, Mostly Clear
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 13-18
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.18
Total Depth (ft-bmp) 17.83
Water Column (ft.) 10.65
Gallons in Well 1.73
Pump Intake (ft-bmp) 15.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.39
Sample Time: Label 12:50
Volume Purged 2.4 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 11:47
Purge End 12:48

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:48	0	150	7.18	0.00	7.84	59.48	51.50	4.16	14.9	64.8	Clear, Small Black Particulates	No Odor
11:53	5	150	7.18	0.20	7.77	61.80	43.80	3.28	15.4	36.4	Clear, Small Black Particulates	No Odor
11:58	5	150	7.18	0.40	7.79	62.20	36.90	2.70	15.5	14.5	Clear, Small Black Particulates	No Odor
12:03	5	150	7.18	0.60	7.80	63.90	34.30	2.23	15.4	0.4	Clear, Small Black Particulates	No Odor
12:08	5	150	7.18	0.80	7.84	65.30	27.90	1.76	15.1	-11.8	Clear, Small Black Particulates	No Odor
12:13	5	150	7.18	1.00	7.82	65.60	25.50	1.48	15.5	-19.7	Clear	No Odor
12:18	5	150	7.18	1.20	7.85	67.20	15.40	1.23	15.8	-33.4	Clear	No Odor
12:23	5	150	7.18	1.40	7.83	67.70	9.95	1.05	15.8	-41.6	Clear	No Odor
12:28	5	150	7.18	1.60	7.86	67.90	8.79	0.91	15.7	-49.5	Clear	No Odor
12:33	5	150	7.18	1.80	7.86	67.60	13.50	0.77	15.6	-57.6	Clear	No Odor
12:38	5	150	7.18	2.00	7.80	66.20	3.76	0.63	15.7	-62.8	Clear	No Odor
12:43	5	150	7.18	2.20	7.81	65.60	5.14	0.59	15.6	-68.5	Clear	No Odor
12:48	5	150	7.18	2.40	7.88	64.10	4.31	0.52	15.7	-77.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments
None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: S parking lot
Well Locked at Arrival: n/a
Condition of Well: Good,Missing bolts
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-19			Date	11-20-19
Project Name/Location			Ford LTP	Weather	41.00 degrees F, Haze		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.88	Total Depth (ft-bmp)	19.82	Water Column (ft.)	13.94	Gallons in Well	2.27
		Pump Intake (ft-bmp)	17.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.34				
Sample Time: Label	12:57	Volume Purged	0.78 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	12:25						
Purge End	12:55						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
12:25	0	100	6.00	0.00	7.06	12.64	0.70	0.90	15.7	-12.5	Clear	No Odor
12:30	5	100	6.00	0.13	7.02	12.45	0.02	0.43	15.4	-12.9	Clear	No Odor
12:35	5	100	6.00	0.26	7.07	11.99	0.02	0.33	15.6	-15.4	Clear	No Odor
12:40	5	100	6.00	0.39	7.07	11.86	0.02	0.35	15.6	-16.6	Clear	No Odor
12:45	5	100	6.00	0.52	7.07	11.82	0.02	0.37	15.8	-17.3	Clear	No Odor
12:50	5	100	6.00	0.65	7.06	11.83	0.02	0.40	15.8	-18.2	Clear	No Odor
12:55	5	100	6.00	0.78	7.07	11.85	0.02	0.34	15.7	-19.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Depart well at 1310

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location:	Kiddie corner of dock 23A	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-20
Date 11-12-19
Project Name/Location Ford LTP
Weather 17.96 degrees F, Partly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 13.5-18.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.35
Total Depth (ft-bmp) 14.98
Water Column (ft.) 8.63
Gallons in Well 1.40
Pump Intake (ft-bmp) 16.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.71

Sample Time: Label 11:14
Volume Purged 2.4 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 10:10
Purge End 11:11

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:11	0	150	6.35	0.00	8.14	6.61	7.40	2.16	13.8	187.1	Clear	No Odor
10:16	5	150	6.35	0.20	8.15	5.66	6.56	1.45	16.1	160.4	Clear	No Odor
10:21	5	150	6.35	0.40	8.25	4.46	5.20	0.65	15.7	143.3	Clear	No Odor
10:26	5	150	6.45	0.60	8.35	3.55	4.31	0.46	16.4	126.7	Clear	No Odor
10:31	5	150	6.50	0.80	8.43	2.92	3.56	0.36	16.8	107.0	Clear	No Odor
10:36	5	150	6.30	1.00	8.50	2.66	2.80	0.47	15.8	84.6	Clear	No Odor
10:41	5	150	6.45	1.20	8.52	2.45	2.10	0.30	16.5	49.2	Clear	No Odor
10:46	5	150	6.40	1.40	8.55	2.43	0.02	0.26	16.6	-8.2	Clear	No Odor
10:51	5	150	6.45	1.60	8.57	2.28	0.02	0.25	16.4	-48.5	Clear	No Odor
10:56	5	150	6.45	1.80	8.60	2.26	0.02	0.26	16.5	-84.5	Clear	No Odor
11:01	5	150	6.45	2.00	8.62	2.30	0.02	0.25	16.2	-107.9	Clear	No Odor
11:06	5	150	6.35	2.20	8.63	2.38	0.02	0.26	16.0	-123.9	Clear	No Odor
11:11	5	150	6.45	2.40	8.63	2.69	0.02	0.32	16.1	-133.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot ***1" = 0.04*** ***1.25" = 0.06*** ***1.5" = 0.09*** ***2" = 0.16*** ***2.5" = 0.26*** ***3" = 0.37*** ***3.5" = 0.50*** ***4" = 0.65*** ***6" = 1.47***

Well Information

Well Location: S Parking lot
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-21
Date 11-13-19
Project Name/Location Ford LTP
Weather 12.02 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 13.5-18.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.18
Total Depth (ft-bmp) 17.65
Water Column (ft.) 10.47
Gallons in Well 1.70
Pump Intake (ft-bmp) 16.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.82
Sample Time: Label 10:08
Volume Purged 1.4 gallons
Replicate/Code No. DUP-13
Sampled by Xenia Chan
Purge Start 9:27
Purge End 10:05

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:29	0	150	7.18	0.00	6.80	11.83	15.20	6.93	14.9	670.0	Clear	No Odor
9:34	5	150	7.20	0.20	6.82	11.92	4.27	0.46	15.3	-1.0	Clear	No Odor
9:39	5	150	7.20	0.40	6.80	11.65	3.79	0.30	15.8	-31.0	Clear	No Odor
9:44	5	150	7.20	0.60	6.82	11.72	1.90	0.28	14.4	-53.4	Clear	No Odor
9:49	5	150	7.20	0.80	6.83	11.57	2.00	0.20	15.4	-58.7	Clear	No Odor
9:54	5	150	7.20	1.00	6.89	11.55	1.96	0.21	15.2	-67.1	Clear	No Odor
9:59	5	150	7.20	1.20	6.86	11.51	1.60	0.18	15.2	-69.5	Clear	No Odor
10:04	5	150	7.20	1.40	6.85	11.39	1.81	0.19	15.2	-71.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	6	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	6	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: S parking lot
Well Locked at Arrival: n/a
Condition of Well: Broken thread tabs,Fair,Missing bolts
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00001	Well ID	MW-22			Date	11-12-19
Project Name/Location	Ford LTP			Weather	23.00 degrees F, Partly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16.5-20.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.65	Total Depth (ft-bmp)	20.46	Water Column (ft.)	12.81	Gallons in Well	2.08
		Pump Intake (ft-bmp)	18.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.87				
Sample Time: Label	14:43	Volume Purged	1.8 gallons	Replicate/Code No.	--	Sampled by	Xenia Chan
Purge Start	13:53						
Purge End	14:40						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:54	0	150	7.65	0.00	8.13	9.90	13.80	1.73	15.2	24.3	Clear	No Odor
13:59	5	150	7.55	0.20	8.05	10.99	10.20	0.43	15.0	-37.3	Clear	No Odor
14:04	5	150	7.55	0.40	8.05	11.85	3.84	0.27	14.4	-85.8	Clear	No Odor
14:09	5	150	7.55	0.60	8.07	11.83	2.13	0.22	14.1	-108.5	Clear	No Odor
14:14	5	150	7.55	0.80	8.04	11.60	1.95	0.19	14.0	-119.7	Clear	No Odor
14:19	5	150	7.55	1.00	8.06	11.26	1.64	0.17	14.0	-127.3	Clear	No Odor
14:24	5	150	7.55	1.20	8.10	9.93	3.31	0.15	14.2	-133.6	Clear	No Odor
14:29	5	150	7.55	1.40	8.13	9.36	3.05	0.14	14.0	-138.8	Clear	No Odor
14:34	5	150	7.55	1.60	8.12	9.16	3.55	0.13	14.2	-142.5	Clear	No Odor
14:39	5	150	7.55	1.80	8.12	9.11	3.54	0.21	14.3	-144.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Inside test track	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00001
Well ID MW-23
Date 11-11-19
Project Name/Location Ford LTP
Weather 30.02 degrees F, Snow and Fog
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 15-20
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.51
Total Depth (ft-bmp) 19.69
Water Column (ft.) 13.18
Gallons in Well 2.14
Pump Intake (ft-bmp) 17.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.93
Sample Time: Label 14:56
Volume Purged 2 gallons
Replicate/Code No. DUP-09
Sampled by Xenia Chan
Purge Start 13:58
Purge End 14:54

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:03	0	150	6.54	0.00	8.06	3.47	40.00	1.95	15.1	8.9	Clear, Small Brown Particulates	No Odor
14:08	5	150	6.51	0.20	7.41	4.89	40.00	0.93	15.2	3.8	Clear, Small Brown Particulates	No Odor
14:13	5	150	6.50	0.40	7.24	5.55	4.10	0.62	15.2	-6.1	Clear	No Odor
14:18	5	150	6.50	0.60	7.20	5.83	0.02	0.41	15.3	-16.9	Clear	No Odor
14:23	5	150	6.50	0.80	7.18	6.04	0.02	0.31	15.2	-26.0	Clear	No Odor
14:28	5	150	6.50	1.00	7.16	6.17	0.02	0.27	15.2	-33.8	Clear	No Odor
14:33	5	150	6.50	1.20	7.17	6.32	0.02	0.22	15.4	-40.3	Clear	No Odor
14:38	5	150	6.50	1.40	7.14	6.42	0.02	0.19	15.4	-45.7	Clear	No Odor
14:43	5	150	6.50	1.60	7.13	6.60	0.02	0.18	15.4	-51.0	Clear	No Odor
14:48	5	150	6.50	1.80	7.13	6.70	0.02	0.15	15.2	-55.5	Clear	No Odor
14:53	5	150	6.50	2.00	7.16	6.70	0.02	0.14	15.4	-60.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	6	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	6	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Inside test track
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00001	Well ID	MW-24			Date	11-22-19
Project Name/Location			Ford LTP	Weather			35.06 degrees F, Cloudy
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	19-24	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.87	Total Depth (ft-bmp)	23.70	Water Column (ft.)	13.83	Gallons in Well	2.25
		Pump Intake (ft-bmp)	21.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.53				
Sample Time: Label	11:38	Volume Purged	1.2 gallons	Replicate/Code No.	DUP-12	Sampled by	Madison Olender
Purge Start	11:05						
Purge End	11:47						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:06	0	150	9.87	0.00	7.24	3.96	15.90	1.78	12.8	-89.9	Clear	No Odor
11:11	5	150	9.87	0.20	7.04	3.90	12.40	0.52	14.2	-93.7	Clear	No Odor
11:16	5	150	9.87	0.40	7.06	3.91	10.90	0.35	14.4	-97.1	Clear	No Odor
11:21	5	150	9.87	0.60	7.05	3.91	5.64	0.28	14.5	-98.8	Clear	No Odor
11:26	5	150	9.84	0.80	7.05	3.90	4.34	0.25	14.5	-100.1	Clear	No Odor
11:31	5	150	9.87	1.00	7.05	3.90	2.85	0.23	14.5	-101.1	Clear	No Odor
11:36	5	150	9.87	1.20	7.04	3.90	1.32	0.21	14.6	-101.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	6	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	6	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	S grass by Plymouth rd	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00001	Well ID	MW-25			Date	11-15-19
Project Name/Location	Ford LTP			Weather	26.96 degrees F, Haze		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.85	Total Depth (ft-bmp)	20.50	Water Column (ft.)	14.65	Gallons in Well	2.38
		Pump Intake (ft-bmp)	18.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.84				
Sample Time: Label	9:56	Volume Purged	2 gallons	Replicate/Code No.	--	Sampled by	Xenia Chan
Purge Start	9:03						
Purge End	9:54						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:03	0	150	5.85	0.00	7.51	4.27	15.70	1.40	17.4	222.4	Clear	No Odor
9:08	5	150	5.91	0.20	7.27	5.34	16.10	0.89	17.6	105.9	Clear	No Odor
9:13	5	150	5.91	0.40	7.30	5.61	8.73	0.28	17.8	-31.2	Clear	No Odor
9:18	5	150	5.92	0.60	7.31	5.63	5.35	0.22	17.8	-97.4	Clear	No Odor
9:23	5	150	5.92	0.80	7.34	5.70	4.08	0.20	17.8	-151.4	Clear	No Odor
9:28	5	150	5.95	1.00	7.35	5.73	4.89	0.16	17.7	-180.0	Clear	No Odor
9:33	5	150	5.95	1.20	7.33	5.77	4.10	0.16	17.9	-197.3	Clear	No Odor
9:38	5	150	5.97	1.40	7.33	5.79	2.31	0.14	17.8	-208.8	Clear	No Odor
9:43	5	150	5.98	1.60	7.34	5.80	2.40	0.24	17.7	-216.7	Clear	No Odor
9:48	5	150	5.95	1.80	7.35	5.82	1.56	0.49	17.7	-222.0	Clear	No Odor
9:53	5	150	5.95	2.00	7.32	5.84	0.51	0.32	17.8	-225.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04* *1.25" = 0.06*	*1.5" = 0.09* *2" = 0.16*	*2.5" = 0.26* *3" = 0.37*	*3.5" = 0.50* *4" = 0.65*	*6" = 1.47*

Well Information

Well Location:	W parking lot	Well Locked at Arrival:	n/a
Condition of Well:	Fair,Missing bolts,Vault broken	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00001
Well ID MW-26
Date 11-15-19
Project Name/Location Ford LTP
Weather 28.94 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 4.5-14.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.50
Total Depth (ft-bmp) 14.05
Water Column (ft.) 8.55
Gallons in Well 1.39
Pump Intake (ft-bmp) 9.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.56
Sample Time: Label 11:22
Volume Purged 0.78 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 10:50
Purge End 11:20

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:50	0	100	5.50	0.00	7.45	7.73	0.02	1.68	12.0	95.8	Clear	No Odor
10:55	5	100	5.50	0.13	7.45	7.76	1.12	0.92	12.4	91.9	Clear	No Odor
11:00	5	100	5.50	0.26	7.42	7.92	0.02	0.77	12.5	89.0	Small Black Particulates	Faint Odor
11:05	5	100	5.50	0.39	7.41	7.91	0.02	0.68	12.7	88.2	Small Black Particulates	Faint Odor
11:10	5	100	5.50	0.52	7.40	7.91	0.02	0.48	12.9	87.5	Small Black Particulates	Faint Odor
11:15	5	100	5.50	0.65	7.40	7.91	0.02	0.52	13.2	86.9	Small Black Particulates	Faint Odor
11:20	5	100	5.50	0.78	7.38	7.93	0.02	0.52	13.0	87.2	Small Black Particulates	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Corner E of point 10
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-28
Date 11-14-19
Project Name/Location Ford LTP
Weather 32.00 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-12
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 3.97
Total Depth (ft-bmp) 11.68
Water Column (ft.) 7.71
Gallons in Well 1.25
Pump Intake (ft-bmp) 7.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.73
Sample Time: Label 14:27
Volume Purged 0.91 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 13:50
Purge End 14:25

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:50	0	100	4.00	0.00	7.69	16.87	0.02	3.53	13.0	125.3	Clear	No Odor
13:55	5	100	4.00	0.13	7.67	17.48	0.02	2.72	13.1	123.0	Clear	No Odor
14:00	5	100	4.00	0.26	7.65	17.67	0.02	1.83	13.3	118.7	Clear	No Odor
14:05	5	100	4.00	0.39	7.64	17.65	0.02	1.79	13.7	117.8	Clear	No Odor
14:10	5	100	4.00	0.52	7.63	17.63	0.02	1.74	14.1	117.2	Clear	No Odor
14:15	5	100	4.00	0.65	7.61	17.48	0.02	1.55	14.0	117.2	Clear	No Odor
14:20	5	100	4.00	0.78	7.59	17.18	0.02	1.53	14.1	116.7	Clear	No Odor
14:25	5	100	4.00	0.91	7.58	17.05	0.02	1.47	13.9	116.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Near E handicap spot
Well Locked at Arrival: n/a
Condition of Well: Broken thread tabs,Fair
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-29
Date 11-20-19
Project Name/Location Ford LTP
Weather 42.98 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 5-15
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.10
Total Depth (ft-bmp) 14.96
Water Column (ft.) 9.86
Gallons in Well 1.60
Pump Intake (ft-bmp) 10.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.51
Sample Time: Label 14:17
Volume Purged 0.81 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 13:45
Purge End 14:16

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:45	0	100	5.17	0.00	7.40	10.08	0.02	0.43	15.0	-12.8	Clear	No Odor
13:50	5	100	5.17	0.13	7.40	10.29	0.02	0.24	14.8	-11.1	Clear	No Odor
13:55	5	100	5.17	0.26	7.40	10.34	0.02	0.17	14.6	-16.6	Clear	No Odor
14:00	5	100	5.17	0.39	7.40	10.13	0.02	0.13	14.6	-19.1	Clear	No Odor
14:05	5	100	5.17	0.52	7.35	9.73	0.02	0.14	14.2	-21.8	Clear	No Odor
14:10	5	100	5.17	0.65	7.33	9.38	0.02	0.10	14.2	-22.8	Clear	No Odor
14:13	3	100	5.17	0.73	7.32	9.34	0.02	0.12	14.2	-23.3	Clear	No Odor
14:16	3	100	5.17	0.81	7.32	9.33	0.02	0.11	14.2	-23.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Depart well at 1430

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: By man door near North Dock general receiving
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-30
Date 11-23-19
Project Name/Location Ford LTP
Weather 24.08 degrees F, Partly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 19-24
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 9.66
Total Depth (ft-bmp) 24.71
Water Column (ft.) 15.05
Gallons in Well 2.45
Pump Intake (ft-bmp) 21.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.92
Sample Time: Label 10:35
Volume Purged 2.26 gallons
Replicate/Code No. MW-30-MS_112319 and MW-30-MSD_112319
Sampled by Mary-Catherine Goddard
Purge Start 9:28
Purge End 10:35

Mary-Catherine

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:29	0	140	10.14	0.00	7.75	6.03	18.90	1.55	13.6	16.8	Clear, Small Orange Particulates	No Odor
9:35	6	140	10.38	0.22	7.67	6.19	17.00	0.72	14.2	-3.4	Clear, Small Orange Particulates	No Odor
9:40	5	140	10.47	0.40	7.67	6.22	15.20	0.52	14.4	-19.9	Clear, Small Orange Particulates	No Odor
9:45	5	140	10.51	0.58	7.67	6.17	19.40	0.86	14.5	-36.4	Clear, Small Orange Particulates	No Odor
9:50	5	140	10.51	0.76	7.69	6.13	17.70	0.65	14.4	-51.6	Clear, Small Orange Particulates	No Odor
9:55	5	140	10.48	0.94	7.70	6.06	35.90	0.74	14.2	-64.0	Clear, Small Orange Particulates	No Odor
10:00	5	140	10.51	1.12	7.70	6.01	31.80	0.36	14.4	-75.5	Clear, Small Orange Particulates	No Odor
10:03	3	140	10.51	1.23	7.71	6.01	33.20	0.33	14.3	-79.5	Clear, Small Orange Particulates	No Odor
10:06	3	140	10.56	1.34	7.71	5.98	18.20	0.27	14.6	-85.1	Clear, Small Orange Particulates	No Odor
10:10	4	140	10.57	1.49	7.72	5.95	26.10	0.25	14.6	-90.2	Clear, Small Orange Particulates	No Odor
10:13	3	140	10.57	1.60	7.72	5.94	29.70	0.25	14.6	-93.8	Clear, Small Orange Particulates	No Odor
10:16	3	140	10.57	1.71	7.72	5.93	4.54	0.26	14.5	-97.7	Clear, Small Orange Particulates	No Odor
10:19	3	140	10.58	1.82	7.72	5.93	11.00	0.27	14.5	-100.4	Clear, Small Orange Particulates	No Odor
10:22	3	140	10.58	1.93	7.73	5.92	3.10	0.24	14.6	-102.9	Clear, Small Orange Particulates	No Odor
10:25	3	140	10.58	2.04	7.73	5.90	4.10	0.27	14.6	-105.1	Clear, Small Orange Particulates	No Odor
10:28	3	140	10.58	2.15	7.73	5.89	5.79	0.26	14.8	-107.4	Clear, Small Orange Particulates	No Odor
10:31	3	140	10.58	2.26	7.73	5.89	6.41	0.22	14.7	-109.1	Clear, Small Orange Particulates	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	9	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	9	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: By Speed Limit 25 sign across from ATNPC
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-31			Date	11-23-19
Project Name/Location			Ford LTP	Weather	26.96 degrees F, Fog/Mist		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	17-22	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.83	Total Depth (ft-bmp)	21.73	Water Column (ft.)	11.90	Gallons in Well	1.93
		Pump Intake (ft-bmp)	19.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.91				
Sample Time: Label	12:00	Volume Purged	1.76 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	11:08						
Purge End	12:05						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:10	0	150	10.01	0.00	3.16	16.14	3.33	0.18	15.0	206.8	Clear	No Odor
11:15	5	150	9.98	0.20	6.12	16.03	1.85	0.19	15.2	322.5	Clear	No Odor
11:20	5	150	9.97	0.40	7.17	16.19	1.32	0.28	15.6	-89.4	Clear	No Odor
11:25	5	150	9.97	0.60	6.93	16.09	1.42	0.16	15.6	-102.7	Clear	No Odor
11:30	5	150	9.97	0.80	6.96	15.96	0.01	0.13	15.8	-119.2	Clear	No Odor
11:35	5	150	9.97	1.00	7.16	15.79	0.02	0.13	15.4	-140.9	Clear	No Odor
11:38	3	150	9.97	1.12	7.18	15.75	0.02	0.11	15.4	-147.3	Clear	No Odor
11:41	3	150	9.97	1.24	7.51	15.74	0.07	0.11	15.3	-164.1	Clear	No Odor
11:45	4	150	9.96	1.40	7.26	15.83	0.02	0.11	15.5	-156.2	Clear	No Odor
11:48	3	150	9.96	1.52	7.15	15.92	0.02	0.17	15.4	-157.0	Clear	No Odor
11:51	3	150	9.96	1.64	7.14	16.01	0.02	0.13	15.5	-156.7	Clear	No Odor
11:54	3	150	9.96	1.76	7.15	16.06	0.02	0.11	15.4	-158.4	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Entrance to gate 1	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-32
Date 11-14-19
Project Name/Location Ford LTP
Weather 32.00 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 18-23
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 9.76
Total Depth (ft-bmp) 22.84
Water Column (ft.) 13.08
Gallons in Well 2.13
Pump Intake (ft-bmp) 20.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.56
Sample Time: Label 15:19
Volume Purged 1.2 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 14:44
Purge End 15:17

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:44	0	150	9.76	0.00	8.28	3.22	21.20	2.09	11.8	-189.6	Clear	No Odor
14:49	5	150	9.70	0.20	7.44	3.34	18.40	0.39	13.4	-194.2	Clear	No Odor
14:54	5	150	9.75	0.40	7.34	3.38	10.40	0.26	13.4	-210.6	Clear	No Odor
14:59	5	150	9.75	0.60	7.31	3.41	5.09	0.18	13.5	-221.4	Clear	No Odor
15:04	5	150	9.75	0.80	7.30	3.43	4.51	0.15	13.4	-228.1	Clear	No Odor
15:09	5	150	9.75	1.00	7.29	3.46	4.98	0.15	13.3	-231.9	Clear	No Odor
15:14	5	150	9.75	1.20	7.28	3.48	4.98	0.15	13.3	-234.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: SE lawn
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-33
Date 11-8-19
Project Name/Location Ford LTP
Weather 30.92 degrees F, Mostly Clear
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 14-19
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 8.08
Total Depth (ft-bmp) 18.71
Water Column (ft.) 10.63
Gallons in Well 1.73
Pump Intake (ft-bmp) 16.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.81
Sample Time: Label 12:00
Volume Purged 1.4 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 11:22
Purge End 11:57

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:22	0	150	8.06	0.00	7.78	2.95	7.89	2.16	13.8	138.1	Clear	No Odor
11:27	5	150	8.06	0.20	7.16	3.92	6.56	0.53	14.6	9.8	Clear	No Odor
11:32	5	150	8.06	0.40	7.14	4.04	3.02	0.32	14.8	-41.0	Clear	No Odor
11:37	5	150	8.06	0.60	7.14	4.20	0.02	0.21	14.9	-71.5	Clear	No Odor
11:42	5	150	8.06	0.80	7.13	4.36	0.02	0.19	14.9	-79.2	Clear	No Odor
11:47	5	150	8.06	1.00	7.14	4.31	0.02	0.16	14.9	-86.1	Clear	No Odor
11:52	5	150	8.06	1.20	7.14	4.32	0.02	0.16	15.0	-89.5	Clear	No Odor
11:57	5	150	8.06	1.40	7.14	4.30	0.02	0.15	15.0	-92.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Next to Gate 2 sign
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-34			Date	11-23-19
Project Name/Location			Ford LTP	Weather			26.96 degrees F, Fog/Mist
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16.5-21.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.26	Total Depth (ft-bmp)	21.30	Water Column (ft.)	12.04	Gallons in Well	1.96
		Pump Intake (ft-bmp)	19.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.80				
Sample Time: Label	13:30	Volume Purged	1.56 gallons	Replicate/Code No.	MW-34-MS/MSD_112319	Sampled by	Shantel Johnson
Purge Start	12:44						
Purge End	13:40						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:45	0	150	9.93	0.00	6.31	9.29	5.33	1.28	15.4	656.3	Clear	No Odor
12:50	5	150	10.21	0.20	3.57	9.27	4.42	0.39	15.4	734.8	Clear	No Odor
12:55	5	150	10.27	0.40	5.08	9.23	3.20	1.41	15.5	685.3	Clear	No Odor
13:00	5	150	10.16	0.60	7.01	9.06	3.35	0.31	15.3	-92.6	Clear	No Odor
13:05	5	150	10.12	0.80	7.16	8.94	2.99	0.25	15.1	-133.8	Clear	No Odor
13:10	5	150	10.05	1.00	7.20	8.83	2.22	0.26	15.1	-156.5	Clear	No Odor
13:15	5	150	10.03	1.20	7.18	8.76	1.81	0.23	15.2	-166.6	Clear	No Odor
13:18	3	150	10.03	1.32	7.18	8.70	0.70	0.19	15.3	-173.6	Clear	No Odor
13:21	3	150	10.03	1.44	7.20	8.59	0.49	0.19	15.6	-177.1	Clear	No Odor
13:24	3	150	10.03	1.56	7.20	8.51	0.41	0.16	15.6	-182.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	9	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	9	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	Entrance to gate 1	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-35
Date 11-23-19
Project Name/Location Ford LTP
Weather 35.06 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 19.5-24.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 8.18
Total Depth (ft-bmp) 24.29
Water Column (ft.) 16.11
Gallons in Well 2.62
Pump Intake (ft-bmp) 22.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.89
Sample Time: Label 14:32
Volume Purged 2.33 gallons
Replicate/Code No. --
Sampled by Julia McClafferty
Purge Start 13:30
Purge End 14:32

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:31	0	100	8.57	0.00	8.00	1.93	33.20	0.79	15.2	-101.5	Cloudy	No Odor
13:36	5	150	8.93	0.13	7.62	1.96	44.50	0.46	14.9	-114.8	Cloudy	No Odor
13:41	5	150	9.00	0.33	7.54	1.97	81.10	0.32	15.0	-119.4	Cloudy	No Odor
13:46	5	150	9.00	0.53	7.55	2.02	88.70	0.52	14.8	-129.4	Cloudy	No Odor
13:51	5	150	9.00	0.73	7.55	2.01	75.80	0.24	15.0	-132.9	Cloudy	No Odor
13:56	5	150	9.00	0.93	7.98	0.44	48.30	0.15	15.0	-137.5	Cloudy	No Odor
14:01	5	150	9.05	1.13	7.55	1.98	38.80	0.60	15.0	-137.8	Cloudy	No Odor
14:06	5	150	9.10	1.33	7.54	1.97	49.30	0.53	15.0	-137.4	Clear	No Odor
14:11	5	150	9.10	1.53	7.54	1.97	34.70	0.52	14.8	-138.5	Clear	No Odor
14:16	5	150	9.09	1.73	7.50	1.96	26.90	0.50	15.1	-141.4	Clear	No Odor
14:21	5	150	9.09	1.93	7.55	1.95	26.70	0.49	15.0	-141.7	Clear, Small White Particulates	No Odor
14:26	5	150	9.09	2.13	7.56	1.95	21.00	0.34	15.0	-142.6	Clear, Small White Particulates	No Odor
14:31	5	150	9.00	2.33	7.56	1.94	18.50	0.19	15.1	-143.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Across from parking lot D
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-36			Date	11-21-19
Project Name/Location			Ford LTP	Weather			39.92 degrees F, Haze
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	20-25	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.45	Total Depth (ft-bmp)	24.22	Water Column (ft.)	14.77	Gallons in Well	2.40
		Pump Intake (ft-bmp)	22.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.48				
Sample Time: Label	10:12	Volume Purged	1.16 gallons	Replicate/Code No.	MW-36-MS_112119 and MW-36-MSD_112119	Sampled by	Madison Olender
Purge Start	9:39						
Purge End	10:26						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:40	0	150	9.45	0.00	7.27	11.13	6.87	1.13	13.9	-14.6	Clear	No Odor
9:45	5	120	9.45	0.20	7.39	11.26	2.89	0.44	14.3	-95.0	Clear	No Odor
9:50	5	150	9.45	0.36	7.41	11.19	4.48	0.26	14.4	-112.8	Clear	No Odor
9:55	5	150	9.45	0.56	7.41	11.22	5.30	0.25	14.2	-118.5	Clear	No Odor
10:00	5	150	9.45	0.76	7.41	11.22	3.18	0.22	14.2	-122.0	Clear	No Odor
10:05	5	150	9.45	0.96	7.41	11.21	3.47	0.20	14.3	-124.6	Clear	No Odor
10:10	5	150	9.45	1.16	7.41	11.34	2.14	0.17	14.3	-126.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	S grass	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-37
Date 11-14-19
Project Name/Location Ford LTP
Weather 32.00 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 18-23
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.79
Total Depth (ft-bmp) 22.69
Water Column (ft.) 14.90
Gallons in Well 2.42
Pump Intake (ft-bmp) 20.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.58
Sample Time: Label 14:03
Volume Purged 1.4 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 13:22
Purge End 14:01

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:25	0	150	7.79	0.00	8.01	1.61	15.20	1.89	13.9	4.4	Clear	No Odor
13:30	5	150	7.79	0.20	7.76	1.65	12.30	0.35	14.4	-114.2	Clear	No Odor
13:35	5	150	7.79	0.40	7.68	1.67	9.86	0.28	14.5	-202.9	Clear	No Odor
13:40	5	150	7.80	0.60	7.63	1.63	6.68	0.32	14.5	-230.9	Clear	No Odor
13:45	5	150	7.80	0.80	7.59	1.58	4.34	0.24	14.6	-242.1	Clear	No Odor
13:50	5	150	7.80	1.00	7.56	1.54	3.51	0.23	14.6	-248.6	Clear	No Odor
13:55	5	150	7.80	1.20	7.55	1.52	1.49	0.20	14.6	-251.1	Clear	No Odor
14:00	5	150	7.80	1.40	7.53	1.50	3.25	0.30	14.6	-251.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Missing 2 bolts

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: S lawn
Well Locked at Arrival: n/a
Condition of Well: Good,Missing bolts
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-38			Date	11-8-19
Project Name/Location	Ford LTP			Weather	37.04 degrees F, Partly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.20	Total Depth (ft-bmp)	19.51	Water Column (ft.)	11.31	Gallons in Well	1.84
		Pump Intake (ft-bmp)	17.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.76				
Sample Time: Label	13:43	Volume Purged	1.4 gallons	Replicate/Code No.	--	Sampled by	Xenia Chan
Purge Start	13:04						
Purge End	13:41						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:05	0	150	8.20	0.00	8.00	2.36	0.02	1.65	15.1	112.1	Clear	No Odor
13:10	5	150	8.15	0.20	7.68	2.28	0.02	0.38	15.4	-121.5	Clear	No Odor
13:15	5	150	8.18	0.40	7.61	2.27	0.02	0.25	15.4	-149.8	Clear	No Odor
13:20	5	150	8.14	0.60	7.57	2.26	0.02	0.24	15.2	-157.2	Clear	No Odor
13:25	5	150	7.98	0.80	7.60	2.25	0.02	0.19	14.8	-161.5	Clear	No Odor
13:30	5	150	8.18	1.00	7.58	2.22	0.02	0.18	15.3	-162.8	Clear	No Odor
13:35	5	150	8.15	1.20	7.54	2.23	0.02	0.15	15.4	-163.5	Clear	No Odor
13:40	5	150	8.15	1.40	7.54	2.21	0.02	0.13	15.4	-163.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Lawn next to Plymouth	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-39
Date 11-8-19
Project Name/Location Ford LTP
Weather 30.92 degrees F, Mostly Clear
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 19.5-24.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 10.75
Total Depth (ft-bmp) 24.18
Water Column (ft.) 13.43
Gallons in Well 2.18
Pump Intake (ft-bmp) 22.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.55

Sample Time: Label 10:40
Volume Purged 1.2 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 10:04
Purge End 10:37

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:06	0	150	10.74	0.00	7.81	2.39	8.00	1.30	15.1	106.3	Clear	No Odor
10:11	5	150	10.75	0.20	7.29	2.63	0.02	0.39	15.6	94.8	Clear	No Odor
10:16	5	150	10.75	0.40	7.25	2.78	0.02	0.31	15.3	83.9	Clear	No Odor
10:21	5	150	10.75	0.60	7.24	2.84	0.02	0.27	15.4	75.8	Clear	No Odor
10:26	5	150	10.75	0.80	7.23	2.89	0.02	0.23	15.4	69.2	Clear	No Odor
10:31	5	150	10.75	1.00	7.23	2.89	0.02	0.17	15.7	63.3	Clear	No Odor
10:36	5	150	10.75	1.20	7.23	2.87	0.02	0.17	15.8	59.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.5" = 0.09* *2.5" = 0.26* *3.5" = 0.50* *6" = 1.47*
1.25" = 0.06 *2" = 0.16* *3" = 0.37* *4" = 0.65*

Well Information

Well Location:	Lawn west of Ford sign	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-40
Date 11-23-19
Project Name/Location Ford LTP
Weather 26.96 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 15-20
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 9.64
Total Depth (ft-bmp) 19.71
Water Column (ft.) 10.07
Gallons in Well 1.64
Pump Intake (ft-bmp) 17.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.02

Sample Time: Label 10:35
Volume Purged 1.68 gallons
Replicate/Code No. --
Sampled by Shantel Johnson
Purge Start 9:47
Purge End 10:40

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:50	0	150	9.73	0.00	6.46	14.65	13.80	2.15	15.1	185.4	Clear	No Odor
9:55	5	150	9.74	0.20	6.77	18.15	4.24	0.65	15.5	167.2	Clear	No Odor
10:00	5	150	9.73	0.40	6.92	18.71	3.38	0.29	15.1	107.7	Clear	No Odor
10:05	5	150	9.73	0.60	6.95	18.78	3.08	0.24	15.0	69.4	Clear	No Odor
10:10	5	150	9.73	0.80	7.00	18.85	2.12	0.20	15.1	-2.3	Clear	No Odor
10:14	4	150	9.73	0.96	7.02	18.85	1.93	0.18	15.1	-28.2	Clear	No Odor
10:17	3	150	9.73	1.08	7.03	18.84	1.48	0.17	15.2	-46.3	Clear	No Odor
10:20	3	150	9.73	1.20	7.06	18.84	1.71	0.15	15.4	-60.4	Clear	No Odor
10:23	3	150	9.73	1.32	7.07	18.82	1.56	0.14	15.4	-76.4	Clear	No Odor
10:26	3	150	9.73	1.44	7.08	18.84	1.41	0.16	15.3	-96.8	Clear	No Odor
10:29	3	150	9.73	1.56	7.08	18.85	1.33	0.14	15.4	-104.3	Clear	No Odor
10:32	3	150	9.73	1.68	7.09	18.88	1.20	0.13	15.4	-105.4	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Entrance to gate 1
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-41
Date 11-23-19
Project Name/Location Ford LTP
Weather 30.92 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 16-21
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 9.14
Total Depth (ft-bmp) 20.95
Water Column (ft.) 11.81
Gallons in Well 1.92
Pump Intake (ft-bmp) 18.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.79
Sample Time: Label 12:10
Volume Purged 1.51 gallons
Replicate/Code No. MW-41-MS_112319 and MW-41-MSD_112319
Sampled by Mary-Catherine Goddard
Purge Start 11:26
Purge End 12:10

Mary-Catherine Goddard

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:26	0	130	9.36	0.00	8.14	11.34	0.02	1.45	13.3	-76.0	Clear, Small White Particulates	No Odor
11:31	5	140	9.31	0.17	8.14	11.34	0.02	1.45	13.3	-76.0	Clear, Small White Particulates	No Odor
11:36	5	140	9.32	0.35	8.14	11.34	0.02	1.45	13.3	-76.0	Clear, Small White Particulates	No Odor
11:41	5	140	9.32	0.53	8.14	11.34	0.02	1.45	13.3	-76.0	Clear, Small White Particulates	No Odor
11:46	5	140	9.33	0.71	8.14	11.34	0.02	1.45	13.3	-76.0	Clear, Small White Particulates	No Odor
11:51	5	140	9.33	0.89	8.14	11.34	0.02	1.45	13.3	-76.0	Clear, Small Orange Particulates, Small White Particulates	No Odor
11:56	5	140	9.33	1.07	8.14	11.34	0.02	1.45	13.3	-76.0	Clear, Small Orange Particulates, Small White Particulates	No Odor
12:01	5	140	9.33	1.25	7.65	11.83	0.02	0.24	15.1	-96.4	Clear, Small Orange Particulates, Small White Particulates	No Odor
12:04	3	140	9.33	1.36	7.65	11.83	0.02	0.21	15.1	-96.7	Clear, Small Orange Particulates, Small White Particulates	No Odor
12:08	4	140	9.33	1.51	7.65	11.87	0.02	0.21	14.9	-97.0	Clear, Small White Particulates	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	9	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	9	HCL

Comments

YSI was in hold mode for 30 min on accident. Ran additional measurements to stabilize parameters.

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Across from ATNPC
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-42			Date	11-23-19
Project Name/Location	Ford LTP			Weather	33.08 degrees F, Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.90	Total Depth (ft-bmp)	20.46	Water Column (ft.)	11.56	Gallons in Well	1.88
		Pump Intake (ft-bmp)	18.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.97				
Sample Time: Label	13:05	Volume Purged	1.83 gallons	Replicate/Code No.	--	Sampled by	Julia McClafferty
Purge Start	12:11						
Purge End	13:05						

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:13	0	100	9.05	0.00	7.17	6.84	9.19	0.86	14.4	-118.6	Clear, Small Black Particulates	Faint Odor
12:18	5	110	9.10	0.13	7.17	6.67	5.80	0.55	15.3	-119.1	Clear	Faint Odor
12:23	5	110	9.05	0.28	7.17	6.67	9.17	0.38	15.0	-119.4	Clear	No Odor
12:28	5	150	9.05	0.43	7.17	6.68	8.94	0.30	15.2	-119.3	Clear	No Odor
12:33	5	150	9.05	0.63	7.17	6.79	10.80	0.26	15.4	-120.2	Clear, Small Orange Particulates	No Odor
12:38	5	150	9.05	0.83	7.16	6.87	11.10	0.28	15.4	-120.5	Clear	No Odor
12:43	5	150	9.04	1.03	7.00	6.97	8.85	0.25	15.2	-120.6	Clear	No Odor
12:48	5	150	9.04	1.23	7.17	6.80	6.00	0.27	15.2	-120.8	Clear	No Odor
12:53	5	150	9.04	1.43	7.16	6.92	7.02	0.24	15.3	-121.4	Clear	No Odor
12:58	5	150	9.04	1.63	7.16	6.91	6.64	0.22	15.4	-121.5	Clear	No Odor
13:03	5	150	9.04	1.83	7.16	6.87	6.84	0.18	15.7	-122.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Across from parking lot D	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00001
Well ID MW-43
Date 11-23-19
Project Name/Location Ford LTP
Weather 24.08 degrees F, Partly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 17-22
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 8.03
Total Depth (ft-bmp) 21.78
Water Column (ft.) 13.75
Gallons in Well 2.23
Pump Intake (ft-bmp) 19.60
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.03
Sample Time: Label 10:40
Volume Purged 2.29 gallons
Replicate/Code No. MW-43-MS/MSD_112319
Sampled by Rachel Bielak
Purge Start 9:40
Purge End 10:52

Rachel Bielak

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:40	0	150	8.03	0.00	7.29	10.80	24.70	2.19	13.9	-25.5	Small Orange Particulates, Yellow	No Odor
9:45	5	175	8.23	0.20	7.30	10.92	10.90	1.42	14.6	-99.0	Clear	No Odor
9:50	5	150	8.23	0.43	7.35	10.85	10.40	1.32	14.8	-100.0	Clear, Small Orange Particulates	No Odor
9:55	5	150	8.22	0.63	7.36	10.63	9.95	1.39	14.4	-106.9	Clear, Small Orange Particulates	No Odor
10:00	5	150	8.22	0.83	7.37	10.23	11.80	1.24	14.3	-100.1	Clear, Small Orange Particulates	No Odor
10:05	5	125	8.21	1.03	7.37	10.08	8.82	1.19	14.4	-95.2	Clear, Small Orange Particulates	No Odor
10:10	5	150	8.20	1.20	7.37	10.17	9.04	1.29	14.2	-87.6	Clear, Small Orange Particulates	No Odor
10:13	3	150	8.20	1.32	7.37	10.13	8.98	1.27	14.3	-84.9	Clear, Small Orange Particulates	No Odor
10:16	3	150	8.20	1.44	7.37	10.21	5.21	1.19	14.2	-82.1	Clear, Small Orange Particulates	No Odor
10:19	3	150	8.20	1.56	7.36	10.18	9.07	1.15	14.4	-78.0	Clear, Small Orange Particulates	No Odor
10:22	3	150	8.21	1.68	7.37	10.25	5.60	1.10	14.3	-74.6	Clear, Small Orange Particulates	No Odor
10:25	3	125	8.21	1.80	7.37	10.29	5.26	1.14	14.1	-70.6	Clear, Small Orange Particulates	No Odor
10:28	3	125	8.21	1.90	7.37	10.28	5.86	0.27	14.2	-67.5	Clear, Small Orange Particulates	No Odor
10:32	4	125	8.21	2.03	7.36	10.27	8.28	0.21	14.5	-97.4	Clear, Small Orange Particulates	No Odor
10:36	4	125	8.21	2.16	7.36	10.30	5.25	0.27	14.9	-111.6	Clear, Small Orange Particulates	No Odor
10:40	4	125	8.21	2.29	7.37	10.35	6.12	0.16	14.9	-113.4	Clear, Small Orange Particulates	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	9	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	9	HCL

Comments

Noticed air bubble on DO meter at 10:28

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: E of ATNPC road
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-44
Date 11-12-19
Project Name/Location Ford LTP
Weather 24.98 degrees F, Mostly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 16-21
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 8.42
Total Depth (ft-bmp) 20.72
Water Column (ft.) 12.30
Gallons in Well 2.00
Pump Intake (ft-bmp) 18.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.60
Sample Time: Label 15:43
Volume Purged 1.2 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 15:09
Purge End 15:41

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:10	0	150	8.42	0.00	9.18	5.24	0.98	1.47	14.2	-13.3	Clear	No Odor
15:15	5	150	8.30	0.20	8.79	5.92	0.02	0.53	14.8	-77.9	Clear	No Odor
15:20	5	150	8.31	0.40	8.59	6.32	0.02	0.33	15.2	-134.0	Clear	No Odor
15:25	5	150	8.32	0.60	8.57	6.32	2.23	0.31	15.1	-157.7	Clear	No Odor
15:30	5	150	8.35	0.80	8.53	6.23	0.02	0.27	15.2	-166.8	Clear	No Odor
15:35	5	150	8.31	1.00	8.55	6.17	0.02	0.22	15.2	-174.2	Clear	No Odor
15:40	5	150	8.31	1.20	8.51	6.08	0.02	0.18	15.2	-176.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.25" = 0.06* *1.5" = 0.09* *2" = 0.16* *2.5" = 0.26* *3" = 0.37* *3.5" = 0.50* *4" = 0.65* *6" = 1.47*

Well Information

Well Location: Inside test track
Well Locked at Arrival: n/a
Condition of Well: Good,Missing bolts
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-45
Date 11-8-19
Project Name/Location Ford LTP
Weather 26.96 degrees F, Mostly Clear
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 15-20
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 10.35
Total Depth (ft-bmp) 19.69
Water Column (ft.) 9.34
Gallons in Well 1.52
Pump Intake (ft-bmp) 17.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.79

Sample Time: Label 9:34
Volume Purged 1.2 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 8:59
Purge End 9:30

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:00	0	150	10.41	0.00	7.19	2.52	4.37	2.12	16.0	126.7	Clear	No Odor
9:05	5	150	10.35	0.20	7.19	2.78	10.50	0.57	16.5	7.5	Clear	No Odor
9:10	5	150	10.35	0.40	7.12	2.76	4.92	0.38	16.9	-15.9	Clear	No Odor
9:15	5	150	10.35	0.60	7.17	2.77	0.02	0.35	16.8	-30.5	Clear	No Odor
9:20	5	150	10.35	0.80	7.18	2.77	0.02	0.30	16.8	-42.0	Clear	No Odor
9:25	5	150	10.35	1.00	7.19	2.75	0.02	0.28	16.5	-45.2	Clear	No Odor
9:30	5	150	10.35	1.20	7.19	2.78	0.02	0.23	16.9	-51.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: SE outside of test track
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-46
Date 11-7-19
Project Name/Location Ford LTP
Weather 33.08 degrees F, Mostly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 16-21
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 10.33
Total Depth (ft-bmp) 19.70
Water Column (ft.) 9.37
Gallons in Well 1.52
Pump Intake (ft-bmp) 18.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.18

Sample Time: Label 13:00
Volume Purged 1.8 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 12:08
Purge End 12:58

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:11	0	150	10.91	0.00	8.12	5.48	40.00	2.44	16.6	-110.1	Small Orange Particulates	No Odor
12:16	5	150	10.91	0.20	7.52	6.80	23.90	0.47	17.0	-123.0	Small Orange Particulates	No Odor
12:21	5	150	10.91	0.40	7.41	8.55	8.03	0.31	17.1	-112.2	Small Orange Particulates	No Odor
12:26	5	150	10.91	0.60	7.37	10.09	5.51	0.25	17.1	-102.3	Clear	No Odor
12:31	5	150	10.91	0.80	7.35	10.50	6.25	0.23	16.7	-93.3	Clear	No Odor
12:36	5	150	10.91	1.00	7.33	11.34	6.36	0.21	17.0	-90.5	Clear	No Odor
12:41	5	150	10.91	1.20	7.34	11.66	4.71	0.17	17.2	-87.3	Clear	No Odor
12:46	5	150	10.91	1.40	7.32	11.94	0.99	0.16	17.1	-84.5	Clear	No Odor
12:51	5	150	10.91	1.60	7.31	12.05	2.86	0.17	17.1	-85.1	Clear	No Odor
12:56	5	150	10.91	1.80	7.30	12.22	0.81	0.15	16.9	-84.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: SE outside test track in parking lot A
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-47
Date 11-6-19
Project Name/Location Ford LTP
Weather 37.04 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 16-21
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 10.15
Total Depth (ft-bmp) 19.97
Water Column (ft.) 9.82
Gallons in Well 1.60
Pump Intake (ft-bmp) 18.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.00
Sample Time: Label 13:26
Volume Purged 1.6 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 12:41
Purge End 13:22

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:42	0	150	10.32	0.00	8.35	6.04	39.70	5.69	16.7	151.0	Clear	No Odor
12:47	5	150	10.36	0.20	7.76	7.81	37.70	0.40	16.7	80.2	Clear	No Odor
12:52	5	150	10.25	0.40	7.73	7.87	12.30	0.30	17.7	34.4	Clear	No Odor
12:57	5	150	10.25	0.60	7.74	7.75	5.20	0.41	17.7	-30.3	Clear	No Odor
13:02	5	150	10.25	0.80	7.74	7.76	1.03	0.33	17.6	-59.8	Clear	No Odor
13:07	5	150	10.25	1.00	7.74	7.79	2.25	0.29	17.7	-76.5	Clear	No Odor
13:12	5	150	10.25	1.20	7.75	7.75	0.02	0.30	17.6	-86.6	Clear	No Odor
13:17	5	150	10.25	1.40	7.72	7.93	2.98	0.20	17.7	-89.9	Clear	No Odor
13:22	5	150	10.25	1.60	7.73	7.93	1.31	0.19	17.7	-93.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot ***1" = 0.04*** ***1.25" = 0.06*** ***1.5" = 0.09*** ***2" = 0.16*** ***2.5" = 0.26*** ***3" = 0.37*** ***3.5" = 0.50*** ***4" = 0.65*** ***6" = 1.47***

Well Information

Well Location: E of test track behind gate
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-48
Date 11-6-19
Project Name/Location Ford LTP
Weather 30.92 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 17-22
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 8.88
Total Depth (ft-bmp) 20.30
Water Column (ft.) 11.42
Gallons in Well 1.86
Pump Intake (ft-bmp) 19.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.29
Sample Time: Label 10:25
Volume Purged 2.4 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 9:18
Purge End 10:22

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:18	0	150	9.16	0.00	8.03	0.80	41.10	2.24	16.3	19.8	Small Black Particulates	No Odor
9:23	5	150	9.16	0.20	7.99	0.78	33.70	0.41	16.8	-102.1	Small Black Particulates	No Odor
9:28	5	150	9.18	0.40	8.03	0.77	20.80	0.24	17.0	-135.1	Small Black Particulates	No Odor
9:33	5	150	9.22	0.60	8.06	0.87	12.10	0.19	17.0	-145.0	Small Black Particulates	No Odor
9:38	5	150	9.22	0.80	8.07	1.08	8.67	0.17	17.0	-148.9	Small Black Particulates	No Odor
9:43	5	150	9.22	1.00	8.09	1.30	7.38	0.16	17.1	-152.0	Small Black Particulates	No Odor
9:48	5	150	9.24	1.20	8.09	1.50	7.08	0.15	17.1	-153.7	Small Black Particulates	No Odor
9:53	5	150	9.28	1.40	8.09	1.66	5.49	0.13	17.1	-153.6	Small Black Particulates	No Odor
9:58	5	150	9.26	1.60	8.09	1.79	0.08	0.10	17.0	-154.0	Small Black Particulates	No Odor
10:03	5	150	9.28	1.80	8.09	1.87	0.02	0.08	17.1	-153.5	Small Black Particulates	No Odor
10:08	5	150	9.29	2.00	8.10	1.91	0.02	0.09	17.1	-153.7	Small Black Particulates	No Odor
10:13	5	150	9.31	2.20	8.10	1.96	0.02	0.08	17.2	-153.6	Clear	No Odor
10:18	5	150	9.33	2.40	8.10	2.01	0.02	0.09	17.2	-153.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Missing 1 bolt

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: E outside test track next to row D parking
Well Locked at Arrival: n/a
Condition of Well: Good, Missing bolts
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-49
Date 11-13-19
Project Name/Location Ford LTP
Weather 21.02 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 12.5-17.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.55
Total Depth (ft-bmp) 17.17
Water Column (ft.) 10.62
Gallons in Well 1.73
Pump Intake (ft-bmp) 15.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.39
Sample Time: Label 15:32
Volume Purged 2.4 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 14:26
Purge End 15:30

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:29	0	150	6.65	0.00	4.74	14.22	79.80	0.32	15.2	376.6	Brown	No Odor
14:34	5	150	6.55	0.20	6.97	14.07	139.00	0.18	15.4	65.4	Brown, Cloudy	No Odor
14:39	5	150	6.55	0.40	7.13	14.06	121.00	0.26	15.4	31.3	Brown, Cloudy	No Odor
14:44	5	150	6.55	0.60	7.30	13.81	366.00	0.14	15.2	-6.4	Brown, Cloudy	No Odor
14:49	5	150	6.55	0.80	7.25	12.72	56.90	0.20	15.5	-36.9	Clear, Small Orange Particulates	No Odor
14:54	5	150	6.55	1.00	7.22	11.89	40.00	0.20	15.5	-44.8	Clear, Small Orange Particulates	No Odor
14:59	5	150	6.55	1.20	7.19	11.26	31.00	0.16	15.7	-49.0	Clear, Small Orange Particulates	No Odor
15:04	5	150	6.55	1.40	7.18	10.79	26.50	0.17	15.8	-51.8	Clear, Small Orange Particulates	No Odor
15:09	5	150	6.55	1.60	7.16	10.36	24.00	0.16	15.8	-54.7	Clear, Small Orange Particulates	No Odor
15:14	5	150	6.55	1.80	7.16	9.95	20.30	0.16	15.7	-56.8	Clear	No Odor
15:19	5	150	6.55	2.00	7.16	9.61	17.10	0.12	15.9	-57.5	Clear	No Odor
15:24	5	150	6.55	2.20	7.14	9.28	17.10	0.13	15.8	-57.1	Clear	No Odor
15:29	5	150	6.55	2.40	7.14	8.97	14.20	0.13	15.8	-56.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Missing 1 bolt

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: S parking lot
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID		MW-50		Date	11-5-19
Project Name/Location			Ford LTP	Weather	42.98 degrees F, Partly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.56	Total Depth (ft-bmp)	18.85	Water Column (ft.)	11.29	Gallons in Well	1.83
		Pump Intake (ft-bmp)	18.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.31				
Sample Time: Label	11:54	Volume Purged	2.4 gallons	Replicate/Code No.	--	Sampled by	Xenia Chan
Purge Start	10:49						
Purge End	11:52						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:52	0	150	7.91	0.00	8.75	0.32	15.90	1.66	15.0	-86.8	Clear, Small Brown Particulates	No Odor
10:57	5	150	7.75	0.20	7.84	0.63	9.08	0.51	15.8	-96.1	Clear, Small Brown Particulates	No Odor
11:02	5	150	7.84	0.40	7.68	0.97	5.28	0.48	15.8	-101.0	Clear, Small Brown Particulates	No Odor
11:07	5	150	7.82	0.60	7.54	1.38	0.02	0.36	15.8	-104.2	Clear, Small Black Particulates	No Odor
11:12	5	150	7.75	0.80	7.47	1.67	0.02	0.26	15.8	-108.6	Clear	No Odor
11:17	5	150	7.75	1.00	7.40	1.89	0.02	0.25	15.8	-113.1	Clear	No Odor
11:22	5	150	7.75	1.20	7.39	2.01	0.02	0.22	15.8	-116.2	Clear	No Odor
11:27	5	150	7.75	1.40	7.36	2.12	0.02	0.17	16.0	-117.4	Clear	No Odor
11:32	5	150	7.75	1.60	7.34	2.20	0.02	0.16	15.8	-117.2	Clear	No Odor
11:37	5	150	7.75	1.80	7.32	2.24	0.02	0.14	15.8	-116.6	Clear	No Odor
11:42	5	150	7.75	2.00	7.30	2.29	0.02	0.15	15.9	-115.9	Clear	No Odor
11:47	5	150	7.75	2.20	7.30	2.32	0.02	0.13	15.8	-114.9	Clear	No Odor
11:52	5	150	7.75	2.40	7.29	2.35	0.02	0.12	15.8	-114.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	E side of test track	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-51
Date 11-15-19
Project Name/Location Ford LTP
Weather 32.00 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 15-20
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.55
Total Depth (ft-bmp) 18.88
Water Column (ft.) 11.33
Gallons in Well 1.84
Pump Intake (ft-bmp) 17.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.20
Sample Time: Label 14:22
Volume Purged 2.2 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 13:25
Purge End 14:20

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Odor
13:25	0	150	7.55	0.00	8.53	1.34	0.55	1.63	13.5	-12.7	Clear	No Odor
13:30	5	150	7.48	0.20	8.16	1.24	2.37	1.41	13.5	-53.8	Clear	No Odor
13:35	5	150	7.50	0.40	7.94	1.17	3.45	1.55	13.6	-85.1	Clear	No Odor
13:40	5	150	7.50	0.60	7.83	1.12	1.55	1.23	13.3	-100.5	Clear	No Odor
13:45	5	150	7.50	0.80	7.76	1.03	1.04	0.54	13.9	-120.5	Clear	No Odor
13:50	5	150	7.50	1.00	7.74	1.00	2.19	0.43	13.9	-136.2	Clear	No Odor
13:55	5	150	7.50	1.20	7.72	0.97	0.02	0.31	13.8	-149.7	Clear	No Odor
14:00	5	150	7.50	1.40	7.70	0.95	1.06	0.27	13.9	-159.2	Clear	No Odor
14:05	5	150	7.50	1.60	7.70	0.95	1.08	0.28	13.8	-167.4	Clear	No Odor
14:10	5	150	7.50	1.80	7.70	0.95	1.04	0.26	13.5	-173.6	Clear	No Odor
14:15	5	150	7.50	2.00	7.69	0.94	0.02	0.27	13.8	-178.4	Clear	No Odor
14:20	5	150	7.50	2.20	7.68	0.93	0.02	0.24	13.8	-182.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Lawn area next to test track
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-52
Date 11-23-19
Project Name/Location Ford LTP
Weather 33.08 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 15-20
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 8.03
Total Depth (ft-bmp) 19.78
Water Column (ft.) 11.75
Gallons in Well 1.91
Pump Intake (ft-bmp) 17.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.66
Sample Time: Label 12:00
Volume Purged 1.26 gallons
Replicate/Code No. MW-52-MS/MSD_112318
Sampled by Rachel Bielak
Purge Start 11:28
Purge End 12:10

Rachel Bielak

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:28	0	150	8.03	0.00	7.37	7.35	5.06	5.09	12.9	-114.6	Clear, Small White Particulates	No Odor
11:33	5	150	8.12	0.20	7.34	7.67	9.25	0.32	14.4	-126.3	Clear, Small White Particulates	No Odor
11:38	5	150	8.13	0.40	7.33	7.95	7.99	0.24	15.1	-126.8	Clear	No Odor
11:43	5	150	8.13	0.60	7.33	8.15	7.28	0.23	15.1	-126.8	Clear	No Odor
11:48	5	150	8.13	0.80	7.33	8.32	5.94	0.17	15.3	-127.8	Clear	No Odor
11:53	5	175	8.12	1.00	7.34	8.39	4.50	0.16	14.9	-127.8	Clear	No Odor
11:56	3	150	8.12	1.14	7.33	8.43	4.62	0.18	14.5	-126.7	Clear	No Odor
11:59	3	150	8.12	1.26	7.33	8.50	4.69	0.18	14.7	-126.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	9	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	9	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: E of ATNPC road
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00001	Well ID	MW-53			Date	11-20-19
Project Name/Location	Ford LTP			Weather	39.02 degrees F, Haze		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.75	Total Depth (ft-bmp)	20.80	Water Column (ft.)	13.05	Gallons in Well	2.12
		Pump Intake (ft-bmp)	18.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.55				
Sample Time: Label	11:01	Volume Purged	1.16 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	10:29						
Purge End	11:06						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:30	0	150	7.75	0.00	7.55	8.00	16.10	2.20	13.5	-35.1	Small White Particulates	No Odor
10:35	5	150	7.75	0.20	7.53	9.15	13.10	0.35	14.4	-97.7	Small Orange Particulates	No Odor
10:40	5	150	7.75	0.40	7.51	9.10	4.81	0.23	14.5	-112.8	Clear	No Odor
10:45	5	150	7.75	0.60	7.49	9.01	1.68	0.21	14.6	-118.1	Clear	No Odor
10:50	5	150	7.75	0.80	7.48	8.94	0.50	0.18	14.6	-121.0	Clear	No Odor
10:55	5	150	7.75	0.96	7.48	8.89	0.02	0.16	14.6	-122.5	Clear	No Odor
11:00	5	150	7.75	1.16	7.46	8.86	0.02	0.13	14.5	-122.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location:	NE corner	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00001	Well ID	MW-54			Date	11-19-19
Project Name/Location	Ford LTP			Weather	39.92 degrees F, Fog/Mist		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.73	Total Depth (ft-bmp)	20.82	Water Column (ft.)	13.09	Gallons in Well	2.13
		Pump Intake (ft-bmp)	18.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.73				
Sample Time: Label	15:29	Volume Purged	1.56 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	14:55						
Purge End	15:33						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:56	0	200	7.73	0.00	7.03	11.03	33.50	1.55	13.3	-55.0	Clear	No Odor
15:01	5	200	7.73	0.26	7.32	11.24	20.70	0.51	13.3	-97.0	Clear	No Odor
15:06	5	200	7.73	0.52	7.33	11.17	7.88	0.31	13.5	-106.6	Clear	No Odor
15:11	5	200	7.73	0.78	7.63	11.12	5.66	0.28	13.5	-109.9	Clear	No Odor
15:16	5	200	7.73	1.04	7.33	11.12	3.99	0.27	13.6	-112.3	Clear	No Odor
15:21	5	200	7.73	1.30	7.33	11.14	3.69	0.24	13.6	-113.9	Clear	No Odor
15:26	5	200	7.73	1.56	7.33	11.14	3.45	0.17	13.6	-115.4	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	NE corner	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	no
Well Completion:	Flush mount	Lock Functioning:	no

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-54S
Date 11-19-19
Project Name/Location Ford LTP
Weather 37.94 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 4.5-9.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.84
Total Depth (ft-bmp) 9.22
Water Column (ft.) 2.38
Gallons in Well 0.39
Pump Intake (ft-bmp) 8.34
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.54

Sample Time: Label 14:20
Volume Purged 0.6 gallons
Replicate/Code No. --
Sampled by Madison Olender
Purge Start 13:18
Purge End 14:26

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:19	0	150	6.84	0.00	8.28	0.56	16.40	2.74	13.1	-26.4	Clear	No Odor
13:24	5	150	6.84	0.20	8.15	0.35	120.00	2.40	13.3	-8.4	Clear	No Odor
13:29	5	150	6.84	0.40	7.96	0.37	58.50	1.88	13.3	1.2	Cloudy	No Odor
13:34	5	150	6.84	0.60	7.55	0.37	49.70	2.29	13.3	-46.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Well ran dry. Let well recharge twice and then collected sample.

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: NE corner
Well Locked at Arrival: no
Condition of Well: Good
Well Locked at Departure: no
Well Completion: Flush mount
Lock Functioning: no

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-55			Date	11-20-19
Project Name/Location		Ford LTP		Weather		42.98 degrees F, Haze	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.43	Total Depth (ft-bmp)	19.55	Water Column (ft.)	11.12	Gallons in Well	1.81
		Pump Intake (ft-bmp)	17.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.73				
Sample Time: Label	14:13	Volume Purged	1.32 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	13:38						
Purge End	14:18						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:39	0	150	8.43	0.00	7.38	9.40	3.72	1.23	15.6	-53.8	Small Orange Particulates	No Odor
13:44	5	150	8.43	0.20	7.33	10.09	4.92	0.28	16.6	-92.2	Clear	No Odor
13:49	5	150	8.43	0.40	7.35	10.73	1.67	0.24	16.6	-97.9	Clear	No Odor
13:54	5	150	8.43	0.60	7.37	11.26	2.10	0.22	16.6	-104.5	Clear	No Odor
13:59	5	150	8.43	0.80	7.39	11.73	0.70	0.18	17.0	-107.1	Clear	No Odor
14:04	5	150	8.43	1.00	7.40	12.12	0.02	0.15	16.8	-109.7	Clear	No Odor
14:09	5	150	8.43	1.20	7.41	12.13	0.02	0.14	16.8	-112.3	Clear	No Odor
14:12	3	150	8.43	1.32	7.41	12.14	0.02	0.13	16.9	-113.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	N road	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-55D
Date 11-20-19
Project Name/Location Ford LTP
Weather 41.00 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 19-24
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 8.51
Total Depth (ft-bmp) 24.00
Water Column (ft.) 15.49
Gallons in Well 2.52
Pump Intake (ft-bmp) 21.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.63
Sample Time: Label 12:59
Volume Purged 1.6 gallons
Replicate/Code No. MW-55D-MS_112019 and MW-55D-MSD_112019
Sampled by Madison Olender
Purge Start 12:16
Purge End 13:13

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:17	0	150	8.51	0.00	7.34	7.10	7.75	2.19	15.4	-50.8	Clear	No Odor
12:22	5	150	8.51	0.20	7.35	7.21	6.88	0.37	15.8	-86.0	Clear	No Odor
12:27	5	150	8.51	0.40	7.33	7.27	5.03	0.26	15.9	-94.9	Clear	No Odor
12:32	5	150	8.51	0.60	7.33	7.30	3.64	0.23	16.1	-101.1	Clear	No Odor
12:37	5	150	8.51	0.80	7.32	7.30	2.04	0.20	16.4	-107.1	Clear	No Odor
12:42	5	150	8.51	1.00	7.32	7.31	1.71	0.17	16.4	-129.2	Clear	No Odor
12:47	5	150	8.51	1.20	7.31	7.37	0.77	0.16	16.3	-114.1	Clear	No Odor
12:52	5	150	8.51	1.40	7.31	7.42	1.82	0.13	16.5	-115.2	Clear	No Odor
12:57	5	150	8.51	1.60	7.31	7.41	0.02	0.11	16.4	-118.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	NE corner	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00001	Well ID	MW-56			Date	11-20-19
Project Name/Location			Ford LTP	Weather			42.98 degrees F, Haze
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.73	Total Depth (ft-bmp)	20.39	Water Column (ft.)	12.66	Gallons in Well	2.06
		Pump Intake (ft-bmp)	18.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.78				
Sample Time: Label	15:40	Volume Purged	1.6 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	14:56						
Purge End	15:45						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:57	0	150	7.73	0.00	7.15	26.31	27.80	1.19	14.9	-58.1	Clear	No Odor
15:02	5	150	7.73	0.20	7.16	27.88	1.93	0.40	15.1	-98.9	Clear	No Odor
15:07	5	150	7.51	0.40	7.18	28.16	8.41	0.33	15.2	-110.1	Clear	No Odor
15:12	5	150	7.43	0.60	7.19	28.12	16.50	0.29	15.3	-114.6	Clear	No Odor
15:17	5	150	7.73	0.80	7.19	28.13	24.40	0.22	15.3	-117.2	Clear	No Odor
15:22	5	150	7.73	1.00	7.19	28.25	31.30	0.17	15.4	-119.4	Clear	No Odor
15:27	5	150	7.73	1.20	7.18	28.34	40.00	0.14	15.3	-120.9	Clear	No Odor
15:32	5	150	7.73	1.40	7.18	28.37	40.00	0.16	15.3	-122.2	Clear	No Odor
15:37	5	150	7.73	1.60	7.18	28.43	44.20	0.13	15.3	-123.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	N road	Well Locked at Arrival:	no
Condition of Well:	Fair, Missing bolts	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00001
Well ID MW-57
Date 11-19-19
Project Name/Location Ford LTP
Weather 35.06 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 17-22
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.38
Total Depth (ft-bmp) 28.68
Water Column (ft.) 21.30
Gallons in Well 3.46
Pump Intake (ft-bmp) 19.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.90

Sample Time: Label 10:54
Volume Purged 3.12 gallons
Replicate/Code No. --
Sampled by Madison Olender
Purge Start 9:52
Purge End 10:58

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:53	0	200	7.38	0.00	8.38	12.61	10.40	1.30	15.8	105.8	Clear	No Odor
9:58	5	200	7.38	0.26	9.37	11.09	13.60	0.68	16.0	40.7	Clear	No Odor
10:03	5	200	7.38	0.52	10.04	10.25	14.60	1.32	15.9	27.2	Clear	No Odor
10:08	5	200	7.38	0.78	9.66	11.10	13.40	1.17	15.9	24.4	Clear	No Odor
10:13	5	200	7.38	1.04	9.22	11.93	4.42	0.72	15.9	28.7	Clear	No Odor
10:18	5	200	7.38	1.30	8.88	12.27	2.81	1.71	15.9	15.7	Clear	No Odor
10:23	5	200	7.38	1.56	8.63	12.32	0.52	0.32	15.9	-88.6	Clear	No Odor
10:28	5	200	7.38	1.82	8.45	12.31	0.02	0.28	16.0	-250.2	Clear	No Odor
10:33	5	200	7.38	2.08	8.31	12.27	0.02	0.23	16.1	-238.4	Clear	No Odor
10:38	5	200	7.38	2.34	8.20	12.27	0.02	0.23	16.2	-236.6	Clear	No Odor
10:43	5	200	7.38	2.60	8.13	12.25	0.02	0.20	16.1	-233.8	Clear	No Odor
10:48	5	200	7.38	2.86	8.09	12.22	0.02	0.19	16.0	-233.0	Clear	No Odor
10:53	5	200	7.38	3.12	8.07	12.18	0.02	0.18	16.0	-232.4	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot ***1" = 0.04*** ***1.25" = 0.06*** ***1.5" = 0.09*** ***2" = 0.16*** ***2.5" = 0.26*** ***3" = 0.37*** ***3.5" = 0.50*** ***4" = 0.65*** ***6" = 1.47***

Well Information

Well Location: NE corner
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00001
Well ID MW-58
Date 11-14-19
Project Name/Location Ford LTP
Weather 33.08 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 15-20
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.01
Total Depth (ft-bmp) 19.64
Water Column (ft.) 14.63
Gallons in Well 2.38
Pump Intake (ft-bmp) 17.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.38
Sample Time: Label 15:27
Volume Purged 0.91 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 14:50
Purge End 15:25

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:50	0	100	5.09	0.00	7.07	11.55	0.02	1.52	16.4	107.2	Clear	No Odor
14:55	5	100	5.09	0.13	7.02	12.62	0.02	0.49	15.1	100.9	Clear	No Odor
15:00	5	100	5.09	0.26	7.04	12.32	0.02	0.32	14.9	94.8	Clear	No Odor
15:05	5	100	5.09	0.39	7.05	10.90	0.02	0.34	15.3	87.3	Clear	No Odor
15:10	5	100	5.09	0.52	7.04	9.98	0.02	0.28	15.4	82.7	Clear	No Odor
15:15	5	100	5.09	0.65	7.04	9.60	0.02	0.22	15.4	79.7	Clear	No Odor
15:20	5	100	5.09	0.78	7.04	9.51	0.02	0.20	15.4	77.5	Clear	No Odor
15:25	5	100	5.09	0.91	7.04	9.45	0.02	0.19	15.7	73.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: 3 spots from red parking
Well Locked at Arrival: n/a
Condition of Well: Broken thread tabs, Fair
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00001	Well ID	MW-62			Date	11-5-19
Project Name/Location	Ford LTP			Weather	39.92 degrees F, Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.71	Total Depth (ft-bmp)	21.13	Water Column (ft.)	12.42	Gallons in Well	2.02
		Pump Intake (ft-bmp)	18.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.59				
Sample Time: Label	10:16	Volume Purged	1.2 gallons	Replicate/Code No.	--	Sampled by	Xenia Chan
Purge Start	9:38						
Purge End	10:11						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:40	0	150	8.72	0.00	6.93	4.19	23.30	4.27	17.7	-32.9	Clear	No Odor
9:45	5	150	8.72	0.20	7.07	4.19	9.55	0.75	17.9	-119.4	Clear	No Odor
9:50	5	150	8.72	0.40	7.08	3.89	3.38	0.33	18.1	-134.7	Clear	No Odor
9:55	5	150	8.72	0.60	7.09	4.18	1.76	0.23	18.3	-144.1	Clear	No Odor
10:00	5	150	8.72	0.80	7.09	4.27	0.02	0.24	18.1	-149.7	Clear	No Odor
10:05	5	150	8.72	1.00	7.09	4.34	0.02	0.23	18.1	-153.9	Clear	No Odor
10:10	5	150	8.72	1.20	7.09	4.38	0.02	0.20	18.2	-157.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	Next to 23B gate of pump house	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-63			Date	11-5-19
Project Name/Location	Ford LTP			Weather	44.06 degrees F, Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	7-12	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.82	Total Depth (ft-bmp)	11.81	Water Column (ft.)	3.99	Gallons in Well	0.65
		Pump Intake (ft-bmp)	9.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.85				
Sample Time: Label	13:10	Volume Purged	1.2 gallons	Replicate/Code No.	--	Sampled by	Xenia Chan
Purge Start	12:34						
Purge End	13:07						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:36	0	150	7.88	0.00	7.72	2.52	3.41	1.00	16.3	36.5	Clear	No Odor
12:41	5	150	7.86	0.20	7.43	2.51	2.00	0.58	16.3	16.9	Clear	No Odor
12:46	5	150	7.86	0.40	7.36	2.51	0.02	0.41	16.4	6.4	Clear	No Odor
12:51	5	150	7.85	0.60	7.35	2.51	0.02	0.31	16.5	-2.0	Clear	No Odor
12:56	5	150	7.86	0.80	7.34	2.51	0.02	0.25	16.7	-8.0	Clear	No Odor
13:01	5	150	7.85	1.00	7.34	2.51	0.02	0.26	16.5	-13.5	Clear	No Odor
13:06	5	150	7.85	1.20	7.34	2.50	0.02	0.23	16.6	-17.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	In front of tanks	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-64			Date	11-15-19
Project Name/Location			Ford LTP	Weather			30.02 degrees F, Haze
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.51	Total Depth (ft-bmp)	20.01	Water Column (ft.)	10.50	Gallons in Well	1.71
		Pump Intake (ft-bmp)	17.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.82				
Sample Time: Label	12:42	Volume Purged	1.4 gallons	Replicate/Code No.	--	Sampled by	Xenia Chan
Purge Start	12:04						
Purge End	12:40						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance: Color	Appearance: Odor
12:04	0	150	9.51	0.00	6.15	4.36	0.02	3.13	14.9	28.4	Clear	No Odor
12:09	5	150	9.50	0.20	7.36	4.18	1.53	0.51	15.8	-97.8	Clear	No Odor
12:14	5	150	9.50	0.40	7.28	4.06	1.80	0.34	16.0	-126.0	Clear	No Odor
12:19	5	150	9.50	0.60	7.25	4.00	0.35	0.23	16.2	-146.5	Clear	No Odor
12:24	5	150	9.50	0.80	7.23	3.99	0.02	0.17	16.2	-159.1	Clear	No Odor
12:29	5	150	9.50	1.00	7.23	3.99	0.02	0.14	16.1	-167.2	Clear	No Odor
12:34	5	150	9.50	1.20	7.22	3.99	0.02	0.17	16.1	-171.5	Clear	No Odor
12:39	5	150	9.50	1.40	7.22	3.99	0.02	0.12	16.0	-174.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.25" = 0.06* *1.5" = 0.09* *2" = 0.16* *2.5" = 0.26* *3" = 0.37* *3.5" = 0.50* *4" = 0.65* *6" = 1.47*

Well Information

Well Location:	E parking lot	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-65			Date	11-5-19
Project Name/Location			Ford LTP	Weather	44.06 degrees F, Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.06	Total Depth (ft-bmp)	21.09	Water Column (ft.)	12.03	Gallons in Well	1.95
		Pump Intake (ft-bmp)	18.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.62				
Sample Time: Label	14:30	Volume Purged	1.2 gallons	Replicate/Code No.	--	Sampled by	Xenia Chan
Purge Start	13:55						
Purge End	14:27						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Odor
13:57	0	150	9.13	0.00	7.65	2.78	12.60	0.93	14.1	-163.0	Clear	No Odor
14:02	5	150	9.02	0.20	7.41	2.86	10.00	0.49	14.2	-188.5	Clear	No Odor
14:07	5	150	9.01	0.40	7.37	2.92	5.59	0.38	14.3	-187.9	Clear	No Odor
14:12	5	150	9.05	0.60	7.35	2.97	0.14	0.28	14.3	-181.6	Clear	No Odor
14:17	5	150	9.05	0.80	7.35	2.99	0.02	0.20	14.2	-181.7	Clear	No Odor
14:22	5	150	9.10	1.00	7.37	2.99	0.02	0.19	14.2	-188.5	Clear	No Odor
14:27	5	159	9.05	1.20	7.28	2.99	0.02	0.17	14.2	-182.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Missing 1 bolt

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.25" = 0.06* *1.5" = 0.09* *2" = 0.16* *2.5" = 0.26* *3" = 0.37* *3.5" = 0.50* *4" = 0.65* *6" = 1.47*

Well Information

Well Location:	Lawn area inside of test track	Well Locked at Arrival:	n/a
Condition of Well:	Good,Missing bolts	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-66
Date 11-5-19
Project Name/Location Ford LTP
Weather 44.96 degrees F, Mostly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 15-20
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.06
Total Depth (ft-bmp) 19.00
Water Column (ft.) 11.94
Gallons in Well 1.94
Pump Intake (ft-bmp) 17.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.62

Sample Time: Label 15:38
Volume Purged 1.2 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 15:00
Purge End 15:35

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
15:03	0	150	7.21	0.00	7.44	6.80	2.08	1.85	14.8	-96.8	Clear	No Odor
15:08	5	150	7.10	0.20	7.37	6.76	4.39	0.55	15.4	-173.5	Clear	No Odor
15:13	5	150	7.13	0.40	7.43	6.90	10.90	0.54	14.7	-183.9	Clear	No Odor
15:18	5	150	7.15	0.60	7.33	6.90	10.00	0.26	15.9	-179.7	Clear	No Odor
15:23	5	150	7.15	0.80	7.31	6.87	10.40	0.20	15.8	-176.3	Clear	No Odor
15:28	5	150	7.15	1.00	7.30	6.85	10.40	0.18	16.0	-176.0	Clear	No Odor
15:33	5	150	7.15	1.20	7.30	6.85	10.70	0.17	15.9	-175.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: E inside of test track
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-67			Date	11-6-19
Project Name/Location			Ford LTP	Weather	33.98 degrees F, Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	9-14	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.45	Total Depth (ft-bmp)	14.01	Water Column (ft.)	4.56	Gallons in Well	0.74
		Pump Intake (ft-bmp)	11.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.64				
Sample Time: Label	11:46	Volume Purged	1.21 gallons	Replicate/Code No.	DUP-14	Sampled by	Xenia Chan
Purge Start	11:11						
Purge End	11:43						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
11:12	0	160	9.45	0.00	8.28	4.73	0.02	1.17	16.0	65.1	Clear	No Odor
11:17	5	150	9.46	0.21	7.91	5.13	0.02	0.39	17.2	-31.5	Clear	No Odor
11:22	5	150	9.52	0.41	7.89	5.16	0.02	0.25	17.4	-60.8	Clear	No Odor
11:27	5	150	9.46	0.61	7.86	5.20	0.02	0.19	17.5	-68.0	Clear	No Odor
11:32	5	150	9.50	0.81	7.85	5.24	0.02	0.18	17.5	-68.1	Clear	No Odor
11:37	5	150	9.51	1.01	7.86	5.24	0.02	0.13	17.5	-69.4	Clear	No Odor
11:42	5	150	9.48	1.21	7.86	5.24	0.02	0.13	17.5	-69.4	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	6	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	6	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	Parking lot E of test track	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-68			Date	11-7-19
Project Name/Location			Ford LTP	Weather		30.02 degrees F, Light Snow	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.45	Total Depth (ft-bmp)	19.81	Water Column (ft.)	10.36	Gallons in Well	1.68
		Pump Intake (ft-bmp)	17.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.83				
Sample Time: Label	10:09	Volume Purged	1.4 gallons	Replicate/Code No.	--	Sampled by	Xenia Chan
Purge Start	9:29						
Purge End	10:06						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:31	0	150	9.47	0.00	6.88	9.89	13.30	4.46	16.2	243.3	Clear	No Odor
9:36	5	150	9.48	0.20	6.83	12.04	3.40	0.63	17.3	239.3	Clear	No Odor
9:41	5	150	9.47	0.40	6.93	12.38	0.02	0.32	17.5	226.8	Clear	No Odor
9:46	5	150	9.48	0.60	6.94	12.47	0.02	0.25	17.6	218.5	Clear	No Odor
9:51	5	150	9.48	0.80	6.94	12.50	0.02	0.25	17.6	212.5	Clear	No Odor
9:56	5	150	9.48	1.00	6.94	12.50	0.02	0.23	17.6	207.3	Clear	No Odor
10:01	5	150	9.48	1.20	6.95	12.52	0.02	0.23	17.7	201.9	Clear	No Odor
10:06	5	150	9.47	1.40	6.97	12.55	0.02	0.20	17.7	197.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Broken thread tab and missing bolt

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Next to gate 2	Well Locked at Arrival:	n/a
Condition of Well:	Broken thread tabs,Fair,Missing bolts	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-69
Date 11-21-19
Project Name/Location Ford LTP
Weather 32.00 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 15-20
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 9.26
Total Depth (ft-bmp) 19.91
Water Column (ft.) 10.65
Gallons in Well 1.73
Pump Intake (ft-bmp) 17.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.73
Sample Time: Label 15:27
Volume Purged 1.26 gallons
Replicate/Code No. --
Sampled by Madison Olender
Purge Start 14:53
Purge End 15:32

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:54	0	200	9.26	0.00	8.21	17.16	7.01	1.13	15.3	-144.0	Clear	No Odor
14:59	5	150	9.29	0.26	7.24	18.07	4.98	0.46	15.5	-125.9	Clear	No Odor
15:04	5	150	9.26	0.46	7.20	18.02	3.76	0.32	15.7	-128.3	Clear	No Odor
15:09	5	150	9.26	0.66	7.20	17.95	2.71	0.25	15.8	-131.0	Clear	No Odor
15:14	5	150	9.26	0.86	7.22	17.88	1.97	0.20	15.8	-133.5	Clear	No Odor
15:19	5	150	9.26	1.06	7.23	17.74	0.82	0.20	15.4	-134.6	Clear	No Odor
15:24	5	150	9.26	1.26	7.24	17.61	0.02	0.19	15.4	-135.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Well had water in vault. Performed routine maintenance to remove water then sample

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: E ATNPC
Well Locked at Arrival: no
Condition of Well: Fair,Missing bolts
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-70
Date 11-7-19
Project Name/Location Ford LTP
Weather 32.00 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 15-20
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 10.92
Total Depth (ft-bmp) 20.10
Water Column (ft.) 9.18
Gallons in Well 1.49
Pump Intake (ft-bmp) 17.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.81
Sample Time: Label 11:12
Volume Purged 1.2 gallons
Replicate/Code No. DUP-11
Sampled by Xenia Chan
Purge Start 10:36
Purge End 11:09

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:39	0	150	11.05	0.00	9.15	0.32	2.23	6.30	16.2	178.0	Clear	No Odor
10:44	5	150	11.09	0.20	7.20	4.69	1.09	0.53	17.3	-27.5	Clear	No Odor
10:49	5	150	11.05	0.40	7.13	5.17	0.02	0.27	17.3	-71.6	Clear	No Odor
10:54	5	150	11.05	0.60	7.14	5.42	0.02	0.23	17.3	-82.2	Clear	No Odor
10:59	5	150	11.05	0.80	7.13	5.50	0.02	0.20	17.2	-85.7	Clear	No Odor
11:04	5	150	11.05	1.00	7.12	5.53	0.02	0.20	17.5	-86.0	Clear	No Odor
11:09	5	150	11.05	1.20	7.08	5.61	0.02	0.13	17.3	-85.4	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Missing 1 bolt

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: SE outside of test track in parking lot A
Well Locked at Arrival: n/a
Condition of Well: Good,Missing bolts
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-71			Date	11-7-19
Project Name/Location		Ford LTP		Weather	35.06 degrees F, Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	11.39	Total Depth (ft-bmp)	20.15	Water Column (ft.)	8.76	Gallons in Well	1.42
		Pump Intake (ft-bmp)	17.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.69				
Sample Time: Label	14:45	Volume Purged	2.4 gallons	Replicate/Code No.	--	Sampled by	Xenia Chan
Purge Start	13:41						
Purge End	14:43						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
13:42	0	150	11.68	0.00	7.30	17.18	35.30	1.32	17.0	-22.4	Small White Particulates	No Odor
13:47	5	150	11.60	0.20	7.02	18.60	40.00	0.40	17.5	-100.9	Small White Particulates	No Odor
13:52	5	150	11.60	0.40	7.01	19.05	35.90	0.30	17.4	-105.8	Small White Particulates	No Odor
13:57	5	150	11.60	0.60	7.02	19.32	37.30	0.23	17.7	-108.6	Small White Particulates	No Odor
14:02	5	150	11.63	0.80	7.02	19.41	36.30	0.21	17.6	-109.4	Small White Particulates	No Odor
14:07	5	150	11.63	1.00	7.02	19.47	30.00	0.19	17.8	-109.9	Small White Particulates	No Odor
14:12	5	150	11.63	1.20	7.02	19.48	23.00	0.18	17.9	-110.3	Clear	No Odor
14:17	5	150	11.65	1.40	7.01	19.46	18.00	0.16	17.8	-110.4	Clear	No Odor
14:22	5	150	11.66	1.60	7.00	19.46	15.70	0.14	17.7	-110.6	Clear	No Odor
14:27	5	150	11.65	1.80	7.00	19.49	13.30	0.14	17.7	-110.7	Clear	No Odor
14:32	5	150	11.66	2.00	7.00	19.45	11.00	0.14	17.8	-111.2	Clear	No Odor
14:37	5	150	11.65	2.20	7.03	19.44	5.01	0.14	17.8	-111.4	Clear	No Odor
14:42	5	150	11.65	2.40	7.02	19.45	2.44	0.15	17.5	-111.4	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04* *1.25" = 0.06*	*1.5" = 0.09* *2" = 0.16*	*2.5" = 0.26* *3" = 0.37*	*3.5" = 0.50* *4" = 0.65*	*6" = 1.47*

Well Information

Well Location:	South parking lot	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-113
Date 11-15-19
Project Name/Location Ford LTP
Weather 30.02 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 5-10
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 4.50
Total Depth (ft-bmp) 9.56
Water Column (ft.) 5.06
Gallons in Well 0.82
Pump Intake (ft-bmp) 7.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.95

Sample Time: Label 12:27
Volume Purged 0.78 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 11:55
Purge End 12:25

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:55	0	100	4.50	0.00	7.29	9.41	2.98	0.84	12.5	91.4	Clear	No Odor
12:00	5	100	4.50	0.13	7.28	9.53	0.02	0.54	12.5	90.3	Clear	No Odor
12:05	5	100	4.50	0.26	7.25	9.56	0.02	0.34	12.4	89.8	Clear	No Odor
12:10	5	100	4.50	0.39	7.25	9.52	0.02	0.24	12.8	89.1	Clear	No Odor
12:15	5	100	4.50	0.52	7.24	9.49	0.02	0.20	12.8	89.2	Clear	No Odor
12:20	5	100	4.50	0.65	7.23	9.43	0.02	0.17	13.0	89.1	Clear	No Odor
12:25	5	100	4.50	0.78	7.23	9.42	0.02	0.14	12.9	89.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.25" = 0.06* *1.5" = 0.09* *2" = 0.16* *2.5" = 0.26* *3" = 0.37* *3.5" = 0.50* *4" = 0.65* *6" = 1.47*

Well Information

Well Location: Parking area by response 11
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-114			Date	11-15-19
Project Name/Location	Ford LTP			Weather	28.04 degrees F, Haze		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	5-10	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.28	Total Depth (ft-bmp)	9.44	Water Column (ft.)	4.16	Gallons in Well	0.68
		Pump Intake (ft-bmp)	7.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.15				
Sample Time: Label	10:17	Volume Purged	0.78 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	9:45						
Purge End	10:15						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:45	0	100	5.39	0.00	7.28	3.06	27.90	0.46	12.5	99.8	Small Black Particulates, Small Orange	No Odor
9:50	5	100	5.39	0.13	7.26	3.05	0.02	0.40	11.6	94.4	Small Black Particulates, Small Orange	No Odor
9:55	5	100	5.39	0.26	7.28	3.06	0.02	0.27	12.0	84.5	Small Orange Particulates	No Odor
10:00	5	100	5.39	0.39	7.27	3.03	0.02	0.22	12.4	80.0	Clear	No Odor
10:05	5	100	5.39	0.52	7.30	3.00	0.02	0.17	12.9	73.1	Clear	No Odor
10:10	5	100	5.39	0.65	7.29	2.99	0.02	0.16	12.9	69.2	Clear	No Odor
10:15	5	100	5.39	0.78	7.26	3.04	0.02	0.12	12.7	66.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	Across from stop sign by piv 37	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-120
Date 11-23-19
Project Name/Location Ford LTP
Weather 35.06 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 7-12
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.08
Total Depth (ft-bmp) 11.76
Water Column (ft.) 5.68
Gallons in Well 0.92
Pump Intake (ft-bmp) 9.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.57
Sample Time: Label 13:36
Volume Purged 1.44 gallons
Replicate/Code No. --
Sampled by Rachel Bielak
Purge Start 13:00
Purge End 13:43

Rachel Bielak

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:00	0	150	6.08	0.00	7.51	0.96	14.60	2.45	12.5	-14.8	Clear, Small White Particulates	No Odor
13:05	5	150	6.09	0.20	7.39	0.97	10.20	0.52	12.6	-20.7	Clear	No Odor
13:10	5	150	6.09	0.40	7.35	0.99	8.26	0.40	12.7	-20.2	Clear	No Odor
13:15	5	150	6.09	0.60	7.30	0.98	6.35	0.34	12.6	-18.4	Clear	No Odor
13:20	5	150	6.09	0.80	7.29	0.97	5.41	0.30	12.6	-17.7	Clear	No Odor
13:23	3	150	6.09	0.92	7.29	0.97	5.93	0.28	12.6	-15.8	Clear	No Odor
13:27	4	150	6.09	1.08	7.29	0.97	5.82	0.25	12.7	-16.0	Clear	No Odor
13:30	3	150	6.09	1.20	7.27	0.97	4.77	0.28	12.7	-14.4	Clear	No Odor
13:33	3	150	6.08	1.32	7.27	0.97	4.95	0.27	12.5	-13.1	Clear	No Odor
13:36	3	150	6.09	1.44	7.28	0.97	4.18	0.24	12.8	-12.9	Clear	Faint Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot ***1" = 0.04*** ***1.25" = 0.06*** ***1.5" = 0.09*** ***2" = 0.16*** ***2.5" = 0.26*** ***3" = 0.37*** ***3.5" = 0.50*** ***4" = 0.65*** ***6" = 1.47***

Well Information

Well Location: Other side of gate 1A north end of property
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-122
Date 11-20-19
Project Name/Location Ford LTP
Weather 37.04 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 16-20
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 9.28
Total Depth (ft-bmp) 21.00
Water Column (ft.) 11.72
Gallons in Well 1.90
Pump Intake (ft-bmp) 18.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.63
Sample Time: Label 9:06
Volume Purged 1.2 gallons
Replicate/Code No. --
Sampled by Madison Olender
Purge Start 8:33
Purge End 9:11

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
8:34	0	150	9.28	0.00	7.36	6.09	8.64	1.36	14.9	-81.4	Clear	No Odor
8:39	5	150	9.28	0.20	7.30	6.30	4.83	0.40	15.9	-109.6	Clear	No Odor
8:44	5	150	9.28	0.40	7.29	6.54	2.61	0.31	16.1	-117.4	Clear	No Odor
8:49	5	150	9.28	0.60	7.28	6.81	0.53	0.25	16.1	-121.7	Clear	No Odor
8:54	5	150	9.28	0.80	7.27	7.07	0.02	0.20	16.1	-124.1	Clear	No Odor
8:59	5	150	9.28	1.00	7.27	7.10	0.02	0.17	16.1	-125.2	Clear	No Odor
9:04	5	150	9.28	1.20	7.27	7.11	0.02	0.18	16.0	-126.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

PVC is cracked about 5 inches below top of casing.

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: NE corner
Well Locked at Arrival: no
Condition of Well: Casing broken,Fair
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.: 30016346.00001
Well ID: MW-124
Date: 11-15-19
Project Name/Location: Ford LTP
Weather: 32.00 degrees F, Haze
Measuring Pt. Description: Top of Casing
Screen Setting (ft-bmp): 5-10
Casing Diameter (in.): 2
Well Material: PVC
Static Water Level (ft-bmp): 1.49
Total Depth (ft-bmp): 9.58
Water Column (ft.): 8.09
Gallons in Well: 1.31
Pump Intake (ft-bmp): 7.50
Purge Method: Low-Flow
Sample Method: Low-Flow
Well Volumes Purged: 0.72
Sample Time: Label 13:37
Volume Purged: 0.94 gallons
Replicate/Code No.: --
Sampled by: Heather Woodrum
Purge Start: 13:00
Purge End: 13:36

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:00	0	100	1.52	0.00	7.19	2.58	47.70	1.77	10.4	45.6	Small Orange Particulates	No Odor
13:05	5	100	1.52	0.13	7.22	2.57	61.60	0.79	10.3	44.5	Small Orange Particulates	No Odor
13:10	5	100	1.52	0.26	7.20	2.40	24.30	0.30	10.6	44.7	Small Orange Particulates	No Odor
13:15	5	100	1.52	0.39	7.15	2.34	21.90	0.23	10.3	46.8	Small Orange Particulates	No Odor
13:20	5	100	1.52	0.52	7.15	2.31	11.30	0.17	10.7	47.0	Clear	No Odor
13:25	5	100	1.52	0.65	7.16	2.31	9.67	0.13	10.7	46.2	Clear	No Odor
13:30	5	100	1.52	0.78	7.16	2.31	3.60	0.16	10.7	45.8	Clear	No Odor
13:33	3	100	1.52	0.86	7.15	2.31	4.76	0.11	10.5	46.3	Clear	No Odor
13:36	3	100	1.52	0.94	7.14	2.31	2.66	0.11	10.6	46.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Across from blue man door by dock 28
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00001
Well ID MW-194
Date 11-20-19
Project Name/Location Ford LTP
Weather 42.08 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 12-17
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 2.39
Total Depth (ft-bmp) 16.15
Water Column (ft.) 13.76
Gallons in Well 2.24
Pump Intake (ft-bmp) 14.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.06
Sample Time: Label 13:55
Volume Purged 2.38 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 13:08
Purge End 13:47

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:09	0	250	2.58	0.00	7.57	1.61	140.00	1.83	14.4	38.6	Clear, Cloudy	No Odor
13:14	5	250	2.60	0.33	7.50	1.55	97.90	1.25	14.7	32.4	Clear, Cloudy	No Odor
13:19	5	250	2.62	0.66	7.43	1.55	48.20	0.74	14.9	27.6	Clear	No Odor
13:24	5	250	2.64	0.99	7.43	1.54	35.90	0.73	15.0	23.7	Clear	No Odor
13:29	5	250	2.65	1.32	7.48	1.54	25.40	0.62	15.0	18.6	Clear	No Odor
13:34	5	250	2.65	1.65	7.48	1.52	22.00	0.55	15.1	12.7	Clear	No Odor
13:39	5	250	2.65	1.98	7.48	1.52	14.90	0.47	15.1	8.8	Clear	No Odor
13:42	3	250	2.65	2.18	7.48	1.51	14.10	0.42	15.1	5.6	Clear	No Odor
13:45	3	250	2.65	2.38	7.47	1.51	13.60	0.41	15.2	2.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Across from PIV 56 and SCV T
Well Locked at Arrival: no
Condition of Well: Good
Well Locked at Departure: no
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00001
Well ID MW-194S
Date 11-20-19
Project Name/Location Ford LTP
Weather 41.00 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 2.58
Total Depth (ft-bmp) 6.53
Water Column (ft.) 3.95
Gallons in Well 0.64
Pump Intake (ft-bmp) 4.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.61
Sample Time: Label 13:00
Volume Purged 2.31 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 12:14
Purge End 12:55

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:17	0	250	2.59	0.00	9.31	2.86	85.50	0.74	12.6	62.6	Clear	No Odor
12:22	5	250	2.59	0.33	9.03	2.84	68.30	0.51	12.8	62.7	Clear	No Odor
12:27	5	250	2.59	0.66	8.73	2.83	54.00	0.35	13.0	63.5	Clear	No Odor
12:32	5	250	2.59	0.99	8.50	2.82	36.80	0.25	13.3	63.8	Clear	No Odor
12:37	5	250	2.59	1.32	8.23	2.83	16.70	0.18	13.4	64.1	Clear	No Odor
12:42	5	250	2.59	1.65	8.11	2.83	11.00	0.17	13.4	64.4	Clear	No Odor
12:47	5	250	2.59	1.91	8.02	2.84	3.19	0.19	13.2	64.9	Clear	No Odor
12:50	3	250	2.59	2.11	7.95	2.84	3.05	0.20	13.1	65.1	Clear	No Odor
12:53	3	250	2.59	2.31	7.93	2.85	2.82	0.19	13.1	65.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Across from PIV56 and SCV T
Well Locked at Arrival: no
Condition of Well: Good
Well Locked at Departure: no
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00001
Well ID MW-195S
Date 11-20-19
Project Name/Location Ford LTP
Weather 39.02 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 1.98
Total Depth (ft-bmp) 6.20
Water Column (ft.) 4.22
Gallons in Well 0.69
Pump Intake (ft-bmp) 3.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.49

Sample Time: Label 11:45
Volume Purged 1.72 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 11:05
Purge End 11:43

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:06	0	200	2.00	0.00	10.13	2.64	51.30	1.11	10.5	76.8	Clear	No Odor
11:11	5	200	2.01	0.26	8.63	3.96	64.90	0.31	11.9	77.6	Clear	No Odor
11:16	5	200	2.01	0.52	7.42	4.69	48.60	0.20	12.7	70.5	Clear	No Odor
11:21	5	200	2.01	0.78	7.38	4.64	31.30	0.19	12.9	68.1	Clear	No Odor
11:26	5	200	2.01	1.04	7.38	4.60	20.60	0.17	12.9	67.4	Clear	No Odor
11:31	5	200	2.01	1.30	7.38	4.58	8.35	0.17	12.9	67.2	Clear	No Odor
11:36	5	200	2.01	1.56	7.36	4.54	8.39	0.17	12.9	66.8	Clear	No Odor
11:39	3	200	2.01	1.72	7.36	4.52	8.53	0.15	12.9	66.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Across from PIV54
Well Locked at Arrival: no
Condition of Well: Good
Well Locked at Departure: no
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00001
Well ID MW-196
Date 11-20-19
Project Name/Location Ford LTP
Weather 37.04 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 12-17
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 2.24
Total Depth (ft-bmp) 17.14
Water Column (ft.) 14.90
Gallons in Well 2.42
Pump Intake (ft-bmp) 14.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.75
Sample Time: Label 9:55
Volume Purged 1.82 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 9:12
Purge End 9:53

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:15	0	200	2.32	0.00	7.28	2.23	182.00	1.10	13.7	118.8	Clear, Cloudy	No Odor
9:20	5	200	2.32	0.26	7.16	2.03	149.00	0.84	13.9	106.9	Clear, Cloudy	No Odor
9:25	5	200	2.32	0.52	7.18	2.04	35.50	0.60	14.1	96.3	Clear	No Odor
9:30	5	200	2.32	0.78	7.19	2.02	18.60	0.50	13.9	85.5	Clear	No Odor
9:35	5	200	2.32	1.04	7.20	2.01	8.50	0.44	13.7	86.4	Clear	No Odor
9:40	5	200	2.32	1.30	7.24	1.99	4.80	0.36	14.0	77.3	Clear	No Odor
9:45	5	200	2.32	1.56	7.26	1.99	2.34	0.32	14.1	74.1	Clear	No Odor
9:50	5	200	2.32	1.82	7.27	1.99	1.36	0.30	14.1	71.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot ***1" = 0.04*** ***1.25" = 0.06*** ***1.5" = 0.09*** ***2" = 0.16*** ***2.5" = 0.26*** ***3" = 0.37*** ***3.5" = 0.50*** ***4" = 0.65*** ***6" = 1.47***

Well Information

Well Location: Onsite across from PIV 52 closest to curb
Well Locked at Arrival: no
Condition of Well: Good
Well Locked at Departure: no
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00001
Well ID MW-196S
Date 11-20-19
Project Name/Location Ford LTP
Weather 39.02 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 2.50
Total Depth (ft-bmp) 6.55
Water Column (ft.) 4.05
Gallons in Well 0.66
Pump Intake (ft-bmp) 4.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.48
Sample Time: Label 10:50
Volume Purged 2.3 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 10:05
Purge End 10:49

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:06	0	230	2.56	0.00	7.51	2.14	38.20	1.27	11.4	85.9	Clear, Small Black Particulates	No Odor
10:11	5	230	2.57	0.30	7.54	2.15	40.00	0.64	11.7	85.0	Clear	No Odor
10:16	5	230	2.57	0.60	7.58	2.16	30.10	0.64	11.8	80.3	Clear	No Odor
10:21	5	230	2.57	0.90	7.58	2.19	19.90	0.40	11.9	70.6	Clear	No Odor
10:26	5	230	2.57	1.20	7.54	2.24	6.57	0.43	11.9	62.9	Clear	No Odor
10:31	5	230	2.57	1.46	7.48	2.32	4.11	0.48	11.9	59.8	Clear	No Odor
10:36	5	230	2.57	1.76	7.42	2.41	0.02	0.48	12.0	58.2	Clear	No Odor
10:39	3	230	2.57	1.94	7.41	2.47	0.02	0.45	12.0	57.3	Clear	No Odor
10:42	3	230	2.57	2.12	7.40	2.52	0.02	0.39	12.0	55.8	Clear	No Odor
10:45	3	200	2.57	2.30	7.39	2.54	0.02	0.40	12.1	55.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Across from PIV52 closest to fence
Well Locked at Arrival: no
Condition of Well: Good
Well Locked at Departure: no
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00001
Well ID MW-197S
Date 11-25-19
Project Name/Location Ford LTP
Weather 44.06 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 3-8
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.02
Total Depth (ft-bmp) 7.40
Water Column (ft.) 2.38
Gallons in Well 0.39
Pump Intake (ft-bmp) 6.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 5.08
Sample Time: Label 12:05
Volume Purged 1.98 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 11:31
Purge End 12:04

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:32	0	250	5.19	0.00	7.05	10.35	31.70	2.26	13.4	112.3	Clear	No Odor
11:37	5	250	5.22	0.33	7.13	10.13	33.20	0.66	13.3	102.9	Clear	No Odor
11:42	5	250	5.22	0.66	7.14	10.37	16.30	0.78	13.2	98.4	Clear	No Odor
11:47	5	250	5.22	0.99	7.15	10.43	13.30	0.81	13.2	95.1	Clear	No Odor
11:52	5	250	5.22	1.32	7.16	10.37	4.92	0.65	13.2	92.1	Clear	No Odor
11:57	5	250	5.22	1.65	7.17	10.29	0.02	0.65	13.1	89.8	Clear	No Odor
12:02	5	250	5.22	1.98	7.18	10.26	0.02	0.67	13.2	87.4	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Employee parking lot next to light on Levan, next to steel guard rail
Well Locked at Arrival: no
Condition of Well: Good
Well Locked at Departure: no
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00001	Well ID	MW-198			Date	11-25-19
Project Name/Location		Ford LTP		Weather	42.98 degrees F, Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	12-17	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.28	Total Depth (ft-bmp)	16.52	Water Column (ft.)	12.24	Gallons in Well	1.99
		Pump Intake (ft-bmp)	14.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.10				
Sample Time: Label	11:10	Volume Purged	2.18 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	10:32						
Purge End	11:08						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:34	0	250	4.31	0.00	7.56	0.67	111.00	2.00	13.0	30.3	Clear, Cloudy	No Odor
10:39	5	250	4.31	0.33	7.59	0.62	83.20	0.32	13.3	21.0	Clear	No Odor
10:44	5	250	4.31	0.66	7.59	0.62	56.60	0.30	13.2	21.3	Clear	No Odor
10:49	5	250	4.31	0.99	7.57	0.62	40.00	0.26	13.2	21.7	Clear	No Odor
10:54	5	250	4.31	1.32	7.55	0.61	15.30	0.22	13.3	22.1	Clear	No Odor
10:59	5	250	4.31	1.65	7.53	0.61	3.56	0.20	13.2	23.4	Clear	No Odor
11:04	5	250	4.31	1.98	7.51	0.61	0.02	0.23	13.3	24.0	Clear	No Odor
11:07	3	250	4.31	2.18	7.51	0.61	0.02	0.25	13.3	24.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Employee parking lot last striped space near rail road tracks	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	no
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00001	Well ID	MW-198S			Date	11-20-19
Project Name/Location	Ford LTP			Weather	42.98 degrees F, Haze		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-7.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.35	Total Depth (ft-bmp)	7.10	Water Column (ft.)	2.75	Gallons in Well	0.45
		Pump Intake (ft-bmp)	6.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	4.53				
Sample Time: Label	15:15	Volume Purged	2.04 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	14:39						
Purge End	15:14						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:40	0	200	4.48	0.00	7.40	5.38	11.20	1.21	11.9	54.7	Clear	No Odor
14:45	5	200	4.49	0.26	7.38	5.42	0.02	0.69	12.0	51.1	Clear	No Odor
14:50	5	250	4.50	0.52	7.38	5.50	0.02	0.65	11.9	50.8	Clear	No Odor
14:55	5	250	4.50	0.85	7.36	5.73	0.02	0.64	11.9	51.0	Clear	No Odor
15:00	5	250	4.51	1.18	7.34	5.99	0.02	0.66	11.9	51.8	Clear	No Odor
15:05	5	250	4.52	1.51	7.30	6.33	0.02	0.64	11.9	52.9	Clear	No Odor
15:10	5	250	4.52	1.84	7.30	6.42	0.02	0.66	11.9	52.8	Clear	No Odor
15:13	3	250	4.52	2.04	7.29	6.52	0.02	0.69	11.9	53.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location:	Employee parking next to Levan, last parking spot towards the train tracks in the striped area	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	no
Well Completion:	Flush mount	Lock Functioning:	n/a

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID MW-199S
Date 11-25-19
Project Name/Location Ford LTP
Weather 37.94 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 1.97
Total Depth (ft-bmp) 5.82
Water Column (ft.) 3.85
Gallons in Well 0.63
Pump Intake (ft-bmp) 3.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 4.11

Sample Time: Label 10:05
Volume Purged 2.59 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 9:25
Purge End 10:54

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:26	0	280	2.31	0.00	6.92	1.43	55.20	0.86	9.6	175.5	Clear	No Odor
9:35	9	280	2.32	0.67	7.41	1.40	32.90	0.28	9.2	108.3	Clear	No Odor
9:40	5	280	2.32	1.04	7.46	1.36	19.20	0.30	9.1	89.3	Clear	No Odor
9:45	5	280	2.32	1.41	7.49	1.32	9.86	0.29	8.8	77.0	Clear	No Odor
9:50	5	280	2.32	1.78	7.50	1.28	1.97	0.25	9.0	69.1	Clear	No Odor
9:55	5	280	2.32	2.15	7.56	1.23	3.97	0.22	9.3	55.3	Clear	No Odor
9:58	3	280	2.32	2.37	7.58	1.26	0.02	0.20	9.3	51.8	Clear	No Odor
10:01	3	280	2.32	2.59	7.60	1.24	0.02	0.19	9.3	47.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Before security exit point in gravel
Well Locked at Arrival: no
Condition of Well: Good
Well Locked at Departure: no
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-200			Date	11-21-19
Project Name/Location			Ford LTP	Weather			39.02 degrees F, Fog/Mist
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.41	Total Depth (ft-bmp)	18.80	Water Column (ft.)	12.39	Gallons in Well	2.01
		Pump Intake (ft-bmp)	17.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.18				
Sample Time: Label	10:00	Volume Purged	2.37 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	9:11						
Purge End	9:57						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:12	0	250	6.71	0.00	6.96	2.57	405.00	1.75	16.5	129.3	Cloudy	No Odor
9:17	5	200	6.65	0.33	7.37	2.54	201.00	0.64	16.6	77.2	Cloudy	No Odor
9:22	5	200	6.67	0.59	7.43	2.52	51.00	0.31	16.7	48.9	Clear	No Odor
9:27	5	200	6.67	0.85	7.44	2.52	33.50	0.29	16.8	44.0	Clear	No Odor
9:32	5	200	6.67	1.11	7.45	2.52	18.60	0.24	16.8	33.0	Clear	No Odor
9:37	5	200	6.67	1.37	7.45	2.53	5.29	0.19	16.9	19.7	Clear	No Odor
9:42	5	200	6.69	1.63	7.46	2.53	0.93	0.20	16.9	7.5	Clear	No Odor
9:47	5	200	6.69	1.89	7.46	2.53	0.41	0.21	16.9	-4.7	Clear	No Odor
9:50	3	200	6.69	2.05	7.47	2.52	0.02	0.19	16.8	-12.8	Clear	No Odor
9:53	3	200	6.69	2.21	7.46	2.54	0.02	0.19	16.9	-17.8	Clear	No Odor
9:56	3	200	6.69	2.37	7.46	2.54	0.02	0.20	16.8	-22.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Employee parking lot near employee entrance across from emergency point 5 and emergency point 6, in handicap striped parking area	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	no
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-200S			Date	11-21-19
Project Name/Location			Ford LTP	Weather			39.92 degrees F, Haze
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	5-10	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.35	Total Depth (ft-bmp)	9.58	Water Column (ft.)	3.23	Gallons in Well	0.52
		Pump Intake (ft-bmp)	8.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	3.75				
Sample Time: Label	11:00	Volume Purged	1.95 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	10:13						
Purge End	10:57						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:17	0	200	6.40	0.00	7.82	8.76	57.50	0.36	14.9	33.1	Clear	No Odor
10:22	5	200	6.44	0.33	7.84	8.95	59.30	0.28	13.6	30.4	Clear	No Odor
10:27	5	200	6.44	0.59	7.84	8.96	31.90	0.30	14.8	28.0	Clear	No Odor
10:32	5	200	6.44	0.85	7.84	8.98	19.50	0.29	15.0	27.1	Clear	No Odor
10:37	5	200	6.44	1.11	7.84	9.02	12.40	0.29	15.1	26.2	Clear	No Odor
10:42	5	200	6.45	1.37	7.85	9.04	9.73	0.29	15.1	25.5	Clear	No Odor
10:47	5	200	6.45	1.63	7.85	9.04	3.86	0.29	15.1	24.9	Clear	No Odor
10:50	3	200	6.45	1.79	7.85	9.05	2.84	0.29	15.1	24.6	Clear	No Odor
10:53	3	200	6.45	1.95	7.85	9.06	1.80	0.28	15.1	24.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Employee parking across from emergency point 5 and 6, striped handicap	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	no
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00001
Well ID MW-201
Date 11-19-19
Project Name/Location Ford LTP
Weather 37.94 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 17-22
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.02
Total Depth (ft-bmp) 21.47
Water Column (ft.) 16.45
Gallons in Well 2.67
Pump Intake (ft-bmp) 19.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.91

Sample Time: Label 14:25
Volume Purged 2.42 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 13:43
Purge End 14:20

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:43	0	280	5.48	0.00	7.25	12.91	35.20	7.39	16.3	100.0	Clear	No Odor
13:48	5	250	5.85	0.37	7.22	13.08	13.00	0.33	16.9	76.3	Clear	No Odor
13:53	5	250	6.02	0.70	7.24	13.27	4.48	0.22	16.9	65.8	Clear	No Odor
13:58	5	250	6.06	1.03	7.27	13.44	5.45	0.18	16.9	51.8	Clear	No Odor
14:03	5	250	6.10	1.36	7.28	13.55	0.02	0.14	16.3	42.0	Clear	No Odor
14:08	5	250	6.12	1.69	7.30	13.73	0.02	0.15	17.1	30.2	Clear	No Odor
14:13	5	250	6.15	2.02	7.31	13.84	0.02	0.14	17.1	10.5	Clear	No Odor
14:16	3	250	6.17	2.22	7.32	13.90	0.02	0.15	17.2	6.9	Clear	No Odor
14:19	3	250	6.09	2.42	7.33	13.96	0.02	0.18	16.9	0.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Employee parking in front of red building at gate 7. In striped handicap spot.
Well Locked at Arrival: no
Condition of Well: Good
Well Locked at Departure: no
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	MW-201S			Date	11-19-19
Project Name/Location	Ford LTP			Weather	37.94 degrees F, Fog/Mist		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	3.5-8.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.16	Total Depth (ft-bmp)	8.13	Water Column (ft.)	2.97	Gallons in Well	0.48
		Pump Intake (ft-bmp)	6.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	5.79				
Sample Time: Label	13:30	Volume Purged	2.78 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	12:39						
Purge End	13:28						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:44	0	250	5.20	0.00	8.85	6.59	25.60	2.59	14.4	143.0	Clear, Yellow	No Odor
12:49	5	250	5.21	0.33	8.80	7.62	40.00	1.53	14.7	136.5	Clear	No Odor
12:54	5	250	5.21	0.66	8.58	9.21	17.30	0.73	15.4	130.4	Clear	No Odor
12:59	5	250	5.21	0.99	8.63	8.79	10.30	0.95	15.2	123.6	Clear	No Odor
13:04	5	250	5.22	1.32	8.64	8.41	3.19	1.04	15.2	118.3	Clear	No Odor
13:09	5	250	5.22	1.65	8.63	8.42	2.23	0.90	15.2	117.1	Clear	No Odor
13:14	5	250	5.22	1.98	8.40	9.33	4.09	0.23	15.9	117.9	Clear	No Odor
13:17	3	250	5.22	2.18	8.55	9.04	5.55	0.73	15.6	113.8	Clear	No Odor
13:20	3	250	5.22	2.38	8.59	8.74	3.88	0.84	15.5	113.0	Clear	No Odor
13:23	3	250	5.22	2.58	8.60	8.59	3.79	0.88	15.5	112.2	Clear	No Odor
13:26	3	250	5.22	2.78	8.61	8.52	0.83	0.89	15.5	111.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.25" = 0.06* *1.5" = 0.09* *2" = 0.16* *2.5" = 0.26* *3" = 0.37* *3.5" = 0.50* *4" = 0.65* *6" = 1.47*

Well Information

Well Location:	Employee parking in front of red building at gate 7. In striped handicap spot	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	no
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00001	Well ID	PW-16-01			Date	11-11-19
Project Name/Location			Ford LTP	Weather	30.02 degrees F, Light Snow and Fog/Mist		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	9.7-19.7	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.50	Total Depth (ft-bmp)	21.57	Water Column (ft.)	13.07	Gallons in Well	2.12
		Pump Intake (ft-bmp)	14.70	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.63				
Sample Time: Label	13:08	Volume Purged	1.33 gallons	Replicate/Code No.	--	Sampled by	Xenia Chan
Purge Start	12:33						
Purge End	13:06						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance: Color	Appearance: Odor
12:35	0	150	8.45	0.00	8.27	3.77	0.02	0.97	14.3	-63.4	Clear, Small Orange Particulates	No Odor
12:40	5	150	8.45	0.20	7.69	4.33	0.02	0.50	14.4	-64.7	Clear, Small Orange Particulates	No Odor
12:45	5	150	8.46	0.40	7.55	4.56	0.02	0.26	15.0	-79.5	Clear	No Odor
12:50	5	150	8.48	0.60	7.52	4.48	0.02	0.16	15.4	-93.8	Clear	No Odor
12:55	5	150	8.50	0.80	7.53	4.54	0.02	0.14	15.5	-102.0	Clear	No Odor
13:00	5	250	8.50	1.00	7.46	4.51	0.02	0.13	15.5	-102.5	Clear	No Odor
13:05	5	150	8.60	1.33	7.45	4.50	0.02	0.10	15.7	-97.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.25" = 0.06* *1.5" = 0.09* *2" = 0.16* *2.5" = 0.26* *3" = 0.37* *3.5" = 0.50* *4" = 0.65* *6" = 1.47*

Well Information

Well Location:	Inside test track	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	PW-16-02			Date	11-14-19
Project Name/Location			Ford LTP	Weather	28.94 degrees F, Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	12-17	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.05	Total Depth (ft-bmp)	23.72	Water Column (ft.)	17.67	Gallons in Well	2.87
		Pump Intake (ft-bmp)	14.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.42				
Sample Time: Label	11:57	Volume Purged	1.2 gallons	Replicate/Code No.	--	Sampled by	Xenia Chan
Purge Start	11:21						
Purge End	11:55						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
11:23	0	150	6.05	0.00	7.14	0.98	0.02	1.69	12.0	-172.6	Clear	No Odor
11:28	5	150	6.10	0.20	6.88	0.98	0.02	0.55	12.7	-157.3	Clear	No Odor
11:33	5	150	6.10	0.40	6.87	0.98	0.43	0.75	12.8	-154.9	Clear	No Odor
11:38	5	150	6.10	0.60	6.86	0.97	1.37	0.63	12.9	-152.4	Clear	No Odor
11:43	5	150	6.10	0.80	6.85	0.97	1.05	0.49	13.0	-150.2	Small White Particulates	No Odor
11:48	5	150	6.10	1.00	6.85	0.97	0.86	0.36	13.0	-147.7	Clear	No Odor
11:53	5	150	6.10	1.20	6.85	0.97	1.35	0.37	12.9	-145.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	Inside test track	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID TW-16-01
Date 11-11-19
Project Name/Location Ford LTP
Weather 30.92 degrees F, Light Snow and Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 12-17
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.64
Total Depth (ft-bmp) 16.80
Water Column (ft.) 9.16
Gallons in Well 1.49
Pump Intake (ft-bmp) 14.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.07
Sample Time: Label 10:42
Volume Purged 1.6 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 10:57
Purge End 10:40

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:00	0	150	7.67	0.00	7.57	2.49	0.02	1.15	15.3	100.0	Clear	No Odor
10:05	5	150	7.64	0.20	7.17	2.52	0.02	0.56	15.8	-35.1	Clear	No Odor
10:10	5	150	7.67	0.40	7.11	2.59	0.02	0.39	15.9	-81.4	Clear	No Odor
10:15	5	150	7.67	0.60	7.12	2.64	0.02	0.29	16.1	-100.4	Clear	No Odor
10:20	5	150	7.67	0.80	7.15	2.70	0.02	0.26	16.2	-110.6	Clear	No Odor
10:25	5	150	7.67	1.00	7.15	2.75	0.02	0.29	16.3	-116.2	Clear	No Odor
10:30	5	150	7.67	1.20	7.25	2.81	0.02	0.28	16.4	-124.9	Clear	No Odor
10:35	5	150	7.67	1.40	7.20	2.85	0.02	0.28	16.1	-122.5	Clear	No Odor
10:40	5	150	7.67	1.60	7.18	2.87	0.02	0.25	16.2	-124.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments
None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Inside test track
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00001
Well ID TW-16-02
Date 11-11-19
Project Name/Location Ford LTP
Weather 30.92 degrees F, Snow and Fog
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 12-17
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.57
Total Depth (ft-bmp) 17.12
Water Column (ft.) 9.55
Gallons in Well 1.55
Pump Intake (ft-bmp) 14.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.77
Sample Time: Label 11:53
Volume Purged 1.2 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 11:15
Purge End 11:50

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:16	0	150	7.57	0.00	8.09	3.33	0.02	3.61	15.5	11.3	Clear	No Odor
11:21	5	150	7.51	0.20	7.40	3.89	0.02	0.52	16.6	-134.0	Clear	No Odor
11:26	5	150	7.52	0.40	7.38	3.71	0.02	0.57	16.7	-150.0	Clear	No Odor
11:31	5	150	7.51	0.60	7.37	3.86	0.02	0.18	16.7	-157.0	Clear	No Odor
11:36	5	150	7.51	0.80	7.34	3.93	0.02	0.14	16.9	-161.3	Clear	No Odor
11:41	5	150	7.51	1.00	7.33	3.92	0.02	0.13	16.7	-162.7	Clear	No Odor
11:46	5	150	7.51	1.20	7.33	3.83	0.02	0.15	16.7	-161.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Inside test track
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00001	Well ID	TW-16-03			Date	11-14-19
Project Name/Location			Ford LTP	Weather	28.94 degrees F, Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	9-19	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.50	Total Depth (ft-bmp)	18.33	Water Column (ft.)	12.83	Gallons in Well	2.08
		Pump Intake (ft-bmp)	14.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.58				
Sample Time: Label	11:04	Volume Purged	1.2 gallons	Replicate/Code No.	--	Sampled by	Xenia Chan
Purge Start	10:29						
Purge End	11:02						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:31	0	150	5.10	0.00	7.33	1.27	1.43	1.49	12.0	-166.6	Clear	No Odor
10:36	5	150	5.45	0.20	6.88	1.24	2.29	0.47	12.6	-155.6	Clear	No Odor
10:41	5	150	5.45	0.40	6.94	1.24	4.09	0.36	12.7	-169.4	Clear	No Odor
10:46	5	150	5.45	0.60	6.94	1.23	3.50	0.23	13.0	-175.5	Clear	No Odor
10:51	5	150	5.45	0.80	6.93	1.24	3.99	0.21	13.0	-179.6	Clear	No Odor
10:56	5	150	5.45	1.00	6.93	1.26	4.02	0.19	12.9	-181.5	Clear	No Odor
11:01	5	150	5.45	1.20	6.90	1.27	4.60	0.17	13.0	-183.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Missing 2 bolts

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	Inside test track	Well Locked at Arrival:	n/a
Condition of Well:	Good,Missing bolts	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00001
Well ID TW-16-04
Date 11-14-19
Project Name/Location Ford LTP
Weather 28.04 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 10-19
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.91
Total Depth (ft-bmp) 18.91
Water Column (ft.) 13.00
Gallons in Well 2.11
Pump Intake (ft-bmp) 14.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.04
Sample Time: Label 10:15
Volume Purged 2.2 gallons
Replicate/Code No. --
Sampled by Xenia Chan
Purge Start 9:16
Purge End 10:13

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:17	0	150	5.91	0.00	6.95	1.51	5.06	2.20	11.9	107.3	Clear	No Odor
9:22	5	150	5.81	0.20	6.84	1.58	3.11	0.60	12.8	56.5	Clear	No Odor
9:27	5	150	5.81	0.40	6.72	1.56	3.21	0.34	12.8	0.9	Clear	No Odor
9:32	5	150	5.81	0.60	6.91	1.46	2.50	0.25	13.0	-60.4	Clear	No Odor
9:37	5	150	5.81	0.80	6.89	1.37	15.60	0.22	13.0	-87.7	Clear, Small White Particulates	No Odor
9:42	5	150	5.81	1.00	6.89	1.31	15.10	0.20	13.0	-112.5	Clear, Small White Particulates	No Odor
9:47	5	150	5.81	1.20	6.89	1.27	14.00	0.17	13.0	-123.7	Clear	No Odor
9:52	5	150	5.81	1.40	6.88	1.26	13.30	0.19	13.1	-134.2	Clear	No Odor
9:57	5	150	5.81	1.60	6.90	1.26	14.00	0.18	13.0	-142.0	Clear	No Odor
10:02	5	150	5.81	1.80	6.91	1.25	10.10	0.17	13.0	-147.6	Clear	No Odor
10:07	5	150	5.81	2.00	6.91	1.25	9.30	0.16	13.0	-152.5	Clear	No Odor
10:12	5	150	5.81	2.20	6.91	1.24	10.10	0.15	13.2	-157.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot ***1" = 0.04*** ***1.25" = 0.06*** ***1.5" = 0.09*** ***2" = 0.16*** ***2.5" = 0.26*** ***3" = 0.37*** ***3.5" = 0.50*** ***4" = 0.65*** ***6" = 1.47***

Well Information

Well Location: Inside test track
Well Locked at Arrival: n/a
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

APPENDIX C

Off-Site Groundwater Field Sampling Logs

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-72			Date	11-5-19
Project Name/Location			Ford LTP	Weather	44.96 degrees F, Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.54	Total Depth (ft-bmp)	19.65	Water Column (ft.)	11.11	Gallons in Well	1.81
		Pump Intake (ft-bmp)	17.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.70				
Sample Time: Label	15:54	Volume Purged	1.26 gallons	Replicate/Code No.	--	Sampled by	Julia McClafferty
Purge Start	15:21						
Purge End	15:54						

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Odor
15:23	0	160	8.55	0.00	7.58	6.87	2.21	0.87	16.8	-16.2	Clear	No Odor
15:28	5	160	8.55	0.21	7.57	6.54	2.17	0.32	17.0	-65.9	Clear	No Odor
15:33	5	160	8.55	0.42	7.59	6.09	1.91	0.26	17.1	-81.3	Clear	No Odor
15:38	5	160	8.55	0.63	7.59	5.88	1.74	0.26	17.1	-91.1	Clear	No Odor
15:43	5	160	8.55	0.84	7.60	5.75	1.83	0.21	17.1	-96.1	Clear	No Odor
15:48	5	160	8.55	1.05	7.60	5.71	2.88	0.18	17.2	-98.6	Clear	No Odor
15:53	5	160	8.55	1.26	7.60	5.65	1.64	0.23	17.2	-100.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot

1" = 0.04
1.25" = 0.06
1.5" = 0.09
2" = 0.16
2.5" = 0.26
3" = 0.37
3.5" = 0.50
4" = 0.65
6" = 1.47

Well Information

Well Location:	12350 Belden Court	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-72S			Date	11-6-19
Project Name/Location			Ford LTP	Weather	35.96 degrees F, Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	3-13	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.71	Total Depth (ft-bmp)	13.01	Water Column (ft.)	4.30	Gallons in Well	0.70
		Pump Intake (ft-bmp)	10.21	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.57				
Sample Time: Label	12:26	Volume Purged	1.8 gallons	Replicate/Code No.	--	Sampled by	Julia McClafferty
Purge Start	11:37						
Purge End	12:26						

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:39	0	150	8.73	0.00	7.44	1.33	22.90	3.65	17.0	-46.9	Clear	No Odor
11:44	5	150	8.76	0.20	7.36	1.34	14.50	3.24	17.1	-45.3	Clear	No Odor
11:49	5	150	8.76	0.40	7.35	1.41	9.09	3.04	17.2	-46.9	Clear	No Odor
11:54	5	150	8.76	0.60	7.35	1.45	5.82	2.78	17.3	-49.8	Clear	No Odor
11:59	5	150	8.76	0.80	7.34	1.51	4.16	2.90	17.2	-50.2	Clear	No Odor
12:04	5	150	8.77	1.00	7.34	1.52	2.62	2.48	17.3	-49.2	Clear	No Odor
12:09	5	150	8.77	1.20	7.34	1.53	2.22	2.84	17.5	-48.2	Clear	No Odor
12:14	5	150	8.70	1.40	7.34	1.54	1.58	2.53	17.4	-46.1	Clear	No Odor
12:19	5	150	8.77	1.60	7.35	1.55	0.79	2.49	17.5	-43.9	Clear	No Odor
12:24	5	150	8.77	1.80	7.35	1.58	1.10	2.36	17.4	-40.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	12350 Belden	Well Locked at Arrival:	yes
Condition of Well:	Broken thread tabs,Fair	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-73D
Date 11-11-19
Project Name/Location Ford LTP
Weather 30.92 degrees F, Snow and Fog
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 13.5-18.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.36
Total Depth (ft-bmp) 17.39
Water Column (ft.) 11.03
Gallons in Well 1.79
Pump Intake (ft-bmp) 16.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.44
Sample Time: Label 12:10
Volume Purged 2.57 gallons
Replicate/Code No. --
Sampled by Julia McClafferty
Purge Start 11:09
Purge End 12:10

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:09	0	160	6.52	0.00	7.62	3.55	25.70	1.65	15.7	-100.5	Clear, Small Brown Particulates	No Odor
11:14	5	160	6.42	0.21	7.54	3.57	15.20	0.53	14.6	-99.4	Small Brown Particulates	No Odor
11:19	5	170	6.37	0.42	7.55	3.51	6.54	0.36	14.9	-100.0	Small Brown Particulates	No Odor
11:24	5	170	6.48	0.64	7.54	3.56	1.15	0.31	16.4	-99.2	Clear	No Odor
11:29	5	170	6.48	0.86	7.52	3.75	0.02	0.38	16.3	-94.7	Clear	No Odor
11:34	5	170	6.45	1.08	7.51	3.92	0.02	0.72	16.1	-90.7	Clear	No Odor
11:39	5	160	6.46	1.30	7.50	4.05	3.87	0.46	16.2	-88.2	Clear	No Odor
11:44	5	160	6.47	1.51	7.50	4.26	0.02	0.22	16.4	-86.0	Clear	No Odor
11:49	5	170	6.48	1.72	7.47	4.54	0.20	0.36	16.4	-82.3	Clear	No Odor
11:54	5	160	6.46	1.94	7.46	4.72	0.02	0.30	16.4	-79.4	Clear	No Odor
11:59	5	160	6.46	2.15	7.45	4.90	0.02	0.27	16.3	-76.7	Clear	No Odor
12:04	5	160	6.45	2.36	7.44	5.09	0.02	0.37	16.0	-73.3	Clear	No Odor
12:09	5	160	6.46	2.57	7.44	5.23	0.02	0.25	16.0	-71.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: 12250 Belden
Well Locked at Arrival: yes
Condition of Well: Broken thread tabs,Missing bolts,Poor
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00002
Well ID MW-73SR
Date 11-11-19
Project Name/Location Ford LTP
Weather 30.02 degrees F, Light Snow and Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.40
Total Depth (ft-bmp) 12.40
Water Column (ft.) 6.00
Gallons in Well 0.97
Pump Intake (ft-bmp) 7.90
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.44
Sample Time: Label 13:10
Volume Purged 1.4 gallons
Replicate/Code No. --
Sampled by Julia McClafferty
Purge Start 12:37
Purge End 13:10

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:38	0	190	6.41	0.00	6.87	5.60	13.50	7.46	16.1	-54.3	Clear, Small Orange Particulates	No Odor
12:43	5	175	6.41	0.25	6.90	6.58	11.10	7.62	15.9	-42.0	Clear, Small Orange Particulates	No Odor
12:48	5	175	6.41	0.48	6.91	7.31	4.51	7.23	16.3	-36.5	Clear, Small Brown Particulates	No Odor
12:53	5	175	6.41	0.71	6.92	7.71	0.02	7.09	16.3	-37.4	Clear	No Odor
12:58	5	175	6.42	0.94	6.94	7.88	0.02	6.82	16.4	-38.7	Clear	No Odor
13:03	5	175	6.42	1.17	6.95	7.93	0.02	6.66	16.3	-39.9	Clear	No Odor
13:08	5	175	6.42	1.40	6.95	7.94	0.02	6.57	16.5	-40.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 12250 Belden
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-74			Date	11-11-19
Project Name/Location	Ford LTP			Weather	30.92 degrees F, Snow and Fog		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	14-19	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.23	Total Depth (ft-bmp)	18.78	Water Column (ft.)	11.55	Gallons in Well	1.88
		Pump Intake (ft-bmp)	16.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.89				
Sample Time: Label	10:14	Volume Purged	1.67 gallons	Replicate/Code No.	DUP-06	Sampled by	Julia McClafferty
Purge Start	9:28						
Purge End	10:14						

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:28	0	150	7.28	0.00	7.33	5.08	0.02	7.11	15.6	-23.6	Clear	No Odor
9:33	5	150	7.25	0.20	7.35	5.06	0.02	6.32	16.0	-57.6	Clear	No Odor
9:38	5	150	7.25	0.40	7.34	5.59	0.02	6.81	16.1	-76.4	Clear	No Odor
9:43	5	150	7.25	0.60	7.32	5.96	1.04	6.27	16.2	-82.5	Clear	No Odor
9:48	5	50	7.25	0.80	7.32	6.22	0.02	6.18	16.1	-85.0	Clear	No Odor
9:53	5	150	7.26	0.87	7.31	6.48	0.02	6.12	16.1	-86.5	Clear	No Odor
9:58	5	150	7.25	1.07	7.31	6.55	0.02	5.74	16.0	-87.8	Clear	No Odor
10:03	5	150	7.26	1.27	7.31	6.55	0.02	5.38	16.0	-88.6	Clear	No Odor
10:08	5	150	7.25	1.47	7.31	6.60	0.02	5.18	15.9	-89.3	Clear	No Odor
10:13	5	150	7.26	1.67	7.31	6.66	0.02	5.24	15.6	-89.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	6	HCL
1,4-dioxane	40 mL Glass	6	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	12182 Belden	Well Locked at Arrival:	yes
Condition of Well:	Broken thread tabs, Fair	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-74S			Date	11-6-19
Project Name/Location			Ford LTP	Weather	30.92 degrees F, Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	3-13	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.27	Total Depth (ft-bmp)	12.77	Water Column (ft.)	5.50	Gallons in Well	0.89
		Pump Intake (ft-bmp)	8.77	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.65				
Sample Time: Label	9:20	Volume Purged	1.47 gallons	Replicate/Code No.	--	Sampled by	Julia McClafferty
Purge Start	8:39						
Purge End	9:20						

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
8:44	0	160	7.28	0.00	6.68	7.69	3.53	1.28	16.8	119.3	Clear	No Odor
8:49	5	160	7.28	0.21	6.74	7.99	5.07	0.76	16.9	51.1	Clear	No Odor
8:54	5	160	7.28	0.42	6.80	8.34	3.63	0.52	17.1	5.8	Clear	No Odor
8:59	5	160	7.28	0.63	6.83	8.48	3.05	0.52	17.1	-10.6	Clear	No Odor
9:04	5	160	7.28	0.84	6.83	8.55	1.30	0.62	17.2	-16.6	Clear	No Odor
9:09	5	160	7.28	1.05	6.84	8.58	2.31	0.54	17.1	-20.4	Clear	No Odor
9:14	5	160	7.29	1.26	6.84	8.59	0.91	0.53	17.1	-23.0	Clear	No Odor
9:19	5	160	7.29	1.47	6.84	8.60	1.81	0.51	17.2	-26.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	12182 Belden	Well Locked at Arrival:	yes
Condition of Well:	Missing bolts	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00002
Well ID MW-75D
Date 11-26-19
Project Name/Location Ford LTP
Weather 35.96 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 12-17
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.99
Total Depth (ft-bmp) 16.66
Water Column (ft.) 10.67
Gallons in Well 1.73
Pump Intake (ft-bmp) 14.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.39
Sample Time: Label 14:05
Volume Purged 2.4 gallons
Replicate/Code No. --
Sampled by Shantel Johnson
Purge Start 12:58
Purge End 14:10

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:00	0	150	6.08	0.00	7.64	5.72	415.00	0.20	15.4	-28.4	White	No Odor
13:05	5	150	6.08	0.20	7.66	5.74	431.00	0.16	15.4	-143.5	White	No Odor
13:10	5	150	6.09	0.40	7.66	5.75	412.00	0.14	15.4	-165.2	White	No Odor
13:15	5	150	6.09	0.60	7.65	5.75	335.00	0.12	15.3	-205.5	White	No Odor
13:20	5	150	6.09	0.80	7.71	5.72	273.00	0.05	16.0	-240.0	White	No Odor
13:25	5	150	6.08	1.00	7.66	5.47	209.00	0.05	16.0	-259.6	White	No Odor
13:30	5	150	6.08	1.20	7.75	5.12	108.00	0.07	15.8	-279.9	White	No Odor
13:35	5	150	6.09	1.40	7.71	4.99	105.00	0.05	15.6	-282.2	White	No Odor
13:40	5	150	6.09	1.60	7.65	4.93	86.20	0.06	15.9	-282.2	White	No Odor
13:45	5	150	6.09	1.80	7.61	4.84	80.70	0.06	15.6	-281.6	White	No Odor
13:50	5	150	6.09	2.00	7.54	4.76	81.10	0.07	15.6	-279.3	White	No Odor
13:55	5	150	6.09	2.20	7.53	4.76	78.30	0.06	15.6	-249.0	White	No Odor
14:00	5	150	6.09	2.40	7.88	3.41	76.60	0.08	15.6	-241.2	White	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments
High turbidity (stabilized around 89 NTU)

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Belden Court
Well Locked at Arrival: yes
Condition of Well: Broken thread tabs, Poor
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-75SR
Date 11-26-19
Project Name/Location Ford LTP
Weather 48.02 degrees F, Mostly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.09
Total Depth (ft-bmp) 12.37
Water Column (ft.) 6.28
Gallons in Well 1.02
Pump Intake (ft-bmp) 7.59
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.18
Sample Time: Label 12:40
Volume Purged 1.2 gallons
Replicate/Code No. --
Sampled by Shantel Johnson
Purge Start 12:03
Purge End 12:45

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:05	0	150	6.13	0.00	7.66	1.27	1.37	0.59	14.0	117.5	Clear	No Odor
12:10	5	150	6.13	0.20	7.64	1.19	1.70	0.36	14.0	107.2	Clear	No Odor
12:15	5	150	6.13	0.40	7.63	1.17	1.41	0.34	13.9	91.5	Clear	No Odor
12:20	5	150	6.13	0.60	7.61	1.18	1.57	0.27	14.1	85.4	Clear	No Odor
12:25	5	150	6.13	0.80	7.63	1.20	1.35	0.23	14.1	68.6	Clear	No Odor
12:29	4	150	6.13	0.96	7.65	1.20	1.51	0.27	13.9	57.9	Clear	No Odor
12:32	3	150	6.13	1.08	7.65	1.21	1.36	0.25	14.0	52.0	Clear	No Odor
12:35	3	150	6.13	1.20	7.66	1.21	1.48	0.21	14.1	48.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot ***1" = 0.04*** ***1.25" = 0.06*** ***1.5" = 0.09*** ***2" = 0.16*** ***2.5" = 0.26*** ***3" = 0.37*** ***3.5" = 0.50*** ***4" = 0.65*** ***6" = 1.47***

Well Information

Well Location: Belden Court
Well Locked at Arrival: yes
Condition of Well: Broken thread tabs,Fair
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-76			Date	11-20-19
Project Name/Location			Ford LTP	Weather			37.04 degrees F, Fog/Mist
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.79	Total Depth (ft-bmp)	19.62	Water Column (ft.)	9.83	Gallons in Well	1.60
		Pump Intake (ft-bmp)	17.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.49				
Sample Time: Label	10:31	Volume Purged	2.38 gallons	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	9:27						
Purge End	10:31						

Mary-Catherine

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:29	0	140	9.80	0.00	7.20	10.61	0.02	1.12	15.5	164.5	Clear, Small White Particulates	No Odor
9:34	5	150	9.80	0.18	7.34	10.09	0.02	0.57	16.1	148.2	Clear, Small White Particulates	No Odor
9:39	5	150	9.80	0.38	7.40	9.46	0.02	0.44	16.1	132.2	Clear, Small White Particulates	No Odor
9:44	5	150	9.80	0.58	7.41	9.04	0.02	0.38	16.2	119.9	Clear, Small White Particulates	No Odor
9:49	5	150	9.80	0.78	7.41	8.87	0.02	0.31	16.0	109.9	Clear	No Odor
9:54	5	150	9.80	0.98	7.41	8.78	0.02	0.29	16.3	96.9	Clear	No Odor
9:59	5	150	9.80	1.18	7.40	8.73	0.02	0.29	16.3	88.0	Clear	No Odor
10:04	5	150	9.80	1.38	7.40	8.73	0.02	0.31	16.3	80.5	Clear	No Odor
10:09	5	150	9.80	1.58	7.40	8.74	0.02	0.35	16.4	74.6	Clear	No Odor
10:14	5	150	9.80	1.78	7.40	8.75	0.02	0.42	16.4	67.4	Clear	No Odor
10:19	5	150	9.80	1.98	7.40	8.76	0.02	0.51	16.3	60.9	Clear	No Odor
10:24	5	150	9.80	2.18	7.40	8.76	0.02	0.59	16.5	53.2	Clear	No Odor
10:29	5	150	9.80	2.38	7.40	8.76	0.02	0.66	16.4	47.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Near Northstar sign, 35200 Belden Ct	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-76S
Date 11-5-19
Project Name/Location Ford LTP
Weather 39.92 degrees F, Mostly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 4.5-14.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 9.62
Total Depth (ft-bmp) 14.15
Water Column (ft.) 4.53
Gallons in Well 0.74
Pump Intake (ft-bmp) 11.12
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.24
Sample Time: Label 10:54
Volume Purged 2.4 gallons
Replicate/Code No. MW-76S-MS/MSD_110519
Sampled by Julia McClafferty
Purge Start 9:50
Purge End 10:54

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:51	0	150	9.64	0.00	7.49	3.36	65.40	0.98	17.7	150.7	Small Orange Particulates	No Odor
9:56	5	150	9.64	0.20	7.38	3.65	33.20	0.49	17.9	87.3	Small Orange Particulates	No Odor
10:01	5	150	9.64	0.40	7.33	4.14	21.00	0.46	18.0	77.6	Small Orange Particulates	No Odor
10:06	5	150	9.64	0.60	7.33	4.30	10.50	0.40	18.0	68.6	Small Orange Particulates	No Odor
10:11	5	150	9.64	0.80	7.33	4.35	5.54	0.55	18.0	52.1	Clear	No Odor
10:16	5	150	9.64	1.00	7.33	4.42	4.94	0.46	18.1	35.8	Clear	No Odor
10:21	5	150	9.64	1.20	7.33	4.41	3.57	0.53	18.1	19.6	Clear	No Odor
10:26	5	150	9.64	1.40	7.33	4.41	3.93	0.51	18.2	7.8	Clear	No Odor
10:31	5	150	9.64	1.60	7.33	4.43	3.40	0.52	18.1	-0.7	Clear	No Odor
10:36	5	150	9.65	1.80	7.33	4.44	2.54	0.53	18.1	-8.8	Clear	No Odor
10:41	5	150	9.65	2.00	7.33	4.44	1.80	0.54	18.0	-14.5	Clear	No Odor
10:46	5	150	9.64	2.20	7.33	4.44	1.97	0.55	18.0	-19.9	Clear	No Odor
10:51	5	150	9.64	2.40	7.33	4.45	1.17	0.58	18.0	-24.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	9	HCL
1,4-dioxane	40 mL Glass	9	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: In front of NovaStar sign
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-77
Date 11-22-19
Project Name/Location Ford LTP
Weather 35.06 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 9-14
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.22
Total Depth (ft-bmp) 13.71
Water Column (ft.) 8.49
Gallons in Well 1.38
Pump Intake (ft-bmp) 11.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.96
Sample Time: Label 14:15
Volume Purged 1.32 gallons
Replicate/Code No. MW-77-MS_112219
Sampled by Shantel Johnson
Purge Start 13:38
Purge End 14:25

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:40	0	150	5.26	0.00	7.89	1.00	1.88	0.67	13.5	111.0	Clear	No Odor
13:45	5	150	5.26	0.20	7.88	1.00	1.73	0.61	13.5	108.7	Clear	No Odor
13:50	5	150	5.26	0.40	7.87	1.04	1.36	0.46	13.8	92.8	Clear	No Odor
13:55	5	150	5.26	0.60	7.80	1.18	0.56	0.34	14.0	93.5	Clear	No Odor
14:00	5	150	5.26	0.80	7.72	1.41	0.02	0.26	14.1	83.9	Clear	No Odor
14:05	5	150	5.26	1.00	7.71	1.57	0.02	0.23	14.2	81.9	Clear	No Odor
14:10	5	150	5.26	1.20	7.69	1.58	0.02	0.20	14.2	77.6	Clear	No Odor
14:13	3	150	5.26	1.32	7.68	1.58	0.02	0.33	14.2	72.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	9	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	9	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 11710 Boston Post
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-77S
Date 11-22-19
Project Name/Location Ford LTP
Weather 35.96 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.16
Total Depth (ft-bmp) 12.16
Water Column (ft.) 7.00
Gallons in Well 1.14
Pump Intake (ft-bmp) 6.66
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.05
Sample Time: Label 15:10
Volume Purged 1.2 gallons
Replicate/Code No. --
Sampled by Shantel Johnson
Purge Start 14:32
Purge End 15:15

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:35	0	150	5.20	0.00	7.74	0.96	2.37	0.37	13.8	24.6	Clear	No Odor
14:40	5	150	5.20	0.20	7.74	0.96	1.94	0.34	13.8	24.9	Clear	No Odor
14:45	5	150	5.20	0.40	7.74	0.98	1.48	0.27	13.8	25.2	Clear	No Odor
14:50	5	150	5.21	0.60	7.72	1.03	0.66	0.22	14.1	26.8	Clear	No Odor
14:55	5	150	5.21	0.80	7.71	1.07	0.02	0.20	14.2	27.2	Clear	No Odor
14:59	4	150	5.21	0.96	7.72	1.14	0.02	0.22	14.2	27.2	Clear	No Odor
15:02	3	150	5.21	1.08	7.76	1.14	0.02	0.23	14.1	27.9	Clear	No Odor
15:05	3	150	5.21	1.20	7.77	1.16	0.02	0.25	14.1	26.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: 11710 Boston Post
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-78			Date	11-14-19
Project Name/Location			Ford LTP	Weather			28.04 degrees F, Cloudy
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	7-12	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	2.78	Total Depth (ft-bmp)	11.78	Water Column (ft.)	9.00	Gallons in Well	1.46
		Pump Intake (ft-bmp)	9.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.68				
Sample Time: Label	10:37	Volume Purged	0.99 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	9:55						
Purge End	10:35						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:55	0	100	2.78	0.00	7.43	4.19	12.10	1.58	12.0	119.3	Small Orange Particulates	No Odor
10:00	3	100	2.78	0.08	7.35	4.59	32.90	0.62	11.3	116.5	Small Orange Particulates	No Odor
10:05	5	100	2.78	0.21	7.35	4.50	12.50	0.33	11.4	112.3	Small Orange Particulates	No Odor
10:10	5	100	2.78	0.34	7.37	4.20	11.50	0.37	10.9	108.2	Small Orange Particulates	No Odor
10:15	5	100	2.78	0.47	7.38	3.88	10.30	0.37	10.8	103.9	Small Orange Particulates	No Odor
10:20	5	100	2.78	0.60	7.40	3.68	12.60	0.38	11.2	100.6	Small Orange Particulates	No Odor
10:25	5	100	2.78	0.73	7.42	3.49	11.90	0.34	11.2	97.8	Small Orange Particulates	No Odor
10:30	5	100	2.78	0.86	7.42	3.47	11.40	0.37	11.4	96.7	Small Orange Particulates	No Odor
10:35	5	100	2.78	0.99	7.43	3.45	10.90	0.41	11.1	94.7	Small Orange Particulates	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	Directly in line with E window	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-78S
Date 11-14-19
Project Name/Location Ford LTP
Weather 28.94 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 3.09
Total Depth (ft-bmp) 12.40
Water Column (ft.) 9.31
Gallons in Well 1.51
Pump Intake (ft-bmp) 4.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.60
Sample Time: Label 11:32
Volume Purged 0.91 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 10:55
Purge End 11:30

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:55	0	100	3.10	0.00	7.44	0.85	0.02	1.05	9.1	43.8	Clear	No Odor
11:00	5	100	3.10	0.13	7.33	0.71	0.02	0.44	9.4	45.3	Clear	No Odor
11:05	5	100	3.10	0.26	7.32	0.69	0.02	0.27	9.7	47.0	Clear	No Odor
11:10	5	100	3.10	0.39	7.30	0.68	0.02	0.27	9.4	48.1	Clear	No Odor
11:15	5	100	3.10	0.52	7.30	0.68	0.02	0.23	9.4	49.3	Clear	No Odor
11:20	5	100	3.10	0.65	7.32	0.91	0.02	0.20	9.5	66.6	Clear	No Odor
11:25	5	100	3.10	0.78	7.33	0.92	0.02	0.35	9.5	70.8	Clear	No Odor
11:30	5	100	3.10	0.91	7.34	0.93	0.02	0.19	9.5	72.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: 4 ft E of 78
Well Locked at Arrival: no
Condition of Well: Good
Well Locked at Departure: no
Well Completion: Flush mount
Lock Functioning: no

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-79D			Date	11-12-19
Project Name/Location			Ford LTP	Weather	23.00 degrees F, Partly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	10-15	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.76	Total Depth (ft-bmp)	14.63	Water Column (ft.)	8.87	Gallons in Well	1.44
		Pump Intake (ft-bmp)	12.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.72				
Sample Time: Label	14:57	Volume Purged	1.04 gallons	Replicate/Code No.	DUP-02	Sampled by	Heather Woodrum
Purge Start	14:15						
Purge End	14:55						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:15	0	100	5.76	0.00	7.09	3.03	0.02	1.59	10.4	133.3	Clear	No Odor
14:20	5	100	5.76	0.13	7.10	3.15	0.02	0.93	10.5	125.7	Clear	No Odor
14:25	5	100	5.76	0.26	7.08	3.11	0.02	0.72	10.8	118.2	Clear	No Odor
14:30	5	100	5.76	0.39	7.06	3.05	0.02	0.58	10.8	113.4	Clear	No Odor
14:35	5	100	5.76	0.52	7.05	2.97	0.02	0.47	11.0	40.0	Clear	No Odor
14:40	5	100	5.76	0.65	7.06	2.92	0.02	0.43	11.2	82.7	Clear	No Odor
14:45	5	100	5.76	0.78	7.05	2.89	0.02	0.44	11.1	101.7	Clear	No Odor
14:50	5	100	5.76	0.91	7.05	2.86	0.02	0.40	11.2	98.1	Clear	No Odor
14:55	5	100	5.76	1.04	7.05	2.84	0.02	0.36	11.4	93.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	6	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	6	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	In front of flag	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-79SR
Date 11-13-19
Project Name/Location Ford LTP
Weather 14.00 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.61
Total Depth (ft-bmp) 12.78
Water Column (ft.) 7.17
Gallons in Well 1.17
Pump Intake (ft-bmp) 7.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.67
Sample Time: Label 11:02
Volume Purged 0.78 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 10:30
Purge End 11:00

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:30	0	100	5.63	0.00	7.23	0.65	0.02	1.47	10.0	39.4	Clear	No Odor
10:35	5	100	5.63	0.13	7.15	0.68	0.02	0.86	10.0	55.7	Clear	No Odor
10:40	5	100	5.63	0.26	7.20	1.07	0.02	0.53	10.4	70.2	Clear	No Odor
10:45	5	100	5.63	0.39	7.16	1.18	0.02	0.44	10.7	73.0	Clear	No Odor
10:50	5	100	5.63	0.52	7.16	1.31	0.02	0.46	9.8	73.4	Clear	No Odor
10:55	5	100	5.63	0.65	7.17	1.31	0.02	0.40	10.0	74.0	Clear	No Odor
11:00	5	100	5.63	0.78	7.16	1.34	0.02	0.35	10.0	73.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: In line with shutter
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002

Well ID MW-80SR

Date 11-5-19

Project Name/Location Ford LTP

Weather 44.96 degrees F, Mostly Cloudy

Measuring Pt. Description Top of Casing

Screen Setting (ft-bmp) 2.5-12.5

Casing Diameter (in.) 2

Well Material PVC

Static Water Level (ft-bmp) 2.92

Total Depth (ft-bmp) 12.25

Water Column (ft.) 9.33

Gallons in Well 1.52

Pump Intake (ft-bmp) 4.50

Purge Method Low-Flow

Sample Method Low-Flow

Well Volumes Purged 0.60

Sample Time: Label 16:02

Volume Purged 0.91 gallons

Replicate/Code No. DUP-04

Sampled by Heather Woodrum

Purge Start 15:25

Purge End 16:00

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:25	0	100	2.95	0.00	7.15	2.37	16.70	2.87	13.3	142.9	Clear	No Odor
15:30	5	100	2.95	0.13	7.06	2.43	13.40	0.83	14.2	120.4	Clear	No Odor
15:35	5	100	2.95	0.26	7.06	2.46	12.40	0.34	14.5	108.9	Clear	No Odor
15:40	5	100	2.95	0.39	7.06	2.47	11.60	0.21	14.7	100.5	Clear	No Odor
15:45	5	100	2.95	0.52	7.06	2.48	10.60	0.16	14.8	91.4	Clear	No Odor
15:50	5	100	2.95	0.65	7.06	2.48	7.86	0.13	14.8	85.5	Clear	No Odor
15:55	5	100	2.95	0.78	7.06	2.48	7.54	0.13	14.8	82.4	Clear	No Odor
16:00	5	100	2.95	0.91	7.06	2.51	7.20	0.19	14.6	75.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	6	HCL
1,4-dioxane	40 mL Glass	6	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Next to driveway

Well Locked at Arrival: yes

Condition of Well: Good

Well Locked at Departure: yes

Well Completion: Flush mount

Lock Functioning: yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-81
Date 11-7-19
Project Name/Location Ford LTP
Weather 30.92 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 8-13
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.26
Total Depth (ft-bmp) 12.68
Water Column (ft.) 5.42
Gallons in Well 0.88
Pump Intake (ft-bmp) 10.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.94
Sample Time: Label 10:32
Volume Purged 0.83 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 10:00
Purge End 10:30

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:00	0	100	7.39	0.00	7.13	1.84	4.44	1.37	13.3	141.0	Clear	No Odor
10:05	7	100	7.48	0.18	7.28	1.93	0.90	0.59	14.2	114.1	Clear	No Odor
10:10	5	100	7.52	0.31	7.24	1.93	0.02	0.59	14.2	116.4	Clear	No Odor
10:15	5	100	7.57	0.44	7.26	1.93	0.02	0.45	14.7	114.9	Clear	No Odor
10:20	5	100	7.61	0.57	7.27	1.95	0.02	0.42	14.6	114.0	Clear	No Odor
10:25	5	100	7.62	0.70	7.24	1.96	0.02	0.36	14.4	111.4	Clear	No Odor
10:30	5	100	7.66	0.83	7.25	1.96	0.02	0.34	14.5	109.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Corner of Stark and beacon, 20 ft N of street sign, 5 feet west
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-81S			Date	11-7-19
Project Name/Location			Ford LTP	Weather			32.00 degrees F, Cloudy
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.55	Total Depth (ft-bmp)	12.54	Water Column (ft.)	4.99	Gallons in Well	0.81
		Pump Intake (ft-bmp)	9.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.96				
Sample Time: Label	11:22	Volume Purged	0.78 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	10:50						
Purge End	11:20						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:50	0	100	7.80	0.00	7.41	1.42	3.63	0.99	13.3	109.2	Clear	No Odor
10:55	5	100	7.97	0.13	7.40	1.44	2.19	0.55	14.6	106.7	Clear	No Odor
11:00	5	100	8.01	0.26	7.37	1.45	0.74	0.44	13.8	108.6	Clear	No Odor
11:05	5	100	8.01	0.39	7.39	1.45	1.31	0.33	14.3	106.7	Clear	No Odor
11:10	5	100	8.01	0.52	7.39	1.45	1.54	0.32	14.6	107.4	Clear	No Odor
11:15	5	100	8.01	0.65	7.39	1.45	1.19	0.26	14.3	106.2	Clear	No Odor
11:20	5	100	8.01	0.78	7.39	1.45	2.25	0.20	14.7	106.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	S of 81	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-82D
Date 11-7-19
Project Name/Location Ford LTP
Weather 33.08 degrees F, Mostly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 18-23
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 8.31
Total Depth (ft-bmp) 22.73
Water Column (ft.) 14.42
Gallons in Well 2.34
Pump Intake (ft-bmp) 20.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.33
Sample Time: Label 12:32
Volume Purged 0.78 gallons
Replicate/Code No. MW-82D-MS_110719, MW-82D-MSD_110719
Sampled by Heather Woodrum
Purge Start 12:00
Purge End 12:30

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:00	0	100	8.34	0.00	7.33	0.84	0.30	2.41	13.6	81.5	Clear	No Odor
12:05	5	100	8.34	0.13	7.34	0.87	0.80	0.93	13.2	81.3	Clear	No Odor
12:10	5	100	8.34	0.26	7.33	0.92	1.47	0.66	13.6	79.8	Clear	No Odor
12:15	5	100	8.34	0.39	7.32	0.94	0.56	0.40	13.6	77.7	Clear	No Odor
12:20	5	100	8.34	0.52	7.28	0.96	0.02	0.37	13.4	76.6	Clear	No Odor
12:25	5	100	8.34	0.65	7.29	0.97	0.87	0.23	13.8	72.3	Clear	No Odor
12:30	5	100	8.34	0.78	7.29	0.97	0.19	0.26	13.8	69.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	9	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	9	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 10 ft off road, 15 ft S of light pole
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-82SR			Date	11-7-19
Project Name/Location	Ford LTP			Weather	33.98 degrees F, Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	5-15	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.20	Total Depth (ft-bmp)	16.12	Water Column (ft.)	7.92	Gallons in Well	1.29
		Pump Intake (ft-bmp)	9.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.60				
Sample Time: Label	13:32	Volume Purged	0.78 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	13:00						
Purge End	13:30						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
13:00	0	100	8.30	0.00	7.16	0.88	0.07	2.06	13.4	50.4	Clear	No Odor
13:05	5	100	8.42	0.13	7.16	0.90	3.42	2.30	13.8	51.5	Clear	No Odor
13:10	5	100	8.46	0.26	7.15	0.91	4.78	1.21	13.7	54.6	Clear	No Odor
13:15	5	100	8.46	0.39	7.12	0.91	3.28	1.25	13.6	57.3	Clear	No Odor
13:20	5	100	8.49	0.52	7.11	0.91	3.30	0.97	13.5	58.9	Clear	No Odor
13:25	5	100	8.49	0.65	7.12	0.90	1.35	1.07	13.7	58.3	Clear	No Odor
13:30	5	100	8.49	0.78	7.13	0.91	1.45	1.06	13.4	58.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04* *1.25" = 0.06*	*1.5" = 0.09* *2" = 0.16*	*2.5" = 0.26* *3" = 0.37*	*3.5" = 0.50* *4" = 0.65*	*6" = 1.47*

Well Information

Well Location:	5 ft S of 82D	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-83			Date	11-5-19
Project Name/Location	Ford LTP			Weather	39.92 degrees F, Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	8-13	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.34	Total Depth (ft-bmp)	12.40	Water Column (ft.)	5.06	Gallons in Well	0.82
		Pump Intake (ft-bmp)	10.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.95				
Sample Time: Label	11:12	Volume Purged	0.78 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	10:40						
Purge End	11:10						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:40	0	100	7.36	0.00	7.35	2.54	0.02	0.75	14.5	131.1	Clear	No Odor
10:45	5	100	7.36	0.13	7.34	2.53	0.02	0.41	14.9	129.4	Clear	No Odor
10:50	5	100	7.36	0.26	7.31	2.51	0.02	0.30	15.1	129.2	Clear	No Odor
10:55	5	100	7.36	0.39	7.28	2.52	0.02	0.23	14.8	130.0	Clear	No Odor
11:00	5	100	7.36	0.52	7.28	2.54	0.02	0.23	15.0	130.0	Clear	No Odor
11:05	5	100	7.36	0.65	7.27	2.56	0.02	0.21	14.8	130.6	Clear	No Odor
11:10	5	100	7.36	0.78	7.26	2.53	0.02	0.17	14.8	130.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	South of 83S	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-83S			Date	11-5-19
Project Name/Location			Ford LTP	Weather	39.92 degrees F, Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	3-13	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.49	Total Depth (ft-bmp)	12.70	Water Column (ft.)	5.21	Gallons in Well	0.85
		Pump Intake (ft-bmp)	9.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.22				
Sample Time: Label	10:22	Volume Purged	1.04 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	9:40						
Purge End	10:20						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:40	0	100	7.50	0.00	7.24	1.60	0.76	3.17	14.8	144.4	Clear	No Odor
9:45	5	100	7.50	0.13	7.31	1.94	0.02	2.97	14.9	130.3	Clear	No Odor
9:50	5	100	7.50	0.26	7.27	2.07	0.02	2.71	15.3	126.3	Clear	No Odor
9:55	5	100	7.50	0.39	7.26	2.10	0.02	2.63	15.0	125.0	Clear	No Odor
10:00	5	100	7.50	0.52	7.26	2.14	0.02	2.52	15.0	125.2	Clear	No Odor
10:05	5	100	7.50	0.65	7.29	2.27	0.02	2.40	15.2	125.6	Clear	No Odor
10:10	5	100	7.50	0.78	7.29	2.34	0.02	2.36	15.2	126.1	Clear	No Odor
10:15	5	100	7.50	0.91	7.29	2.36	0.06	2.30	14.9	126.4	Clear	No Odor
10:20	5	100	7.50	1.04	7.28	2.36	0.02	2.15	15.0	126.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	15 ft off road, in front of far North window	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-84			Date	11-25-19
Project Name/Location	Ford LTP			Weather	37.94 degrees F, Fog/Mist		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	8-13	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.46	Total Depth (ft-bmp)	12.57	Water Column (ft.)	8.11	Gallons in Well	1.32
		Pump Intake (ft-bmp)	10.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.00				
Sample Time: Label	11:15	Volume Purged	1.32 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	10:31						
Purge End	11:20						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:35	0	150	4.49	0.00	7.17	3.67	17.10	0.27	13.8	74.8	Clear	No Odor
10:40	5	150	4.49	0.20	7.19	3.47	14.20	0.16	14.2	45.8	Clear	No Odor
10:45	5	150	4.49	0.40	7.21	3.33	13.30	0.17	14.2	16.8	Clear	No Odor
10:50	5	150	4.49	0.60	7.23	3.31	8.46	0.15	14.2	7.3	Clear	No Odor
10:55	5	150	4.49	0.80	7.23	3.28	5.13	0.15	14.2	-13.3	Clear	No Odor
10:59	4	150	4.49	0.96	7.23	3.26	4.78	0.15	14.4	-22.4	Clear	No Odor
11:02	3	150	4.49	1.08	7.23	3.27	3.07	0.19	14.5	-27.8	Clear	No Odor
11:05	3	150	4.49	1.20	7.23	3.33	2.50	0.23	14.4	-36.6	Clear	No Odor
11:08	3	150	4.90	1.32	7.23	3.28	2.46	0.21	14.5	-37.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	34851 Beacon, within curved driveway	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-84S			Date	11-25-19
Project Name/Location			Ford LTP	Weather	37.94 degrees F, Fog/Mist		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.61	Total Depth (ft-bmp)	12.71	Water Column (ft.)	8.10	Gallons in Well	1.32
		Pump Intake (ft-bmp)	6.11	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.82				
Sample Time: Label	10:15	Volume Purged	2.4 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	9:08						
Purge End	10:11						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:10	0	150	4.65	0.00	8.25	0.49	1.18	7.30	12.0	171.4	Clear	No Odor
9:15	5	150	4.65	0.20	7.76	0.58	0.02	4.33	12.5	190.9	Clear	No Odor
9:20	5	150	4.65	0.40	7.55	0.90	0.02	7.86	12.5	179.7	Clear	No Odor
9:25	5	150	4.65	0.60	7.16	1.31	0.02	7.51	12.6	191.1	Clear	No Odor
9:30	5	150	4.65	0.80	7.25	1.45	0.02	7.22	12.7	176.8	Clear	No Odor
9:35	5	150	4.65	1.00	7.25	1.58	0.02	6.96	12.8	166.8	Clear	No Odor
9:40	5	150	4.65	1.20	7.25	1.87	0.02	6.54	12.9	146.2	Clear	No Odor
9:45	5	150	4.65	1.40	7.25	1.88	0.02	6.53	12.9	145.4	Clear	No Odor
9:50	5	150	4.65	1.60	7.19	1.99	0.02	6.25	13.1	134.0	Clear	No Odor
9:55	5	150	4.65	1.80	7.20	2.11	0.02	5.78	13.2	98.4	Clear	No Odor
10:00	5	150	4.65	2.00	7.19	2.12	0.02	5.75	13.2	97.6	Clear	No Odor
10:05	5	150	4.65	2.20	7.23	2.15	0.02	5.52	13.1	80.2	Clear	No Odor
10:10	5	13	4.65	2.40	7.10	2.18	0.02	5.56	13.1	75.4	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	34851 Beacon, within curved driveway	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-85			Date	11-13-19
Project Name/Location	Ford LTP			Weather	12.02 degrees F, Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	8-13	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.99	Total Depth (ft-bmp)	12.69	Water Column (ft.)	6.70	Gallons in Well	1.09
		Pump Intake (ft-bmp)	10.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.65				
Sample Time: Label	11:10	Volume Purged	1.8 gallons	Replicate/Code No.	DUP-08	Sampled by	Julia McClafferty
Purge Start	10:19						
Purge End	11:10						

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:22	0	150	6.04	0.00	7.28	3.29	9.78	0.86	12.9	-67.7	Clear, Small Orange Particulates	No Odor
10:27	5	150	6.04	0.20	7.27	3.28	5.80	0.34	13.3	-68.0	Clear, Small Orange Particulates	No Odor
10:32	5	150	6.02	0.40	7.26	3.28	3.37	0.28	13.4	-69.9	Clear, Small Orange Particulates	No Odor
10:37	5	150	6.02	0.60	7.26	3.21	5.97	0.26	13.3	-69.5	Clear, Small Orange Particulates	No Odor
10:42	5	150	6.02	0.80	7.27	3.07	10.50	0.30	13.4	-67.7	Clear, Small Orange Particulates	No Odor
10:47	5	150	6.02	1.00	7.26	2.96	5.65	0.37	13.6	-64.4	Clear, Small Orange Particulates	No Odor
10:52	5	150	6.04	1.20	7.26	2.95	5.26	0.32	13.5	-63.7	Clear	No Odor
10:57	5	150	6.04	1.40	7.26	2.94	3.68	0.32	13.6	-63.4	Clear	No Odor
11:02	5	150	6.04	1.60	7.26	2.93	2.72	0.27	13.5	-63.2	Clear	No Odor
11:07	5	150	6.04	1.80	7.25	2.91	1.94	0.21	13.5	-63.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	6	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	6	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	34400 Rosati	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00002
Well ID MW-85SR
Date 11-13-19
Project Name/Location Ford LTP
Weather 10.04 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 4.5-9.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.08
Total Depth (ft-bmp) 8.45
Water Column (ft.) 2.37
Gallons in Well 0.39
Pump Intake (ft-bmp) 7.58
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.08
Sample Time: Label 9:45
Volume Purged 1.2 gallons
Replicate/Code No. --
Sampled by Julia McClafferty
Purge Start 9:10
Purge End 9:45

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:12	0	150	6.09	0.00	7.10	2.57	38.20	0.61	11.6	25.1	Clear, Small Orange Particulates	No Odor
9:17	5	150	6.10	0.20	7.10	2.59	19.30	0.58	11.7	6.7	Clear, Small Orange Particulates	No Odor
9:22	5	150	6.10	0.40	7.11	2.59	11.10	0.47	12.0	-13.5	Clear	No Odor
9:27	5	150	6.10	0.60	7.11	2.57	3.51	0.52	12.2	-26.8	Clear	No Odor
9:32	5	150	6.10	0.80	7.11	2.57	2.52	0.34	12.3	-33.1	Clear	No Odor
9:37	5	150	6.10	1.00	7.11	2.57	0.72	0.40	12.4	-34.5	Clear	No Odor
9:42	5	150	6.10	1.20	7.11	2.57	2.55	0.34	12.4	-35.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot ***1" = 0.04*** ***1.25" = 0.06*** ***1.5" = 0.09*** ***2" = 0.16*** ***2.5" = 0.26*** ***3" = 0.37*** ***3.5" = 0.50*** ***4" = 0.65*** ***6" = 1.47***

Well Information

Well Location: 34400 Rosati
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00002
Well ID MW-86
Date 11-25-19
Project Name/Location Ford LTP
Weather 37.94 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 12-17
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.52
Total Depth (ft-bmp) 16.61
Water Column (ft.) 9.09
Gallons in Well 1.48
Pump Intake (ft-bmp) 14.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.30
Sample Time: Label 14:15
Volume Purged 1.92 gallons
Replicate/Code No. --
Sampled by Shantel Johnson
Purge Start 13:18
Purge End 14:20

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:20	0	150	7.56	0.00	7.16	0.69	1.25	4.25	14.4	55.8	Clear	No Odor
13:25	5	150	7.56	0.20	7.32	0.73	0.68	4.70	14.4	20.3	Clear	No Odor
13:30	5	150	7.56	0.40	7.33	0.74	1.77	3.35	14.3	-29.3	Clear	No Odor
13:35	5	150	7.56	0.60	7.37	0.76	1.54	3.24	14.5	-46.5	Clear	No Odor
13:40	5	150	7.56	0.80	7.38	0.78	1.32	3.37	14.5	-68.9	Clear	No Odor
13:44	4	150	7.56	0.96	7.34	0.82	0.84	3.23	14.6	-83.8	Clear	No Odor
13:47	3	150	7.56	1.08	7.36	0.86	0.31	3.18	14.6	-97.8	Clear	No Odor
13:50	3	150	7.56	1.20	7.37	0.90	0.05	3.01	14.7	-108.4	Clear	No Odor
13:53	3	150	7.56	1.32	7.35	0.97	0.02	2.86	14.5	-120.6	Clear	No Odor
13:56	3	150	7.56	1.44	7.35	1.01	0.02	2.63	14.5	-131.5	Clear	No Odor
13:59	3	150	7.56	1.56	7.35	1.03	0.02	2.67	14.5	-138.5	Clear	No Odor
14:02	3	150	7.56	1.68	7.34	1.07	0.02	2.55	14.6	-145.3	Clear	No Odor
14:05	3	150	4.76	1.80	7.35	1.08	0.02	2.52	14.5	-150.9	Clear	No Odor
14:08	3	150	7.56	1.92	7.31	1.09	0.02	2.45	14.5	-154.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

Well Information

Well Location: 34891 Wadsworth
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-86S			Date	11-25-19
Project Name/Location			Ford LTP	Weather			37.94 degrees F, Fog/Mist
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.71	Total Depth (ft-bmp)	12.35	Water Column (ft.)	4.64	Gallons in Well	0.75
		Pump Intake (ft-bmp)	9.21	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.60				
Sample Time: Label	13:05	Volume Purged	1.2 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	12:27						
Purge End	13:10						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
12:30	0	150	7.74	0.00	7.53	0.47	26.80	2.25	13.5	69.8	Clear	No Odor
12:35	5	150	7.74	0.20	7.65	0.45	40.00	2.12	13.5	54.1	Clear	No Odor
12:40	5	150	7.74	0.40	7.62	0.44	31.70	1.84	13.6	37.6	Clear	No Odor
12:45	5	150	7.74	0.60	7.64	0.44	28.60	1.76	13.7	28.5	Clear	No Odor
12:50	5	150	7.74	0.80	7.64	0.44	22.40	1.74	13.6	19.5	Clear	No Odor
12:54	4	150	7.74	0.96	7.64	0.44	14.40	1.65	13.8	5.1	Clear	No Odor
12:57	3	150	7.74	1.08	7.64	0.44	13.90	1.64	13.7	-2.3	Clear	No Odor
13:00	3	150	7.74	1.20	7.63	0.44	14.00	1.71	13.8	-4.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	34891 Wadsworth	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-87
Date 11-22-19
Project Name/Location Ford LTP
Weather 35.06 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 14-19
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 10.11
Total Depth (ft-bmp) 18.83
Water Column (ft.) 8.72
Gallons in Well 1.42
Pump Intake (ft-bmp) 16.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.85
Sample Time: Label 10:15
Volume Purged 1.2 gallons
Replicate/Code No. MW-87-MS_112219
Sampled by Shantel Johnson
Purge Start 9:37
Purge End 10:25

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:40	0	150	10.18	0.00	7.55	0.47	11.30	8.43	13.1	172.2	Clear	No Odor
9:45	5	150	10.19	0.20	8.17	0.39	7.16	9.74	14.1	115.5	Clear	No Odor
9:50	5	150	10.19	0.40	8.22	0.39	6.09	9.79	14.0	111.7	Clear	No Odor
9:55	5	150	10.19	0.60	8.32	0.39	4.33	9.68	14.1	102.1	Clear	No Odor
10:00	5	150	10.19	0.80	8.35	0.39	2.29	9.62	14.3	102.7	Clear	No Odor
10:04	4	150	10.20	0.96	8.34	0.39	2.13	9.68	14.1	102.9	Clear	No Odor
10:07	3	150	10.20	1.08	8.35	0.39	1.57	9.62	14.1	101.5	Clear	No Odor
10:10	3	150	10.20	1.20	8.36	0.39	1.10	9.85	14.2	100.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	9	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	9	HCL

Comments

None

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.5" = 0.09* *2.5" = 0.26* *3.5" = 0.50* *6" = 1.47*
1.25" = 0.06 *2" = 0.16* *3" = 0.37* *4" = 0.65*

Well Information

Well Location: 34901 Standish in front of tree
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-87S			Date	11-22-19
Project Name/Location	Ford LTP			Weather	35.06 degrees F, Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	4.5-14.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.95	Total Depth (ft-bmp)	14.12	Water Column (ft.)	4.17	Gallons in Well	0.68
		Pump Intake (ft-bmp)	11.45	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.76				
Sample Time: Label	11:20	Volume Purged	1.2 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	10:42						
Purge End	11:25						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:45	0	150	10.01	0.00	8.20	0.39	4.40	8.61	12.8	99.9	Clear	No Odor
10:50	5	150	10.01	0.20	8.12	0.39	4.21	7.25	12.2	102.3	Clear	No Odor
10:55	5	150	10.01	0.40	8.04	0.39	1.29	7.02	11.5	105.5	Clear	No Odor
11:00	5	150	10.02	0.60	8.00	0.38	1.10	8.54	11.8	107.9	Clear	No Odor
11:05	5	150	10.02	0.80	8.13	0.39	0.02	8.34	12.6	100.9	Clear	No Odor
11:10	5	150	10.02	1.00	8.11	0.39	0.02	8.40	12.7	102.7	Clear	No Odor
11:15	5	150	10.02	1.20	8.10	0.39	0.02	8.39	12.5	102.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	34901 Standish in front of tree	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-96S			Date	11-26-19
Project Name/Location	Ford LTP			Weather	51.98 degrees F, Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.75	Total Depth (ft-bmp)	12.10	Water Column (ft.)	6.35	Gallons in Well	1.03
		Pump Intake (ft-bmp)	7.25	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.17				
Sample Time: Label	15:20	Volume Purged	1.2 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	14:43						
Purge End	15:25						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:45	0	150	5.86	0.00	7.54	0.57	2.74	1.31	12.7	-82.3	Clear	No Odor
14:50	5	150	5.86	0.20	7.48	0.54	1.13	0.64	12.8	-92.5	Clear	No Odor
14:55	5	150	5.86	0.40	7.50	0.51	6.71	0.52	13.0	-111.1	Clear	No Odor
15:00	5	150	5.86	0.60	7.45	0.50	5.63	0.64	11.9	-114.1	Clear	No Odor
15:05	5	150	5.86	0.80	7.41	0.48	4.93	0.42	12.6	-132.1	Clear	No Odor
15:10	5	150	5.86	1.00	7.41	0.48	3.35	0.37	12.6	-133.3	Clear	No Odor
15:15	5	150	5.83	1.20	7.41	0.48	2.06	0.36	12.7	-138.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	11850 Boston Post	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-97S
Date 11-22-19
Project Name/Location Ford LTP
Weather 35.06 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.00
Total Depth (ft-bmp) 12.01
Water Column (ft.) 7.01
Gallons in Well 1.14
Pump Intake (ft-bmp) 6.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.26
Sample Time: Label 13:15
Volume Purged 1.44 gallons
Replicate/Code No. --
Sampled by Shantel Johnson
Purge Start 12:33
Purge End 13:20

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:35	0	150	5.07	0.00	7.75	0.77	3.15	0.91	12.5	130.0	Clear	No Odor
12:40	5	150	5.07	0.20	7.73	0.76	0.41	0.77	12.9	127.5	Clear	No Odor
12:45	5	150	5.07	0.40	7.67	0.76	0.41	0.71	12.2	128.8	Clear	No Odor
12:50	5	150	5.07	0.60	7.71	0.75	0.02	0.73	12.5	125.4	Clear	No Odor
12:55	5	150	5.07	0.80	7.70	0.80	0.02	0.65	13.0	127.5	Clear	No Odor
13:00	5	150	5.07	1.00	7.68	0.88	0.02	0.57	13.1	129.6	Clear	No Odor
13:05	5	150	5.07	1.20	7.66	0.99	0.02	0.53	13.1	133.2	Clear	No Odor
13:08	3	150	5.07	1.32	7.67	0.99	0.02	0.51	13.1	131.4	Clear	No Odor
13:11	3	150	5.07	1.44	7.65	1.02	0.02	0.52	13.1	131.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: 11680 Boston Post; across the street from corner
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-98S			Date	11-13-19
Project Name/Location			Ford LTP	Weather			21.02 degrees F, Cloudy
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	2.22	Total Depth (ft-bmp)	12.09	Water Column (ft.)	9.87	Gallons in Well	1.60
		Pump Intake (ft-bmp)	4.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.49				
Sample Time: Label	15:52	Volume Purged	0.78 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	15:20						
Purge End	15:50						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:20	0	100	2.24	0.00	7.13	1.19	0.02	1.28	10.1	60.6	Clear	No Odor
15:25	5	100	2.24	0.13	7.12	1.23	0.02	1.13	9.4	60.6	Clear	No Odor
15:30	5	100	2.24	0.26	7.11	1.23	0.02	1.01	9.5	59.6	Clear	No Odor
15:35	5	100	2.24	0.39	7.09	1.23	0.02	0.85	9.5	59.3	Clear	No Odor
15:40	5	100	2.24	0.52	7.09	1.23	0.02	0.60	9.4	60.0	Clear	No Odor
15:45	5	100	2.24	0.65	7.09	1.25	0.02	0.60	9.5	58.5	Clear	No Odor
15:50	5	100	2.24	0.78	7.08	1.22	0.02	0.63	9.5	58.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	Between road and ditch	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-99S			Date	11-6-19
Project Name/Location			Ford LTP	Weather			37.04 degrees F, Cloudy
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	3-13	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.67	Total Depth (ft-bmp)	12.87	Water Column (ft.)	6.20	Gallons in Well	1.01
		Pump Intake (ft-bmp)	8.17	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.56				
Sample Time: Label	14:24	Volume Purged	2.59 gallons	Replicate/Code No.	MW-99S-MS/MSD_110619	Sampled by	Julia McClafferty
Purge Start	13:22						
Purge End	14:24						

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:23	0	200	6.70	0.00	7.29	1.78	3.21	0.57	16.8	19.3	Clear	No Odor
13:28	5	160	6.70	0.26	7.19	1.84	2.47	0.41	16.6	24.7	Clear	No Odor
13:33	5	160	6.70	0.47	7.22	1.96	2.02	0.38	16.7	29.1	Clear	No Odor
13:38	5	160	6.70	0.68	7.25	2.11	0.81	0.33	16.2	33.4	Clear	No Odor
13:43	5	160	6.70	0.89	7.27	2.33	1.79	0.48	16.8	39.0	Clear	No Odor
13:48	5	160	6.70	1.10	7.27	2.54	1.36	0.34	16.2	42.5	Clear	No Odor
13:53	5	170	6.70	1.31	7.26	2.66	0.57	0.39	16.9	46.0	Clear	No Odor
13:58	5	170	6.70	1.53	7.23	3.16	0.57	0.35	17.0	52.0	Clear	No Odor
14:03	5	160	6.70	1.75	7.20	3.95	0.61	0.39	17.0	59.1	Clear	No Odor
14:08	5	160	6.70	1.96	7.19	4.38	1.48	0.39	17.0	61.9	Clear	No Odor
14:13	5	160	6.70	2.17	7.18	4.65	0.72	0.38	17.1	64.4	Clear	No Odor
14:18	5	160	6.70	2.38	7.17	4.79	1.00	0.48	17.1	66.9	Clear	No Odor
14:23	5	160	6.70	2.59	7.17	4.77	0.30	0.35	17.0	67.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	9	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	9	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location:	11864 Belden	Well Locked at Arrival:	yes
Condition of Well:	Fair, Missing bolts	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00002
Well ID MW-100S
Date 11-26-19
Project Name/Location Ford LTP
Weather 35.96 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 3-13
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.96
Total Depth (ft-bmp) 12.88
Water Column (ft.) 5.92
Gallons in Well 0.96
Pump Intake (ft-bmp) 8.47
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.25

Sample Time: Label 9:35
Volume Purged 1.2 gallons
Replicate/Code No. --
Sampled by Shantel Johnson
Purge Start 8:57
Purge End 9:40

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:00	0	150	6.99	0.00	7.31	5.41	0.94	0.79	13.9	219.1	Clear	No Odor
9:05	5	150	6.99	0.20	7.19	7.28	1.00	0.16	14.6	208.3	Clear	No Odor
9:10	5	150	6.99	0.40	7.18	7.55	0.81	0.17	14.8	200.9	Clear	No Odor
9:15	5	150	6.99	0.60	7.15	7.71	0.98	0.17	14.9	195.6	Clear	No Odor
9:20	5	150	6.99	0.80	7.14	7.90	0.87	0.17	14.9	186.6	Clear	No Odor
9:24	4	150	6.99	0.96	7.14	8.04	1.09	0.17	15.0	182.2	Clear	No Odor
9:27	3	150	6.99	1.08	7.15	8.05	0.94	0.19	15.1	177.7	Clear	No Odor
9:30	3	150	6.99	1.20	7.13	8.10	0.83	0.21	15.0	173.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot ***1" = 0.04*** ***1.25" = 0.06*** ***1.5" = 0.09*** ***2" = 0.16*** ***2.5" = 0.26*** ***3" = 0.37*** ***3.5" = 0.50*** ***4" = 0.65*** ***6" = 1.47***

Well Information

Well Location: Belden Court
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-101S
Date 11-13-19
Project Name/Location Ford LTP
Weather 10.04 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 4.5-14.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 8.30
Total Depth (ft-bmp) 14.06
Water Column (ft.) 5.76
Gallons in Well 0.94
Pump Intake (ft-bmp) 10.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.09

Sample Time: Label 9:47
Volume Purged 1.02 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 9:05
Purge End 9:44

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:05	0	100	8.32	0.00	7.62	1.06	0.02	4.25	8.9	109.5	Clear	No Odor
9:10	5	100	8.32	0.13	7.66	1.12	0.02	3.81	11.0	100.2	Clear	No Odor
9:15	5	100	8.32	0.26	7.64	1.15	0.02	2.15	12.0	94.7	Clear	No Odor
9:20	5	100	8.32	0.39	7.67	1.18	0.02	2.17	13.1	90.0	Clear	No Odor
9:25	5	100	8.32	0.52	7.70	1.23	0.02	2.14	12.7	89.6	Clear	No Odor
9:30	5	100	8.32	0.65	7.71	1.36	0.02	2.13	12.6	89.4	Clear	No Odor
9:35	5	100	8.32	0.78	7.72	1.46	0.02	1.36	12.7	87.8	Clear	No Odor
9:38	3	100	8.32	0.86	7.70	1.51	0.02	1.00	12.8	88.9	Clear	No Odor
9:41	3	100	8.32	0.94	7.72	1.54	0.02	1.03	13.0	87.5	Clear	No Odor
9:44	3	100	8.32	1.02	7.70	1.55	0.02	0.98	12.7	87.4	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 10 ft from manhole in grass
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-102			Date	11-18-19
Project Name/Location			Ford LTP	Weather			48.92 degrees F, Mostly Clear
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	10-15	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	2.35	Total Depth (ft-bmp)	14.63	Water Column (ft.)	12.28	Gallons in Well	2.00
		Pump Intake (ft-bmp)	12.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.54				
Sample Time: Label	14:24	Volume Purged	1.08 gallons	Replicate/Code No.	DUP-05	Sampled by	Julia McClafferty
Purge Start	13:48						
Purge End	14:24						

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:51	0	140	2.37	0.00	7.37	6.25	4.06	0.54	14.2	-51.1	Clear	No Odor
13:56	5	140	2.37	0.18	7.40	6.26	5.94	0.47	14.0	-76.2	Clear	No Odor
14:01	5	140	2.37	0.36	7.41	6.26	3.75	0.44	14.2	-84.1	Clear	No Odor
14:06	5	140	2.37	0.54	7.42	6.26	2.82	0.37	14.3	-89.4	Clear	No Odor
14:11	5	140	2.37	0.72	7.42	6.24	1.78	0.20	14.3	-92.1	Clear	No Odor
14:16	5	140	2.37	0.90	7.42	6.22	2.06	0.19	14.3	-94.4	Clear	No Odor
14:21	5	140	2.37	1.08	7.43	6.22	2.18	0.19	14.3	-96.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	6	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	6	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	Rosati cul-de-sac	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00002
Well ID MW-102S
Date 11-18-19
Project Name/Location Ford LTP
Weather 42.98 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 2.51
Total Depth (ft-bmp) 12.37
Water Column (ft.) 9.86
Gallons in Well 1.60
Pump Intake (ft-bmp) 4.01
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.25
Sample Time: Label 12:50
Volume Purged 2 gallons
Replicate/Code No. --
Sampled by Julia McClafferty
Purge Start 11:49
Purge End 12:50

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
11:49	0	100	2.52	0.00	7.96	0.99	6.56	0.76	10.4	167.1	Clear	No Odor
11:54	5	130	2.52	0.13	7.83	0.98	3.40	0.49	10.3	167.2	Clear	No Odor
11:59	5	130	2.52	0.30	7.78	1.50	2.00	0.28	11.1	161.4	Clear	No Odor
12:04	5	130	2.52	0.47	7.70	1.81	1.40	0.27	11.3	154.5	Clear	No Odor
12:09	5	130	2.52	0.64	7.58	2.19	1.59	0.32	11.3	153.8	Clear	No Odor
12:14	5	130	2.52	0.81	7.58	2.33	2.31	0.26	11.4	148.3	Clear	No Odor
12:19	5	130	2.52	0.98	7.59	2.30	2.57	0.29	11.3	143.6	Clear	No Odor
12:24	5	130	2.52	1.15	7.58	2.39	2.64	0.26	11.4	140.2	Clear	No Odor
12:29	5	130	2.52	1.32	7.58	2.50	2.11	0.27	11.6	136.7	Clear	No Odor
12:34	5	130	2.52	1.49	7.58	2.53	1.89	0.24	11.5	133.6	Clear	No Odor
12:39	5	130	2.52	1.66	7.58	2.60	1.34	0.26	11.6	129.4	Clear	No Odor
12:44	5	130	2.52	1.83	7.58	2.61	1.55	0.29	11.6	113.0	Clear	No Odor
12:49	5	130	2.52	2.00	7.58	2.65	2.22	0.26	11.6	105.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: Rosati cul-de-sac
Well Locked at Arrival: yes
Condition of Well: Fair,Missing bolts
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00002
Well ID MW-105S
Date 11-13-19
Project Name/Location Ford LTP
Weather 21.02 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 3.94
Total Depth (ft-bmp) 11.79
Water Column (ft.) 7.85
Gallons in Well 1.28
Pump Intake (ft-bmp) 5.44
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.17
Sample Time: Label 15:04
Volume Purged 1.5 gallons
Replicate/Code No. --
Sampled by Julia McClafferty
Purge Start 14:08
Purge End 15:04

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:10	0	110	3.93	0.00	7.02	1.05	46.10	0.42	11.5	12.3	Clear, Small Orange Particulates	No Odor
14:15	5	110	3.93	0.15	6.98	1.02	40.60	0.38	11.6	15.8	Clear, Small Orange Particulates	No Odor
14:20	5	110	3.93	0.30	6.95	1.01	30.20	0.33	11.9	26.0	Clear, Small Orange Particulates	No Odor
14:25	5	110	3.93	0.45	6.95	2.02	13.90	0.29	12.1	30.0	Clear, Small Orange Particulates	No Odor
14:30	5	110	3.92	0.60	7.15	3.26	7.04	0.24	12.0	31.0	Clear, Small Orange Particulates	No Odor
14:35	5	110	3.93	0.75	7.20	2.66	5.99	0.22	12.4	34.2	Clear, Small Orange Particulates	No Odor
14:40	5	110	3.93	0.90	7.23	3.83	6.06	0.22	12.6	37.0	Clear, Small Orange Particulates	No Odor
14:45	5	110	3.93	1.05	7.23	3.84	5.79	0.21	12.5	40.2	Clear, Small Orange Particulates	No Odor
14:50	5	110	3.93	1.20	7.23	3.80	4.60	0.21	12.4	44.5	Clear	No Odor
14:55	5	110	3.93	1.35	7.23	3.86	4.30	0.28	12.3	48.5	Clear	No Odor
15:00	5	110	3.93	1.50	7.24	3.84	3.78	0.20	12.5	49.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: To the left of the green electrical box
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00002
Well ID MW-106S
Date 11-15-19
Project Name/Location Ford LTP
Weather 26.96 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 3.49
Total Depth (ft-bmp) 11.62
Water Column (ft.) 8.13
Gallons in Well 1.32
Pump Intake (ft-bmp) 4.99
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.42
Sample Time: Label 9:12
Volume Purged 1.88 gallons
Replicate/Code No. --
Sampled by Julia McClafferty
Purge Start 8:10
Purge End 9:12

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
8:10	0	110	3.61	0.00	7.11	0.54	38.50	1.18	11.9	118.2	Cloudy	No Odor
8:15	5	110	3.61	0.15	7.20	0.53	31.10	1.14	12.1	107.7	Cloudy	No Odor
8:20	5	110	3.61	0.30	7.30	0.52	28.40	1.10	12.5	95.4	Cloudy	No Odor
8:25	5	110	3.61	0.45	7.32	0.50	20.20	0.89	12.4	89.0	Clear	No Odor
8:29	4	120	3.61	0.57	7.33	0.51	13.50	0.98	12.6	84.0	Clear	No Odor
8:34	5	120	3.61	0.73	7.31	0.50	11.60	1.30	12.3	77.8	Clear	No Odor
8:39	5	120	3.61	0.89	7.32	0.49	7.63	1.81	12.3	71.8	Clear	No Odor
8:45	6	120	3.61	1.08	7.31	0.48	5.86	2.00	12.3	66.7	Clear	No Odor
8:50	5	120	3.61	1.24	7.29	0.50	5.06	1.54	12.1	66.4	Clear	No Odor
8:55	5	120	3.61	1.40	7.33	0.49	4.74	1.77	12.1	60.6	Clear	No Odor
9:00	5	120	3.61	1.56	7.29	0.45	3.71	2.00	11.9	57.2	Clear	No Odor
9:05	5	120	3.61	1.72	7.32	0.46	2.82	2.29	12.0	53.3	Clear	No Odor
9:10	5	120	3.61	1.88	7.32	0.51	2.89	1.68	12.2	52.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: To the right of wooden fence entrance
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-107S			Date	11-12-19
Project Name/Location			Ford LTP	Weather	23.00 degrees F, Partly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.92	Total Depth (ft-bmp)	12.15	Water Column (ft.)	6.23	Gallons in Well	1.01
		Pump Intake (ft-bmp)	7.40	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.13				
Sample Time: Label	14:55	Volume Purged	2.15 gallons	Replicate/Code No.	--	Sampled by	Juli Ryan
Purge Start	14:12						
Purge End	15:00						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:12	0	200	6.04	0.00	7.97	0.63	13.10	0.60	13.4	-48.8	Small Brown Particulates	No Odor
14:17	5	200	6.19	0.26	7.82	0.63	3.69	0.46	13.7	-59.3	Small Brown Particulates	No Odor
14:22	5	200	6.29	0.52	7.77	0.63	0.02	0.40	13.2	-63.3	Small Brown Particulates	No Odor
14:28	6	200	6.39	0.84	7.72	0.64	0.02	0.37	13.6	-65.9	Small Brown Particulates	No Odor
14:33	5	200	6.44	1.10	7.70	0.65	0.02	0.34	13.6	-67.6	Small Brown Particulates	No Odor
14:38	5	200	6.46	1.36	7.69	0.69	0.02	0.30	13.8	-67.7	Small Brown Particulates	No Odor
14:42	4	200	6.45	1.57	7.68	0.75	0.02	0.35	13.5	-68.2	Small Brown Particulates	No Odor
14:47	5	200	6.42	1.83	7.67	0.78	0.02	0.35	13.7	-72.9	Small Red Particulates	No Odor
14:50	3	200	6.42	1.99	7.67	0.78	0.02	0.33	13.9	-73.6	Small Brown Particulates	No Odor
14:53	3	200	6.42	2.15	7.67	0.78	0.02	0.34	13.8	-75.8	Small Brown Particulates	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location:	34367 capitol driveway	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-108S
Date 11-12-19
Project Name/Location Ford LTP
Weather 24.98 degrees F, Mostly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 4.30
Total Depth (ft-bmp) 12.27
Water Column (ft.) 7.97
Gallons in Well 1.30
Pump Intake (ft-bmp) 5.80
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.18

Sample Time: Label 14:46
Volume Purged 1.53 gallons
Replicate/Code No. --
Sampled by Julia McClafferty
Purge Start 13:56
Purge End 14:46

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:58	0	130	4.37	0.00	7.03	1.29	39.70	0.60	11.1	-3.4	Clear, Small Orange Particulates	No Odor
14:03	5	130	4.37	0.17	7.03	1.29	20.10	0.58	11.1	-4.9	Clear, Small Orange Particulates	No Odor
14:08	5	130	4.36	0.34	7.03	1.28	15.60	0.74	10.5	-12.6	Clear, Small Orange Particulates	No Odor
14:13	5	130	4.37	0.51	7.05	1.28	11.90	0.52	11.1	-17.6	Clear, Small Orange Particulates	No Odor
14:18	5	130	4.37	0.68	7.04	1.27	7.84	0.47	11.1	-23.7	Clear, Small Orange Particulates	No Odor
14:23	5	130	4.37	0.85	7.05	1.28	8.80	0.44	11.2	-24.9	Clear, Small Orange Particulates	No Odor
14:28	5	130	4.37	1.02	7.06	1.27	5.53	0.40	11.3	-27.5	Clear	No Odor
14:33	5	130	4.37	1.19	7.08	1.26	4.72	0.39	11.9	-31.7	Clear	No Odor
14:38	5	130	4.37	1.36	7.07	1.25	3.67	0.42	11.9	-34.5	Clear	No Odor
14:43	5	130	4.38	1.53	7.07	1.25	4.54	0.37	11.8	-34.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Edge of curb 12321 Rosati
Well Locked at Arrival: yes
Condition of Well: Fair,Missing bolts
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-131S			Date	11-12-19
Project Name/Location			Ford LTP	Weather	24.98 degrees F, Partly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.21	Total Depth (ft-bmp)	12.69	Water Column (ft.)	7.48	Gallons in Well	1.22
		Pump Intake (ft-bmp)	6.70	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.62				
Sample Time: Label	16:22	Volume Purged	1.98 gallons	Replicate/Code No.	--	Sampled by	Juli Ryan
Purge Start	15:42						
Purge End	16:26						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:43	0	200	5.26	0.00	7.36	0.65	2.60	0.87	13.8	-80.0	Small Brown Particulates	No Odor
15:48	5	200	5.26	0.26	7.34	0.75	0.02	0.72	14.0	-70.2	Small Brown Particulates	No Odor
15:53	5	200	5.25	0.52	7.22	1.56	0.02	0.36	14.3	-63.0	Small Brown Particulates	No Odor
15:58	5	200	5.25	0.78	7.23	2.57	0.02	0.28	14.4	-63.8	Small Brown Particulates	No Odor
16:03	5	200	5.25	1.04	7.25	3.55	0.02	0.26	14.5	-67.7	Small Brown Particulates	No Odor
16:08	5	200	5.25	1.30	7.26	3.74	0.02	0.25	14.6	-72.8	Small Brown Particulates	No Odor
16:13	5	200	5.25	1.56	7.27	3.82	0.02	0.23	14.7	-79.2	Small Brown Particulates	No Odor
16:18	5	200	5.25	1.82	7.27	3.80	0.02	0.25	14.6	-85.5	Small Brown Particulates	No Odor
16:21	3	200	5.25	1.98	7.27	3.81	0.02	0.24	14.5	-87.3	Small Brown Particulates	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Standing water

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	34414 rosati	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-132S			Date	11-12-19
Project Name/Location			Ford LTP	Weather	24.98 degrees F, Partly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.91	Total Depth (ft-bmp)	12.40	Water Column (ft.)	6.49	Gallons in Well	1.05
		Pump Intake (ft-bmp)	7.41	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.94				
Sample Time: Label	16:52	Volume Purged	2.04 gallons	Replicate/Code No.	--	Sampled by	Julia McClafferty
Purge Start	15:47						
Purge End	16:52						

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:50	0	130	5.93	0.00	7.53	0.75	59.10	0.94	13.2	-5.9	Clear, Small Brown Particulates	No Odor
15:55	5	130	5.93	0.17	7.50	0.74	41.70	0.80	13.5	-9.0	Clear, Small Brown Particulates	No Odor
16:00	5	130	5.93	0.34	7.48	0.75	32.00	0.78	13.9	-10.2	Clear, Small Brown Particulates	No Odor
16:05	5	130	5.93	0.51	7.49	0.75	27.40	0.75	14.1	-11.7	Clear, Small Brown Particulates	No Odor
16:10	5	130	5.93	0.68	7.48	0.75	22.40	1.01	12.9	-9.1	Clear	No Odor
16:15	5	130	5.93	0.85	7.48	0.76	23.90	0.92	12.9	-9.1	Clear	No Odor
16:20	5	130	5.93	1.02	7.49	0.76	20.80	0.78	13.3	-9.6	Clear	No Odor
16:25	5	130	5.93	1.19	7.48	0.75	17.80	0.76	13.6	-10.1	Clear	No Odor
16:30	5	130	5.93	1.36	7.47	0.75	15.30	0.75	13.4	-9.9	Clear	No Odor
16:35	5	130	5.93	1.53	7.46	0.77	10.50	0.72	13.2	-10.3	Clear	No Odor
16:40	5	130	5.93	1.70	7.47	0.78	8.53	0.72	13.4	-10.8	Clear	No Odor
16:45	5	130	5.93	1.87	7.41	0.92	7.44	0.74	13.0	-9.4	Clear	No Odor
16:50	5	130	5.93	2.04	7.39	0.97	5.23	0.60	13.4	-9.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	Along curve before 34410 Rosati	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00002
Well ID MW-133S
Date 11-7-19
Project Name/Location Ford LTP
Weather 35.06 degrees F, Mostly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 4-9
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.68
Total Depth (ft-bmp) 8.56
Water Column (ft.) 1.88
Gallons in Well 0.31
Pump Intake (ft-bmp) 8.20
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.94

Sample Time: Label 14:57
Volume Purged 0.91 gallons
Replicate/Code No. DUP-01
Sampled by Heather Woodrum
Purge Start 14:20
Purge End 14:55

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
14:20	0	100	6.72	0.00	7.00	0.70	161.00	1.23	13.4	41.4	Cloudy, Turbid	No Odor
14:25	5	100	6.72	0.13	7.03	0.69	38.00	1.50	13.2	36.8	Clear, Turbid	No Odor
14:30	5	100	6.72	0.26	7.03	0.67	12.80	1.60	12.7	34.0	Clear	No Odor
14:35	5	100	6.72	0.39	7.03	0.66	7.38	1.55	13.0	33.1	Clear	No Odor
14:40	5	100	6.72	0.52	7.02	0.66	4.15	1.50	13.2	32.9	Clear	No Odor
14:45	5	100	6.72	0.65	7.00	0.65	3.65	1.31	12.6	34.0	Clear	No Odor
14:50	5	100	6.72	0.78	7.03	0.65	1.11	1.28	12.8	32.0	Clear	No Odor
14:55	5	100	6.72	0.91	7.01	0.65	0.02	1.24	12.5	33.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	6	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	6	HCL

Comments

None

Well Casing Volumes

Gallons/Foot ***1" = 0.04*** ***1.25" = 0.06*** ***1.5" = 0.09*** ***2" = 0.16*** ***2.5" = 0.26*** ***3" = 0.37*** ***3.5" = 0.50*** ***4" = 0.65*** ***6" = 1.47***

Well Information

Well Location: Directly E of front door, 10 ft from road
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID		MW-134S		Date	11-5-19
Project Name/Location		Ford LTP		Weather		44.06 degrees F, Cloudy	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	5-10	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.68	Total Depth (ft-bmp)	9.68	Water Column (ft.)	2.00	Gallons in Well	0.32
		Pump Intake (ft-bmp)	9.20	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	4.06				
Sample Time: Label	13:32	Volume Purged	1.3 gallons	Replicate/Code No.	MW-134S-MS_110519, MW-134S-MSD_110519	Sampled by	Heather Woodrum
Purge Start	12:45						
Purge End	13:30						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:45	0	100	7.70	0.00	7.33	0.85	0.02	2.45	13.9	89.1	Clear	No Odor
12:50	5	100	7.70	0.13	7.31	0.83	0.02	0.66	14.4	87.6	Clear	No Odor
12:55	5	100	7.70	0.26	7.30	0.81	0.02	0.47	15.1	87.4	Clear	No Odor
13:00	5	100	7.70	0.39	7.26	0.78	0.02	0.53	14.7	88.3	Clear	No Odor
13:05	5	100	7.70	0.52	7.27	0.76	0.02	0.50	14.8	86.1	Clear	No Odor
13:10	5	100	7.70	0.65	7.26	0.75	0.02	0.55	15.0	86.4	Clear	No Odor
13:15	5	100	7.70	0.78	7.26	0.74	0.02	0.75	14.9	86.6	Clear	No Odor
13:20	5	100	7.70	0.91	7.25	0.74	0.02	1.18	14.8	86.8	Clear	No Odor
13:25	5	100	7.70	1.04	7.24	0.74	0.02	1.02	14.8	87.9	Clear	No Odor
13:30	5	100	7.70	1.17	7.26	0.74	0.02	0.99	14.8	86.6	Clear	No Odor
13:35	5	100	7.70	1.30	7.25	0.73	0.02	1.03	15.0	87.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	9	HCL
1,4-dioxane	40 mL Glass	9	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	10 ft off road	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-135S
Date 11-5-19
Project Name/Location Ford LTP
Weather 44.06 degrees F, Mostly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 5-10
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.71
Total Depth (ft-bmp) 9.48
Water Column (ft.) 2.77
Gallons in Well 0.45
Pump Intake (ft-bmp) 8.20
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.02
Sample Time: Label 14:52
Volume Purged 0.91 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 14:15
Purge End 14:50

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:15	0	100	6.74	0.00	7.51	0.49	2.42	2.70	13.2	65.5	Clear	No Odor
14:20	5	100	6.74	0.13	7.48	0.48	1.13	1.57	13.5	67.2	Clear	No Odor
14:25	5	100	6.74	0.26	7.49	0.48	0.02	1.17	13.5	68.9	Clear	No Odor
14:30	5	100	6.74	0.39	7.45	0.48	0.02	1.18	13.7	73.4	Clear	No Odor
14:35	5	100	6.74	0.52	7.49	0.49	0.02	1.28	13.4	73.8	Clear	No Odor
14:40	5	100	6.74	0.65	7.44	0.49	0.02	1.21	13.2	78.2	Clear	No Odor
14:45	5	100	6.74	0.78	7.47	0.49	0.02	1.12	13.4	77.4	Clear	No Odor
14:50	5	100	6.74	0.91	7.44	0.49	0.02	1.10	13.2	80.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: 10 ft from road
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-136S			Date	11-13-19
Project Name/Location			Ford LTP	Weather	19.04 degrees F, Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2-7	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	3.44	Total Depth (ft-bmp)	7.14	Water Column (ft.)	3.70	Gallons in Well	0.60
		Pump Intake (ft-bmp)	5.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.30				
Sample Time: Label	13:42	Volume Purged	0.78 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	13:10						
Purge End	13:40						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:10	0	100	3.52	0.00	7.14	1.97	38.70	1.68	10.0	74.1	Small Orange Particulates	No Odor
13:15	5	100	3.52	0.13	7.14	1.98	18.90	1.43	10.3	71.8	Clear	No Odor
13:20	5	100	3.52	0.26	7.12	2.03	5.19	1.36	10.3	67.2	Clear	No Odor
13:25	5	100	3.52	0.39	7.12	2.02	0.06	1.20	11.4	63.2	Clear	No Odor
13:30	5	100	3.52	0.52	7.10	2.05	0.02	1.17	10.8	63.2	Clear	No Odor
13:35	5	100	3.52	0.65	7.11	2.04	0.02	1.16	10.8	61.4	Clear	No Odor
13:40	5	100	3.52	0.78	7.10	2.03	0.02	1.13	10.8	60.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Bentonite swelling

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	In front of bay window	Well Locked at Arrival:	yes
Condition of Well:	Poor	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-137S
Date 11-5-19
Project Name/Location Ford LTP
Weather 44.06 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 3.11
Total Depth (ft-bmp) 7.03
Water Column (ft.) 3.92
Gallons in Well 0.64
Pump Intake (ft-bmp) 4.61
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.88
Sample Time: Label 13:38
Volume Purged 1.2 gallons
Replicate/Code No. --
Sampled by Julia McClafferty
Purge Start 13:04
Purge End 13:38

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:06	0	150	3.14	0.00	7.06	1.19	6.70	1.11	14.6	-16.2	Clear	No Odor
13:11	5	150	3.13	0.20	7.05	1.19	4.15	3.66	14.5	-11.1	Clear	No Odor
13:16	5	150	3.14	0.40	7.05	1.19	2.87	3.41	14.6	-7.4	Clear	No Odor
13:21	5	150	3.14	0.60	7.06	1.19	2.15	3.18	14.7	-2.4	Clear	No Odor
13:26	5	150	3.14	0.80	7.05	1.19	2.05	3.05	14.7	0.6	Clear	No Odor
13:31	5	150	3.15	1.00	7.05	1.19	1.65	2.96	14.8	3.8	Clear	No Odor
13:36	5	150	3.15	1.20	7.05	1.19	1.29	2.78	14.8	5.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

Pad swelling

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: 12088 Brewster
Well Locked at Arrival: yes
Condition of Well: Fair
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00002
Well ID MW-138S
Date 11-15-19
Project Name/Location Ford LTP
Weather 30.02 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 1.16
Total Depth (ft-bmp) 5.94
Water Column (ft.) 4.78
Gallons in Well 0.78
Pump Intake (ft-bmp) 2.66
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.56
Sample Time: Label 12:30
Volume Purged 2 gallons
Replicate/Code No. DUP-03
Sampled by Julia McClafferty
Purge Start 11:35
Purge End 12:30

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:37	0	150	1.21	0.00	7.31	1.93	30.10	0.47	8.6	-48.3	Clear, Small Brown Particulates	No Odor
11:42	5	150	1.19	0.20	7.27	1.92	26.10	0.34	8.3	-50.8	Clear	No Odor
11:47	5	150	1.19	0.40	7.26	1.92	21.30	0.32	8.7	-53.1	Clear	No Odor
11:52	5	150	1.19	0.60	7.26	1.91	17.60	0.30	8.7	-54.8	Clear	No Odor
11:57	5	150	1.19	0.80	7.25	1.86	14.40	0.24	8.8	-55.5	Clear	No Odor
12:02	5	150	1.19	1.00	7.25	1.85	11.60	0.20	8.7	-55.0	Clear	No Odor
12:07	5	150	1.19	1.20	7.23	1.91	6.40	0.30	8.5	-53.6	Clear	No Odor
12:12	5	150	1.19	1.40	7.26	1.95	3.42	0.18	8.9	-59.1	Clear	No Odor
12:17	5	150	1.19	1.60	7.27	1.95	2.40	0.17	9.1	-59.9	Clear	No Odor
12:22	5	150	1.19	1.80	7.27	1.95	1.73	0.16	9.2	-61.8	Clear	No Odor
12:27	5	150	1.19	2.00	7.27	1.95	1.27	0.20	9.2	-62.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	6	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	6	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: 34450 Beacon, right side of porch
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00002
Well ID MW-139S
Date 11-13-19
Project Name/Location Ford LTP
Weather 21.02 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 3.13
Total Depth (ft-bmp) 6.90
Water Column (ft.) 3.77
Gallons in Well 0.61
Pump Intake (ft-bmp) 4.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.30

Sample Time: Label 14:47
Volume Purged 0.79 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 14:15
Purge End 14:45

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:15	0	100	3.15	0.00	7.26	0.69	0.02	1.17	11.0	27.8	Clear	No Odor
14:20	5	100	3.15	0.13	7.20	0.67	0.02	0.83	11.4	30.2	Clear	No Odor
14:25	5	100	3.15	0.26	7.16	0.65	0.02	0.72	12.3	33.8	Clear	No Odor
14:30	5	109	3.15	0.39	7.14	0.65	0.02	0.66	11.4	36.2	Clear	No Odor
14:35	5	100	3.15	0.53	7.15	0.64	0.02	0.57	11.4	37.8	Clear	No Odor
14:40	5	100	3.15	0.66	7.14	0.64	0.02	0.55	11.5	38.5	Clear	No Odor
14:45	5	100	3.15	0.79	7.15	0.65	0.03	0.54	11.4	38.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 5 ft from ditch
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-140S
Date 11-12-19
Project Name/Location Ford LTP
Weather 21.02 degrees F, Mostly Clear
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 4.43
Total Depth (ft-bmp) 6.46
Water Column (ft.) 2.03
Gallons in Well 0.33
Pump Intake (ft-bmp) 6.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 4.73
Sample Time: Label 13:12
Volume Purged 1.56 gallons
Replicate/Code No. MW-140S-MS_111219, MW-140S-MSD_111219
Sampled by Heather Woodrum
Purge Start 12:10
Purge End 13:10

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:10	0	100	4.45	0.00	7.47	0.21	0.00	1.77	9.7	95.4	Clear	No Odor
12:15	5	100	4.45	0.13	7.57	0.21	0.00	1.44	10.2	87.8	Clear	No Odor
12:20	5	100	4.45	0.26	7.62	0.21	0.02	1.24	10.2	82.7	Clear	No Odor
12:25	5	100	4.45	0.39	7.63	0.21	0.02	1.16	9.6	80.4	Clear	No Odor
12:30	5	100	4.44	0.52	7.70	0.22	0.02	0.87	9.9	74.9	Clear	No Odor
12:35	5	100	4.45	0.65	7.65	0.24	0.02	0.69	10.2	79.2	Clear	No Odor
12:40	5	100	4.45	0.78	7.64	0.26	0.02	0.70	10.3	78.3	Clear	No Odor
12:45	5	100	4.45	0.91	7.64	0.27	0.02	0.59	10.4	78.4	Clear	No Odor
12:50	5	100	4.45	1.04	7.64	0.27	0.02	0.47	10.3	77.6	Clear	No Odor
12:55	5	100	4.45	1.17	7.65	0.27	0.02	0.46	10.5	74.2	Clear	No Odor
13:00	5	100	4.45	1.30	7.60	0.27	0.02	0.52	9.6	79.3	Clear	No Odor
13:05	5	100	4.45	1.43	7.61	0.27	0.02	0.44	10.0	76.2	Clear	No Odor
13:10	5	100	4.45	1.56	7.57	0.27	0.02	0.46	10.1	77.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	9	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	9	HCL

Comments

Bentonite swelling

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: In yard, 30 ft from window
Well Locked at Arrival: yes
Condition of Well: Poor
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-141S
Date 11-13-19
Project Name/Location Ford LTP
Weather 17.06 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 3-8
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.22
Total Depth (ft-bmp) 7.69
Water Column (ft.) 1.47
Gallons in Well 0.24
Pump Intake (ft-bmp) 7.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.29
Sample Time: Label 12:32
Volume Purged 0.79 gallons
Replicate/Code No. DUP-07
Sampled by Heather Woodrum
Purge Start 11:55
Purge End 12:30

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:55	0	10	6.33	0.00	7.15	0.72	0.02	2.32	9.5	36.9	Clear	No Odor
12:00	5	100	6.33	0.01	7.15	0.73	0.02	1.90	9.9	34.9	Clear	No Odor
12:05	5	100	6.33	0.14	7.18	0.75	0.02	1.54	8.7	37.0	Clear	No Odor
12:10	5	100	6.33	0.27	7.18	0.72	0.02	1.07	10.4	36.2	Clear	No Odor
12:15	5	100	6.33	0.40	7.09	0.73	0.02	0.88	10.0	39.4	Clear	No Odor
12:20	5	100	6.33	0.53	7.10	0.73	0.02	0.49	10.2	38.5	Clear	No Odor
12:25	5	100	6.33	0.66	7.09	0.73	0.02	0.49	10.2	39.1	Clear	No Odor
12:30	5	100	6.33	0.79	7.11	0.74	0.02	0.48	10.3	38.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	6	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	6	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Directly in line with address post
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-142S
Date 11-13-19
Project Name/Location Ford LTP
Weather 21.02 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-7.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 4.72
Total Depth (ft-bmp) 6.86
Water Column (ft.) 2.14
Gallons in Well 0.35
Pump Intake (ft-bmp) 6.22
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 5.14

Sample Time: Label 13:30
Volume Purged 1.8 gallons
Replicate/Code No. --
Sampled by Julia McClafferty
Purge Start 12:42
Purge End 13:30

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:43	0	150	4.79	0.00	6.98	1.34	116.00	0.93	11.8	-29.8	Cloudy, Small Orange Particulates,	No Odor
12:48	5	150	4.79	0.20	6.89	1.27	154.00	0.77	11.9	-28.1	Cloudy, Small Orange Particulates,	No Odor
12:53	5	150	4.79	0.40	6.90	1.26	85.50	0.48	12.1	-27.4	Cloudy, Small Orange Particulates,	No Odor
12:58	5	150	4.79	0.60	6.90	1.26	48.30	0.42	12.2	-26.5	Cloudy	No Odor
13:03	5	150	4.79	0.80	6.91	1.25	23.40	0.35	12.2	-26.0	Clear	No Odor
13:08	5	150	4.79	1.00	6.91	1.26	14.70	0.32	12.1	-25.8	Clear	No Odor
13:13	5	150	4.79	1.20	6.92	1.24	7.63	0.30	12.4	-25.8	Clear	No Odor
13:18	5	150	4.79	1.40	6.92	1.24	4.53	0.28	12.4	-24.6	Clear	No Odor
13:23	5	150	4.79	1.60	6.91	1.24	2.18	0.27	12.3	-23.9	Clear	No Odor
13:28	5	150	4.79	1.80	6.92	1.24	1.21	0.27	12.5	-24.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: To the right of gate entrance off of Rosati
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-192S
Date 11-15-19
Project Name/Location Ford LTP
Weather 28.04 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-7.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 2.07
Total Depth (ft-bmp) 7.69
Water Column (ft.) 5.62
Gallons in Well 0.91
Pump Intake (ft-bmp) 3.57
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.68
Sample Time: Label 10:46
Volume Purged 1.53 gallons
Replicate/Code No. --
Sampled by Julia McClafferty
Purge Start 9:58
Purge End 10:46

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:59	0	130	2.16	0.00	7.65	1.33	21.70	0.55	10.1	63.5	Clear, Small Orange Particulates	No Odor
10:04	5	130	2.16	0.17	7.54	1.34	18.20	0.42	10.7	59.6	Clear, Small Orange Particulates	No Odor
10:09	5	130	2.16	0.34	7.51	1.34	12.00	0.33	10.7	52.0	Clear, Small Orange Particulates	No Odor
10:14	5	130	2.16	0.51	7.51	1.36	10.70	0.31	10.8	48.0	Clear, Small Orange Particulates	No Odor
10:19	5	130	2.16	0.68	7.50	1.37	8.52	0.25	10.8	42.3	Clear, Small Orange Particulates	No Odor
10:24	5	130	2.16	0.85	7.49	1.37	6.31	0.28	10.8	38.6	Clear, Small Orange Particulates	No Odor
10:29	5	130	2.16	1.02	7.51	1.39	5.73	0.26	10.9	31.6	Clear, Small Orange Particulates	No Odor
10:34	5	130	2.16	1.19	7.51	1.41	3.51	0.20	10.9	26.1	Clear	No Odor
10:39	5	130	2.16	1.36	7.51	1.41	3.24	0.23	10.8	22.3	Clear	No Odor
10:44	5	130	2.16	1.53	7.48	1.42	3.12	0.40	10.7	17.4	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: 12036 Brewster Ave
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-193S			Date	11-14-19
Project Name/Location			Ford LTP	Weather	30.92 degrees F, Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	3-8	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.54	Total Depth (ft-bmp)	7.33	Water Column (ft.)	2.79	Gallons in Well	0.45
		Pump Intake (ft-bmp)	6.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.47				
Sample Time: Label	12:52	Volume Purged	0.66 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	12:20						
Purge End	12:50						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:20	0	10	4.58	0.00	7.02	0.69	0.02	0.90	11.5	21.7	Clear	No Odor
12:25	5	100	4.63	0.01	7.03	0.69	0.02	0.53	11.6	20.2	Clear	No Odor
12:30	5	100	4.65	0.14	7.02	0.68	0.02	0.35	12.2	17.4	Clear	No Odor
12:35	5	100	4.65	0.27	6.99	0.68	0.02	0.30	12.1	17.9	Clear	No Odor
12:40	5	100	4.65	0.40	7.01	0.67	0.02	0.22	12.3	17.2	Clear	No Odor
12:45	5	100	5.65	0.53	7.00	0.67	0.02	0.16	12.4	17.1	Clear	No Odor
12:50	5	100	5.65	0.66	7.02	0.67	0.02	0.15	12.5	16.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	In line with front door	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	no
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP In line with front door

Prepared By: Heather Woodrum

Date	Time	Description of Activities
11/14/2019	12:10	Arrive onsite
11/14/2019	12:18	Record static depth to water
11/14/2019	12:20	Begin purging well
11/14/2019	12:52	Collect sample MW-193S_111419
11/14/2019	12:50	End purge and turn off pump, begin decon of equpment
11/14/2019	13:05	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-88S
Date 11-14-19
Project Name/Location Ford LTP
Weather 30.92 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 3-13
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.64
Total Depth (ft-bmp) 12.87
Water Column (ft.) 5.23
Gallons in Well 0.85
Pump Intake (ft-bmp) 9.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.33
Sample Time: Label 13:20
Volume Purged 1.98 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 12:42
Purge End 13:17

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:44	0	250	7.41	0.00	8.62	0.31	5.60	1.05	13.1	57.9	Clear, Small Orange Particulates	No Odor
12:49	5	250	7.41	0.33	8.91	0.29	0.02	0.38	13.3	51.6	Clear	No Odor
12:54	5	250	7.41	0.66	9.24	0.26	0.02	0.21	13.4	45.4	Clear	No Odor
12:59	5	250	7.41	0.99	9.27	0.26	0.02	0.19	13.5	43.8	Clear	No Odor
13:04	5	250	7.41	1.32	9.25	0.25	0.02	0.19	13.4	43.0	Clear	No Odor
13:09	5	250	7.41	1.65	9.35	0.25	0.02	0.16	13.3	40.0	Clear	No Odor
13:14	5	250	7.41	1.98	9.34	0.25	0.02	0.17	13.4	40.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments
None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Back yard near white fence and AC unit
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Back yard near white fence and AC unit

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/14/2019	12:24	Arrive onsite
11/14/2019	12:40	Record static depth to water
11/14/2019	12:42	Begin purging well
11/14/2019	13:20	Collect sample MW-88S_111419
11/14/2019	13:17	End purge and turn off pump, begin decon of equpment
11/14/2019	13:35	Offsite
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Field staff signature:

Christina Weaver

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-89S
Date 11-14-19
Project Name/Location Ford LTP
Weather 33.08 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 3-13
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 4.94
Total Depth (ft-bmp) 12.60
Water Column (ft.) 7.66
Gallons in Well 1.24
Pump Intake (ft-bmp) 6.44
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.39
Sample Time: Label 16:21
Volume Purged 1.72 gallons
Replicate/Code No. --
Sampled by Madison Olender
Purge Start 15:44
Purge End 16:23

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:45	0	200	4.94	0.00	7.38	0.50	2.10	2.70	11.4	-6.4	Clear	No Odor
15:50	5	200	4.94	0.26	7.38	0.52	0.02	1.86	11.9	-18.3	Clear	No Odor
15:55	5	200	4.94	0.52	7.42	1.38	0.02	1.41	12.5	6.0	Clear	No Odor
16:00	5	200	4.94	0.78	7.21	2.45	0.02	11.60	12.5	11.4	Clear	No Odor
16:05	5	200	4.94	1.04	7.20	2.84	0.02	1.12	12.5	11.0	Clear	No Odor
16:10	5	200	4.94	1.30	7.19	3.23	0.02	0.98	12.6	-12.1	Clear	No Odor
16:15	5	200	4.94	1.56	7.18	3.24	0.02	0.97	12.7	-12.3	Clear	No Odor
16:18	3	200	4.94	1.72	7.18	3.25	0.02	0.96	12.7	-12.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 34940 Beacon
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34940 Beacon

Prepared By: Madison Olender

Date	Time	Description of Activities
11/14/2019	15:37	Arrive onsite
11/14/2019	15:42	Record static depth to water
11/14/2019	15:44	Begin purging well
11/14/2019	16:21	Collect sample MW-89S_111419
11/14/2019	16:23	End purge and turn off pump, begin decon of equpment
11/14/2019	16:33	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-90S
Date 11-21-19
Project Name/Location Ford LTP
Weather 46.94 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 2.22
Total Depth (ft-bmp) 12.50
Water Column (ft.) 10.28
Gallons in Well 1.67
Pump Intake (ft-bmp) 3.72
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.87
Sample Time: Label 16:43
Volume Purged 1.46 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 16:05
Purge End 16:43

Mary-Catherine Goddard

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
16:05	0	140	2.51	0.00	6.66	1.99	3.57	1.76	11.3	-90.2	Clear, Small White Particulates	No Odor
16:10	5	150	2.51	0.18	6.53	1.14	1.60	0.87	11.3	-107.2	Clear, Small White Particulates	No Odor
16:15	5	150	2.91	0.38	6.55	1.10	0.41	0.90	11.1	-113.5	Clear, Small White Particulates	No Odor
16:20	5	150	3.03	0.58	6.56	1.08	0.02	0.91	11.2	-118.5	Clear	No Odor
16:26	6	150	3.18	0.82	6.56	1.07	0.02	0.82	11.1	-120.4	Clear	No Odor
16:31	5	150	3.31	1.02	6.56	1.07	0.02	0.72	11.1	-122.1	Clear	No Odor
16:36	5	150	3.42	1.22	6.55	1.08	0.02	0.60	11.2	-123.7	Clear	No Odor
16:39	3	150	3.49	1.34	6.55	1.08	0.02	0.58	11.1	-125.4	Clear	No Odor
16:42	3	150	3.56	1.46	6.55	1.08	0.02	0.55	11.2	-126.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments
None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: 34380 Capitol, side of house
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34380 Capitol, side of house

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/21/2019	15:55	Arrive onsite
11/21/2019	15:59	Record static depth to water
11/21/2019	16:05	Begin purging well
11/21/2019	16:43	Collect sample MW-90S_112119
11/21/2019	16:43	End purge and turn off pump, begin decon of equpment
11/21/2019	16:59	Offsite
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Field staff signature:

Mary-Catherine Goddard

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-91S			Date	11-18-19
Project Name/Location			Ford LTP	Weather			48.92 degrees F, Mostly Clear
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.47	Total Depth (ft-bmp)	11.98	Water Column (ft.)	6.51	Gallons in Well	1.06
		Pump Intake (ft-bmp)	6.97	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.89				
Sample Time: Label	16:16	Volume Purged	2 gallons	Replicate/Code No.	--	Sampled by	Julia McClafferty
Purge Start	15:17						
Purge End	16:16						

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:17	0	100	5.51	0.00	7.44	0.93	37.80	1.09	13.4	-26.9	Cloudy, Small Black Particulates,	No Odor
15:22	5	100	5.48	0.13	7.44	0.95	39.40	1.00	13.4	-24.7	Cloudy	No Odor
15:27	5	100	5.48	0.26	7.41	0.97	36.10	0.90	13.4	-21.3	Cloudy	No Odor
15:32	5	140	5.48	0.39	7.43	1.01	35.70	0.92	13.7	-18.9	Cloudy	No Odor
15:37	5	140	5.48	0.57	7.43	1.07	36.20	0.79	13.8	-18.1	Clear	No Odor
15:42	5	140	5.48	0.75	7.42	1.10	32.10	0.68	13.7	-19.0	Clear	No Odor
15:47	5	140	5.48	0.93	7.42	1.13	23.90	0.55	13.7	-22.7	Clear	No Odor
15:52	5	140	5.49	1.11	7.41	1.16	19.60	0.46	13.7	-26.2	Clear	No Odor
15:57	5	130	5.49	1.29	7.42	1.19	22.90	0.42	13.7	-31.5	Clear	No Odor
16:02	5	140	5.49	1.46	7.42	1.20	14.80	0.39	13.7	-35.1	Clear	No Odor
16:07	5	140	5.49	1.64	7.43	1.21	10.50	0.35	13.7	-39.7	Clear	No Odor
16:12	5	140	5.49	1.82	7.42	1.23	10.90	0.31	13.6	-42.1	Clear	No Odor
16:17	5	140	5.49	2.00	7.43	1.23	8.09	0.31	13.7	-45.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	12034 Brewster	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 12034 Brewster

Prepared By: Julia McClafferty

Date	Time	Description of Activities
11/18/2019	15:01	Arrive onsite
11/18/2019	15:15	Record static depth to water
11/18/2019	15:17	Begin purging well
11/18/2019	16:16	Collect sample MW-91S_111819
11/18/2019	16:16	End purge and turn off pump, begin decon of equpment
11/18/2019	16:30	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-92S
Date 11-19-19
Project Name/Location Ford LTP
Weather 35.06 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.58
Total Depth (ft-bmp) 12.10
Water Column (ft.) 6.52
Gallons in Well 1.06
Pump Intake (ft-bmp) 7.08
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.29
Sample Time: Label 10:37
Volume Purged 2.43 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 9:30
Purge End 10:37

Mary-Catherine Goddard

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:34	0	140	5.60	0.00	7.12	0.88	3.37	1.33	14.4	59.6	Clear	No Odor
9:39	5	160	5.58	0.18	7.19	1.01	2.08	0.91	14.6	48.5	Clear	No Odor
9:44	5	150	5.58	0.39	7.23	1.08	2.18	0.95	14.4	42.9	Clear	No Odor
9:48	4	150	5.58	0.55	7.25	1.20	0.21	0.82	14.5	36.4	Clear	No Odor
9:53	5	150	5.58	0.75	7.25	1.28	0.63	0.84	14.4	29.2	Clear	No Odor
9:58	5	150	5.58	0.95	7.27	1.35	0.02	0.75	14.6	19.4	Clear	No Odor
10:05	7	150	5.59	1.23	7.28	1.42	0.48	0.77	14.6	4.9	Clear	No Odor
10:10	5	150	5.59	1.43	7.30	1.44	0.34	0.73	14.6	-4.3	Clear	No Odor
10:15	5	150	5.59	1.63	7.30	1.47	0.02	0.70	14.6	-13.2	Clear	No Odor
10:20	6	150	5.59	1.83	7.31	1.48	0.14	0.72	14.6	-22.9	Clear	No Odor
10:25	5	150	5.59	2.03	7.31	1.50	0.23	0.67	14.7	-30.7	Clear	No Odor
10:30	5	150	5.59	2.23	7.31	1.51	0.44	0.72	14.7	-38.3	Clear	No Odor
10:35	5	150	5.59	2.43	7.32	1.51	0.02	0.68	14.7	-45.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: 12036 Brewster
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 12036 Brewster

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/19/2019	9:12	Arrive onsite
11/19/2019	9:28	Record static depth to water
11/19/2019	9:30	Begin purging well
11/19/2019	10:37	Collect sample MW-92S_111919
11/19/2019	10:37	End purge and turn off pump, begin decon of equpment
11/19/2019	11:02	Offsite
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Field staff signature:

Mary-Catherine Goddard

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID		MW-93S		Date	11-18-19
Project Name/Location			Ford LTP	Weather		46.04 degrees F, Mostly Clear	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.10	Total Depth (ft-bmp)	12.05	Water Column (ft.)	5.95	Gallons in Well	0.97
		Pump Intake (ft-bmp)	8.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.38				
Sample Time: Label	13:40	Volume Purged	2.31 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	13:00						
Purge End	13:37						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
13:01	0	250	6.12	0.00	7.57	0.61	0.16	3.30	12.3	27.3	Clear	No Odor
13:06	5	250	6.13	0.33	7.57	0.63	1.52	1.18	13.1	33.6	Clear	No Odor
13:11	5	250	6.14	0.66	7.56	0.66	6.54	0.75	13.1	35.3	Clear	No Odor
13:16	5	250	6.14	0.99	7.59	0.81	0.56	0.55	13.3	42.5	Clear	No Odor
13:21	5	250	6.14	1.32	7.60	0.81	5.13	0.50	13.3	39.3	Clear	No Odor
13:26	5	250	6.14	1.65	7.59	0.82	3.62	0.56	13.4	34.6	Clear	No Odor
13:31	5	250	6.14	1.98	7.60	0.83	4.43	0.53	13.4	31.8	Clear	No Odor
13:36	5	250	6.14	2.31	7.60	0.82	0.90	0.52	13.4	28.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Front yard next to small pine tree and driveway 4 cement blocks away from garage	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Front yard next to small pine tree and driveway 4 cement blocks away from garage

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/18/2019	12:48	Arrive onsite
11/18/2019	12:58	Record static depth to water
11/18/2019	13:00	Begin purging well
11/18/2019	13:40	Collect sample MW-93S_111819
11/18/2019	13:37	End purge and turn off pump, begin decon of equpment
11/18/2019	13:50	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-94S			Date	11-18-19
Project Name/Location			Ford LTP	Weather	48.92 degrees F, Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.44	Total Depth (ft-bmp)	12.23	Water Column (ft.)	5.79	Gallons in Well	0.94
		Pump Intake (ft-bmp)	8.44	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.67				
Sample Time: Label	15:00	Volume Purged	2.51 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	14:16						
Purge End	14:58						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
14:17	0	250	6.46	0.00	7.47	0.55	3.44	1.05	14.0	26.0	Clear	No Odor
14:22	5	250	6.45	0.33	7.47	0.55	5.47	0.61	14.0	13.9	Clear	No Odor
14:27	5	250	6.46	0.66	7.47	0.56	6.45	0.56	14.1	13.7	Clear	No Odor
14:32	5	250	6.46	0.99	7.48	0.63	8.48	0.35	14.3	19.5	Clear	No Odor
14:37	5	250	6.46	1.32	7.49	0.70	8.44	0.33	14.3	24.4	Clear	No Odor
14:42	5	250	6.46	1.65	7.49	0.72	7.82	0.36	14.4	25.2	Clear	No Odor
14:47	5	250	6.46	1.98	7.49	0.75	6.82	0.38	14.2	27.0	Clear	No Odor
14:52	5	250	6.46	2.31	7.48	0.77	7.08	0.36	14.2	27.7	Clear	No Odor
14:55	3	250	6.46	2.51	7.48	0.77	7.48	0.34	14.2	27.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Front side yard behind small single bush near porch	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Front side yard behind small single bush near porch

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/18/2019	14:05	Arrive onsite
11/18/2019	14:14	Record static depth to water
11/18/2019	14:16	Begin purging well
11/18/2019	15:00	Collect sample MW-94S_111819
11/18/2019	14:58	End purge and turn off pump, begin decon of equpment
11/18/2019	15:16	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002 Well ID MW-95S Date 11-15-19

Project Name/Location Ford LTP Weather 30.02 degrees F, Haze

Measuring Pt. Description Top of Casing Screen Setting (ft-bmp) 2.5-12.5 Casing Diameter (in.) 2 Well Material PVC

Static Water Level (ft-bmp) 4.68 Total Depth (ft-bmp) 12.00 Water Column (ft.) 7.32 Gallons in Well 1.19

Pump Intake (ft-bmp) 6.18 Purge Method Low-Flow Sample Method Low-Flow

Well Volumes Purged 1.88

Sample Time: Label 12:38 Volume Purged 2.24 gallons Replicate/Code No. -- Sampled by Juli Ryan

Purge Start 11:50

Purge End 12:40

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:51	0	200	4.67	0.00	7.19	0.73	0.02	6.94	11.5	-137.3	Clear	No Odor
11:56	5	200	4.70	0.26	7.21	0.80	0.22	6.32	12.5	-131.3	Clear	No Odor
12:01	5	200	5.70	0.52	7.10	1.57	5.26	3.22	12.9	-117.9	Clear	No Odor
12:06	5	200	4.70	0.78	7.09	2.43	4.49	1.59	13.1	-123.5	Clear, Small White Particulates	No Odor
12:11	5	200	4.70	1.04	7.08	2.70	3.00	1.42	13.1	-126.5	Clear, Small White Particulates	No Odor
12:16	5	200	4.70	1.30	7.08	2.80	0.21	1.44	13.1	-128.1	Clear, Small White Particulates	No Odor
12:21	5	200	4.70	1.56	7.08	2.94	0.02	1.09	13.2	-133.7	Clear	No Odor
12:26	5	200	4.70	1.82	7.08	2.93	0.02	1.06	13.0	-136.8	Clear	No Odor
12:31	5	200	4.70	2.08	7.08	2.89	0.02	1.13	12.8	-140.5	Clear	No Odor
12:34	3	200	4.70	2.24	7.08	2.85	0.02	1.08	12.9	-143.4	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: 12131 Boston post backyard Well Locked at Arrival: yes

Condition of Well: Good Well Locked at Departure: yes

Well Completion: Flush mount Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 12131 Boston post backyard

Prepared By: Juli Ryan

Date	Time	Description of Activities
11/15/2019	11:40	Arrive onsite
11/15/2019	11:48	Record static depth to water
11/15/2019	11:50	Begin purging well
11/15/2019	12:38	Collect sample MW-95S_111519
11/15/2019	12:40	End purge and turn off pump, begin decon of equpment
11/15/2019	12:50	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-103S
Date 11-15-19
Project Name/Location Ford LTP
Weather 28.94 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 3.85
Total Depth (ft-bmp) 6.75
Water Column (ft.) 2.90
Gallons in Well 0.47
Pump Intake (ft-bmp) 5.35
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.79
Sample Time: Label 11:47
Volume Purged 1.31 gallons
Replicate/Code No. --
Sampled by Madison Olender
Purge Start 11:14
Purge End 11:52

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
11:15	0	200	3.85	0.00	6.96	1.62	2.21	1.90	10.9	-24.4	Clear	No Odor
11:20	5	200	3.85	0.26	7.04	1.68	0.10	1.08	11.6	-42.0	Clear	No Odor
11:25	5	200	3.85	0.52	7.03	1.69	0.02	0.63	11.6	-43.6	Clear	No Odor
11:30	5	200	3.85	0.53	7.02	1.75	0.02	0.58	11.8	-48.2	Clear	No Odor
11:35	5	200	3.85	0.79	7.03	1.81	0.02	0.55	11.8	-58.0	Clear	No Odor
11:40	5	200	3.85	1.05	7.03	1.81	0.02	0.57	12.0	-59.1	Clear	No Odor
11:45	5	200	3.85	1.31	7.03	1.83	0.02	0.56	11.8	-60.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.25" = 0.06* *1.5" = 0.09* *2" = 0.16* *2.5" = 0.26* *3" = 0.37* *3.5" = 0.50* *4" = 0.65* *6" = 1.47*

Well Information

Well Location: 34424 Capitol
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34424 Capitol

Prepared By: Madison Olender

Date	Time	Description of Activities
11/15/2019	11:04	Arrive onsite
11/15/2019	11:12	Record static depth to water
11/15/2019	11:14	Begin purging well
11/15/2019	11:47	Collect sample MW-103S_111519
11/15/2019	11:52	End purge and turn off pump, begin decon of equpment
11/15/2019	12:04	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00002
Well ID MW-104S
Date 11-21-19
Project Name/Location Ford LTP
Weather 39.92 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 9-14
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 11.19
Total Depth (ft-bmp) 14.18
Water Column (ft.) 2.99
Gallons in Well 0.49
Pump Intake (ft-bmp) 12.69
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.45
Sample Time: Label 11:45
Volume Purged 1.2 gallons
Replicate/Code No. --
Sampled by Shantel Johnson
Purge Start 11:09
Purge End 11:50

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:11	0	150	11.29	0.00	7.04	0.17	8.08	7.85	12.3	687.7	Clear	No Odor
11:16	5	150	11.30	0.20	6.38	0.17	7.76	7.38	12.7	798.0	Clear	No Odor
11:21	5	150	11.30	0.40	6.35	0.17	4.99	5.80	12.8	775.1	Clear	No Odor
11:26	5	150	11.31	0.60	6.33	0.17	3.72	6.05	12.7	780.1	Clear	No Odor
11:31	5	150	11.31	0.80	6.73	0.17	2.57	6.03	12.6	760.2	Clear	No Odor
11:36	5	150	11.31	1.00	6.73	0.17	2.36	6.04	12.8	759.7	Clear	No Odor
11:41	5	150	11.31	1.20	6.74	0.17	1.38	6.02	12.9	767.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Back yard
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Back yard

Prepared By: Shantel Johnson

Date	Time	Description of Activities
11/21/2019	11:00	Arrive onsite
11/21/2019	11:05	Record static depth to water
11/21/2019	11:09	Begin purging well
11/21/2019	11:45	Collect sample MW-104S_112119
11/21/2019	11:50	End purge and turn off pump, begin decon of equpment
11/21/2019	12:05	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00002
Well ID MW-109S
Date 11-13-19
Project Name/Location Ford LTP
Weather 12.02 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.89
Total Depth (ft-bmp) 12.38
Water Column (ft.) 5.49
Gallons in Well 0.89
Pump Intake (ft-bmp) 8.40
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.53
Sample Time: Label 10:30
Volume Purged 3.14 gallons
Replicate/Code No. --
Sampled by Juli Ryan
Purge Start 9:27
Purge End 10:32

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
9:27	0	200	6.88	0.00	7.63	0.54	0.02	5.41	13.1	122.4	Clear	No Odor
9:32	5	200	6.88	0.26	7.48	2.17	0.02	1.49	12.9	115.5	Clear	No Odor
9:37	5	200	6.88	0.52	7.21	4.03	0.02	1.74	13.2	108.0	Clear	No Odor
9:42	5	200	6.88	0.78	7.21	4.18	3.64	1.79	13.4	102.2	Clear	No Odor
9:47	5	200	6.88	1.04	7.19	4.63	3.08	1.29	13.4	86.0	Clear	No Odor
9:52	5	200	6.88	1.30	7.20	4.93	3.41	1.05	13.5	67.4	Clear	No Odor
9:57	5	200	6.88	1.56	7.19	5.09	1.33	0.96	13.5	54.3	Clear	No Odor
10:02	5	200	6.88	1.82	7.19	5.24	1.64	0.91	13.6	40.1	Clear	No Odor
10:07	5	200	6.88	2.08	7.20	5.31	1.05	0.85	13.6	26.3	Clear	No Odor
10:10	3	200	6.88	2.24	7.19	5.37	0.43	0.82	13.7	17.4	Clear	No Odor
10:13	3	200	6.88	2.40	7.19	5.42	0.02	0.77	13.7	7.3	Clear	No Odor
10:16	3	200	6.88	2.56	7.20	5.42	0.02	0.80	13.7	-0.6	Clear	No Odor
10:19	3	200	6.88	2.72	7.21	5.41	0.02	0.77	13.6	-8.8	Clear	No Odor
10:27	8	200	6.88	3.14	7.21	5.29	0.02	0.80	13.6	-29.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 34990 beacon
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34990 beacon

Prepared By: Juli Ryan

Date	Time	Description of Activities
11/13/2019	9:17	Arrive onsite
11/13/2019	9:25	Record static depth to water
11/13/2019	9:27	Begin purging well
11/13/2019	10:30	Collect sample MW-109S_111319
11/13/2019	10:32	End purge and turn off pump, begin decon of equpment
11/13/2019	10:45	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-110S			Date	11-21-19
Project Name/Location	Ford LTP			Weather	39.92 degrees F, Haze		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	8-13	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.76	Total Depth (ft-bmp)	12.67	Water Column (ft.)	2.91	Gallons in Well	0.47
		Pump Intake (ft-bmp)	11.26	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	3.40				
Sample Time: Label	10:40	Volume Purged	1.6 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	9:56						
Purge End	10:46						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:58	0	150	9.87	0.00	6.03	0.37	8.82	6.04	13.3	237.8	Clear	No Odor
10:03	5	150	9.87	0.20	6.65	0.36	3.82	6.63	13.5	278.4	Clear	No Odor
10:08	5	150	9.87	0.40	7.03	0.36	3.75	6.27	13.3	290.6	Clear	No Odor
10:13	5	150	9.87	0.60	7.66	0.36	1.14	6.52	13.3	270.8	Clear	No Odor
10:18	5	150	9.88	0.80	6.76	0.36	2.13	5.43	13.2	321.1	Clear	No Odor
10:23	5	150	9.88	1.00	6.96	0.36	2.25	6.03	13.3	309.7	Clear	No Odor
10:28	5	150	9.88	1.20	7.22	0.36	1.92	5.88	13.4	303.6	Clear	No Odor
10:33	5	150	9.88	1.40	7.23	0.36	2.07	6.15	13.4	307.9	Clear	No Odor
10:38	5	150	9.88	1.60	7.23	0.36	1.50	6.18	13.5	308.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	34850 Standish near bushes	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34850 Standish near bushes

Prepared By: Shantel Johnson

Date	Time	Description of Activities
11/21/2019	9:25	Arrive onsite
11/21/2019	9:36	Record static depth to water
11/21/2019	9:56	Begin purging well
11/21/2019	10:40	Collect sample MW-110S_112119
11/21/2019	10:46	End purge and turn off pump, begin decon of equpment
11/21/2019	10:55	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-111S			Date	11-26-19
Project Name/Location		Ford LTP		Weather	48.02 degrees F, Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	8-13	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.71	Total Depth (ft-bmp)	12.71	Water Column (ft.)	4.00	Gallons in Well	0.65
		Pump Intake (ft-bmp)	10.21	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.06				
Sample Time: Label	12:29	Volume Purged	1.34 gallons	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	11:47						
Purge End	12:29						

Mary-Catherine Goddard

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:48	0	140	8.74	0.00	8.06	0.63	2.63	4.20	13.4	77.4	Clear, Small White Particulates	No Odor
11:53	5	140	8.74	0.18	7.26	0.54	3.08	2.54	13.5	83.0	Clear, Small White Particulates	No Odor
11:58	5	140	8.74	0.36	7.19	0.53	1.82	2.54	13.4	79.1	Clear	No Odor
12:03	5	140	8.74	0.54	7.17	0.54	1.42	2.29	13.4	79.2	Clear	No Odor
12:09	6	140	8.74	0.76	7.18	0.53	0.80	2.13	13.5	78.4	Clear	No Odor
12:15	6	140	8.74	0.98	7.19	0.53	0.09	1.94	13.5	79.1	Clear	No Odor
12:20	5	140	8.74	1.16	7.19	0.54	0.61	1.89	13.4	79.3	Clear	No Odor
12:25	5	140	8.74	1.34	7.20	0.54	0.41	1.80	13.5	79.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	12051 Stark	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 12051 Stark

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/26/2019	11:34	Arrive onsite
11/26/2019	11:41	Record static depth to water
11/26/2019	11:47	Begin purging well
11/26/2019	12:29	Collect sample MW-111S_112619
11/26/2019	12:29	End purge and turn off pump, begin decon of equpment
11/26/2019	12:45	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-112S
Date 11-14-19
Project Name/Location Ford LTP
Weather 28.94 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.76
Total Depth (ft-bmp) 11.68
Water Column (ft.) 3.92
Gallons in Well 0.64
Pump Intake (ft-bmp) 9.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.72
Sample Time: Label 12:00
Volume Purged 2.38 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 11:19
Purge End 11:58

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:19	0	250	7.79	0.00	7.13	0.11	31.90	6.42	12.7	54.9	Clear, Small White Particulates	No Odor
11:24	5	250	7.80	0.33	6.86	0.12	13.20	6.10	13.2	38.2	Clear	No Odor
11:29	5	250	7.80	0.66	6.83	0.14	7.34	5.73	13.2	46.6	Clear	No Odor
11:34	5	250	7.80	0.99	7.05	0.19	2.31	5.81	13.3	46.3	Clear	No Odor
11:39	5	250	7.80	1.32	7.16	0.24	0.02	5.14	13.3	43.8	Clear	No Odor
11:44	5	250	7.80	1.65	7.24	0.26	0.02	4.74	13.2	42.1	Clear	No Odor
11:49	5	250	7.80	1.98	7.28	0.27	0.02	4.97	13.3	41.6	Clear	No Odor
11:52	3	250	7.80	2.18	7.28	0.28	0.02	4.94	13.3	42.5	Clear	No Odor
11:55	3	250	7.80	2.38	7.29	0.28	0.02	4.82	13.3	42.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Front yard near gate to backyard
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Front yard near gate to backyard

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/14/2019	11:03	Arrive onsite
11/14/2019	11:17	Record static depth to water
11/14/2019	11:19	Begin purging well
11/14/2019	12:00	Collect sample MW-112S_111419
11/14/2019	11:58	End purge and turn off pump, begin decon of equpment
11/14/2019	12:15	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-115S			Date	11-14-19
Project Name/Location			Ford LTP	Weather	28.04 degrees F, Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.90	Total Depth (ft-bmp)	12.56	Water Column (ft.)	2.66	Gallons in Well	0.43
		Pump Intake (ft-bmp)	11.40	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	4.60				
Sample Time: Label	11:05	Volume Purged	1.98 gallons	Replicate/Code No.	--	Sampled by	Juli Ryan
Purge Start	10:23						
Purge End	11:08						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:24	0	200	5.45	0.00	7.00	3.59	16.40	0.96	13.3	65.3	Clear	No Odor
10:29	5	200	5.44	0.26	7.21	2.97	13.40	0.46	14.7	-13.5	Clear, Small Black Particulates	No Odor
10:34	5	200	5.45	0.52	7.28	2.52	0.72	0.34	14.7	-45.9	Clear, Small Black Particulates	No Odor
10:39	5	200	5.45	0.78	7.30	2.40	0.02	0.32	14.6	-59.8	Clear	No Odor
10:44	5	200	5.45	1.04	7.30	2.34	0.02	0.39	14.7	-73.0	Clear	No Odor
10:49	5	200	5.45	1.30	7.30	2.32	0.02	0.44	14.7	-80.7	Clear	No Odor
10:54	5	200	5.45	1.56	7.30	2.28	0.02	0.46	14.7	-86.2	Clear	No Odor
10:59	5	200	5.45	1.82	7.30	2.26	0.02	0.45	14.8	-90.8	Clear	No Odor
11:02	3	200	5.45	1.98	7.30	2.26	0.02	0.47	14.8	-92.4	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	12070 Boston post	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 12070 Boston post

Prepared By: Juli Ryan

Date	Time	Description of Activities
11/14/2019	9:51	Arrive onsite
11/14/2019	10:21	Record static depth to water
11/14/2019	10:23	Begin purging well
11/14/2019	11:05	Collect sample MW-115S_111419
11/14/2019	11:08	End purge and turn off pump, begin decon of equpment
11/14/2019	11:20	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00002
Well ID MW-116S
Date 11-14-19
Project Name/Location Ford LTP
Weather 28.04 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 3-13
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 8.84
Total Depth (ft-bmp) 13.80
Water Column (ft.) 4.96
Gallons in Well 0.81
Pump Intake (ft-bmp) 10.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.68
Sample Time: Label 10:40
Volume Purged 2.98 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 9:51
Purge End 10:39

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:54	0	250	8.91	0.00	7.29	0.19	45.60	4.82	12.9	149.2	Clear	No Odor
9:59	5	250	8.91	0.33	7.66	0.18	31.80	4.96	13.2	103.8	Clear	No Odor
10:04	5	250	8.90	0.66	7.74	0.19	26.10	3.65	13.3	66.3	Clear	No Odor
10:09	5	250	8.90	0.99	7.68	0.19	15.40	3.39	13.0	56.2	Clear	No Odor
10:14	5	250	8.91	1.32	7.44	0.22	12.50	3.03	13.4	34.0	Clear	No Odor
10:19	5	250	8.90	1.65	7.65	0.29	3.05	2.30	13.3	27.8	Clear	No Odor
10:24	5	250	8.90	1.98	7.70	0.30	0.29	2.21	13.4	26.8	Clear	No Odor
10:27	3	250	8.90	2.18	7.75	0.32	0.02	1.99	13.3	28.0	Clear	No Odor
10:30	3	250	8.90	2.38	7.77	0.34	0.02	1.87	13.3	27.8	Clear	No Odor
10:33	3	250	8.90	2.58	7.80	0.37	0.02	1.79	13.3	30.1	Clear	No Odor
10:36	3	250	8.90	2.78	7.80	0.37	0.02	1.74	13.4	29.2	Clear	No Odor
10:39	3	250	8.90	2.98	7.80	0.37	0.02	1.76	13.4	26.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.25" = 0.06* *1.5" = 0.09* *2" = 0.16* *2.5" = 0.26* *3" = 0.37* *3.5" = 0.50* *4" = 0.65* *6" = 1.47*

Well Information

Well Location: Backyard near widow of garage
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Backyard near widow of garage

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/14/2019	9:40	Arrive onsite
11/14/2019	9:49	Record static depth to water
11/14/2019	9:51	Begin purging well
11/14/2019	10:40	Collect sample MW-116S_111419
11/14/2019	10:39	End purge and turn off pump, begin decon of equpment
11/14/2019	10:50	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-117S			Date	11-15-19
Project Name/Location		Ford LTP		Weather		32.00 degrees F, Haze	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.40	Total Depth (ft-bmp)	12.42	Water Column (ft.)	5.02	Gallons in Well	0.82
		Pump Intake (ft-bmp)	9.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.99				
Sample Time: Label	13:58	Volume Purged	1.63 gallons	Replicate/Code No.	--	Sampled by	Juli Ryan
Purge Start	13:25						
Purge End	14:01						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:26	0	250	7.43	0.00	7.70	0.98	9.60	0.80	12.2	-199.3	Clear, Small Brown Particulates	No Odor
13:31	5	200	7.43	0.33	7.42	1.48	4.38	0.37	12.6	-174.6	Clear, Small Brown Particulates	No Odor
13:36	5	200	7.43	0.59	7.37	1.67	0.57	0.35	12.6	-168.9	Clear, Small Brown Particulates	No Odor
13:41	5	200	7.43	0.85	7.35	1.81	0.02	0.33	12.6	-167.0	Clear, Small Brown Particulates	No Odor
13:46	5	200	7.43	1.11	7.34	1.86	0.02	0.31	12.8	-168.9	Clear, Small Brown Particulates	No Odor
13:51	5	200	7.43	1.37	7.35	1.88	0.02	0.36	12.6	-170.2	Clear	No Odor
13:56	5	200	7.43	1.63	7.35	1.89	0.02	0.32	12.7	-171.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	12089 Boston post	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002

Page 1 of 1

Site Location: Ford LTP 12089 Boston post

Prepared By: Juli Ryan

Date	Time	Description of Activities
11/15/2019	13:15	Arrive onsite
11/15/2019	13:23	Record static depth to water
11/15/2019	13:25	Begin purging well
11/15/2019	13:58	Collect sample MW-117S_111519
11/15/2019	14:01	End purge and turn off pump, begin decon of equpment
11/15/2019	14:15	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-118S
Date 11-14-19
Project Name/Location Ford LTP
Weather 33.08 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.29
Total Depth (ft-bmp) 12.41
Water Column (ft.) 6.12
Gallons in Well 0.99
Pump Intake (ft-bmp) 7.80
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.90
Sample Time: Label 15:10
Volume Purged 1.88 gallons
Replicate/Code No. --
Sampled by Juli Ryan
Purge Start 14:33
Purge End 15:17

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:34	0	200	6.31	0.00	7.40	0.54	0.02	4.72	11.8	-154.6	Clear	No Odor
14:39	5	200	6.31	0.26	7.32	0.88	0.02	2.93	12.9	-122.6	Clear	No Odor
14:44	5	200	6.32	0.52	7.25	1.46	0.02	1.21	13.0	-113.7	Clear	No Odor
14:49	5	200	6.32	0.78	7.20	2.11	0.02	0.90	13.1	-111.7	Clear	No Odor
14:54	5	200	6.32	1.04	7.20	2.29	0.02	0.80	13.1	-113.8	Clear	No Odor
14:59	5	200	6.32	1.30	7.20	2.42	0.02	0.80	13.1	-118.5	Clear	No Odor
15:04	5	200	6.32	1.56	7.20	2.50	0.02	0.70	13.2	-123.0	Clear	No Odor
15:07	3	200	6.32	1.72	7.21	2.52	0.02	0.67	13.3	-125.7	Clear	No Odor
15:10	3	200	6.32	1.88	7.21	2.54	0.02	0.65	13.2	-128.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments
None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: 12124 Boston post
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 12124 Boston post

Prepared By: Juli Ryan

Date	Time	Description of Activities
11/14/2019	14:28	Arrive onsite
11/14/2019	14:31	Record static depth to water
11/14/2019	14:33	Begin purging well
11/14/2019	15:10	Collect sample MW-118S_111419
11/14/2019	15:17	End purge and turn off pump, begin decon of equpment
11/14/2019	15:25	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-119S			Date	11-12-19
Project Name/Location	Ford LTP			Weather	19.04 degrees F, Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.39	Total Depth (ft-bmp)	12.34	Water Column (ft.)	6.95	Gallons in Well	1.13
		Pump Intake (ft-bmp)	6.90	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.79				
Sample Time: Label	11:45	Volume Purged	3.15 gallons	Replicate/Code No.	--	Sampled by	Juli Ryan
Purge Start	10:43						
Purge End	11:49						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
10:43	0	200	5.39	0.00	7.28	0.78	0.02	0.86	13.2	215.2	Clear	No Odor
10:48	5	200	5.39	0.26	7.45	0.73	0.02	0.46	13.5	194.9	Clear	No Odor
10:53	5	200	5.39	0.52	7.42	0.79	0.02	0.41	13.6	186.6	Clear	No Odor
10:58	5	200	5.39	0.78	7.40	0.90	0.02	0.38	13.7	182.5	Clear	No Odor
11:03	5	200	5.39	1.04	7.37	1.07	0.02	0.39	13.5	175.7	Clear	No Odor
11:08	5	200	5.39	1.30	7.35	1.34	0.02	0.35	14.0	163.9	Clear	No Odor
11:13	5	200	5.39	1.56	7.34	1.55	0.02	0.34	13.9	149.2	Clear	No Odor
11:18	5	200	5.39	1.82	7.34	1.69	0.02	0.35	14.0	130.6	Clear	No Odor
11:21	3	200	5.39	1.98	7.35	1.73	0.02	0.41	13.8	116.5	Clear	No Odor
11:24	3	200	5.39	2.14	7.34	1.71	0.02	0.39	13.6	104.6	Clear	No Odor
11:27	3	200	5.39	2.30	7.34	1.69	0.02	0.42	13.7	95.3	Clear	No Odor
11:30	3	200	5.39	2.46	7.35	1.62	0.02	0.39	13.7	83.3	Clear	No Odor
11:33	3	200	5.39	2.62	7.35	1.66	0.02	0.40	13.8	75.6	Clear	No Odor
11:36	3	200	5.39	2.78	7.36	1.63	0.02	0.43	13.7	66.3	Clear	No Odor
11:39	3	200	5.39	2.94	7.36	1.65	0.02	0.40	13.7	60.6	Clear	No Odor
11:43	4	200	5.39	3.15	7.36	1.68	0.02	0.37	13.8	48.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	12034 Boston post	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 12034 Boston post

Prepared By: Juli Ryan

Date	Time	Description of Activities
11/12/2019	10:26	Arrive onsite
11/12/2019	10:41	Record static depth to water
11/12/2019	10:43	Begin purging well
11/12/2019	11:45	Collect sample MW-119S_111219
11/12/2019	11:49	End purge and turn off pump, begin decon of equpment
11/12/2019	12:00	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No. 30016346.00002
Well ID MW-121S
Date 11-18-19
Project Name/Location Ford LTP
Weather 33.08 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.59
Total Depth (ft-bmp) 12.10
Water Column (ft.) 5.51
Gallons in Well 0.90
Pump Intake (ft-bmp) 8.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.67
Sample Time: Label 10:20
Volume Purged 3.3 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 9:25
Purge End 10:18

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:27	0	250	6.61	0.00	7.31	0.53	110.00	0.95	12.6	127.5	Clear	No Odor
9:32	5	250	6.61	0.33	7.19	0.53	115.00	0.62	12.9	97.7	Clear	No Odor
9:37	5	250	6.61	0.66	7.26	0.53	64.20	0.50	12.9	57.1	Clear	No Odor
9:42	5	250	6.61	0.99	7.34	0.53	39.40	0.48	13.1	42.2	Clear	No Odor
9:47	5	250	6.61	1.32	7.35	0.53	33.20	0.47	13.1	38.5	Clear	No Odor
9:52	5	250	6.61	1.65	7.38	0.53	17.90	0.42	13.2	33.7	Clear	No Odor
9:57	5	250	6.61	1.98	7.38	0.53	5.21	0.65	13.2	31.9	Clear	No Odor
10:02	5	250	6.61	2.31	7.40	0.53	5.07	0.38	13.2	36.2	Clear	No Odor
10:07	5	250	6.61	2.64	7.40	0.53	0.02	0.33	13.2	36.7	Clear	No Odor
10:12	5	250	6.61	2.97	7.41	0.53	0.02	0.31	13.3	29.8	Clear	No Odor
10:17	5	250	6.61	3.30	7.41	0.53	0.02	0.29	13.3	30.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Front side yard on corner of Boston post and brewster
Well Locked at Arrival: no
Condition of Well: Good
Well Locked at Departure: no
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Front side yard on corner of Boston post and brewster

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/18/2019	9:05	Arrive onsite
11/18/2019	9:23	Record static depth to water
11/18/2019	9:25	Begin purging well
11/18/2019	10:20	Collect sample MW-121S_111819
11/18/2019	10:18	End purge and turn off pump, begin decon of equpment
11/18/2019	10:40	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-123S
Date 11-20-19
Project Name/Location Ford LTP
Weather 42.08 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-12.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 2.08
Total Depth (ft-bmp) 10.98
Water Column (ft.) 8.90
Gallons in Well 1.45
Pump Intake (ft-bmp) 3.58
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.61
Sample Time: Label 13:56
Volume Purged 2.34 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 12:52
Purge End 13:56

Mary-Catherine Goddard

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:54	0	130	2.10	0.00	7.09	1.07	2.23	3.08	10.8	-31.5	Clear, Small Brown Particulates, Small White Particulates	No Odor
12:59	5	130	2.10	0.17	6.97	1.07	0.02	2.50	11.0	-30.5	Clear, Small White Particulates	No Odor
13:04	5	150	2.10	0.34	6.98	1.05	0.02	2.45	10.8	-30.2	Clear, Small White Particulates	No Odor
13:09	5	150	2.10	0.54	6.98	1.05	0.02	2.39	10.8	-27.2	Clear, Small White Particulates	No Odor
13:14	5	150	2.10	0.74	6.99	1.06	0.02	2.27	10.9	-24.8	Clear, Small White Particulates	No Odor
13:19	5	150	2.10	0.94	6.99	1.06	0.02	2.31	10.7	-23.1	Clear, Small White Particulates	No Odor
13:24	5	150	2.10	1.14	7.00	1.23	0.02	1.65	11.0	-15.7	Clear, Small White Particulates	No Odor
13:29	5	150	2.10	1.34	7.01	1.35	0.02	1.40	11.2	-13.8	Clear, Small White Particulates	No Odor
13:34	5	150	2.10	1.54	7.02	1.46	0.02	1.16	11.3	-12.2	Clear	No Odor
13:39	5	150	2.10	1.74	7.03	1.54	0.02	1.01	11.3	-11.3	Clear	No Odor
13:44	5	150	2.10	1.94	7.03	1.63	0.02	0.88	11.4	-10.8	Clear	No Odor
13:49	5	150	2.10	2.14	7.04	1.71	0.02	0.79	11.5	-12.2	Clear	No Odor
13:54	5	150	2.10	2.34	7.05	1.72	0.02	0.71	11.5	-13.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Well vault filled with orange water with sheen. Disposed of excess prior to opening j-plug.

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Between 12075 Brewster and 12091 Brewster
Well Locked at Arrival: yes
Condition of Well: Fair
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Between 12075 Brewster and 12091 Brewster

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/20/2019	12:38	Arrive onsite
11/20/2019	12:44	Record static depth to water
11/20/2019	12:52	Begin purging well
11/20/2019	13:56	Collect sample MW-123S_112019
11/20/2019	13:56	End purge and turn off pump, begin decon of equpment
11/20/2019	14:18	Offsite
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Field staff signature:

Mary-Catherine Goddard

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-125
Date 11-14-19
Project Name/Location Ford LTP
Weather 28.94 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 7-12
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 1.54
Total Depth (ft-bmp) 11.78
Water Column (ft.) 10.24
Gallons in Well 1.66
Pump Intake (ft-bmp) 9.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.80
Sample Time: Label 11:20
Volume Purged 1.33 gallons
Replicate/Code No. --
Sampled by Julia McClafferty
Purge Start 10:35
Purge End 11:20

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:39	0	130	1.54	0.00	6.80	1.44	11.80	0.54	11.6	-33.9	Clear, Small Orange Particulates	No Odor
10:44	5	130	1.54	0.17	6.82	1.43	6.74	0.46	11.8	-39.1	Clear, Small Orange Particulates	No Odor
10:48	4	130	1.54	0.31	6.82	1.44	5.35	0.43	11.8	-43.6	Clear, Small Orange Particulates	No Odor
10:53	5	130	1.54	0.48	6.83	1.44	4.34	0.34	12.1	-46.4	Clear, Small Orange Particulates	No Odor
10:58	5	130	1.54	0.65	6.83	1.44	4.15	0.29	12.2	-46.6	Clear, Small Orange Particulates	No Odor
11:03	5	130	1.54	0.82	6.83	1.44	5.37	0.50	12.3	-45.3	Clear, Small Orange Particulates	No Odor
11:08	5	130	1.54	0.99	6.82	1.44	4.57	0.34	12.1	-43.9	Clear, Small Orange Particulates	No Odor
11:13	5	130	1.54	1.16	6.83	1.45	3.80	0.31	12.1	-43.6	Clear, Small Orange Particulates	No Odor
11:18	5	130	1.54	1.33	6.83	1.46	3.02	0.31	12.3	-43.5	Clear, Small Orange Particulates	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Around corner of building, across from train tracks
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Around corner of building, across from train tracks

Prepared By: Julia McClafferty

Date	Time	Description of Activities
11/14/2019	10:27	Arrive onsite
11/14/2019	10:33	Record static depth to water
11/14/2019	10:35	Begin purging well
11/14/2019	11:20	Collect sample MW-125_111419
11/14/2019	11:20	End purge and turn off pump, begin decon of equpment
11/14/2019	11:38	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-125S			Date	11-14-19
Project Name/Location		Ford LTP		Weather		30.92 degrees F, Cloudy	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2-7	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	1.54	Total Depth (ft-bmp)	6.76	Water Column (ft.)	5.22	Gallons in Well	0.85
		Pump Intake (ft-bmp)	3.04	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.87				
Sample Time: Label	12:30	Volume Purged	1.59 gallons	Replicate/Code No.	--	Sampled by	Julia McClafferty
Purge Start	11:41						
Purge End	12:30						

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:42	0	130	1.58	0.00	6.79	1.70	3.51	1.06	10.3	-64.0	Clear, Small Black Particulates	No Odor
11:47	5	130	1.58	0.17	6.79	1.70	2.27	0.72	10.3	-57.8	Clear, Small Black Particulates, Small Orange	No Odor
11:52	5	140	1.58	0.34	6.79	1.69	1.63	0.62	10.5	-49.7	Clear, Small Black Particulates	No Odor
11:57	5	140	1.58	0.52	6.78	1.69	1.49	0.49	10.7	-46.8	Clear, Small Black Particulates,	No Odor
12:02	5	140	1.58	0.70	6.78	1.68	1.61	0.44	10.7	-44.3	Clear, Small Black Particulates	No Odor
12:07	5	130	1.58	0.88	6.79	1.68	1.42	0.44	10.9	-43.2	Clear, Small Black Particulates	No Odor
12:12	5	140	1.58	1.05	6.78	1.68	1.25	0.68	10.8	-42.1	Clear, Small Black Particulates	No Odor
12:17	5	140	1.58	1.23	6.77	1.67	0.92	0.96	10.9	-40.6	Clear	No Odor
12:22	5	140	1.58	1.41	6.78	1.67	1.48	0.89	10.9	-40.8	Clear	No Odor
12:27	5	140	1.58	1.59	6.78	1.67	0.70	0.95	10.9	-40.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	Around corner of building, across from train tracks	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Around corner of building, across from train tracks

Prepared By: Julia McClafferty

Date	Time	Description of Activities
11/14/2019	11:36	Arrive onsite
11/14/2019	11:39	Record static depth to water
11/14/2019	11:41	Begin purging well
11/14/2019	12:30	Collect sample MW-125S_111419
11/14/2019	12:30	End purge and turn off pump, begin decon of equpment
11/14/2019	12:55	Offsite
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Field staff signature:

Julia McClafferty

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-126S
Date 11-21-19
Project Name/Location Ford LTP
Weather 39.92 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 3-13
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 9.19
Total Depth (ft-bmp) 12.79
Water Column (ft.) 3.60
Gallons in Well 0.58
Pump Intake (ft-bmp) 10.69
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.07
Sample Time: Label 15:17
Volume Purged 1.2 gallons
Replicate/Code No. --
Sampled by Shantel Johnson
Purge Start 14:41
Purge End 15:22

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:43	0	150	9.26	0.00	8.98	0.12	51.30	1.64	13.5	248.1	Clear	No Odor
14:48	5	150	9.26	0.20	9.09	0.12	15.10	1.65	14.4	245.8	Clear	No Odor
14:53	5	150	9.26	0.40	10.26	0.13	6.92	1.61	14.4	177.7	Clear	No Odor
14:58	5	150	9.27	0.60	9.18	0.12	5.05	1.59	14.4	241.9	Clear	No Odor
15:03	5	150	9.27	0.80	9.24	0.12	4.10	1.71	14.5	185.1	Clear	No Odor
15:07	4	150	9.27	0.96	9.41	0.12	3.91	1.72	14.5	237.9	Clear	No Odor
15:10	3	150	9.27	1.08	9.41	0.12	3.05	1.73	14.6	238.1	Clear	No Odor
15:13	3	150	9.27	1.20	9.44	0.12	2.12	1.64	14.2	239.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments
None

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: 34966 Standish side of house
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34966 Standish side of house

Prepared By: Shantel Johnson

Date	Time	Description of Activities
11/21/2019	14:30	Arrive onsite
11/21/2019	14:35	Record static depth to water
11/21/2019	14:41	Begin purging well
11/21/2019	15:17	Collect sample MW-126S_112119
11/21/2019	15:22	End purge and turn off pump, begin decon of equpment
11/21/2019	15:30	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-127S
Date 11-21-19
Project Name/Location Ford LTP
Weather 39.02 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 3-13
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 2.02
Total Depth (ft-bmp) 12.29
Water Column (ft.) 10.27
Gallons in Well 1.67
Pump Intake (ft-bmp) 3.52
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.02
Sample Time: Label 10:16
Volume Purged 1.71 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 9:27
Purge End 10:16

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:29	0	130	2.10	0.00	6.31	2.45	14.30	2.67	11.0	136.0	Clear, Small Brown Particulates	No Odor
9:34	5	130	2.10	0.17	6.52	2.48	12.90	0.70	11.0	114.5	Clear, Small Brown Particulates	No Odor
9:39	5	160	2.05	0.34	6.60	2.49	9.40	0.44	11.2	98.4	Clear, Small White Particulates	No Odor
9:44	5	150	2.05	0.55	6.63	2.50	6.53	0.41	11.1	86.3	Clear, Small White Particulates	No Odor
9:49	5	150	2.05	0.75	6.67	2.52	5.52	0.35	11.1	73.4	Clear, Small Orange Particulates,	No Odor
9:54	5	150	2.05	0.95	6.70	2.54	4.33	0.32	11.2	59.1	Clear, Small White Particulates	No Odor
9:59	5	150	2.05	1.15	6.71	2.55	4.28	0.31	11.2	55.2	Clear, Small White Particulates	No Odor
10:03	4	150	2.05	1.31	6.73	2.57	3.37	0.28	11.2	45.4	Clear, Small White Particulates	No Odor
10:07	4	150	2.05	1.47	6.74	2.58	3.55	0.28	11.2	38.7	Clear, Small White Particulates	No Odor
10:10	3	150	2.05	1.59	6.74	2.58	2.17	0.28	11.1	33.8	Clear, Small White Particulates	No Odor
10:13	3	150	2.05	1.71	6.75	2.59	2.54	0.24	11.1	29.7	Clear, Small White Particulates	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Benonite swelling and water in vault. Disposed of excess.

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.25" = 0.06* *1.5" = 0.09* *2" = 0.16* *2.5" = 0.26* *3" = 0.37* *3.5" = 0.50* *4" = 0.65* *6" = 1.47*

Well Information

Well Location: 34424 Beacon by side of house.
Well Locked at Arrival: yes
Condition of Well: Fair
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34424 Beacon by side of house.

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/21/2019	9:06	Arrive onsite
11/21/2019	9:21	Record static depth to water
11/21/2019	9:27	Begin purging well
11/21/2019	10:16	Collect sample MW-127S_112119
11/21/2019	10:16	End purge and turn off pump, begin decon of equpment
11/21/2019	10:33	Offsite
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Field staff signature:

Mary-Catherine Goddard

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-128S
Date 11-21-19
Project Name/Location Ford LTP
Weather 46.04 degrees F, Light Rain
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 4-14
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.99
Total Depth (ft-bmp) 13.09
Water Column (ft.) 6.10
Gallons in Well 0.99
Pump Intake (ft-bmp) 8.49
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.49
Sample Time: Label 15:30
Volume Purged 1.48 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 14:48
Purge End 15:30

Mary-Catherine Goddard

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:50	0	150	7.08	0.00	7.89	0.54	14.90	1.62	13.1	-72.4	Clear, Small White Particulates	No Odor
14:55	5	150	7.08	0.20	7.75	0.52	8.98	1.22	13.2	-92.1	Clear, Small White Particulates	No Odor
15:00	5	150	7.08	0.40	7.54	0.55	10.90	1.82	13.2	-98.6	Clear, Small White Particulates	No Odor
15:05	5	150	7.08	0.60	7.45	0.57	8.76	1.97	13.3	-103.3	Clear	No Odor
15:10	5	150	7.10	0.80	7.36	0.68	7.05	1.82	13.3	-101.4	Clear	No Odor
15:15	5	150	7.10	1.00	7.16	1.10	3.32	2.13	13.0	-89.0	Clear	No Odor
15:20	5	150	7.10	1.20	7.11	1.20	0.45	2.12	13.0	-92.9	Clear	No Odor
15:23	3	150	7.10	1.32	7.09	1.20	0.02	2.28	13.0	-96.2	Clear	No Odor
15:27	4	150	7.10	1.48	7.09	1.23	0.02	2.13	13.0	-99.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

One bolt was not fastened all the way

Well Casing Volumes

Gallons/Foot					
Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 34367 Capitol, front yard
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34367 Capitol, front yard

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/21/2019	14:31	Arrive onsite
11/21/2019	14:43	Record static depth to water
11/21/2019	14:48	Begin purging well
11/21/2019	15:30	Collect sample MW-128S_112119
11/21/2019	15:30	End purge and turn off pump, begin decon of equpment
11/21/2019	15:48	Offsite
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Field staff signature:

Mary-Catherine Goddard

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-129S
Date 11-19-19
Project Name/Location Ford LTP
Weather 35.96 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 3.36
Total Depth (ft-bmp) 6.81
Water Column (ft.) 3.45
Gallons in Well 0.56
Pump Intake (ft-bmp) 4.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 4.75
Sample Time: Label 11:45
Volume Purged 2.66 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 11:02
Purge End 11:42

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:03	0	280	3.41	0.00	7.26	0.53	79.50	2.40	10.1	87.2	Clear, Small Orange Particulates	No Odor
11:08	5	280	3.41	0.37	7.25	0.54	23.80	1.71	10.3	74.2	Clear, Small Orange Particulates	No Odor
11:13	5	280	3.41	0.74	7.24	0.55	8.01	0.94	10.7	69.2	Clear, Small Orange Particulates	No Odor
11:18	5	280	3.41	1.11	7.24	0.55	2.17	0.79	10.9	67.8	Clear, Small Orange Particulates	No Odor
11:23	5	280	3.41	1.48	7.24	0.56	0.02	0.70	11.1	65.3	Clear, Small Orange Particulates	No Odor
11:28	5	280	3.41	1.85	7.24	0.56	0.02	0.66	11.1	63.9	Clear, Small Orange Particulates	No Odor
11:33	5	280	3.41	2.22	7.23	0.56	0.02	0.55	11.1	62.0	Clear, Small Orange Particulates	No Odor
11:36	3	280	3.41	2.44	7.23	0.56	0.02	0.55	11.2	61.2	Clear, Small Orange Particulates	No Odor
11:39	3	280	3.41	2.66	7.23	0.56	0.02	0.50	11.4	60.6	Clear, Small Orange Particulates	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Back parking lot of reviving. Next to shed with graffiti of a city near piles of lumber
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Back parking lot of reviving. Next to shed with graffiti of a city near piles of lumber

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/19/2019	10:40	Arrive onsite
11/19/2019	11:00	Record static depth to water
11/19/2019	11:02	Begin purging well
11/19/2019	11:45	Collect sample MW-129S_111919
11/19/2019	11:42	End purge and turn off pump, begin decon of equpment
11/19/2019	12:00	Offsite
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Field staff signature:

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID		MW-130S		Date	11-18-19
Project Name/Location		Ford LTP		Weather		46.94 degrees F, Mostly Clear	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	3-13	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.09	Total Depth (ft-bmp)	13.21	Water Column (ft.)	9.12	Gallons in Well	1.48
		Pump Intake (ft-bmp)	5.59	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.57				
Sample Time: Label	15:23	Volume Purged	2.33 gallons	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	14:15						
Purge End	15:23						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:23	0	150	4.11	0.00	7.14	1.09	0.02	0.95	12.8	-181.1	Clear	No Odor
14:28	5	150	4.11	0.20	7.09	1.10	0.02	0.75	12.8	-218.4	Clear	No Odor
14:35	7	150	4.11	0.48	7.06	1.12	0.02	0.62	12.8	-245.6	Clear	No Odor
14:40	5	150	4.08	0.68	7.04	1.24	0.02	0.48	12.9	-269.8	Clear	No Odor
14:45	5	160	4.10	0.88	7.01	1.26	0.02	0.51	12.4	-272.1	Clear	No Odor
14:50	5	150	4.10	1.09	7.01	1.41	0.02	0.35	13.0	-282.3	Clear	No Odor
14:55	5	150	4.10	1.29	7.01	1.51	0.02	0.31	13.0	-291.3	Clear	No Odor
15:00	5	150	4.10	1.49	7.01	1.56	0.02	0.30	13.0	-295.6	Clear	No Odor
15:05	5	150	4.10	1.69	7.00	1.60	0.02	0.32	13.1	-292.5	Clear	No Odor
15:10	5	150	4.10	1.89	7.00	1.67	0.02	0.29	13.1	-291.4	Clear	No Odor
15:15	5	150	4.10	2.09	7.00	1.70	0.02	0.31	13.0	-296.4	Clear	No Odor
15:21	6	150	4.10	2.33	7.00	1.72	0.02	0.25	13.1	-294.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot
1" = 0.04
1.25" = 0.06
1.5" = 0.09
2" = 0.16
2.5" = 0.26
3" = 0.37
3.5" = 0.50
4" = 0.65
6" = 1.47

Well Information

Well Location:	34600 Beacon	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34600 Beacon

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/18/2019	13:56	Arrive onsite
11/18/2019	14:13	Record static depth to water
11/18/2019	14:15	Begin purging well
11/18/2019	15:23	Collect sample MW-130S_111819
11/18/2019	15:23	End purge and turn off pump, begin decon of equpment
11/18/2019	15:45	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-143S
Date 11-26-19
Project Name/Location Ford LTP
Weather 51.98 degrees F, Mostly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 5.5-10.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 8.18
Total Depth (ft-bmp) 10.12
Water Column (ft.) 1.94
Gallons in Well 0.32
Pump Intake (ft-bmp) 9.68
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 4.69
Sample Time: Label 14:42
Volume Purged 1.5 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 13:57
Purge End 14:42

Mary-Catherine

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:59	0	150	8.26	0.00	7.29	1.13	5.12	3.05	13.7	102.3	Clear	No Odor
14:04	5	160	8.24	0.20	6.88	1.04	5.21	1.37	13.9	83.5	Clear	No Odor
14:09	5	140	8.23	0.41	6.77	1.02	3.36	1.05	13.9	84.2	Clear	No Odor
14:14	5	140	8.23	0.59	6.75	1.00	1.85	0.90	13.8	85.4	Clear	No Odor
14:19	5	140	8.23	0.77	6.76	0.99	1.33	0.78	13.8	85.4	Clear	No Odor
14:24	5	140	8.23	0.95	6.78	0.98	1.06	0.67	13.8	85.2	Clear	No Odor
14:29	5	140	8.23	1.13	6.79	0.98	0.77	0.63	13.9	84.2	Clear	No Odor
14:32	3	140	8.23	1.24	6.80	0.98	0.42	0.54	13.8	84.4	Clear	No Odor
14:35	3	140	8.23	1.35	6.80	0.98	0.47	0.51	13.8	84.4	Clear	No Odor
14:39	4	140	8.23	1.50	6.80	0.97	0.70	0.53	13.8	85.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 12069 Stark
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 12069 Stark

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/26/2019	13:50	Arrive onsite
11/26/2019	13:53	Record static depth to water
11/26/2019	13:57	Begin purging well
11/26/2019	14:42	Collect sample MW-143S_112619
11/26/2019	14:42	End purge and turn off pump, begin decon of equpment
11/26/2019	14:53	Offsite
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Field staff signature:

Mary-Catherine Goddard

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-144S
Date 11-26-19
Project Name/Location Ford LTP
Weather 41.00 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 7-12
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 8.97
Total Depth (ft-bmp) 11.51
Water Column (ft.) 2.54
Gallons in Well 0.41
Pump Intake (ft-bmp) 10.47
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 4.17
Sample Time: Label 11:05
Volume Purged 1.71 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 10:13
Purge End 11:05

Mary-Catherine

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:13	0	130	8.98	0.00	8.21	0.46	1.44	3.17	12.2	99.7	Clear	No Odor
10:18	5	140	8.98	0.17	7.92	0.43	2.06	2.54	12.5	98.0	Clear	No Odor
10:26	8	140	8.99	0.47	7.64	0.42	1.79	2.18	12.6	93.6	Clear	No Odor
10:32	6	140	8.99	0.69	7.52	0.43	1.09	1.67	12.8	94.1	Clear	No Odor
10:37	5	140	8.99	0.87	7.45	0.44	0.47	1.67	12.7	95.1	Clear	No Odor
10:42	5	140	8.99	1.05	7.40	0.46	0.07	1.52	12.8	96.9	Clear	No Odor
10:48	6	140	8.99	1.27	7.38	0.47	0.29	1.46	12.9	97.0	Clear	No Odor
10:53	5	140	8.99	1.45	7.36	0.48	0.53	1.53	12.9	97.7	Clear	No Odor
11:00	7	140	8.99	1.71	7.35	0.48	0.02	1.53	12.8	97.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Swelling benonite and water in vault. Disposed of excess.

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: 12033 Stark by front of house
Well Locked at Arrival: yes
Condition of Well: Fair
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 12033 Stark by front of house

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/26/2019	9:54	Arrive onsite
11/26/2019	10:03	Record static depth to water
11/26/2019	10:13	Begin purging well
11/26/2019	11:05	Collect sample MW-144S_112619
11/26/2019	11:05	End purge and turn off pump, begin decon of equpment
11/26/2019	11:25	Offsite
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Field staff signature:

Mary-Catherine Goddard

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-145S
Date 11-25-19
Project Name/Location Ford LTP
Weather 39.02 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 6-11
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.95
Total Depth (ft-bmp) 9.96
Water Column (ft.) 3.01
Gallons in Well 0.49
Pump Intake (ft-bmp) 8.45
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.51
Sample Time: Label 10:27
Volume Purged 1.23 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 9:51
Purge End 10:27

Mary-Catherine Goddard

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:51	0	130	6.91	0.00	6.43	0.74	0.02	2.02	11.5	124.1	Clear, Small Black Particulates, Small White	No Odor
9:59	8	150	6.91	0.27	6.70	0.77	0.02	1.47	11.8	118.9	Clear, Small White Particulates	No Odor
10:04	5	140	6.91	0.47	6.74	0.92	0.02	0.94	11.9	124.6	Clear, Small White Particulates	No Odor
10:09	5	140	6.91	0.65	6.76	0.96	0.02	0.76	11.9	120.9	Clear, Small White Particulates	No Odor
10:14	5	140	6.91	0.83	6.75	0.95	0.02	0.87	12.0	117.7	Clear, Small White Particulates	No Odor
10:20	6	140	6.91	1.05	6.75	0.95	0.02	0.83	11.9	114.6	Clear	No Odor
10:25	5	140	6.91	1.23	6.75	0.96	0.02	0.85	11.9	112.4	Clear, Small White Particulates	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: Back yard, 10 feet from fence
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Back yard, 10 feet from fence

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/25/2019	9:34	Arrive onsite
11/25/2019	9:43	Record static depth to water
11/25/2019	9:51	Begin purging well
11/25/2019	10:27	Collect sample MW-145S_112519
11/25/2019	10:27	End purge and turn off pump, begin decon of equpment
11/25/2019	10:44	Offsite
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Field staff signature:

Mary-Catherine Goddard

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-146S
Date 11-25-19
Project Name/Location Ford LTP
Weather 42.98 degrees F, Mostly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 6-11
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.87
Total Depth (ft-bmp) 8.98
Water Column (ft.) 3.11
Gallons in Well 0.51
Pump Intake (ft-bmp) 7.37
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.49

Sample Time: Label 11:37
Volume Purged 1.27 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 11:04
Purge End 11:37

Mary-Catherine

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:05	0	170	5.95	0.00	7.71	1.61	0.02	4.35	11.8	92.4	Clear, Small Black Particulates	No Odor
11:10	5	160	5.92	0.22	6.65	1.52	0.02	5.62	12.1	87.2	Clear, Small Black Particulates, Small White	No Odor
11:15	5	160	5.92	0.43	6.62	1.54	0.02	5.34	12.2	83.8	Clear, Small White Particulates	No Odor
11:20	5	160	5.92	0.64	6.62	1.63	0.02	4.80	12.2	82.8	Clear, Small White Particulates	No Odor
11:25	5	160	5.92	0.85	6.64	1.64	0.02	4.12	12.3	79.7	Clear, Small White Particulates	No Odor
11:30	5	160	5.92	1.06	6.65	1.64	0.02	3.90	12.3	77.1	Clear	No Odor
11:35	5	160	5.92	1.27	6.65	1.66	0.02	3.82	12.3	75.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: 34367 Capitol
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34367 Capitol

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/25/2019	10:49	Arrive onsite
11/25/2019	10:57	Record static depth to water
11/25/2019	11:04	Begin purging well
11/25/2019	11:37	Collect sample MW-146S_112519
11/25/2019	11:37	End purge and turn off pump, begin decon of equpment
11/25/2019	11:50	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-147S
Date 11-25-19
Project Name/Location Ford LTP
Weather 44.06 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 4.06
Total Depth (ft-bmp) 6.64
Water Column (ft.) 2.58
Gallons in Well 0.42
Pump Intake (ft-bmp) 5.56
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.24

Sample Time: Label 12:48
Volume Purged 1.36 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 12:10
Purge End 12:48

Mary-Catherine Goddard

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:10	0	150	4.13	0.00	7.35	1.14	0.02	2.55	11.0	60.1	Clear, Small White Particulates	No Odor
12:15	5	150	4.15	0.20	6.87	1.05	0.02	2.13	11.0	53.9	Clear, Small White Particulates	No Odor
12:20	5	150	4.16	0.40	6.73	1.02	0.02	1.96	11.0	49.3	Clear, Small White Particulates	No Odor
12:26	6	150	4.16	0.64	6.68	1.06	0.02	1.83	10.9	51.9	Clear	No Odor
12:32	6	150	4.16	0.88	6.65	1.29	0.02	1.39	11.0	57.4	Clear	No Odor
12:37	5	150	4.16	1.08	6.66	1.33	0.02	1.40	11.0	54.3	Clear, Small Black Particulates, Small White Particulates	No Odor
12:41	4	150	4.16	1.24	6.67	1.34	0.02	1.35	11.0	52.1	Clear	No Odor
12:44	3	150	4.16	1.36	6.67	1.34	0.02	1.33	11.0	51.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 34401 Capitol, front yard near tree
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34401 Capitol, front yard near tree

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/25/2019	12:01	Arrive onsite
11/25/2019	12:04	Record static depth to water
11/25/2019	12:10	Begin purging well
11/25/2019	12:48	Collect sample MW-147S_112519
11/25/2019	12:48	End purge and turn off pump, begin decon of equpment
11/25/2019	13:13	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-148S			Date	11-5-19
Project Name/Location			Ford LTP	Weather	42.98 degrees F, Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2-7	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	2.78	Total Depth (ft-bmp)	6.32	Water Column (ft.)	3.54	Gallons in Well	0.58
		Pump Intake (ft-bmp)	4.28	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.17				
Sample Time: Label	12:29	Volume Purged	1.26 gallons	Replicate/Code No.	--	Sampled by	Julia McClafferty
Purge Start	11:55						
Purge End	12:29						

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:56	0	160	2.84	0.00	7.14	1.37	6.76	1.03	13.5	-7.5	Small White Particulates	No Odor
12:01	5	160	2.84	0.21	7.06	1.37	5.15	1.08	13.7	-2.7	Small White Particulates	No Odor
12:06	5	160	2.84	0.42	7.03	1.44	3.13	1.26	13.6	0.5	Clear	No Odor
12:11	5	160	2.84	0.63	7.03	1.51	2.39	1.32	13.7	-6.4	Clear	No Odor
12:16	5	160	2.84	0.84	7.03	1.53	1.88	1.07	13.7	-12.2	Clear	No Odor
12:21	5	160	2.84	1.05	7.02	1.55	1.05	1.15	13.8	-15.7	Clear	No Odor
12:26	5	160	2.84	1.26	7.02	1.57	1.26	1.17	13.8	-17.4	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Northwest of house	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Northwest of house

Prepared By: Julia McClafferty

Date	Time	Description of Activities
11/5/2019	11:42	Arrive onsite
11/5/2019	11:53	Record static depth to water
11/5/2019	11:55	Begin purging well
11/5/2019	12:29	Collect sample MW-148S_110519
11/5/2019	12:29	End purge and turn off pump, begin decon of equpment
11/5/2019	12:45	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-149S
Date 11-21-19
Project Name/Location Ford LTP
Weather 42.98 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 1.37
Total Depth (ft-bmp) 6.50
Water Column (ft.) 5.13
Gallons in Well 0.83
Pump Intake (ft-bmp) 2.87
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.55
Sample Time: Label 13:27
Volume Purged 1.29 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 12:48
Purge End 13:27

Mary-Catherine

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:50	0	150	1.42	0.00	7.08	2.23	4.54	1.00	9.6	-32.2	Clear, Small White Particulates	No Odor
12:58	8	150	1.42	0.32	6.87	2.19	1.69	0.45	10.1	-43.9	Clear, Small White Particulates	No Odor
13:03	5	150	1.42	0.52	6.84	2.16	2.73	0.34	9.9	-50.9	Clear, Small White Particulates	No Odor
13:08	5	150	1.42	0.72	6.84	2.16	2.02	0.30	10.0	-54.8	Clear, Small White Particulates	No Odor
13:13	5	150	1.42	0.92	6.83	2.17	0.02	0.25	10.0	-59.1	Clear, Small White Particulates	No Odor
13:18	5	130	1.42	1.12	6.83	2.15	0.02	0.24	9.9	-62.2	Clear, Small White Particulates	No Odor
13:23	5	130	1.42	1.29	6.83	2.15	0.02	0.21	10.1	-65.6	Clear, Small White Particulates	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Water in vault. Removed excess prior to opening j-plug.

Well Casing Volumes

Gallons/Foot ***1" = 0.04*** ***1.25" = 0.06*** ***1.5" = 0.09*** ***2" = 0.16*** ***2.5" = 0.26*** ***3" = 0.37*** ***3.5" = 0.50*** ***4" = 0.65*** ***6" = 1.47***

Well Information

Well Location: 34450 Beacon in back yard
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34450 Beacon in back yard

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/21/2019	12:32	Arrive onsite
11/21/2019	12:39	Record static depth to water
11/21/2019	12:48	Begin purging well
11/21/2019	13:27	Collect sample MW-149S_112119
11/21/2019	13:27	End purge and turn off pump, begin decon of equpment
11/21/2019	13:48	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-150S
Date 11-21-19
Project Name/Location Ford LTP
Weather 41.00 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 3.89
Total Depth (ft-bmp) 6.74
Water Column (ft.) 2.85
Gallons in Well 0.46
Pump Intake (ft-bmp) 5.39
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.74

Sample Time: Label 11:53
Volume Purged 1.72 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 10:59
Purge End 11:53

Mary-Catherine Goddard

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:00	0	130	3.91	0.00	6.95	1.14	5.91	2.75	9.9	11.0	Clear	No Odor
11:05	5	150	3.91	0.17	6.70	1.35	6.90	1.52	10.4	-4.5	Clear	No Odor
11:10	5	130	3.91	0.37	6.69	1.47	3.66	1.08	10.8	-3.4	Clear	No Odor
11:15	5	130	3.91	0.54	6.71	1.50	2.96	1.01	10.8	-2.9	Clear	No Odor
11:22	7	130	3.91	0.78	6.72	1.52	2.48	0.96	10.2	-1.0	Clear	No Odor
11:27	5	130	3.91	0.95	6.71	1.52	1.71	0.92	10.7	0.2	Clear	No Odor
11:32	5	130	3.91	1.12	6.72	1.54	0.45	0.82	11.0	-0.3	Clear	No Odor
11:35	3	130	3.91	1.22	6.73	1.54	0.43	0.77	11.0	-0.6	Clear	No Odor
11:38	3	130	3.91	1.32	6.73	1.54	0.02	0.68	11.0	-0.8	Clear	No Odor
11:41	3	130	3.91	1.42	6.73	1.50	0.27	0.70	11.1	-0.8	Clear	No Odor
11:44	3	130	3.91	1.52	6.73	1.55	0.02	0.63	11.0	-0.5	Clear	No Odor
11:47	3	130	3.91	1.62	6.73	1.53	0.02	0.63	11.0	-1.4	Clear	No Odor
11:50	3	130	3.91	1.72	6.72	1.54	0.02	0.64	11.0	-1.4	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 34380 Beacon in back yard
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34380 Beacon in back yard

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/21/2019	10:46	Arrive onsite
11/21/2019	10:52	Record static depth to water
11/21/2019	10:59	Begin purging well
11/21/2019	11:53	Collect sample MW-150S_112119
11/21/2019	11:53	End purge and turn off pump, begin decon of equpment
11/21/2019	12:12	Offsite
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Field staff signature:

Mary-Catherine Goddard

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-151S			Date	11-20-19
Project Name/Location	Ford LTP			Weather	41.00 degrees F, Haze		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-7.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	2.95	Total Depth (ft-bmp)	6.92	Water Column (ft.)	3.97	Gallons in Well	0.65
		Pump Intake (ft-bmp)	4.45	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.63				
Sample Time: Label	12:17	Volume Purged	1.06 gallons	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	11:38						
Purge End	12:17						

Mary-Catherine Goddard

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:41	0	130	2.97	0.00	7.07	1.24	0.29	2.45	11.0	1.1	Clear	No Odor
11:46	5	130	2.97	0.17	7.02	1.60	0.02	0.96	11.4	5.5	Clear, Small White Particulates	No Odor
11:51	5	130	2.97	0.34	7.06	1.69	0.02	0.67	11.5	-0.1	Clear, Small White Particulates	No Odor
11:56	5	130	2.97	0.51	7.09	1.73	0.02	0.51	11.5	-6.4	Clear	No Odor
12:02	6	130	2.97	0.72	7.11	1.75	0.02	0.46	11.5	-12.1	Clear, Small White Particulates	No Odor
12:07	5	130	2.97	0.89	7.13	1.77	0.02	0.42	11.6	-16.4	Clear, Small White Particulates	No Odor
12:12	5	130	2.97	1.06	7.13	1.78	0.02	0.45	11.4	-19.2	Clear, Small White Particulates	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Water in vault. Disposed of extra

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	12091 Brewster in back yard	Well Locked at Arrival:	yes
Condition of Well:	Fair	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 12091 Brewster in back yard

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/20/2019	11:11	Arrive onsite
11/20/2019	11:32	Record static depth to water
11/20/2019	11:38	Begin purging well
11/20/2019	12:17	Collect sample MW-151S_112019
11/20/2019	12:17	End purge and turn off pump, begin decon of equpment
11/20/2019	12:34	Offsite
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Field staff signature:

Mary-Catherine

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-152S
Date 11-18-19
Project Name/Location Ford LTP
Weather 42.98 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-7.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 4.10
Total Depth (ft-bmp) 6.73
Water Column (ft.) 2.63
Gallons in Well 0.43
Pump Intake (ft-bmp) 5.60
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 4.47
Sample Time: Label 12:36
Volume Purged 1.92 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 11:44
Purge End 12:36

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:46	0	150	4.16	0.00	6.90	1.25	0.02	5.71	11.6	-44.4	Clear	No Odor
11:52	6	150	4.16	0.24	6.91	1.24	0.02	0.89	11.7	-110.7	Clear	No Odor
11:57	5	150	4.16	0.44	6.90	1.22	0.02	0.54	11.7	-167.4	Clear	No Odor
12:03	6	150	4.16	0.68	6.90	1.17	0.02	0.48	11.7	-226.0	Clear	No Odor
12:09	6	150	4.16	0.92	6.90	1.13	0.02	0.57	11.6	-246.2	Clear	No Odor
12:14	5	150	4.16	1.12	6.90	1.12	0.02	0.66	11.7	-247.7	Clear	No Odor
12:19	5	150	4.16	1.32	6.91	1.11	0.02	0.69	11.7	-244.6	Clear	No Odor
12:24	5	150	4.16	1.52	6.90	1.11	0.02	0.69	11.7	-233.1	Clear	No Odor
12:29	5	150	4.16	1.72	6.91	1.11	0.02	0.67	11.8	-229.3	Clear	No Odor
12:34	5	150	4.16	1.92	6.91	1.11	0.02	0.71	11.8	-232.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

Vault was full of water and bolt was missing, purged vault before removing j-plug

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 34550 Beacon
Well Locked at Arrival: yes
Condition of Well: Missing bolts
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34550 Beacon

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/18/2019	11:20	Arrive onsite
11/18/2019	11:42	Record static depth to water
11/18/2019	11:44	Begin purging well
11/18/2019	12:36	Collect sample MW-152S_111819
11/18/2019	12:36	End purge and turn off pump, begin decon of equpment
11/18/2019	13:10	Offsite
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Field staff signature:

Mary-Catherine Goddard

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID			MW-153S	Date	11-19-19
Project Name/Location			Ford LTP	Weather			32.00 degrees F, Fog/Mist
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2-7	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	3.06	Total Depth (ft-bmp)	5.99	Water Column (ft.)	2.93	Gallons in Well	0.48
		Pump Intake (ft-bmp)	4.56	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.13				
Sample Time: Label	14:34	Volume Purged	1.02 gallons	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	13:58						
Purge End	14:34						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
14:01	0	130	3.10	0.00	7.31	0.98	2.48	1.51	11.3	-57.0	Clear	No Odor
14:06	5	130	3.10	0.17	7.28	0.98	3.28	1.13	11.3	-60.3	Clear	No Odor
14:11	5	130	3.10	0.34	7.26	0.98	4.03	0.94	11.2	-64.2	Clear	No Odor
14:16	5	130	3.10	0.51	7.27	1.03	1.45	0.70	11.3	-61.8	Clear	No Odor
14:21	5	130	3.10	0.68	7.29	1.05	1.29	0.49	11.3	-65.6	Clear	No Odor
14:26	5	130	3.10	0.85	7.29	1.06	1.09	0.41	11.4	-66.0	Clear	No Odor
14:31	5	130	3.10	1.02	7.29	1.05	0.62	0.42	11.3	-66.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Swelling bentonite and water in vault. Disposed of excess prior to removing j-plug.

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	34644 Beacon	Well Locked at Arrival:	yes
Condition of Well:	Fair	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34644 Beacon

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/19/2019	13:30	Arrive onsite
11/19/2019	13:56	Record static depth to water
11/19/2019	13:58	Begin purging well
11/19/2019	14:34	Collect sample MW-153S_111919
11/19/2019	14:34	End purge and turn off pump, begin decon of equpment
11/19/2019	14:59	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-154S
Date 11-18-19
Project Name/Location Ford LTP
Weather 46.94 degrees F, Mostly Clear
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 4.68
Total Depth (ft-bmp) 7.50
Water Column (ft.) 2.82
Gallons in Well 0.46
Pump Intake (ft-bmp) 6.18
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.83

Sample Time: Label 17:11
Volume Purged 1.3 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 16:27
Purge End 17:11

Mary-Catherine

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
16:30	0	140	4.73	0.00	7.68	0.62	0.02	1.44	11.2	-141.7	Clear	No Odor
16:35	5	140	4.71	0.18	7.37	0.59	0.02	0.84	11.2	-210.5	Clear	No Odor
16:40	5	140	4.71	0.36	7.29	0.55	0.02	0.72	11.3	-241.2	Clear	No Odor
16:45	5	140	4.71	0.54	7.26	0.55	0.02	0.64	11.3	-253.6	Clear	No Odor
16:50	5	140	4.71	0.72	7.24	0.55	0.02	0.63	11.3	-260.9	Clear	No Odor
16:55	5	140	4.71	0.90	7.24	0.54	0.02	0.62	11.3	-271.4	Clear	No Odor
17:00	5	140	4.71	1.08	7.23	0.54	0.02	0.60	11.4	-272.1	Clear	No Odor
17:06	6	140	4.71	1.30	7.22	0.55	0.02	0.58	11.3	-272.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Bentonite swelling and water in the well vault. Disposed of extra bentonite and water before opening j-plug.

Well Casing Volumes

Gallons/Foot ***1" = 0.04*** ***1.25" = 0.06*** ***1.5" = 0.09*** ***2" = 0.16*** ***2.5" = 0.26*** ***3" = 0.37*** ***3.5" = 0.50*** ***4" = 0.65*** ***6" = 1.47***

Well Information

Well Location: 34682 Beacon
Well Locked at Arrival: yes
Condition of Well: Fair
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34682 Beacon

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/18/2019	16:12	Arrive onsite
11/18/2019	16:25	Record static depth to water
11/18/2019	16:27	Begin purging well
11/18/2019	17:11	Collect sample MW-154S_111819
11/18/2019	17:11	End purge and turn off pump, begin decon of equpment
11/18/2019	17:38	Offsite
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Field staff signature:

Mary-Catherine

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-155S	Date	11-13-19
Project Name/Location	Ford LTP	Weather	21.02 degrees F, Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2-7	Casing Diameter (in.)	2
Well Material	PVC				
Static Water Level (ft-bmp)	4.13	Total Depth (ft-bmp)	6.40	Water Column (ft.)	2.27
Gallons in Well	0.37				
		Pump Intake (ft-bmp)	5.60	Purge Method	Low-Flow
Sample Method	Low-Flow				
		Well Volumes Purged	5.51		
Sample Time: Label	16:50	Volume Purged	2.04 gallons	Replicate/Code No.	--
Sampled by	Juli Ryan				
Purge Start	16:06				
Purge End	16:51				

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
16:06	0	200	4.15	0.00	7.34	0.91	85.10	1.93	10.0	-144.3	Small Brown Particulates, Turbid	No Odor
16:11	5	200	4.15	0.26	7.33	0.92	51.00	0.72	12.2	-140.5	Small Brown Particulates, Turbid	No Odor
16:16	5	200	4.15	0.52	7.32	0.92	38.50	0.46	12.2	-138.2	Small Brown Particulates	No Odor
16:21	5	200	4.15	0.78	7.31	0.92	25.30	0.39	11.9	-137.6	Clear	No Odor
16:29	8	200	4.15	1.20	7.29	0.92	28.60	0.39	12.6	-137.3	Clear, Small Brown Particulates	No Odor
16:34	5	200	4.15	1.46	7.31	0.91	8.76	0.31	13.2	-139.0	Clear, Small Brown Particulates	No Odor
16:39	5	200	4.15	1.72	7.31	0.91	2.16	0.30	13.2	-139.8	Clear	No Odor
16:42	3	200	4.15	1.88	7.31	0.91	1.15	0.28	13.2	-140.1	Clear	No Odor
16:45	3	200	4.15	2.04	7.30	0.91	1.23	0.30	13.0	-140.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Beacon	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Beacon

Prepared By: Juli Ryan

Date	Time	Description of Activities
11/13/2019	15:47	Arrive onsite
11/13/2019	16:04	Record static depth to water
11/13/2019	16:06	Begin purging well
11/13/2019	16:50	Collect sample MW-155S_111319
11/13/2019	16:51	End purge and turn off pump, begin decon of equpment
11/13/2019	17:00	Offsite
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Field staff signature:

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-156S
Date 11-14-19
Project Name/Location Ford LTP
Weather 30.92 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 3-8
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.71
Total Depth (ft-bmp) 7.42
Water Column (ft.) 1.71
Gallons in Well 0.28
Pump Intake (ft-bmp) 7.20
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 7.00
Sample Time: Label 12:30
Volume Purged 1.96 gallons
Replicate/Code No. --
Sampled by Juli Ryan
Purge Start 11:53
Purge End 12:35

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:54	0	250	5.86	0.00	7.83	0.44	40.00	4.41	12.1	-183.3	Clear, Small White Particulates	No Odor
11:59	5	250	5.86	0.33	7.64	0.41	8.38	4.13	12.8	-141.1	Clear, Small White Particulates	No Odor
12:04	5	200	5.86	0.66	7.60	0.42	0.02	3.62	12.7	-129.8	Clear, Small White Particulates	No Odor
12:09	5	200	5.84	0.92	7.58	0.44	0.02	3.55	12.8	-124.9	Clear	No Odor
12:14	5	200	5.84	1.18	7.59	0.44	0.02	3.43	12.7	-123.4	Clear	No Odor
12:19	5	200	5.84	1.44	7.58	0.46	0.02	3.36	12.8	-119.3	Clear	No Odor
12:24	5	200	5.84	1.70	7.57	0.46	0.02	3.24	12.9	-115.4	Clear	No Odor
12:29	5	200	5.84	1.96	7.57	0.47	0.02	3.27	12.9	-121.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot
1" = 0.04 *1.5" = 0.09* *2.5" = 0.26* *3.5" = 0.50* *6" = 1.47*
1.25" = 0.06 *2" = 0.16* *3" = 0.37* *4" = 0.65*

Well Information

Well Location: 12100 Boston post
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 12100 Boston post

Prepared By: Juli Ryan

Date	Time	Description of Activities
11/14/2019	11:32	Arrive onsite
11/14/2019	11:51	Record static depth to water
11/14/2019	11:53	Begin purging well
11/14/2019	12:30	Collect sample MW-156S_111419
11/14/2019	12:35	End purge and turn off pump, begin decon of equpment
11/14/2019	12:45	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-157s
Date 11-15-19
Project Name/Location Ford LTP
Weather 28.04 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2.5-7.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.71
Total Depth (ft-bmp) 7.18
Water Column (ft.) 1.47
Gallons in Well 0.24
Pump Intake (ft-bmp) 6.45
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 13.50
Sample Time: Label 11:00
Volume Purged 3.24 gallons
Replicate/Code No. --
Sampled by Juli Ryan
Purge Start 9:53
Purge End 11:02

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:54	0	250	5.81	0.00	7.85	0.32	1.63	4.32	11.7	20.4	Clear	No Odor
9:59	5	200	5.79	0.33	7.55	0.28	1.69	3.90	11.9	3.0	Clear	No Odor
10:04	5	200	5.80	0.59	7.58	0.29	0.02	2.92	12.0	-21.2	Clear	No Odor
10:09	5	200	5.81	0.85	7.72	0.29	0.02	2.54	12.3	-39.7	Clear	No Odor
10:14	5	200	5.80	1.11	7.78	0.29	0.02	2.23	12.3	-52.4	Clear	No Odor
10:19	5	200	5.80	1.37	7.81	0.30	0.02	1.90	12.2	-65.0	Clear	No Odor
10:24	5	200	5.80	1.63	7.83	0.29	0.02	1.89	12.3	-76.1	Clear	No Odor
10:27	3	200	5.80	1.79	7.83	0.30	0.02	1.87	12.2	-82.8	Clear	No Odor
10:30	3	209	5.80	1.95	7.84	0.29	0.02	2.00	12.2	-91.3	Clear	No Odor
10:33	3	200	5.80	2.12	7.83	0.29	0.02	1.83	12.3	-97.4	Clear	No Odor
10:36	3	200	5.80	2.28	7.84	0.29	0.02	1.80	12.3	-105.0	Clear	No Odor
10:39	3	200	5.80	2.44	7.85	0.30	0.02	1.80	12.3	-111.9	Clear	No Odor
10:42	3	200	5.80	2.60	7.85	0.30	0.02	1.76	12.3	-116.7	Clear	No Odor
10:45	3	200	5.80	2.76	7.85	0.30	0.02	1.74	12.4	-123.4	Clear	No Odor
10:48	3	200	5.80	2.92	7.86	0.30	0.02	1.65	12.4	-130.4	Clear	No Odor
10:54	6	200	5.80	3.24	7.86	0.30	0.03	1.57	12.4	-136.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 12067 Boston post between tree and house
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 12067 B oston post between tree and house

Prepared By: Juli Ryan

Date	Time	Description of Activities
11/15/2019	9:47	Arrive onsite
11/15/2019	9:51	Record static depth to water
11/15/2019	9:53	Begin purging well
11/15/2019	11:00	Collect sample MW-157S_111519
11/15/2019	11:02	End purge and turn off pump, begin decon of equpment
11/15/2019	11:10	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-158S			Date	11-15-19
Project Name/Location			Ford LTP	Weather		28.04 degrees F, Haze	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-7.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.64	Total Depth (ft-bmp)	7.18	Water Column (ft.)	1.54	Gallons in Well	0.25
		Pump Intake (ft-bmp)	6.70	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	6.24				
Sample Time: Label	10:19	Volume Purged	1.56 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	9:46						
Purge End	10:25						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:47	0	200	5.64	0.00	7.00	0.59	0.02	3.77	10.7	69.3	Clear	No Odor
9:52	5	200	5.64	0.26	7.71	0.53	0.02	0.70	12.0	-42.3	Clear	No Odor
9:57	5	200	5.64	0.52	7.76	0.52	0.02	0.66	12.1	-48.4	Clear	No Odor
10:02	5	200	5.64	0.78	7.77	0.52	0.02	0.52	12.1	-48.8	Clear	No Odor
10:07	5	200	5.64	1.04	7.76	0.52	0.02	0.44	12.2	-51.2	Clear	No Odor
10:12	5	200	5.64	1.30	7.77	0.53	0.02	0.46	12.3	-55.5	Clear	No Odor
10:17	5	200	5.64	1.56	7.77	0.53	0.02	0.42	12.4	-55.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	34950 Beacon	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34950 Beacon

Prepared By: Madison Olender

Date	Time	Description of Activities
11/15/2019	9:00	Arrive onsite
11/15/2019	9:44	Record static depth to water
11/15/2019	9:46	Begin purging well
11/15/2019	10:19	Collect sample MW-158S_111519
11/15/2019	10:25	End purge and turn off pump, begin decon of equpment
11/15/2019	10:37	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-159S			Date	11-14-19
Project Name/Location			Ford LTP	Weather		32.00 degrees F, Haze	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	4-9	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.85	Total Depth (ft-bmp)	8.57	Water Column (ft.)	1.72	Gallons in Well	0.28
		Pump Intake (ft-bmp)	7.85	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	6.75				
Sample Time: Label	14:52	Volume Purged	1.89 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	14:14						
Purge End	14:57						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:15	0	200	6.85	0.00	7.39	0.41	591.00	1.39	11.5	11.8	Cloudy	No Odor
14:20	5	200	6.85	0.26	7.61	0.36	84.10	1.36	11.7	8.1	Cloudy	No Odor
14:25	4	200	6.85	0.53	7.59	0.36	16.40	1.02	12.0	-4.0	Clear	No Odor
14:30	5	200	6.85	0.79	7.58	0.37	4.64	0.92	11.9	-11.5	Clear	No Odor
14:35	5	200	6.85	1.05	7.57	0.37	0.02	0.88	11.9	-17.6	Clear	No Odor
14:40	5	200	6.85	1.31	7.56	0.37	0.02	0.86	12.0	-21.9	Clear	No Odor
14:45	5	200	6.85	1.57	7.56	0.37	0.02	0.74	12.1	-25.9	Clear	No Odor
14:48	3	200	6.85	1.73	7.56	0.37	0.02	0.76	12.0	-29.1	Clear	No Odor
14:51	3	200	6.85	1.89	7.56	0.37	0.02	0.75	12.0	-32.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Well vault full of water and swelled bentonite, performed routine maintenance before sampling

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	Beacon	Well Locked at Arrival:	yes
Condition of Well:	Fair	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Beacon

Prepared By: Madison Olender

Date	Time	Description of Activities
11/14/2019	14:03	Arrive onsite
11/14/2019	14:12	Record static depth to water
11/14/2019	14:14	Begin purging well
11/14/2019	14:52	Collect sample MW-159S_111419
11/14/2019	14:57	End purge and turn off pump, begin decon of equpment
11/14/2019	15:14	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-160S			Date	11-14-19
Project Name/Location		Ford LTP		Weather		33.08 degrees F, Haze	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	4-9	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.60	Total Depth (ft-bmp)	8.38	Water Column (ft.)	1.78	Gallons in Well	0.29
		Pump Intake (ft-bmp)	8.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	5.93				
Sample Time: Label	16:15	Volume Purged	1.72 gallons	Replicate/Code No.	--	Sampled by	Juli Ryan
Purge Start	15:37						
Purge End	16:19						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:38	0	200	6.71	0.00	7.22	0.98	137.00	1.46	12.6	-183.3	Brown, Cloudy	No Odor
15:43	5	200	6.66	0.26	7.19	0.95	64.60	1.30	13.1	-155.7	Cloudy, Small Brown Particulates	No Odor
15:48	5	200	6.68	0.52	7.17	0.92	33.40	1.15	13.4	-146.3	Cloudy	No Odor
15:53	5	200	6.68	0.78	7.16	0.91	22.00	1.15	13.4	-141.1	Clear, Small Brown Particulates	No Odor
15:58	5	200	6.68	1.04	7.15	0.90	6.77	1.13	13.5	-139.6	Clear, Small Brown Particulates	No Odor
16:03	5	200	6.68	1.30	7.15	0.90	0.02	1.05	13.5	-139.6	Clear	No Odor
16:08	5	200	6.68	1.56	7.15	0.89	0.02	1.02	13.5	-140.8	Clear	No Odor
16:11	3	200	6.68	1.72	7.14	0.89	0.02	1.03	13.5	-142.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Bentonite clay around casing

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	North end of Boston post	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP North end of Boston post

Prepared By: Juli Ryan

Date	Time	Description of Activities
11/14/2019	15:25	Arrive onsite
11/14/2019	15:35	Record static depth to water
11/14/2019	15:37	Begin purging well
11/14/2019	16:15	Collect sample MW-160S_111419
11/14/2019	16:19	End purge and turn off pump, begin decon of equpment
11/14/2019	16:30	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID			MW-161S	Date	11-12-19
Project Name/Location			Ford LTP	Weather		19.04 degrees F, Mostly Clear	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-7.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.00	Total Depth (ft-bmp)	7.71	Water Column (ft.)	2.71	Gallons in Well	0.44
		Pump Intake (ft-bmp)	6.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	3.09				
Sample Time: Label	11:20	Volume Purged	1.36 gallons	Replicate/Code No.	--	Sampled by	Julia McClafferty
Purge Start	10:41						
Purge End	11:20						

Julia McClafferty

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:41	0	130	5.03	0.00	7.18	0.46	6.27	1.04	11.4	120.8	Clear	No Odor
10:46	5	130	5.03	0.17	7.25	0.46	4.85	0.84	11.3	108.9	Clear	No Odor
10:51	5	130	5.04	0.34	7.30	0.46	0.02	0.69	11.3	92.5	Clear	No Odor
10:56	5	130	5.05	0.51	7.35	0.46	0.02	0.66	11.7	87.7	Clear	No Odor
11:01	5	130	5.02	0.68	7.37	0.46	0.02	0.53	11.8	80.5	Clear	No Odor
11:06	5	130	5.02	0.85	7.33	0.45	0.02	0.85	11.6	81.6	Clear	No Odor
11:11	5	130	5.03	1.02	7.40	0.46	0.02	0.52	11.8	75.0	Clear	No Odor
11:16	5	130	5.03	1.19	7.36	0.45	0.02	0.54	11.7	75.5	Clear	No Odor
11:21	5	130	5.04	1.36	7.38	0.45	0.02	0.51	11.6	73.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Pad swelling; Pvc needs to be cut at top so that J-Plug can fit

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location:	348	Well Locked at Arrival:	no
Condition of Well:	Casing broken, Poor	Well Locked at Departure:	no
Well Completion:	Flush mount	Lock Functioning:	no

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 348

Prepared By: Julia McClafferty

Date	Time	Description of Activities
11/12/2019	9:55	Arrive onsite
11/12/2019	10:39	Record static depth to water
11/12/2019	10:41	Begin purging well
11/12/2019	11:20	Collect sample MW-161S_111219
11/12/2019	11:20	End purge and turn off pump, begin decon of equpment
11/12/2019	11:50	Offsite
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Field staff signature:

Julia McClafferty

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-162S			Date	11-20-19
Project Name/Location	Ford LTP			Weather	44.06 degrees F, Haze		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	3-8	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.47	Total Depth (ft-bmp)	7.72	Water Column (ft.)	2.25	Gallons in Well	0.37
		Pump Intake (ft-bmp)	6.97	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	4.54				
Sample Time: Label	16:21	Volume Purged	1.68 gallons	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	15:37						
Purge End	16:21						

Mary-Catherine

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:38	0	150	5.50	0.00	8.46	0.26	6.20	10.97	11.4	-41.5	Clear, Small Brown Particulates	No Odor
15:43	5	150	5.50	0.20	7.46	0.25	5.39	9.47	11.4	-18.3	Clear, Small White Particulates	No Odor
15:48	5	150	5.50	0.40	7.16	0.32	2.09	7.48	11.5	-17.1	Clear, Small White Particulates	No Odor
15:53	5	150	5.50	0.60	7.19	0.36	0.02	6.86	11.5	-19.4	Clear	No Odor
15:58	5	150	5.50	0.80	7.25	0.39	0.02	6.38	11.6	-19.1	Clear	No Odor
16:03	5	150	5.50	1.00	7.29	0.41	0.02	5.97	11.6	-18.0	Clear, Small White Particulates	No Odor
16:08	5	150	5.50	1.20	7.31	0.42	0.02	5.84	11.5	-17.0	Clear, Small White Particulates	No Odor
16:11	3	150	5.50	1.32	7.31	0.43	0.02	5.75	11.5	-16.3	Clear, Small White Particulates	No Odor
16:14	3	150	5.50	1.44	7.32	0.43	0.02	5.66	11.6	-15.5	Clear, Small White Particulates	No Odor
16:17	3	150	5.50	1.56	7.33	0.44	0.02	5.58	11.6	-15.1	Clear, Small White Particulates	No Odor
16:20	3	150	5.50	1.68	7.34	0.45	0.02	5.54	11.6	-14.6	Clear, Small White Particulates	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Benonite swelling and water in vault. Disposed of excess.

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	12017 Brewster	Well Locked at Arrival:	yes
Condition of Well:	Fair	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 12017 Brewster

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/20/2019	15:16	Arrive onsite
11/20/2019	15:31	Record static depth to water
11/20/2019	15:37	Begin purging well
11/20/2019	16:21	Collect sample MW-162S_112019
11/20/2019	16:21	End purge and turn off pump, begin decon of equpment
11/20/2019	16:41	Offsite
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Field staff signature:

Mary-Catherine Goddard

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-163S			Date	11-18-19
Project Name/Location			Ford LTP	Weather			35.96 degrees F, Haze
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2-7	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.07	Total Depth (ft-bmp)	8.00	Water Column (ft.)	3.93	Gallons in Well	0.64
		Pump Intake (ft-bmp)	5.57	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.78				
Sample Time: Label	10:42	Volume Purged	1.14 gallons	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	10:04						
Purge End	10:42						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:07	0	150	4.11	0.00	6.53	0.41	39.30	5.03	11.7	-141.5	Clear	No Odor
10:13	6	140	4.10	0.24	6.75	0.41	26.50	4.78	11.7	-157.1	Clear	No Odor
10:18	5	140	4.10	0.42	6.85	0.41	8.00	4.50	11.5	-168.1	Clear	No Odor
10:23	5	140	4.10	0.60	6.91	0.40	0.02	4.30	11.5	-173.4	Clear	No Odor
10:28	5	140	4.11	0.78	6.94	0.40	0.02	4.25	11.5	-176.2	Clear	No Odor
10:33	5	140	4.11	0.96	6.96	0.40	0.02	4.08	11.5	-178.1	Clear	No Odor
10:38	5	140	4.11	1.14	6.99	0.40	0.02	3.86	11.5	-181.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

Benonite swelling, Disposed of some excess

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location:	34591 Beacon	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy
for natural and
built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34591 Beacon

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/18/2019	9:44	Arrive onsite
11/18/2019	10:02	Record static depth to water
11/18/2019	10:04	Begin purging well
11/18/2019	10:42	Collect sample MW-163S_111819
11/18/2019	10:42	End purge and turn off pump, begin decon of equpment
11/18/2019	11:09	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-164S
Date 11-13-19
Project Name/Location Ford LTP
Weather 21.02 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 3-8
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.43
Total Depth (ft-bmp) 7.45
Water Column (ft.) 2.02
Gallons in Well 0.33
Pump Intake (ft-bmp) 6.93
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 8.09
Sample Time: Label 16:03
Volume Purged 2.67 gallons
Replicate/Code No. --
Sampled by Madison Olender
Purge Start 15:20
Purge End 16:07

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:21	0	220	5.43	0.00	7.22	0.28	24.70	7.53	11.9	160.5	Clear	No Odor
15:26	5	250	5.52	0.29	7.72	0.02	15.80	68.00	12.2	-1.2	Clear	No Odor
15:31	5	250	5.54	0.62	7.86	0.27	10.80	7.24	12.0	137.0	Clear	No Odor
15:36	5	250	5.54	0.95	7.85	0.30	4.23	64.00	12.2	137.1	Clear	No Odor
15:41	5	250	5.54	1.28	7.84	0.31	2.00	60.70	12.2	136.4	Clear	No Odor
15:46	5	250	5.54	1.61	7.84	0.34	0.02	5.95	12.2	136.7	Clear	No Odor
15:51	5	250	5.54	1.94	7.78	0.37	0.02	5.33	12.1	138.7	Clear	No Odor
15:56	5	250	5.54	2.27	7.75	0.41	0.02	4.53	12.1	139.7	Clear	No Odor
15:59	3	250	5.54	2.47	7.74	0.41	0.02	4.51	12.2	139.7	Clear	No Odor
16:02	3	250	5.54	2.67	7.71	0.41	0.02	4.50	12.2	140.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: 34637 Beacon
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34637 Beacon

Prepared By: Madison Olender

Date	Time	Description of Activities
11/13/2019	15:11	Arrive onsite
11/13/2019	15:18	Record static depth to water
11/13/2019	15:20	Begin purging well
11/13/2019	16:03	Collect sample MW-164S_111319
11/13/2019	16:07	End purge and turn off pump, begin decon of equpment
11/13/2019	16:23	Offsite
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Field staff signature:

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-165S
Date 11-14-19
Project Name/Location Ford LTP
Weather 30.92 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 4.49
Total Depth (ft-bmp) 6.30
Water Column (ft.) 1.81
Gallons in Well 0.29
Pump Intake (ft-bmp) 5.99
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 5.38
Sample Time: Label 12:16
Volume Purged 1.56 gallons
Replicate/Code No. --
Sampled by Madison Olender
Purge Start 11:44
Purge End 12:22

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
11:45	0	200	4.49	0.00	7.30	0.59	14.82	1.42	11.4	5.9	Clear	No Odor
11:50	5	200	4.49	0.26	7.28	0.59	10.89	1.29	11.7	8.1	Clear	No Odor
11:55	5	200	4.49	0.52	7.27	0.59	4.25	1.11	11.9	11.5	Clear	No Odor
12:00	5	200	4.49	0.78	7.26	0.59	0.02	0.92	11.9	14.5	Clear	No Odor
12:05	5	200	4.49	1.04	7.25	0.58	0.02	0.83	12.0	17.3	Clear	No Odor
12:10	5	200	4.49	1.30	7.24	0.58	0.02	0.79	12.0	20.0	Clear	No Odor
12:15	5	200	4.49	1.56	7.24	0.58	0.02	0.76	12.0	21.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

Well vault was full of water, evacuated before opening j-plug

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.25" = 0.06* *1.5" = 0.09* *2" = 0.16* *2.5" = 0.26* *3" = 0.37* *3.5" = 0.50* *4" = 0.65* *6" = 1.47*

Well Information

Well Location: 34669 Beacon
Well Locked at Arrival: yes
Condition of Well: Fair
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34669 Beacon

Prepared By: Madison Olender

Date	Time	Description of Activities
11/14/2019	11:36	Arrive onsite
11/14/2019	11:42	Record static depth to water
11/14/2019	11:44	Begin purging well
11/14/2019	12:16	Collect sample MW-165S_111419
11/14/2019	12:22	End purge and turn off pump, begin decon of equpment
11/14/2019	12:37	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-166S
Date 11-25-19
Project Name/Location Ford LTP
Weather 46.94 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 6-11
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 7.33
Total Depth (ft-bmp) 10.59
Water Column (ft.) 3.26
Gallons in Well 0.53
Pump Intake (ft-bmp) 8.83
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.04
Sample Time: Label 14:27
Volume Purged 1.08 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 13:54
Purge End 14:27

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
13:54	0	140	7.38	0.00	7.40	2.42	0.02	2.20	12.4	63.5	Clear, Small White Particulates	No Odor
13:59	5	140	7.36	0.18	6.95	2.59	0.02	0.75	12.4	59.0	Clear, Small White Particulates	No Odor
14:04	5	140	7.36	0.36	6.90	2.57	0.02	0.46	12.5	52.5	Clear, Small White Particulates	No Odor
14:09	5	140	7.36	0.54	6.89	2.54	0.02	0.40	12.5	48.5	Clear, Small White Particulates	No Odor
14:14	5	140	7.36	0.72	6.88	2.51	0.02	0.36	12.6	45.5	Clear	No Odor
14:19	5	140	7.36	0.90	6.88	2.50	0.02	0.35	12.5	44.3	Clear	No Odor
14:24	5	140	7.36	1.08	6.88	2.48	0.02	0.34	12.6	42.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: 12147 Stark
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 12147 Stark

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/25/2019	13:34	Arrive onsite
11/25/2019	13:49	Record static depth to water
11/25/2019	13:54	Begin purging well
11/25/2019	14:27	Collect sample MW-166S_112519
11/25/2019	14:27	End purge and turn off pump, begin decon of equpment
11/25/2019	14:49	Offsite
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Field staff signature:

Mary-Catherine Goddard

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-167S
Date 11-26-19
Project Name/Location Ford LTP
Weather 35.96 degrees F, Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 5-10
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.19
Total Depth (ft-bmp) 9.20
Water Column (ft.) 3.01
Gallons in Well 0.49
Pump Intake (ft-bmp) 7.69
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.31
Sample Time: Label 9:31
Volume Purged 1.13 gallons
Replicate/Code No. --
Sampled by Mary-Catherine Goddard
Purge Start 8:56
Purge End 9:31

Mary-Catherine

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
8:58	0	160	6.21	0.00	6.69	0.74	1.97	6.75	11.9	145.9	Clear	No Odor
9:03	5	140	6.21	0.21	7.02	0.72	2.76	6.12	12.0	139.6	Clear	No Odor
9:08	5	150	6.21	0.39	7.10	0.72	1.77	6.21	12.1	137.3	Clear	No Odor
9:13	5	140	6.21	0.59	7.10	0.77	0.91	4.49	12.2	136.6	Clear	No Odor
9:18	5	140	6.21	0.77	7.10	0.78	0.29	4.17	12.2	135.5	Clear	No Odor
9:23	5	140	6.21	0.95	7.11	0.79	0.10	4.11	12.3	134.0	Clear	No Odor
9:28	5	140	6.21	1.13	7.12	0.79	0.22	4.26	12.3	132.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Well vault full of water. Disposed of excess.

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: 12001 Stark
Well Locked at Arrival: yes
Condition of Well: Fair
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002

Page 1 of 1

Site Location: Ford LTP 12001 Stark

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/26/2019	8:39	Arrive onsite
11/26/2019	8:51	Record static depth to water
11/26/2019	8:56	Begin purging well
11/26/2019	9:31	Collect sample MW-167S_112619
11/26/2019	9:31	End purge and turn off pump, begin decon of equpment
11/26/2019	9:46	Offsite
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Field staff signature:

Mary-Catherine Goddard

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-168S
Date 11-15-19
Project Name/Location Ford LTP
Weather 33.08 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 2-7
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 3.95
Total Depth (ft-bmp) 6.87
Water Column (ft.) 2.92
Gallons in Well 0.47
Pump Intake (ft-bmp) 5.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.66
Sample Time: Label 14:51
Volume Purged 1.72 gallons
Replicate/Code No. --
Sampled by Madison Olender
Purge Start 14:14
Purge End 14:55

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:15	0	200	3.95	0.00	7.25	1.05	22.70	2.09	11.1	7.8	Clear	No Odor
14:20	5	200	3.95	0.26	7.26	1.05	6.30	1.55	11.5	7.5	Clear	No Odor
14:25	5	200	3.95	0.52	7.23	1.05	1.11	1.23	11.6	9.2	Clear	No Odor
14:30	5	200	3.95	0.78	7.22	1.06	0.02	0.96	11.6	9.0	Clear	No Odor
14:35	5	200	3.95	1.04	7.19	1.07	0.02	0.88	11.5	8.9	Clear	No Odor
14:40	5	200	3.95	1.30	7.19	1.08	0.02	1.02	11.6	6.6	Clear	No Odor
14:45	5	200	3.95	1.56	7.19	1.10	0.02	1.02	11.5	6.5	Clear	No Odor
14:48	3	200	3.95	1.72	7.21	1.11	0.02	1.03	11.5	4.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 34480 Capitol
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34480 Capitol

Prepared By: Madison Olender

Date	Time	Description of Activities
11/15/2019	14:09	Arrive onsite
11/15/2019	14:53	Record static depth to water
11/15/2019	14:14	Begin purging well
11/15/2019	14:51	Collect sample MW-168S_111519
11/15/2019	14:55	End purge and turn off pump, begin decon of equpment
11/15/2019	15:06	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-169S			Date	11-15-19
Project Name/Location			Ford LTP	Weather			32.00 degrees F, Haze
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2-7	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	3.66	Total Depth (ft-bmp)	6.50	Water Column (ft.)	2.84	Gallons in Well	0.46
		Pump Intake (ft-bmp)	4.70	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	3.39				
Sample Time: Label	13:50	Volume Purged	1.56 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	13:17						
Purge End	13:54						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:18	0	200	3.66	0.00	7.36	1.07	0.02	2.74	10.9	-18.8	Clear	No Odor
13:23	5	200	3.66	0.26	7.31	1.07	0.02	1.65	11.2	-6.7	Clear	No Odor
13:28	5	200	3.66	0.52	7.25	1.17	0.02	1.14	11.4	-9.2	Clear	No Odor
13:33	5	200	3.66	0.78	7.22	1.21	0.02	0.95	11.4	-10.7	Clear	No Odor
13:38	5	200	3.66	1.04	7.22	1.24	0.02	0.82	11.6	-15.8	Clear	No Odor
13:43	5	200	3.66	1.30	7.21	1.24	0.02	0.89	11.5	-18.7	Clear	No Odor
13:48	5	200	3.66	1.56	7.21	1.25	0.02	0.82	11.6	-22.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	34450 Capitol	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34450 Capitol

Prepared By: Madison Olender

Date	Time	Description of Activities
11/15/2019	13:12	Arrive onsite
11/15/2019	13:15	Record static depth to water
11/15/2019	13:17	Begin purging well
11/15/2019	13:50	Collect sample MW-169S_111519
11/15/2019	13:54	End purge and turn off pump, begin decon of equpment
11/15/2019	14:00	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-170S
Date 11-13-19
Project Name/Location Ford LTP
Weather 14.00 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 4.5-9.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.91
Total Depth (ft-bmp) 9.52
Water Column (ft.) 2.61
Gallons in Well 0.42
Pump Intake (ft-bmp) 8.40
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 5.50
Sample Time: Label 12:30
Volume Purged 2.31 gallons
Replicate/Code No. --
Sampled by Juli Ryan
Purge Start 11:45
Purge End 12:35

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:45	0	200	6.92	0.00	7.39	3.36	21.80	0.58	12.5	-116.4	Clear, Small White Particulates	No Odor
11:50	5	250	6.92	0.26	7.32	3.89	0.02	0.36	12.9	-108.0	Clear, Small White Particulates	No Odor
11:55	5	200	6.92	0.59	7.35	4.00	0.02	0.37	12.5	-105.7	Clear	No Odor
12:00	5	200	6.92	0.85	7.35	4.05	0.02	0.33	12.5	-105.3	Clear	No Odor
12:05	5	200	6.92	1.11	7.34	4.14	0.02	0.35	12.0	-106.7	Clear	No Odor
12:10	5	200	6.92	1.37	7.32	4.24	0.02	0.36	12.0	109.8	Clear	No Odor
12:15	5	200	6.92	1.63	7.31	4.29	0.02	0.33	12.4	-113.5	Clear	No Odor
12:20	5	200	6.92	1.89	7.33	4.32	0.02	0.35	12.2	-119.7	Clear	No Odor
12:25	5	200	6.92	2.15	7.32	4.43	0.02	0.35	12.1	-119.3	Clear	No Odor
12:28	3	200	6.92	2.31	7.33	4.42	0.02	0.36	12.2	-121.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 34991 beacon
Well Locked at Arrival: yes
Condition of Well: Good, Missing bolts
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34991 beacon

Prepared By: Juli Ryan

Date	Time	Description of Activities
11/13/2019	11:37	Arrive onsite
11/13/2019	11:43	Record static depth to water
11/13/2019	11:45	Begin purging well
11/13/2019	12:30	Collect sample MW-170S_111319
11/13/2019	12:35	End purge and turn off pump, begin decon of equpment
11/13/2019	12:50	Offsite
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Field staff signature:

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID		MW-171S		Date	11-19-19
Project Name/Location		Ford LTP		Weather		37.04 degrees F, Fog/Mist	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2-7	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	3.39	Total Depth (ft-bmp)	6.44	Water Column (ft.)	3.05	Gallons in Well	0.50
		Pump Intake (ft-bmp)	4.89	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	3.60				
Sample Time: Label	12:24	Volume Purged	1.8 gallons	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	11:35						
Purge End	12:24						

Mary-Catherine Goddard

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:37	0	150	3.94	0.00	7.52	1.15	0.02	1.46	10.5	-44.3	Clear	No Odor
11:42	5	150	3.93	0.20	7.25	1.16	4.49	0.88	10.6	-62.1	Clear, Small White Particulates	No Odor
11:47	5	150	3.93	0.40	7.20	1.15	2.76	0.74	10.7	-73.4	Clear, Small White Particulates	No Odor
11:52	5	150	3.93	0.60	7.18	1.15	3.39	0.63	10.6	-79.8	Clear, Small White Particulates	No Odor
11:57	5	150	3.93	0.80	7.18	1.14	2.35	0.61	10.7	-84.0	Clear, Small White Particulates	No Odor
12:02	5	150	3.93	1.00	7.19	1.14	2.27	0.58	10.7	-87.1	Clear, Small White Particulates	No Odor
12:07	5	150	3.93	1.20	7.19	1.14	2.22	0.55	10.7	-89.4	Clear, Small White Particulates	No Odor
12:12	5	150	3.93	1.40	7.20	1.13	0.72	0.48	10.8	-92.0	Clear	No Odor
12:17	5	150	3.93	1.60	7.20	1.13	0.85	0.40	10.8	-93.7	Clear	No Odor
12:22	5	150	3.93	1.80	7.20	1.12	0.26	0.37	10.8	-95.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	12101 Capitol/Brewster in back yard	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 12101 Capitol/Brewster in back yard

Prepared By: Mary-Catherine Goddard

Date	Time	Description of Activities
11/19/2019	11:17	Arrive onsite
11/19/2019	11:33	Record static depth to water
11/19/2019	11:35	Begin purging well
11/19/2019	12:24	Collect sample MW-171S_111919
11/19/2019	12:24	End purge and turn off pump, begin decon of equpment
11/19/2019	12:49	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-172S			Date	11-18-19
Project Name/Location			Ford LTP	Weather	42.98 degrees F, Haze		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	4.5-9.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.19	Total Depth (ft-bmp)	8.95	Water Column (ft.)	2.76	Gallons in Well	0.45
		Pump Intake (ft-bmp)	8.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	4.40				
Sample Time: Label	12:30	Volume Purged	1.98 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	11:52						
Purge End	12:27						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
11:54	0	250	6.15	0.00	7.76	0.37	44.60	2.71	12.1	28.6	Clear	No Odor
11:59	5	250	6.15	0.33	7.74	0.37	44.00	2.31	12.5	11.5	Clear	No Odor
12:04	5	250	6.15	0.66	7.65	0.37	28.50	2.30	12.6	-1.2	Clear	No Odor
12:09	5	250	6.15	0.99	7.66	0.37	12.30	2.15	12.5	-5.5	Clear	No Odor
12:14	5	250	6.15	1.32	7.69	0.37	0.02	1.99	12.7	-5.1	Clear	No Odor
12:19	5	250	6.15	1.65	7.69	0.37	0.02	2.00	12.9	-5.8	Clear	No Odor
12:24	5	250	6.15	1.98	7.69	0.37	0.20	2.00	12.9	-5.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.5" = 0.09* *2.5" = 0.26* *3.5" = 0.50* *6" = 1.47*

1.25" = 0.06 *2" = 0.16* *3" = 0.37* *4" = 0.65*

Well Information

Well Location:	Front yard behind thin tree on Boston post	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Front yard behind thin tree on Boston post

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/18/2019	11:50	Arrive onsite
11/18/2019	11:51	Record static depth to water
11/18/2019	11:52	Begin purging well
11/18/2019	12:30	Collect sample MW-172S_111819
11/18/2019	12:27	End purge and turn off pump, begin decon of equpment
11/18/2019	12:40	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-173S
Date 11-13-19
Project Name/Location Ford LTP
Weather 21.02 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 5.5-10.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.60
Total Depth (ft-bmp) 10.23
Water Column (ft.) 3.63
Gallons in Well 0.59
Pump Intake (ft-bmp) 8.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.92
Sample Time: Label 16:50
Volume Purged 2.31 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 16:03
Purge End 16:45

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
16:08	0	250	6.71	0.00	7.73	0.46	259.00	2.25	12.2	61.1	Orange	No Odor
16:13	5	250	6.70	0.33	7.69	0.46	125.00	1.97	11.7	56.3	Clear	No Odor
16:18	5	250	6.70	0.66	7.70	0.47	79.60	1.91	11.9	50.4	Clear	No Odor
16:23	5	250	6.70	0.99	7.69	0.47	39.60	1.99	11.7	47.6	Clear	No Odor
16:28	5	250	6.71	1.32	7.67	0.47	17.10	2.20	11.9	44.9	Clear	No Odor
16:33	5	250	6.71	1.65	7.66	0.47	11.10	2.12	11.9	43.6	Clear	No Odor
16:38	5	250	6.71	1.98	7.66	0.46	11.00	2.32	12.1	43.6	Clear	No Odor
16:43	5	250	6.71	2.31	7.66	0.46	10.70	2.32	12.1	43.6	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Back of house
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Back of house

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/13/2019	15:56	Arrive onsite
11/13/2019	16:01	Record static depth to water
11/13/2019	16:03	Begin purging well
11/13/2019	16:50	Collect sample MW-173S_111319
11/13/2019	16:45	End purge and turn off pump, begin decon of equpment
11/13/2019	17:15	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-174S			Date	11-12-19
Project Name/Location			Ford LTP	Weather		21.92 degrees F, Mostly Clear	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	5.5-10.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.21	Total Depth (ft-bmp)	10.50	Water Column (ft.)	2.29	Gallons in Well	0.37
		Pump Intake (ft-bmp)	10.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	4.22				
Sample Time: Label	13:10	Volume Purged	1.56 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	12:30						
Purge End	13:09						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (◦C)/(◦F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:35	0	200	8.21	0.00	7.36	0.49	24.30	8.03	13.5	6.6	Clear	No Odor
12:40	5	200	8.21	0.26	7.49	0.27	13.60	1.55	13.8	20.0	Clear	No Odor
12:45	5	200	8.22	0.52	7.43	0.27	10.80	1.46	13.7	13.0	Clear	No Odor
12:50	5	200	8.22	0.78	7.43	0.27	8.13	1.46	13.9	10.1	Clear	No Odor
12:55	5	200	8.22	1.04	7.43	0.27	5.89	1.30	14.0	11.1	Clear	No Odor
13:00	5	200	8.22	1.30	7.42	0.27	5.68	1.24	13.9	12.4	Clear	No Odor
13:05	5	200	8.22	1.56	7.42	0.28	5.50	1.21	14.0	13.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

NA

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	In vegetation near wooden garden fence	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	no
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP In vegetation near wooden garden fence

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/12/2019	12:15	Arrive onsite
11/12/2019	12:28	Record static depth to water
11/12/2019	12:30	Begin purging well
11/12/2019	13:10	Collect sample MW-174S_111219
11/12/2019	13:09	End purge and turn off pump, begin decon of equpment
11/12/2019	13:19	Offsite
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Christina Weaver

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID		MW-176S		Date	11-13-19
Project Name/Location		Ford LTP		Weather		21.02 degrees F, Cloudy	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	5-10	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.85	Total Depth (ft-bmp)	9.30	Water Column (ft.)	2.45	Gallons in Well	0.40
		Pump Intake (ft-bmp)	8.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	3.90				
Sample Time: Label	15:20	Volume Purged	1.56 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	14:45						
Purge End	15:19						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:46	0	200	6.91	0.00	7.21	0.46	22.40	1.87	12.0	85.0	Clear	No Odor
14:51	5	200	6.91	0.26	7.20	0.44	17.90	1.35	12.3	70.0	Clear	No Odor
14:56	5	200	6.91	0.52	7.32	0.44	11.50	1.28	12.3	58.3	Clear	No Odor
15:01	5	200	6.91	0.78	7.34	0.44	5.98	1.32	12.3	56.5	Clear	No Odor
15:06	5	200	6.91	1.04	7.38	0.43	2.72	1.28	12.2	53.5	Clear	No Odor
15:11	5	200	6.91	1.30	7.39	0.43	0.34	1.37	12.2	52.8	Clear	No Odor
15:16	5	200	6.91	1.56	7.39	0.43	0.02	1.41	12.2	52.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	Front yard left of front door	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	no
Well Completion:	Flush mount	Lock Functioning:	no

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Front yard left of front door

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/13/2019	14:30	Arrive onsite
11/13/2019	14:43	Record static depth to water
11/13/2019	14:45	Begin purging well
11/13/2019	15:20	Collect sample MW-176S_111319
11/13/2019	15:19	End purge and turn off pump, begin decon of equpment
11/13/2019	15:30	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-177S			Date	11-14-19
Project Name/Location			Ford LTP	Weather			33.08 degrees F, Haze
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	4-9	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.09	Total Depth (ft-bmp)	8.27	Water Column (ft.)	2.18	Gallons in Well	0.35
		Pump Intake (ft-bmp)	7.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	5.57				
Sample Time: Label	15:55	Volume Purged	1.95 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	15:12						
Purge End	15:53						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:14	0	250	6.41	0.00	7.26	0.45	43.30	3.47	12.8	14.2	Clear	No Odor
15:19	5	200	6.33	0.33	7.25	0.46	22.30	2.09	12.6	3.0	Clear	No Odor
15:24	5	200	6.35	0.59	7.24	0.46	18.70	1.46	12.8	6.5	Clear	No Odor
15:29	5	200	6.36	0.85	7.23	0.46	11.20	1.10	12.9	1.5	Clear	No Odor
15:34	5	200	6.40	1.11	7.23	0.46	7.01	0.97	12.9	2.7	Clear	No Odor
15:39	5	200	6.42	1.37	7.22	0.46	2.64	0.92	13.1	3.8	Clear	No Odor
15:44	5	200	6.45	1.63	7.21	0.48	1.64	0.68	13.2	10.9	Clear	No Odor
15:47	3	200	6.45	1.79	7.21	0.48	0.68	0.67	13.2	12.7	Clear	No Odor
15:50	3	200	6.45	1.95	7.21	0.48	0.04	0.62	13.2	11.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Bentonite has swollen up to top of casing

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location:	Front yard	Well Locked at Arrival:	yes
Condition of Well:	Fair, Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002

Page 1 of 1

Site Location: Ford LTP Front yard

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/14/2019	15:00	Arrive onsite
11/14/2019	15:10	Record static depth to water
11/14/2019	15:12	Begin purging well
11/14/2019	15:55	Collect sample MW-177S_111419
11/14/2019	15:53	End purge and turn off pump, begin decon of equpment
11/14/2019	16:10	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-178S
Date 11-14-19
Project Name/Location Ford LTP
Weather 32.00 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 4.5-9.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.05
Total Depth (ft-bmp) 8.85
Water Column (ft.) 2.80
Gallons in Well 0.45
Pump Intake (ft-bmp) 7.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.47
Sample Time: Label 14:35
Volume Purged 1.56 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 13:57
Purge End 14:33

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:00	0	200	6.15	0.00	7.21	0.51	77.50	0.72	12.6	42.1	Clear, Orange	No Odor
14:05	5	200	6.15	0.26	7.25	0.50	38.70	0.58	12.8	23.9	Clear, Orange	No Odor
14:10	5	200	6.15	0.52	7.29	0.51	9.40	0.53	12.8	18.8	Clear	No Odor
14:15	5	200	6.15	0.78	7.30	0.51	3.79	0.42	12.7	17.2	Clear	No Odor
14:20	5	200	6.15	1.04	7.31	0.51	0.02	0.31	12.8	16.7	Clear	No Odor
14:25	5	200	6.15	1.30	7.31	0.51	0.02	0.28	12.8	17.1	Clear	No Odor
14:30	5	200	6.15	1.56	7.31	0.51	0.02	0.27	12.8	16.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: Side yard next to drive way and garage
Well Locked at Arrival: no
Condition of Well: Good
Well Locked at Departure: no
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Side yard next to drive way and garage

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/14/2019	13:43	Arrive onsite
11/14/2019	13:55	Record static depth to water
11/14/2019	13:57	Begin purging well
11/14/2019	14:35	Collect sample MW-178S_111419
11/14/2019	14:33	End purge and turn off pump, begin decon of equpment
11/14/2019	14:45	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-179S
Date 11-12-19
Project Name/Location Ford LTP
Weather 23.00 degrees F, Partly Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 6-11
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 8.19
Total Depth (ft-bmp) 10.75
Water Column (ft.) 2.56
Gallons in Well 0.42
Pump Intake (ft-bmp) 10.00
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.71
Sample Time: Label 15:25
Volume Purged 1.56 gallons
Replicate/Code No. --
Sampled by Christina Weaver
Purge Start 14:50
Purge End 15:24

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:52	0	200	8.25	0.00	7.80	0.23	9.30	4.19	13.2	5.9	Clear	No Odor
14:57	5	200	8.27	0.26	7.79	0.23	5.54	2.63	13.6	-0.2	Clear	No Odor
15:02	5	200	8.27	0.52	7.80	0.23	5.43	2.41	13.5	0.2	Clear	No Odor
15:07	5	200	8.27	0.78	7.76	0.23	5.24	2.75	13.6	3.1	Clear	No Odor
15:12	5	200	8.27	1.04	7.75	0.23	4.94	2.25	13.7	5.1	Clear	No Odor
15:17	5	200	8.28	1.30	7.74	0.23	4.42	2.27	13.6	5.7	Clear	No Odor
15:22	5	200	8.27	1.56	7.75	0.23	3.87	2.23	13.6	6.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments
Well vault pushed up

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: East of garage front yard
Well Locked at Arrival: no
Condition of Well: Pad damaged
Well Locked at Departure: no
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP East of garage front yard

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/12/2019	13:55	Arrive onsite
11/12/2019	14:48	Record static depth to water
11/12/2019	14:50	Begin purging well
11/12/2019	15:25	Collect sample MW-179S_111219
11/12/2019	15:24	End purge and turn off pump, begin decon of equpment
11/12/2019	15:35	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-180SR			Date	11-13-19
Project Name/Location			Ford LTP	Weather		12.02 degrees F, Cloudy	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	6.5-11.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.08	Total Depth (ft-bmp)	11.01	Water Column (ft.)	2.93	Gallons in Well	0.48
		Pump Intake (ft-bmp)	10.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	3.58				
Sample Time: Label	10:00	Volume Purged	1.72 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	9:20						
Purge End	9:58						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:23	0	200	8.15	0.00	7.67	0.44	8.51	4.92	12.6	95.0	Clear	No Odor
9:28	5	200	8.15	0.26	7.71	0.44	6.59	4.82	13.0	82.5	Clear	No Odor
9:33	5	200	8.15	0.52	7.71	0.44	4.46	4.94	13.1	80.4	Clear	No Odor
9:38	5	200	8.15	0.78	7.71	0.43	3.61	4.65	13.1	77.3	Clear	No Odor
9:43	5	200	8.15	1.04	7.71	0.43	3.60	4.39	13.0	74.8	Clear	No Odor
9:48	5	200	8.15	1.30	7.70	0.42	3.80	4.10	12.8	72.3	Clear	No Odor
9:56	8	200	8.15	1.72	7.79	0.41	3.80	4.16	12.9	70.0	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Near gate to back of house	Well Locked at Arrival:	no
Condition of Well:	Good	Well Locked at Departure:	no
Well Completion:	Flush mount	Lock Functioning:	n/a

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Near gate to back of house

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/13/2019	8:50	Arrive onsite
11/13/2019	9:18	Record static depth to water
11/13/2019	9:20	Begin purging well
11/13/2019	10:00	Collect sample MW-180SR_111319
11/13/2019	9:58	End purge and turn off pump, begin decon of equpment
11/13/2019	10:20	Offsite
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Field staff signature:

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-181S
Date 11-14-19
Project Name/Location Ford LTP
Weather 28.04 degrees F, Cloudy
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 3.5-8.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.40
Total Depth (ft-bmp) 8.51
Water Column (ft.) 2.11
Gallons in Well 0.34
Pump Intake (ft-bmp) 7.40
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 6.41

Sample Time: Label 10:37
Volume Purged 2.18 gallons
Replicate/Code No. --
Sampled by Madison Olender
Purge Start 10:02
Purge End 10:41

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:03	0	250	6.40	0.00	7.40	1.24	22.70	9.10	12.2	167.4	Clear	No Odor
10:08	5	250	6.40	0.33	7.40	1.30	2.85	5.00	12.7	147.6	Clear	No Odor
10:13	5	250	6.40	0.66	7.32	1.31	0.02	0.03	13.0	91.4	Clear	No Odor
10:18	5	250	6.40	0.99	7.31	1.33	0.02	0.01	12.8	43.2	Clear	No Odor
10:23	5	250	6.40	1.32	7.34	1.33	0.02	0.47	13.0	22.3	Clear	No Odor
10:28	5	250	6.40	1.65	7.35	1.33	0.02	0.42	13.0	14.3	Clear	No Odor
10:33	5	250	6.40	1.98	7.34	1.34	0.02	0.27	13.0	9.7	Clear	No Odor
10:36	3	250	6.40	2.18	7.34	1.33	0.02	0.33	13.0	7.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location: 34990 wadsworth
Well Locked at Arrival: no
Condition of Well: Good
Well Locked at Departure: n/a
Well Completion: Flush mount
Lock Functioning: n/a

ARCADIS Design & Consultancy
for natural and
built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34990 wadsworth

Prepared By: Madison Olender

Date	Time	Description of Activities
11/14/2019	9:52	Arrive onsite
11/14/2019	10:00	Record static depth to water
11/14/2019	10:02	Begin purging well
11/14/2019	10:37	Collect sample MW-181S_111419
11/14/2019	10:41	End purge and turn off pump, begin decon of equpment
11/14/2019	10:54	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-182S			Date	11-12-19
Project Name/Location			Ford LTP	Weather	17.96 degrees F, Partly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	4-9	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.22	Total Depth (ft-bmp)	8.78	Water Column (ft.)	2.56	Gallons in Well	0.42
		Pump Intake (ft-bmp)	7.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	4.21				
Sample Time: Label	11:10	Volume Purged	1.77 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	10:32						
Purge End	11:08						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:32	0	200	6.42	0.00	7.15	0.33	10.70	3.13	13.3	79.1	Clear	No Odor
10:37	5	200	6.43	0.26	7.40	0.30	7.13	2.24	13.1	57.2	Clear	No Odor
10:42	5	200	6.45	0.52	7.42	0.30	5.03	2.07	13.1	47.8	Clear	No Odor
10:47	5	200	6.49	0.78	7.42	0.30	4.45	1.66	13.3	34.2	Clear	No Odor
10:52	5	200	6.49	1.04	7.47	0.31	1.40	1.42	13.1	31.3	Clear	No Odor
10:57	5	200	6.49	1.30	7.49	0.32	0.46	1.36	13.0	32.3	Clear	No Odor
11:02	5	200	6.49	1.56	7.49	0.32	0.02	1.35	12.8	34.6	Clear	No Odor
11:06	4	200	6.49	1.77	7.48	0.32	0.02	1.48	12.8	33.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

NA NA

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	North of house	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP North of house

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/12/2019	10:15	Arrive onsite
11/12/2019	10:30	Record static depth to water
11/12/2019	10:32	Begin purging well
11/12/2019	11:10	Collect sample MW-182S_111219
11/12/2019	11:08	End purge and turn off pump, begin decon of equpment
11/12/2019	11:27	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-183S
Date 11-21-19
Project Name/Location Ford LTP
Weather 39.92 degrees F, Haze
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 8-13
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 9.45
Total Depth (ft-bmp) 12.68
Water Column (ft.) 3.23
Gallons in Well 0.52
Pump Intake (ft-bmp) 10.95
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 3.35
Sample Time: Label 14:15
Volume Purged 1.74 gallons
Replicate/Code No. --
Sampled by Shantel Johnson
Purge Start 13:26
Purge End 14:20

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:28	0	150	9.49	0.00	7.27	0.53	235.00	3.34	12.7	513.4	Brown	No Odor
13:33	5	150	9.49	0.20	7.76	0.52	123.00	2.90	13.2	339.4	Clear	No Odor
13:38	5	158	9.43	0.40	7.79	0.51	86.70	2.82	13.0	331.2	Clear	No Odor
13:43	5	150	9.50	0.61	7.82	0.50	60.30	2.72	12.7	307.3	Clear	No Odor
13:48	5	158	9.50	0.81	7.83	0.49	40.00	2.90	12.4	294.2	Clear	No Odor
13:53	5	150	9.50	1.02	7.86	0.48	25.70	2.58	13.1	286.4	Clear	No Odor
13:58	5	150	9.50	1.22	7.86	0.47	28.40	2.56	13.2	276.1	Clear	No Odor
14:03	5	150	9.50	1.42	7.88	0.47	19.20	2.68	13.2	273.8	Clear	No Odor
14:08	5	150	9.50	1.62	7.90	0.46	17.60	2.55	13.3	269.3	Clear	No Odor
14:11	3	150	9.51	1.74	7.90	0.47	18.20	2.54	13.3	267.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: 34934 Standish
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34934 Standish

Prepared By: Shantel Johnson

Date	Time	Description of Activities
11/21/2019	13:10	Arrive onsite
11/21/2019	13:21	Record static depth to water
11/21/2019	13:26	Begin purging well
11/21/2019	14:15	Collect sample MW-183S_112119
11/21/2019	14:20	End purge and turn off pump, begin decon of equpment
11/21/2019	14:26	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-184S			Date	11-11-19
Project Name/Location			Ford LTP	Weather	30.02 degrees F, Light Snow and Fog/Mist		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	4.5-9.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.84	Total Depth (ft-bmp)	9.22	Water Column (ft.)	2.38	Gallons in Well	0.39
		Pump Intake (ft-bmp)	8.30	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	4.00				
Sample Time: Label	14:00	Volume Purged	1.56 gallons	Replicate/Code No.	--	Sampled by	Juli Ryan
Purge Start	13:27						
Purge End	14:03						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:27	0	200	6.91	0.00	7.58	0.69	0.02	8.29	12.6	-25.7	Clear	No Odor
13:32	5	200	6.91	0.26	7.54	0.82	0.02	8.50	12.9	-26.3	Clear	No Odor
13:37	5	200	6.91	0.52	7.50	0.86	0.02	8.63	12.9	-25.5	Clear	No Odor
13:42	5	200	6.91	0.78	7.43	0.88	0.02	8.64	12.9	-24.5	Clear	No Odor
13:47	5	200	6.91	1.04	7.46	0.88	0.02	8.93	12.8	-26.9	Clear	No Odor
13:52	5	200	6.91	1.30	7.44	0.88	0.02	8.67	12.7	-29.6	Clear	No Odor
13:57	5	200	6.91	1.56	7.42	0.89	0.02	8.39	12.8	-31.2	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	11981 Boston post	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 11981 Boston post

Prepared By: Juli Ryan

Date	Time	Description of Activities
11/11/2019	13:16	Arrive onsite
11/11/2019	13:25	Record static depth to water
11/11/2019	13:27	Begin purging well
11/11/2019	14:00	Collect sample MW-184S_111119
11/11/2019	14:03	End purge and turn off pump, begin decon of equpment
11/11/2019	14:20	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID			MW-185S	Date	11-13-19
Project Name/Location		Ford LTP		Weather		21.02 degrees F, Cloudy	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	6-11	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.33	Total Depth (ft-bmp)	10.62	Water Column (ft.)	2.29	Gallons in Well	0.37
		Pump Intake (ft-bmp)	9.80	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	6.65				
Sample Time: Label	15:15	Volume Purged	2.46 gallons	Replicate/Code No.	--	Sampled by	Juli Ryan
Purge Start	14:26						
Purge End	15:19						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance Color	Appearance Odor
14:26	0	200	8.40	0.00	7.19	0.89	148.00	2.59	12.7	-175.6	Cloudy, White	No Odor
14:31	5	200	8.39	0.26	7.30	0.83	56.70	1.84	13.7	-140.0	Cloudy, White	No Odor
14:36	5	200	8.39	0.52	7.29	0.90	31.70	1.20	14.0	-125.6	Clear	No Odor
14:41	5	200	8.39	0.78	7.27	0.95	15.10	0.83	14.2	-120.0	Clear	No Odor
14:46	5	200	8.39	1.04	7.25	0.99	8.09	0.60	14.1	-119.7	Clear	No Odor
14:51	5	200	8.39	1.30	7.24	1.01	7.66	0.47	14.1	-118.8	Clear	No Odor
14:56	5	200	8.39	1.56	7.24	1.02	1.42	0.40	14.2	-121.3	Clear	No Odor
15:01	5	200	8.39	1.82	7.23	1.04	0.02	0.35	14.2	-124.9	Clear	No Odor
15:08	7	200	8.39	2.19	7.23	1.06	0.02	0.40	13.6	-129.4	Clear	No Odor
15:11	3	200	8.39	2.35	7.21	1.06	0.02	0.40	13.6	-128.9	Clear	No Odor
15:13	2	200	8.39	2.46	7.21	1.08	0.02	0.32	13.2	-128.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	34921 beacon	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP 34921 beacon

Prepared By: Juli Ryan

Date	Time	Description of Activities
11/13/2019	14:12	Arrive onsite
11/13/2019	14:24	Record static depth to water
11/13/2019	14:26	Begin purging well
11/13/2019	15:15	Collect sample MW-185S_111319
11/13/2019	15:19	End purge and turn off pump, begin decon of equpment
11/13/2019	15:30	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30016346.00002	Well ID	MW-186S			Date	11-11-19
Project Name/Location	Ford LTP			Weather	30.02 degrees F, Snow and Fog		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-7.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.42	Total Depth (ft-bmp)	7.72	Water Column (ft.)	3.30	Gallons in Well	0.54
		Pump Intake (ft-bmp)	6.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.20				
Sample Time: Label	14:17	Volume Purged	0.65 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	13:45						
Purge End	14:15						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:45	0	0	4.44	0.00	6.74	0.99	52.90	1.24	8.8	57.0	Small Orange Particulates	No Odor
13:50	5	100	4.44	0.00	6.77	1.00	24.80	0.83	10.0	56.2	Clear	No Odor
13:55	5	100	4.44	0.13	6.78	1.04	14.70	0.54	10.6	55.1	Clear	No Odor
14:00	5	100	4.44	0.26	6.79	1.04	8.20	0.42	10.6	48.2	Clear	No Odor
14:05	5	100	4.44	0.39	6.76	1.04	4.95	0.42	10.3	45.1	Clear	No Odor
14:10	5	100	4.44	0.52	6.77	1.04	4.56	0.37	10.4	39.5	Clear	No Odor
14:15	5	100	4.44	0.65	6.76	1.04	2.99	0.40	10.3	38.3	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Wood area	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Wood area

Prepared By: Heather Woodrum

Date	Time	Description of Activities
11/11/2019	13:35	Arrive onsite
11/11/2019	13:43	Record static depth to water
11/11/2019	13:45	Begin purging well
11/11/2019	14:17	Collect sample MW-186S_111119
11/11/2019	14:15	End purge and turn off pump, begin decon of equpment
11/11/2019	14:30	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-187			Date	11-11-19
Project Name/Location			Ford LTP	Weather	30.92 degrees F, Light Snow and Fog/Mist		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	8-13	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.97	Total Depth (ft-bmp)	12.78	Water Column (ft.)	6.81	Gallons in Well	1.11
		Pump Intake (ft-bmp)	10.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.17				
Sample Time: Label	11:02	Volume Purged	1.3 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	10:10						
Purge End	11:00						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:10	0	100	6.00	0.00	7.14	0.88	77.40	0.86	11.7	103.4	Cloudy	No Odor
10:15	5	100	6.00	0.13	6.85	0.82	67.50	0.74	10.4	73.9	Clear	No Odor
10:20	5	100	6.00	0.26	6.85	0.80	54.40	0.42	11.9	67.0	Clear	No Odor
10:25	5	100	6.00	0.39	6.86	0.79	41.90	0.39	11.8	62.0	Clear	No Odor
10:30	5	100	6.00	0.52	6.86	0.79	38.20	0.35	11.9	60.4	Clear	No Odor
10:35	5	100	6.00	0.65	6.85	0.79	33.60	0.31	11.7	58.3	Clear	No Odor
10:40	5	100	6.00	0.78	6.87	0.79	28.40	0.39	12.0	53.4	Clear	No Odor
10:45	5	100	6.00	0.91	6.85	0.79	22.80	0.25	12.1	52.6	Clear	No Odor
10:50	5	100	6.00	1.04	6.87	0.79	21.80	0.26	12.0	48.2	Clear	No Odor
10:55	5	100	6.00	1.17	6.85	0.79	20.20	0.24	11.8	49.8	Clear	No Odor
11:00	5	100	6.00	1.30	6.87	0.79	19.90	0.22	11.8	48.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location:	In line with edge of garage door	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP In line with edge of garage door

Prepared By: Heather Woodrum

Date	Time	Description of Activities
11/11/2019	10:00	Arrive onsite
11/11/2019	10:08	Record static depth to water
11/11/2019	10:10	Begin purging well
11/11/2019	11:02	Collect sample MW-187_111119
11/11/2019	11:00	End purge and turn off pump, begin decon of equpment
11/11/2019	11:10	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-187S
Date 11-11-19
Project Name/Location Ford LTP
Weather 30.92 degrees F, Light Snow and Fog/Mist
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 3-8
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.00
Total Depth (ft-bmp) 8.24
Water Column (ft.) 2.24
Gallons in Well 0.36
Pump Intake (ft-bmp) 7.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.17

Sample Time: Label 11:52
Volume Purged 0.78 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 11:20
Purge End 11:50

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:20	0	100	6.02	0.00	6.61	1.13	15.00	0.81	11.3	3.0	Clear	No Odor
11:25	5	100	6.02	0.13	6.66	1.16	6.81	0.61	11.3	1.4	Clear	No Odor
11:30	5	100	6.02	0.26	6.70	1.16	4.47	0.33	11.8	-22.1	Clear	No Odor
11:35	5	100	6.02	0.39	6.71	1.15	3.28	0.33	12.4	-26.0	Clear	No Odor
11:40	5	100	6.02	0.52	6.71	1.15	2.10	0.30	12.3	-17.7	Clear	No Odor
11:45	5	100	6.02	0.65	6.71	1.14	2.56	0.41	12.5	-11.0	Clear	No Odor
11:50	5	100	6.02	0.78	6.72	1.14	2.52	0.29	12.4	-7.9	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Bentonite swelling

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location: In line with edge of garage door
Well Locked at Arrival: yes
Condition of Well: Poor
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP In line with edge of garage door

Prepared By: Heather Woodrum

Date	Time	Description of Activities
11/11/2019	10:00	Arrive onsite
11/11/2019	11:18	Record static depth to water
11/11/2019	11:20	Begin purging well
11/11/2019	11:52	Collect sample MW-187S_111119
11/11/2019	11:50	End purge and turn off pump, begin decon of equpment
11/11/2019	12:05	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-188S			Date	11-11-19
Project Name/Location			Ford LTP	Weather	30.02 degrees F, Light Snow and Fog/Mist		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	3-8	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.46	Total Depth (ft-bmp)	7.48	Water Column (ft.)	2.02	Gallons in Well	0.33
		Pump Intake (ft-bmp)	7.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.36				
Sample Time: Label	13:17	Volume Purged	0.78 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	12:45						
Purge End	13:15						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:45	0	100	5.48	0.00	6.83	0.63	2.17	0.78	11.8	29.4	Clear	No Odor
12:50	5	100	5.48	0.13	6.82	0.61	1.07	0.73	12.4	28.8	Clear	No Odor
12:55	5	100	5.48	0.26	6.83	0.61	1.23	0.38	12.5	31.0	Clear	No Odor
13:00	5	100	5.48	0.39	6.82	0.61	0.61	0.37	12.2	33.9	Clear	No Odor
13:05	5	100	5.48	0.52	6.82	0.61	0.13	0.34	11.8	35.5	Clear	No Odor
13:10	5	100	5.48	0.65	6.85	0.61	0.71	0.29	11.6	34.7	Clear	No Odor
13:15	5	100	5.48	0.78	6.82	0.61	0.02	0.30	11.9	34.5	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

Bentonite swelling 10 ft E of edge of parking lot

Well Casing Volumes

Gallons/Foot	***1" = 0.04***	***1.5" = 0.09***	***2.5" = 0.26***	***3.5" = 0.50***	***6" = 1.47***
	1.25" = 0.06	***2" = 0.16***	***3" = 0.37***	***4" = 0.65***	

Well Information

Well Location:	Slightly S of light on building	Well Locked at Arrival:	yes
Condition of Well:	Poor	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Slightly S of light on building

Prepared By: Heather Woodrum

Date	Time	Description of Activities
11/11/2019	12:20	Arrive onsite
11/11/2019	12:43	Record static depth to water
11/11/2019	12:45	Begin purging well
11/11/2019	13:17	Collect sample MW-188S_111119
11/11/2019	13:15	End purge and turn off pump, begin decon of equpment
11/11/2019	13:30	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-189
Date 11-8-19
Project Name/Location Ford LTP
Weather 33.98 degrees F, Mostly Clear
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 10-15
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 5.73
Total Depth (ft-bmp) 14.98
Water Column (ft.) 9.25
Gallons in Well 1.50
Pump Intake (ft-bmp) 12.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 0.53
Sample Time: Label 12:47
Volume Purged 0.79 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 12:15
Purge End 12:45

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:15	0	109	5.75	0.00	7.20	0.59	6.71	4.11	13.6	2.8	Clear	No Odor
12:20	5	100	5.75	0.14	7.18	0.59	6.28	1.77	14.1	3.5	Clear	No Odor
12:25	5	100	5.75	0.27	7.17	0.59	3.59	1.23	14.3	6.3	Clear	No Odor
12:30	5	100	5.75	0.40	7.14	0.60	2.79	1.15	14.1	4.6	Clear	No Odor
12:35	5	100	5.75	0.53	7.13	0.59	1.24	1.12	14.0	7.7	Clear	No Odor
12:40	5	100	5.75	0.66	7.16	0.59	1.90	1.18	13.9	5.7	Clear	No Odor
12:45	5	100	5.75	0.79	7.13	0.59	1.43	1.18	13.6	6.8	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot
1" = 0.04
1.25" = 0.06
1.5" = 0.09
2" = 0.16
2.5" = 0.26
3" = 0.37
3.5" = 0.50
4" = 0.65
6" = 1.47

Well Information

Well Location: Parking lot of auto broker
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Parking lot of auto broker

Prepared By: Heather Woodrum

Date	Time	Description of Activities
11/8/2019	12:00	Arrive onsite
11/8/2019	12:13	Record static depth to water
11/8/2019	12:15	Begin purging well
11/8/2019	12:47	Collect sample MW-189_110819
11/8/2019	12:45	End purge and turn off pump, begin decon of equpment
11/8/2019	12:55	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-189S
Date 11-8-19
Project Name/Location Ford LTP
Weather 35.06 degrees F, Mostly Clear
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 4.5-9.5
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 6.83
Total Depth (ft-bmp) 9.48
Water Column (ft.) 2.65
Gallons in Well 0.43
Pump Intake (ft-bmp) 8.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 2.37
Sample Time: Label 13:42
Volume Purged 1.02 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 13:00
Purge End 13:40

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:00	0	100	5.89	0.00	7.28	0.55	0.45	2.45	12.8	20.3	Clear	No Odor
13:05	4	100	5.89	0.11	7.28	0.56	0.65	1.76	13.1	19.8	Clear	No Odor
13:10	5	100	5.89	0.24	7.27	0.57	0.02	1.51	13.3	21.4	Clear	No Odor
13:15	5	100	5.89	0.37	7.26	0.58	0.02	1.17	13.7	21.4	Clear	No Odor
13:20	5	100	5.89	0.50	7.21	0.59	0.02	1.10	13.6	24.0	Clear	No Odor
13:25	5	100	5.89	0.63	7.18	0.59	0.02	0.98	13.5	25.3	Clear	No Odor
13:30	5	100	5.89	0.76	7.20	0.60	0.02	0.85	13.4	24.5	Clear	No Odor
13:35	5	100	5.89	0.89	7.18	0.60	0.02	0.80	13.4	25.3	Clear	No Odor
13:40	5	100	5.89	1.02	7.19	0.60	0.02	0.77	13.5	24.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot ***1" = 0.04*** ***1.25" = 0.06*** ***1.5" = 0.09*** ***2" = 0.16*** ***2.5" = 0.26*** ***3" = 0.37*** ***3.5" = 0.50*** ***4" = 0.65*** ***6" = 1.47***

Well Information

Well Location: N of 189
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

ARCADIS Design & Consultancy for natural and built assets

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP N of 189

Prepared By: Heather Woodrum

Date	Time	Description of Activities
11/8/2019	12:00	Arrive onsite
11/8/2019	12:58	Record static depth to water
11/8/2019	13:00	Begin purging well
11/8/2019	13:42	Collect sample MW-189S_110819
11/8/2019	13:40	End purge and turn off pump, begin decon of equpment
11/8/2019	13:55	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30016346.00002
Well ID MW-190
Date 11-8-19
Project Name/Location Ford LTP
Weather 24.08 degrees F, Clear
Measuring Pt. Description Top of Casing
Screen Setting (ft-bmp) 9-14
Casing Diameter (in.) 2
Well Material PVC
Static Water Level (ft-bmp) 4.06
Total Depth (ft-bmp) 13.37
Water Column (ft.) 9.31
Gallons in Well 1.51
Pump Intake (ft-bmp) 11.50
Purge Method Low-Flow
Sample Method Low-Flow
Well Volumes Purged 1.03
Sample Time: Label 10:02
Volume Purged 1.56 gallons
Replicate/Code No. --
Sampled by Heather Woodrum
Purge Start 9:00
Purge End 10:00

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:00	0	100	4.06	0.00	7.10	2.26	635.00	1.94	13.3	128.5	Cloudy, White	No Odor
9:05	5	100	4.06	0.13	7.20	2.29	773.00	0.72	13.5	107.0	Cloudy, White	No Odor
9:10	5	100	4.06	0.26	7.23	2.07	810.00	0.31	13.8	83.0	Cloudy, Gray	No Odor
9:15	5	100	4.06	0.39	7.19	1.93	814.00	0.35	13.5	74.8	Cloudy, Gray	No Odor
9:20	5	100	4.06	0.52	7.22	1.86	714.00	0.20	13.8	67.2	Cloudy, Gray	No Odor
9:25	5	100	4.06	0.65	7.19	1.82	613.00	0.21	13.3	62.3	Cloudy, Gray	No Odor
9:30	5	100	4.06	0.78	7.19	1.80	606.00	0.24	13.2	58.4	Cloudy, Gray	No Odor
9:35	5	100	4.06	0.91	7.20	1.71	611.00	0.18	13.4	51.0	Cloudy, Gray	No Odor
9:40	5	100	4.06	1.04	7.21	1.72	578.00	0.18	12.9	49.3	Cloudy, Gray	No Odor
9:45	5	100	4.06	1.17	7.23	1.65	562.00	0.12	13.3	44.1	Cloudy, Gray	No Odor
9:50	5	100	4.06	1.30	7.22	1.66	496.00	0.15	13.8	41.6	Cloudy, Gray	No Odor
9:55	5	100	4.06	1.43	7.23	1.66	466.00	0.15	13.7	38.6	Cloudy, Gray	No Odor
10:00	5	100	4.06	1.56	7.20	2.27	377.00	0.09	13.3	45.5	Cloudy, Gray	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.5" = 0.09* *2.5" = 0.26* *3.5" = 0.50* *6" = 1.47*
1.25" = 0.06 *2" = 0.16* *3" = 0.37* *4" = 0.65*

Well Information

Well Location: Inside gated area
Well Locked at Arrival: yes
Condition of Well: Good
Well Locked at Departure: yes
Well Completion: Flush mount
Lock Functioning: yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Inside gated area

Prepared By: Heather Woodrum

Date	Time	Description of Activities
11/8/2019	8:45	Arrive onsite
11/8/2019	8:58	Record static depth to water
11/8/2019	9:00	Begin purging well
11/8/2019	10:02	Collect sample MW-190_110819
11/8/2019	10:00	End purge and turn off pump, begin decon of equpment
11/8/2019	10:08	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-190S			Date	11-8-19
Project Name/Location	Ford LTP			Weather	26.96 degrees F, Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-7.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.02	Total Depth (ft-bmp)	6.85	Water Column (ft.)	2.83	Gallons in Well	0.46
		Pump Intake (ft-bmp)	5.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.98				
Sample Time: Label	10:52	Volume Purged	0.91 gallons	Replicate/Code No.	--	Sampled by	Heather Woodrum
Purge Start	10:15						
Purge End	10:50						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:15	0	100	4.05	0.00	7.05	0.79	98.30	0.91	12.3	8.5	Cloudy	No Odor
10:20	5	100	4.05	0.13	7.04	0.73	27.70	0.56	13.0	4.1	Clear	No Odor
10:25	5	100	4.05	0.26	7.05	0.65	17.60	0.38	13.6	9.1	Clear	No Odor
10:30	5	100	4.05	0.39	7.07	0.63	10.30	0.21	14.0	10.3	Clear	No Odor
10:35	5	100	4.05	0.52	7.08	0.63	8.52	0.20	14.1	8.6	Clear	No Odor
10:40	5	100	4.05	0.65	7.09	0.62	4.31	0.16	14.2	7.9	Clear	No Odor
10:45	5	100	4.05	0.78	7.09	0.61	3.37	0.19	14.6	7.0	Clear	No Odor
10:50	5	100	4.05	0.91	7.09	0.61	2.61	0.20	14.5	6.7	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	**Container**	**Number**	**Preservative**
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot *1" = 0.04* *1.25" = 0.06* *1.5" = 0.09* *2" = 0.16* *2.5" = 0.26* *3" = 0.37* *3.5" = 0.50* *4" = 0.65* *6" = 1.47*

Well Information

Well Location:	2 ft N of 190	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002

Page 1 of 1

Site Location: Ford LTP 2 ft N of 190

Prepared By: Heather Woodrum

Date	Time	Description of Activities
11/8/2019	8:45	Arrive onsite
11/8/2019	10:13	Record static depth to water
11/8/2019	10:15	Begin purging well
11/8/2019	10:52	Collect sample MW-190S_110819
11/8/2019	10:50	End purge and turn off pump, begin decon of equpment
11/8/2019	11:05	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30016346.00002	Well ID	MW-191S			Date	11-19-19
Project Name/Location			Ford LTP	Weather	35.06 degrees F, Fog/Mist		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-7.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	3.88	Total Depth (ft-bmp)	6.81	Water Column (ft.)	2.93	Gallons in Well	0.48
		Pump Intake (ft-bmp)	5.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	3.92				
Sample Time: Label	10:15	Volume Purged	1.88 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	9:33						
Purge End	10:12						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:34	0	200	3.91	0.00	6.41	0.86	19.70	0.93	10.9	209.6	Clear	No Odor
9:39	5	200	3.91	0.26	4.50	0.81	19.50	0.29	11.3	178.0	Clear	No Odor
9:44	5	200	3.91	0.52	6.96	0.78	12.70	0.33	11.5	150.1	Clear	No Odor
9:49	5	200	3.91	0.78	7.06	0.78	6.00	0.36	11.6	124.7	Clear	No Odor
9:54	5	200	3.91	1.04	7.10	0.78	0.02	0.25	11.6	102.4	Clear	No Odor
9:59	5	200	3.91	1.30	7.12	0.77	0.02	0.22	11.9	96.8	Clear	No Odor
10:04	5	200	3.91	1.56	7.13	0.78	0.02	0.20	11.9	89.2	Clear	No Odor
10:07	3	200	3.91	1.72	7.14	0.77	0.02	0.17	11.9	85.3	Clear	No Odor
10:10	3	200	3.91	1.88	7.15	0.77	0.02	0.17	11.9	82.1	Clear	No Odor
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* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL

Comments

None

Well Casing Volumes

Gallons/Foot	*1" = 0.04*	*1.5" = 0.09*	*2.5" = 0.26*	*3.5" = 0.50*	*6" = 1.47*
	1.25" = 0.06	*2" = 0.16*	*3" = 0.37*	*4" = 0.65*	

Well Information

Well Location:	Back parking lot next to pallet storage in parking space	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30016346.00002 Page 1 of 1

Site Location: Ford LTP Back parking lot next to pallet storage in parking space

Prepared By: Christina Weaver

Date	Time	Description of Activities
11/19/2019	9:15	Arrive onsite
11/19/2019	9:31	Record static depth to water
11/19/2019	9:33	Begin purging well
11/19/2019	10:15	Collect sample MW-191S_111919
11/19/2019	10:12	End purge and turn off pump, begin decon of equpment
11/19/2019	10:28	Offsite
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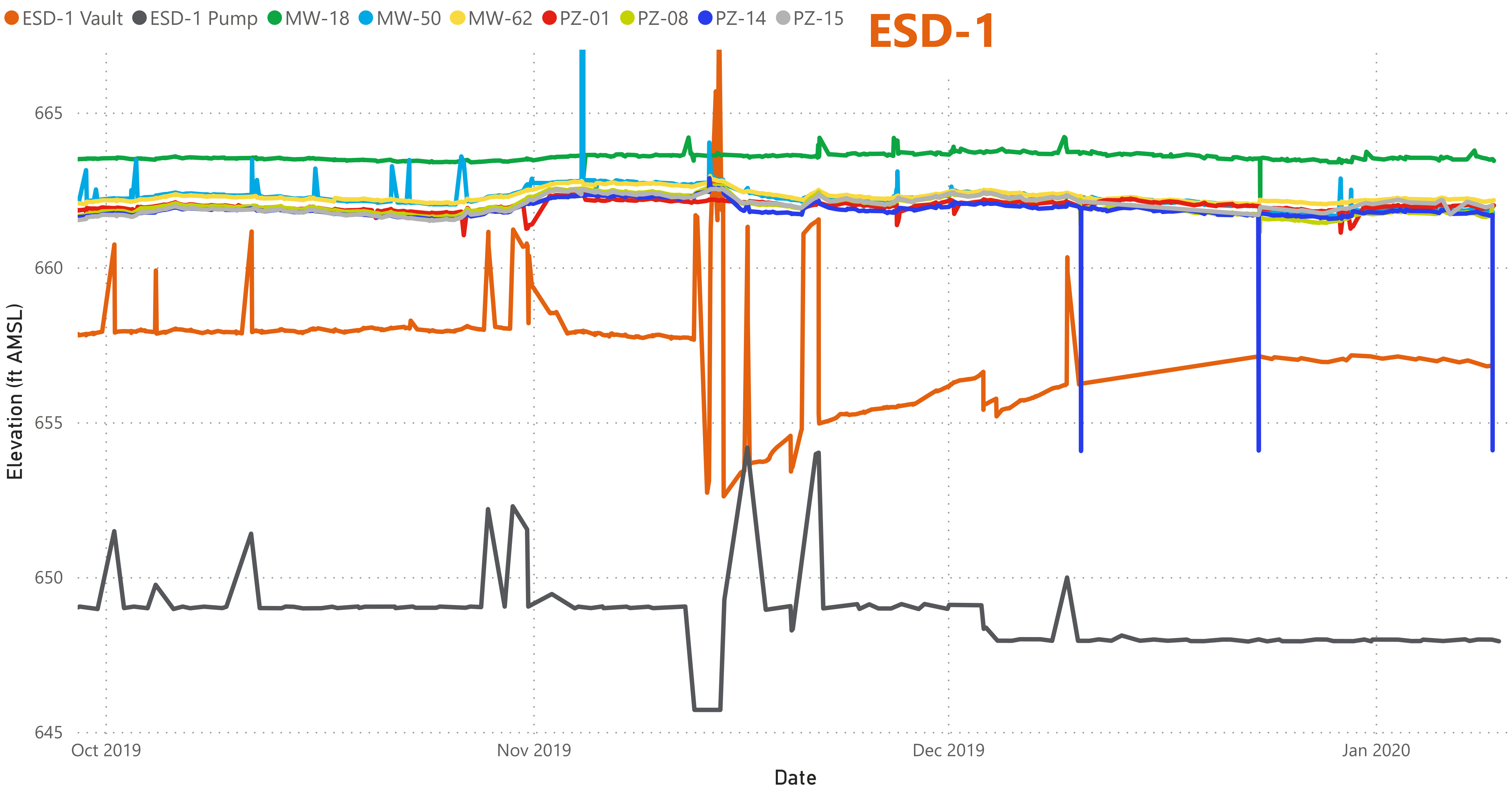
APPENDIX D

Transducer Data

ESD-1

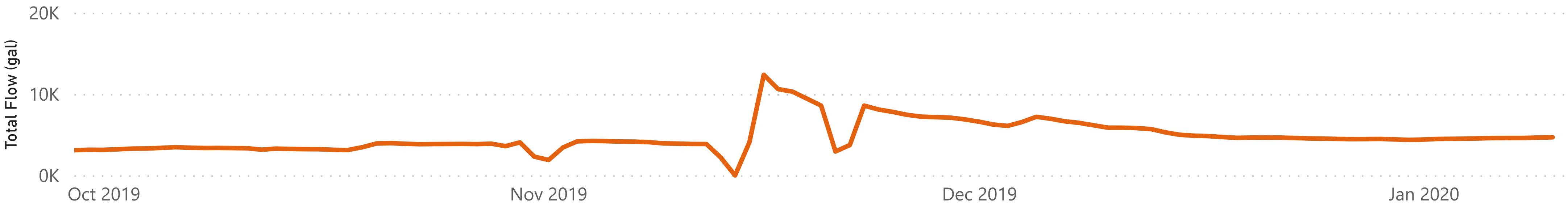


Transducer Download Dates

Monday, November 4, 2019

Monday, December 23, 2019

ESD-1 Daily Flow



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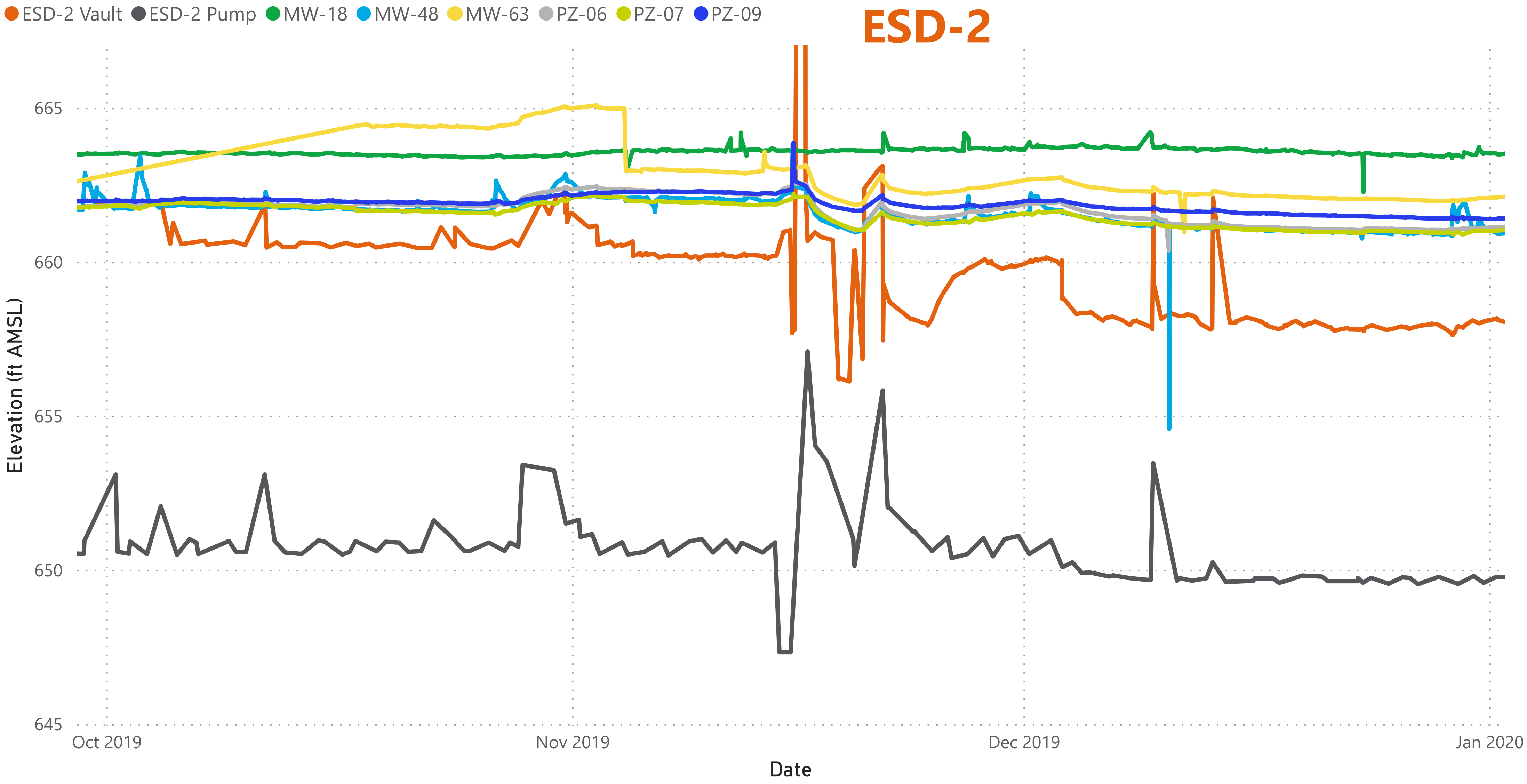
ESD-2

Transducer Download Dates

Monday, November 4, 2019

Monday, December 23, 2019



ESD-2 Daily Flow

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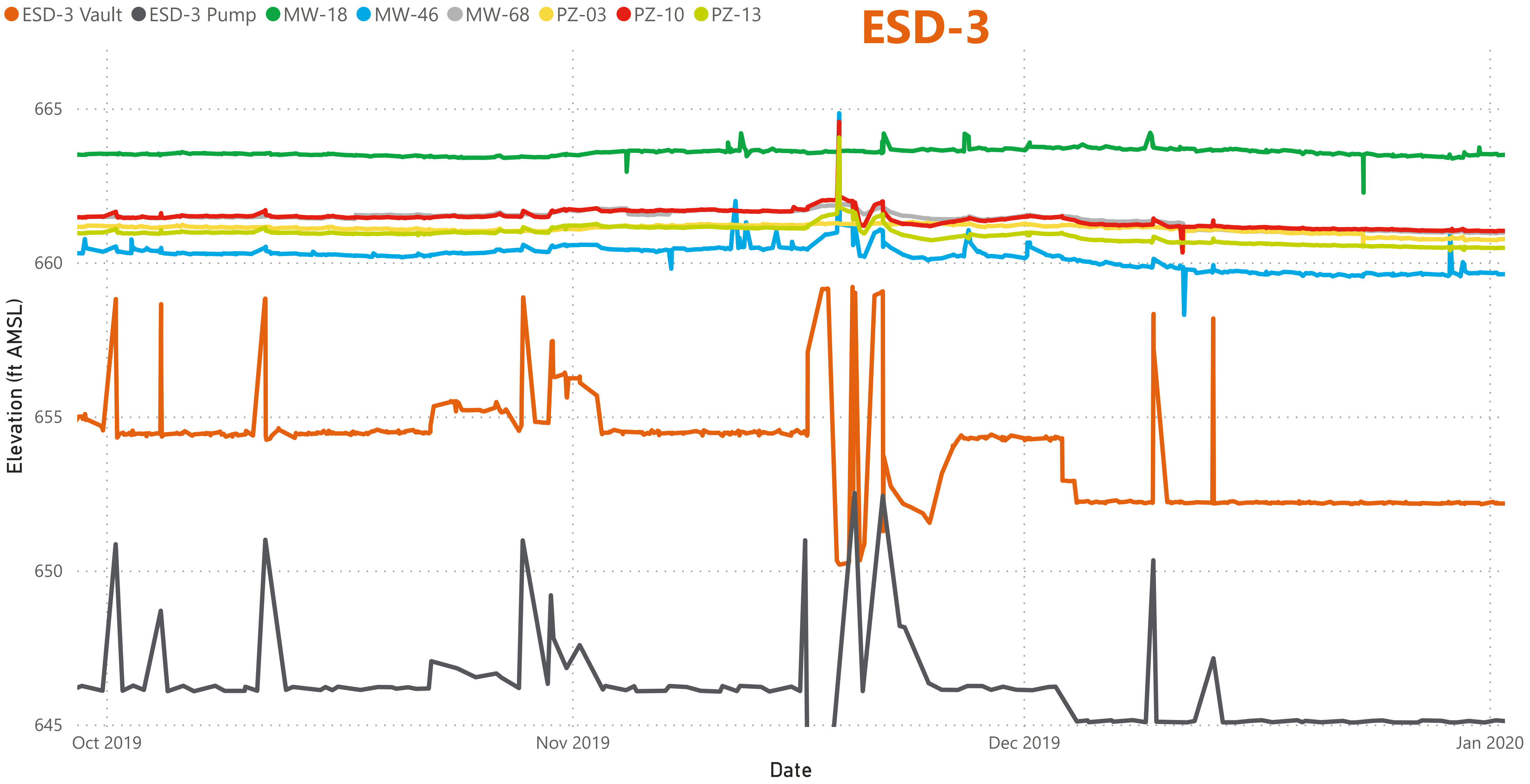
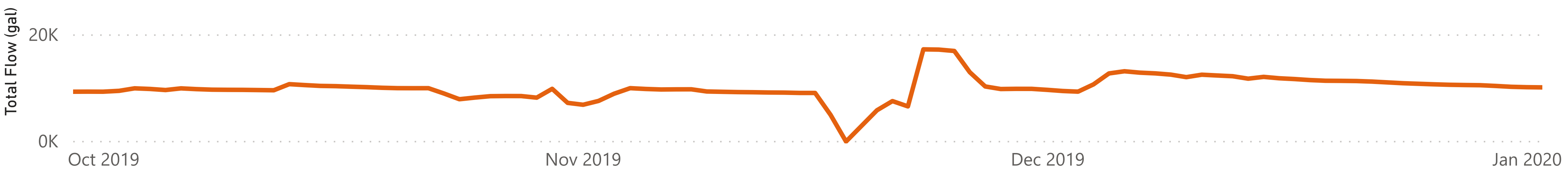
ESD-3



Transducer Download Dates
Monday, November 4, 2019
Monday, December 23, 2019

ESD-3 Daily Flow



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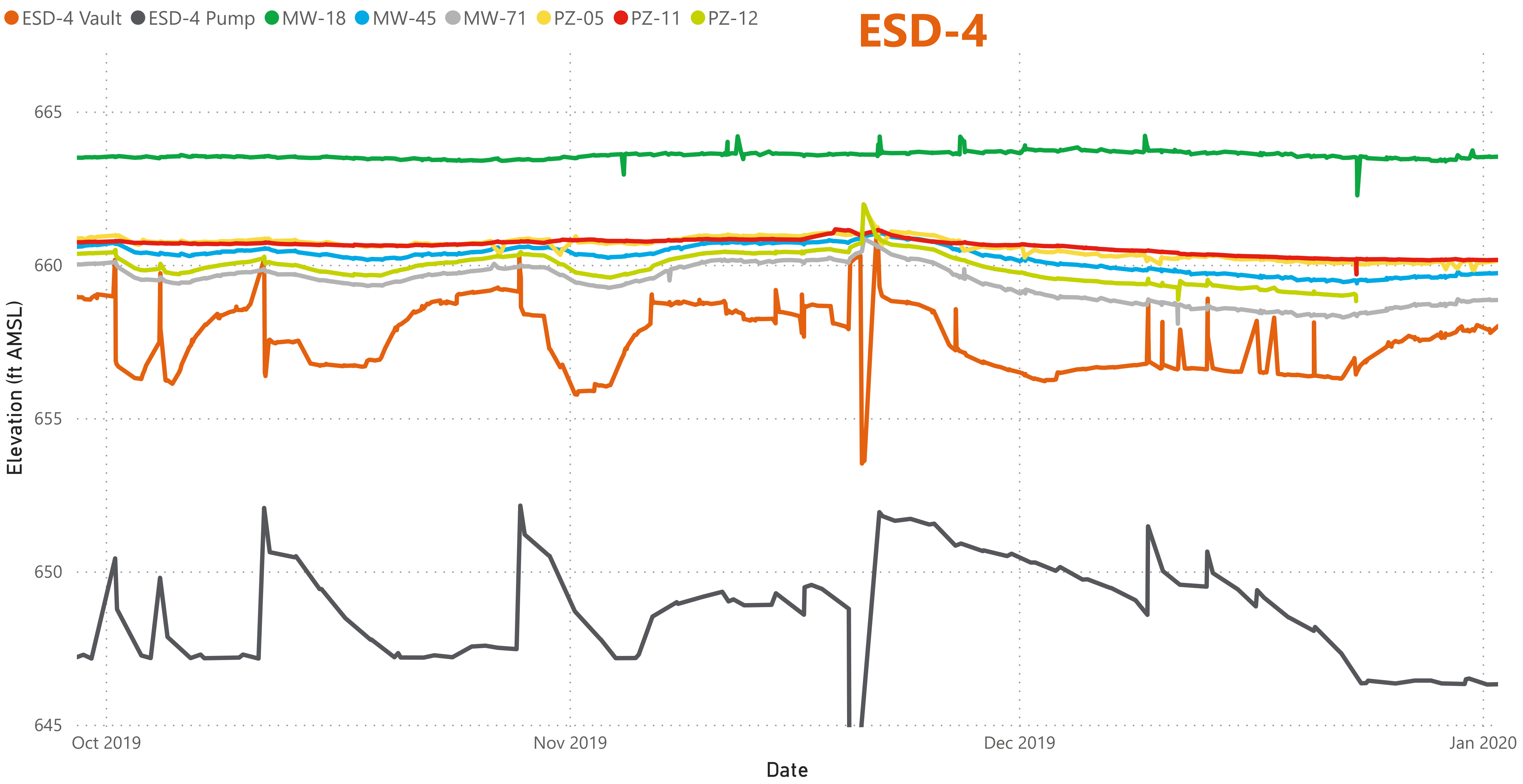
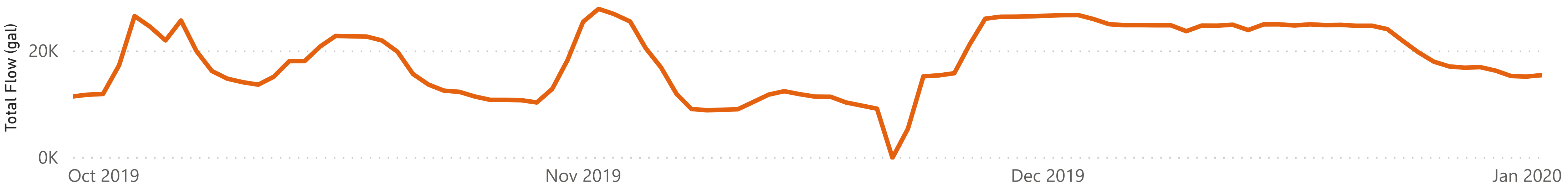
ESD-4



Transducer Download Date
Monday, November 4, 2019
Monday, December 23, 2019

ESD-4 Daily Flow



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APPENDIX E

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.

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 Concentratior	n	% detections	CV	S-Statistic	p-value	Trend Determination
MW-02	TCE	5/12/2016	11/20/2019	3.4 J	< 140	3.4 J	12	33	NA	NA	NA	NA
MW-02	Total DCE	5/12/2016	11/20/2019	550	4,640	3,763	12	100	0.6	58	< 0.01	Statistically Significant Increasing
MW-02	VC	5/12/2016	11/20/2019	140	230	160	12	100	0.1	-4	0.417	Stable
MW-05	TCE	5/13/2016	11/20/2019	0.18 J	< 1.0	< 1.0	11	18	NA	NA	NA	NA
MW-05	Total DCE	5/13/2016	11/20/2019	0.39 J	< 1.0	< 1.0	11	18	NA	NA	NA	NA
MW-05	VC	5/13/2016	11/20/2019	< 1.0	< 1.0	< 1.0	11	0	NA	NA	NA	NA
MW-09	TCE	5/12/2016	11/21/2019	< 1.0	< 1.0	< 1.0	11	0	NA	NA	NA	NA
MW-09	Total DCE	5/12/2016	11/21/2019	0.29 J	< 1.0	< 1.0	11	9	NA	NA	NA	NA
MW-09	VC	5/12/2016	11/21/2019	0.81 J	7.6	0.81 J	11	100	0.8	-49	< 0.01	Statistically Significant Decreasing
MW-10	TCE	5/13/2016	11/19/2019	< 10	< 250	< 10	12	8	NA	NA	NA	NA
MW-10	Total DCE	5/13/2016	11/19/2019	6.4 J	< 250	6.4 J	12	8	NA	NA	NA	NA
MW-10	VC	5/13/2016	11/19/2019	1,200	3,600	2,700	12	100	0.3	37	< 0.01	Statistically Significant Increasing
MW-22	TCE	5/10/2016	11/12/2019	0.25 J	< 200	< 2.0	12	8	NA	NA	NA	NA
MW-22	Total DCE	5/10/2016	11/12/2019	25	394	233	12	100	0.5	23	0.065	Statistically Significant Increasing
MW-22	VC	5/10/2016	11/12/2019	830	2,600 J	860	12	100	0.3	-14	0.185	Potentially Decreasing
MW-23	TCE	5/10/2016	11/11/2019	1,000	25,000	2,800	10	100	0.7	-4	0.398	Variable
MW-23	Total DCE	5/10/2016	11/11/2019	2,580	82,100	15,521	10	100	0.7	-3	0.431	Variable
MW-23	VC	5/10/2016	11/11/2019	77 J	2,400	380	10	90	0.6	-10	0.216	Variable
MW-34	TCE	5/10/2016	11/23/2019	< 1.0	< 1.0	< 1.0	12	0	NA	NA	NA	NA
MW-34	Total DCE	5/10/2016	11/23/2019	0.29 J	< 1.0	0.66 J	12	58	0.3	NA	NA	Less than screening criteria
MW-34	VC	5/10/2016	11/23/2019	0.52 J	2.2	1.8	12	100	0.5	21	0.085	Statistically Significant Increasing
MW-35	TCE	5/10/2016	11/23/2019	0.11 J	< 1.0	< 1.0	11	9	NA	NA	NA	NA
MW-35	Total DCE	5/10/2016	11/23/2019	0.19 J	< 1.0	< 1.0	11	9	NA	NA	NA	NA
MW-35	VC	5/10/2016	11/23/2019	1.8	7.2	3.2	11	100	0.5	-7	0.320	Stable
MW-40	TCE	5/10/2016	11/23/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-40	Total DCE	5/10/2016	11/23/2019	2.6	4.2	3.7	9	100	0.2	NA	NA	Less than screening criteria
MW-40	VC	5/10/2016	11/23/2019	0.26 J	1.8	0.7 J	9	89	0.5	0	0.540	Stable
MW-41	TCE	5/11/2016	11/23/2019	< 1.0	< 1.0	< 1.0	12	0	NA	NA	NA	NA
MW-41	Total DCE	5/11/2016	11/23/2019	0.77 J	3.5	3.2	12	100	0.3	NA	NA	Less than screening criteria
MW-41	VC	5/11/2016	11/23/2019	1.5	5.3	2.7	12	100	0.4	-9	0.290	Stable to Decreasing
MW-43	TCE	5/11/2016	11/23/2019	< 1.0	< 1.0	< 1.0	12	0	NA	NA	NA	NA
MW-43	Total DCE	5/11/2016	11/23/2019	< 1.0	< 1.0	< 1.0	12	0	NA	NA	NA	NA
MW-43	VC	5/11/2016	11/23/2019	0.33 J	17	0.33 J	12	92	1.1	-44	< 0.01	Statistically Significant Decreasing
MW-46	TCE	5/12/2016	11/7/2019	< 1.0	< 5.0	< 1.0	12	0	NA	NA	NA	NA
MW-46	Total DCE	5/12/2016	11/7/2019	1.6 J	26	6.4	12	100	0.7	NA	NA	Less than screening criteria
MW-46	VC	5/12/2016	11/7/2019	13	150	32	12	100	0.8	-15	0.168	Potentially Decreasing
MW-49	TCE	5/12/2016	11/13/2019	< 50	< 2,500	< 50	11	0	NA	NA	NA	NA
MW-49	Total DCE	5/12/2016	11/13/2019	15,110	43,000	23,198	11	100	0.3	-4	0.407	Stable
MW-49	VC	5/12/2016	11/13/2019	4,900	10,000	7,800	11	100	0.2	-15	0.136	Potentially Decreasing
MW-50	TCE	5/11/2016	11/5/2019	< 1.0	< 6.7	< 1.0	12	0	NA	NA	NA	NA
MW-50	Total DCE	5/11/2016	11/5/2019	5.2	23	6.0	12	100	0.4	NA	NA	Less than screening criteria
MW-50	VC	5/11/2016	11/5/2019	48	200	120	12	100	0.3	20	0.095	Statistically Significant Increasing
MW-52	TCE	5/11/2016	11/23/2019	< 1.0	< 1.0	< 1.0	11	0	NA	NA	NA	NA
MW-52	Total DCE	5/11/2016	11/23/2019	< 1.0	< 1.0	< 1.0	11	0	NA	NA	NA	NA
MW-52	VC	5/11/2016	11/23/2019	3.4	9.1	4.7	11	100	0.3	-17	0.106	Potentially Decreasing
MW-54	TCE	7/27/2017	11/19/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-54	Total DCE	7/27/2017	11/19/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-54	VC	7/27/2017	11/19/2019	0.34 J	1.5	1.2	8	100	0.4	-5	0.317	Stable
MW-62	TCE	4/21/2017	11/5/2019	< 1.0	< 1.0	< 1.0	11	0	NA	NA	NA	NA
MW-62	Total DCE	4/21/2017	11/5/2019	0.23 J	1.6	< 1.0	11	64	0.9	NA	NA	Less than screening criteria
MW-62	VC	4/21/2017	11/5/2019	0.62 J	1.5	1.5	11	91	0.3	-7	0.319	Stable
MW-64	TCE	4/24/2017	11/15/2019	< 1.0	< 1.0	< 1.0	11	0	NA	NA	NA	NA
MW-64	Total DCE	4/24/2017	11/15/2019	0.23 J	0.37 J	0.29 J	11	82	0.1	NA	NA	Less than screening criteria
MW-64	VC	4/24/2017	11/15/2019	1.3	9.9	7.3	11	100	0.6	9	0.267	Stable to Increasing
MW-65	TCE	4/25/2017	11/5/2019	< 1.0	< 4.0	< 1.0	11	0	NA	NA	NA	NA
MW-65	Total DCE	4/25/2017	11/5/2019	3.3	7.0	4.8	11	100	0.2	NA	NA	Less than screening criteria
MW-65	VC	4/25/2017	11/5/2019	25	61	45	11	100	0.2	-27	0.020	Statistically Significant Decreasing
MW-66	TCE	4/25/2017	11/5/2019	< 1.0	< 1.0	< 1.0	11	0	NA	NA	NA	NA
MW-66	Total DCE	4/25/2017	11/5/2019	0.19 J	< 1.0	< 1.0	11	9	NA	NA	NA	NA
MW-66	VC	4/25/2017	11/5/2019	0.81 J	5.6	0.81 J	11	91	0.6	-36	< 0.01	Statistically Significant Decreasing
MW-68	TCE	4/24/2017	11/7/2019	0.26 J	< 1.0	0.50 J	11	18	NA	NA	NA	NA
MW-68	Total DCE	4/24/2017	11/7/2019	11	45	45	11	100	0.5	NA	NA	Less than screening criteria
MW-68	VC	4/24/2017	11/7/2019	2.1	19	17	11	100	0.8	11	0.215	Variable
MW-69	TCE	4/25/2017	11/21/2019	< 1.0	< 1.0	< 1.0	10	0	NA	NA	NA	NA
MW-69	Total DCE	4/25/2017	11/21/2019	0.19 J	< 1.0	0.30 J	10	40	NA	NA	NA	NA
MW-69	VC	4/25/2017	11/21/2019	< 1.0	4.2	4.2	10	80	0.3	24	0.019	Statistically Significant Increasing
MW-71	TCE	4/24/2017	11/7/2019	< 1.0	< 1.0	< 1.0	11	0	NA	NA	NA	NA
MW-71	Total DCE	4/24/2017	11/7/2019	0.30 J	0.61 J	0.61 J	11	82	0.2	NA	NA	Less than screening criteria
MW-71	VC	4/24/2017	11/7/2019	0.31 J	0.83 J	0.83 J	11	82	0.3	NA	NA	Less than screening criteria
MW-72	TCE	5/22/2017	11/5/2019	< 1.0	< 1.0	< 1.0	11	0	NA	NA	NA	NA
MW-72	Total DCE	7/26/2017	11/5/2019	< 1.0	< 1.0	< 1.0	11	0	NA	NA	NA	NA
MW-72	VC	5/22/2017	11/5/2019	1.1	3.9	2.8	11	100	0.5	-10	0.241	Stable to Decreasing
MW-73D	TCE	5/22/2017	11/11/2019	< 1.0	< 1.0	< 1.0	11	0	NA	NA	NA	NA
MW-73D	Total DCE	7/26/2017	11/11/2019	0.19 J	0.56 J	< 1.0	10	60	0.3	NA	NA	Less than screening criteria
MW-73D	VC	5/22/2017	11/11/2019	0.48 J	1.3	< 1.0	11	73	0.3	NA	NA	Less than screening criteria
MW-73S	TCE	5/22/2017	11/11/2019	0.23 J	< 1.0	< 1.0	12	83	0.2	NA	NA	Less than screening criteria
MW-73S	Total DCE	7/26/2017	11/11/2019	1.3	3.4	2.4	11	100	0.3	NA	NA	Less than screening criteria
MW-73S	VC	5/22/2017	11/11/2019	0.62 J	1.9	1.00	12	92	0.3	-19	0.108	Potentially Decreasing
MW-74	TCE	5/23/2017	11/11/2019	< 1.0	< 1.0	< 1.0	11	0	NA	NA	NA	NA
MW-74	Total DCE	7/26/2017	11/11/2019	0.41 J	1.3	0.62 J	10	80	0.5	NA	NA	Less than screening criteria
MW-74	VC	5/23/2017	11/11/2019	0.70 J	2.8	1.8	11	82	0.4	-8	0.292	Stable
MW-75D	TCE	5/23/2017	11/26/2019	< 1.0	< 1.0	< 1.0	11	0	NA	NA	NA	NA
MW-75D	Total DCE	7/26/2017	11/26/2019	< 1.0	< 1.0	< 1.0	10	0	NA	NA	NA	NA
MW-75D	VC	5/23/2017	11/26/2019	1.6	6.4	2.2	11	100	0.6	-35	< 0.01	Statistically Significant Decreasing
MW-79D	TCE	5/24/2017	11/12/2019	< 1.0	< 1.0	< 1.0	11	0	NA	NA	NA	NA
MW-79D	Total DCE	7/25/2017	11/12/2019	< 1.0	< 1.0	< 1.0	10	0	NA	NA	NA	NA
MW-79D	VC	5/24/2017	11/12/2019	1.3	4.1	2.6	11	100	0.4	-26	0.025	Statistically Significant Decreasing
MW-80S	TCE	5/24/2017	11/5/2019	< 1.0	< 1.0	< 1.0	12	0	NA	NA	NA	NA
MW-80S	Total DCE	7/25/2017	11/5/2019	0.18 J	< 1.0	< 1.0	11	9	NA	NA	NA	NA
MW-80S	VC	5/24/2017	11/5/2019	1.4	7.6	3.6	12	100	0.5	-24	0.057	Statistically Significant Decreasing
MW-85	TCE	5/25/2017	11/13/2019	< 1.0	< 1.0	< 1.0	11	0	NA	NA	NA	NA
MW-85	Total DCE	7/25/2017	11/13/2019	< 1.0	< 1.0	< 1.0	10	0	NA	NA	NA	NA
MW-85	VC	5/25/2017	11/13/2019	5.4	8.6	5.1 J	11	100	0.2	-35	< 0.01	Statistically Significant Decreasing
TW-16-02	TCE	4/25/2017	11/11/2019	< 20	< 1,000	< 25	11	0	NA	NA	NA	NA
TW-16-02	Total DCE	4/25/2017	11/11/2019	170	7,830	3,363	11	100	0.5	-9	0.267	Variable
TW-16-02	VC	4/25/2017	11/11/2019	420	15,000	5,700	11	100	0.6	-38	< 0.01	Statistically Significant Decreasing
TW-16-04	TCE	4/25/2017	11/14/2019	< 1.0	< 6.7	< 1.0	11	0	NA	NA	NA	NA
TW-16-04	Total DCE	4/25/2017	11/14/2019	13	25	20	11	100	0.2	NA	NA	Less than screening criteria
TW-16-04	VC	4/25/2017	11/14/2019	46	150	46	11	100	0.4	-46	< 0.01	Statistically Significant Decreasing

Notes:
All concentrations are micrograms per liter
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.

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
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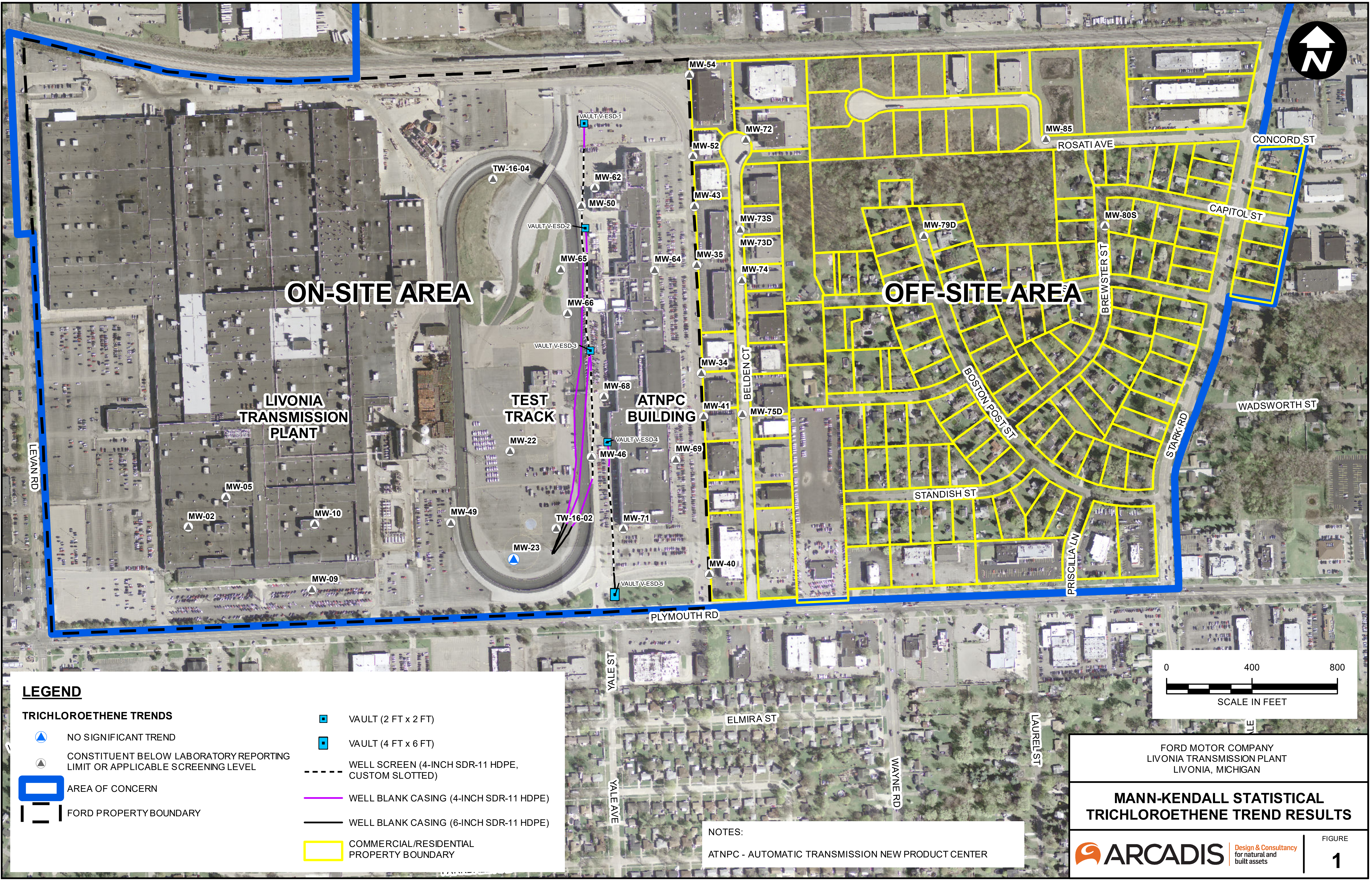


NOTES:

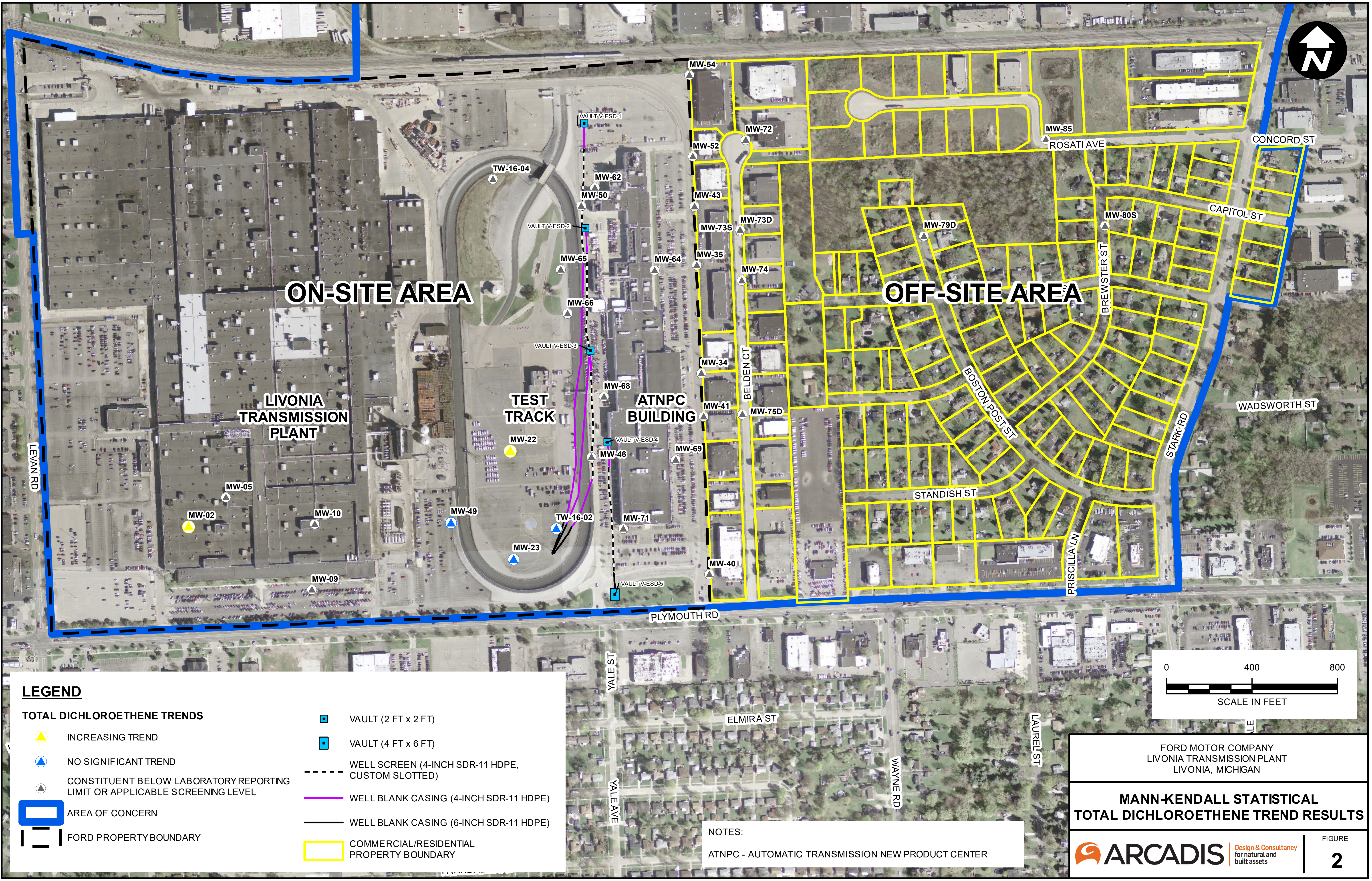
ATNPC - AUTOMATIC TRANSMISSION NEW PRODUCT CENTER

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

MANN-KENDALL STATISTICAL TRICHLOROETHENE TREND RESULTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1



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

NOTES:

ATNPC - AUTOMATIC TRANSMISSION NEW PRODUCT CENTER

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

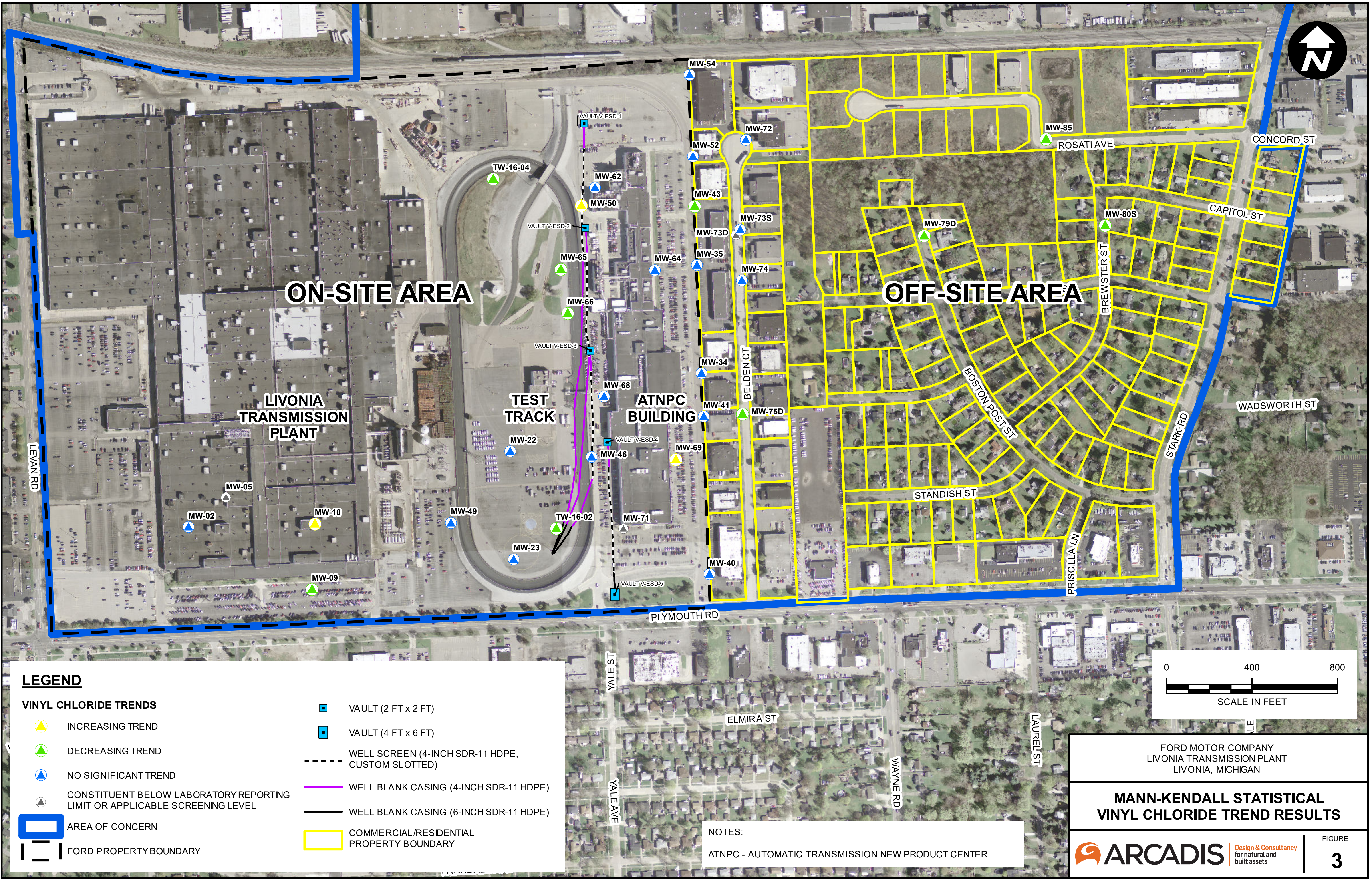
MANN-KENDALL STATISTICAL TOTAL DICHLOROETHENE TREND RESULTS

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\NoviBrighton_MI\Ford\Livonia\GIS\docs\2018-10\MK_Trends_20181022.mxd PLOTTED: 4/15/2019 1:46:05 PM BY: dolexa

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_MI\Ford\Livonia\GIS\docs\2018-10\MK_Trends_20181022.mxd PLOTTED: 4/15/2019 1:46:05 PM BY: dolexa



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

NOTES:

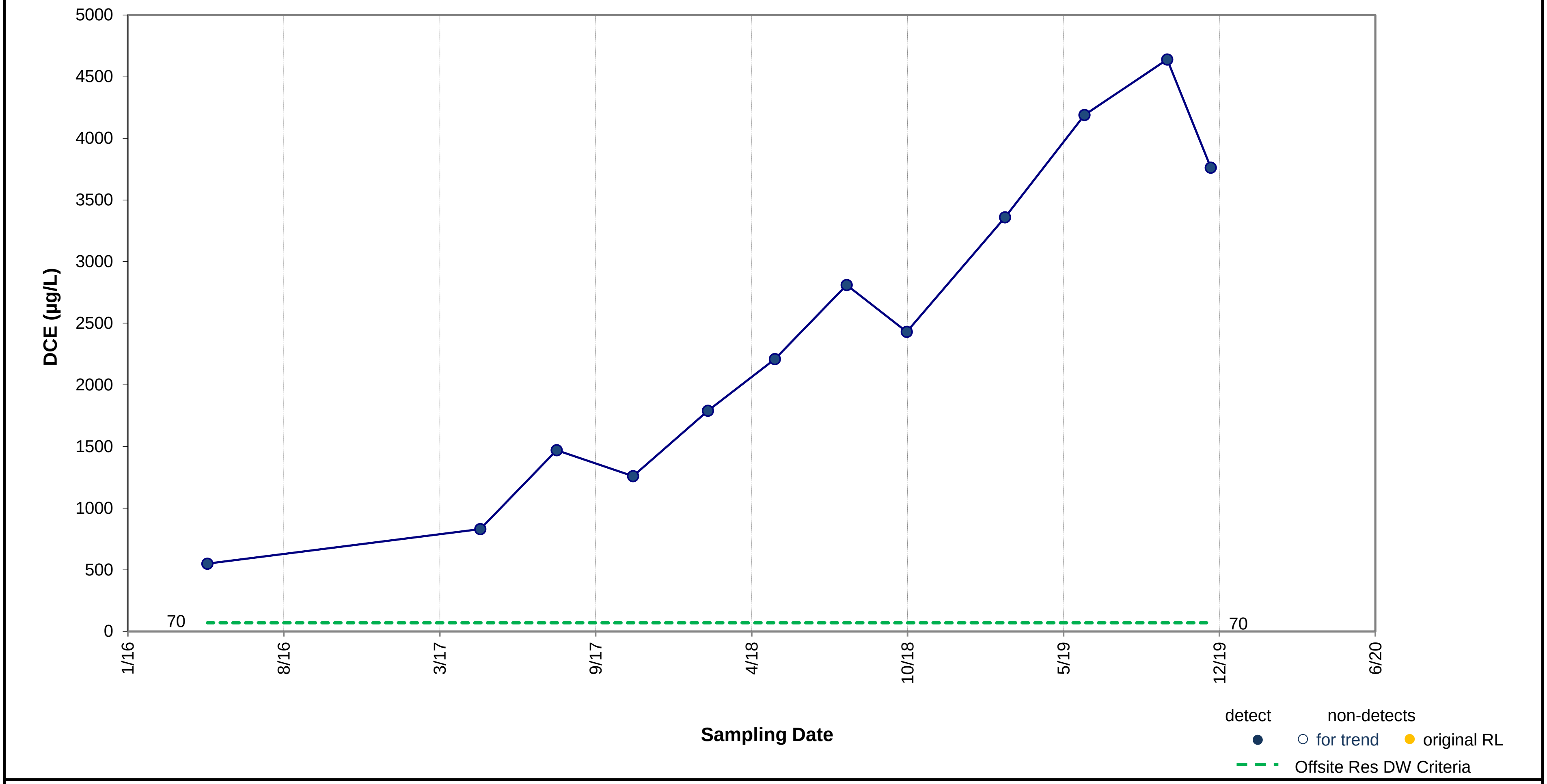
ATNPC - AUTOMATIC TRANSMISSION NEW PRODUCT CENTER

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**

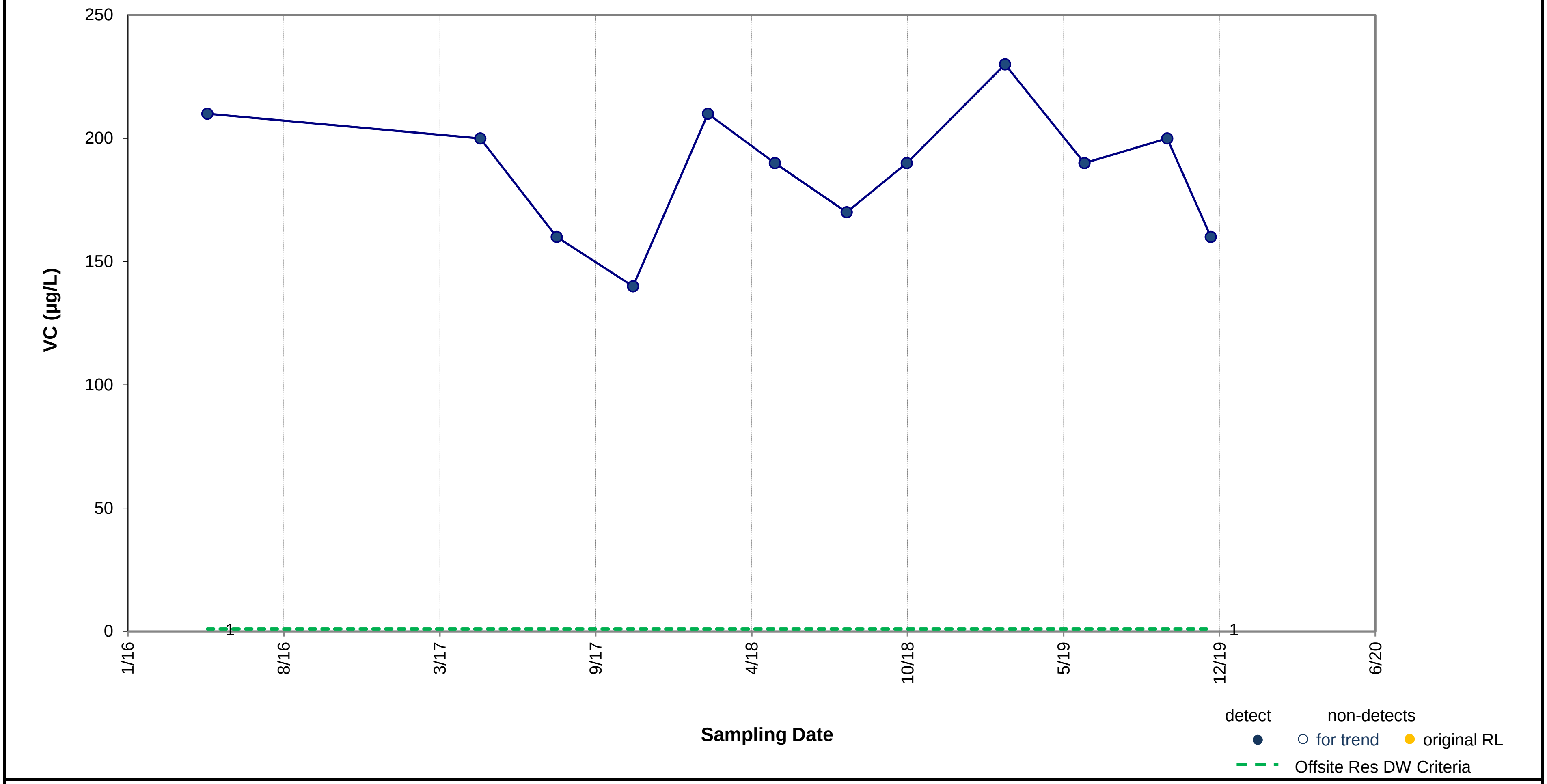
p value = <0.001 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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



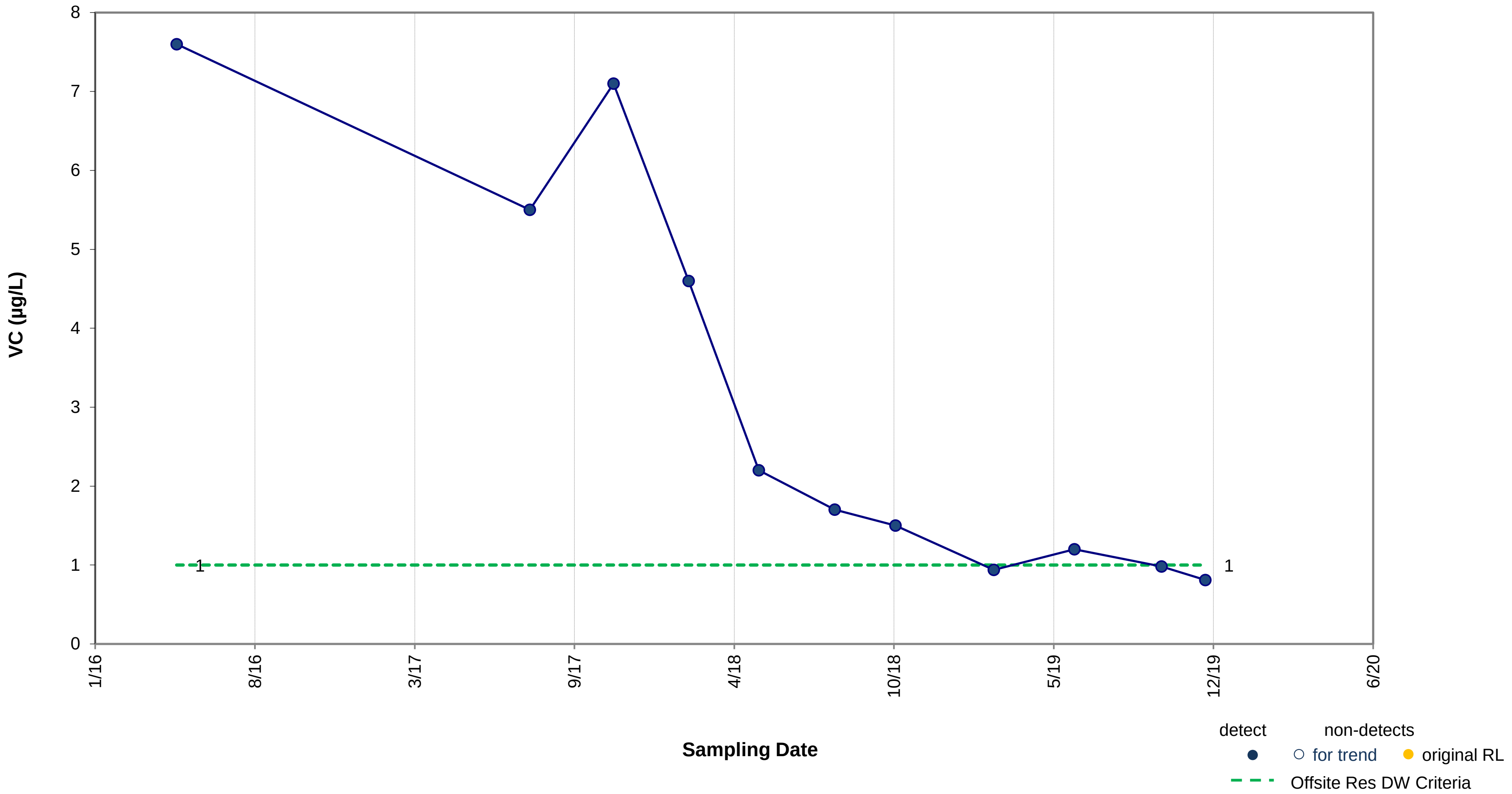
Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.417 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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).

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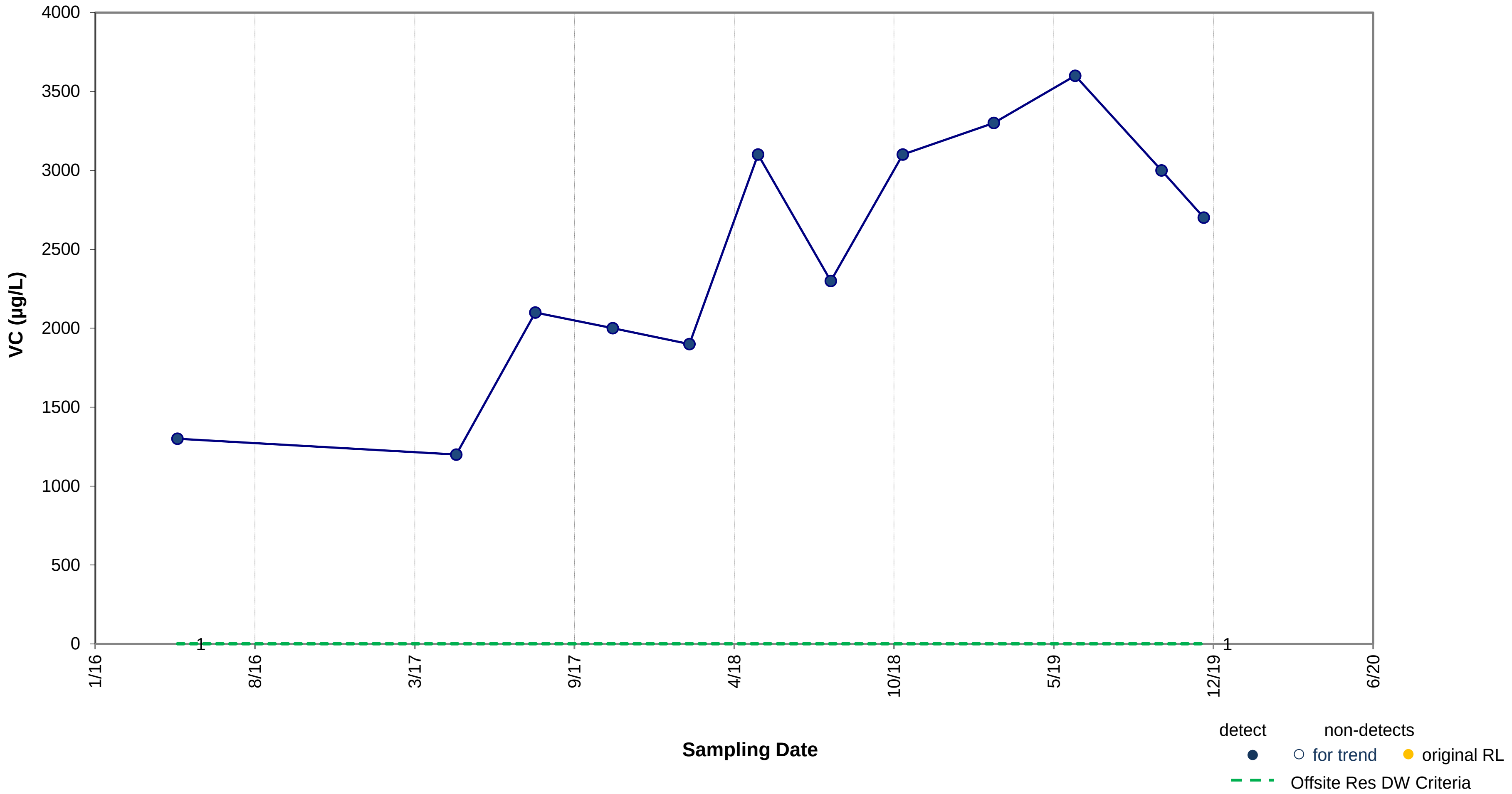
Concentration vs. Time Plot – VC in MW-9

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 6



Results of Mann-Kendall Test for Trend: **INCREASING TREND**

p value = 0.007 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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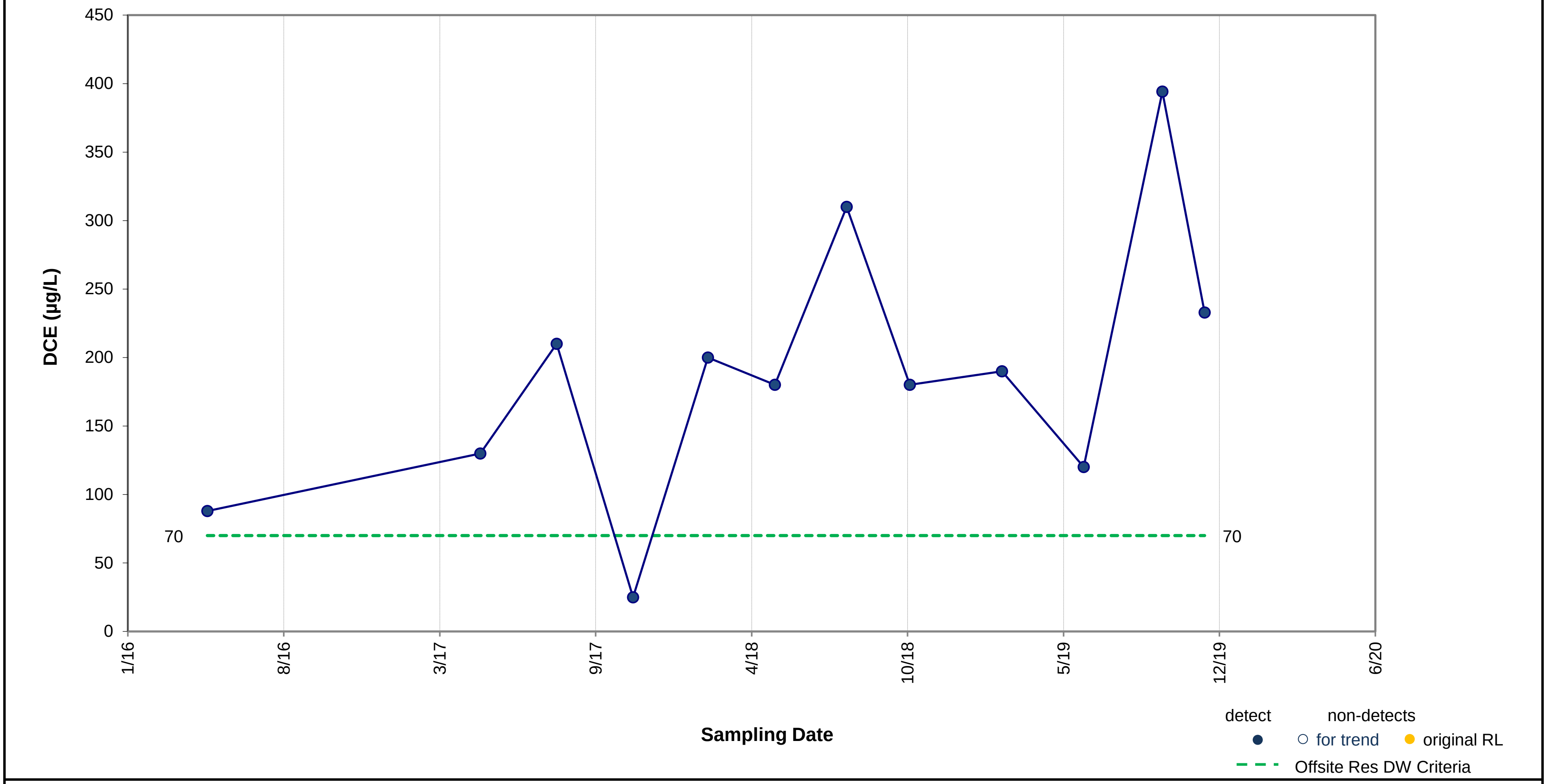
Concentration vs. Time Plot – VC in MW-10

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 7



Results of Mann-Kendall Test for Trend: **INCREASING TREND**

p value = 0.065 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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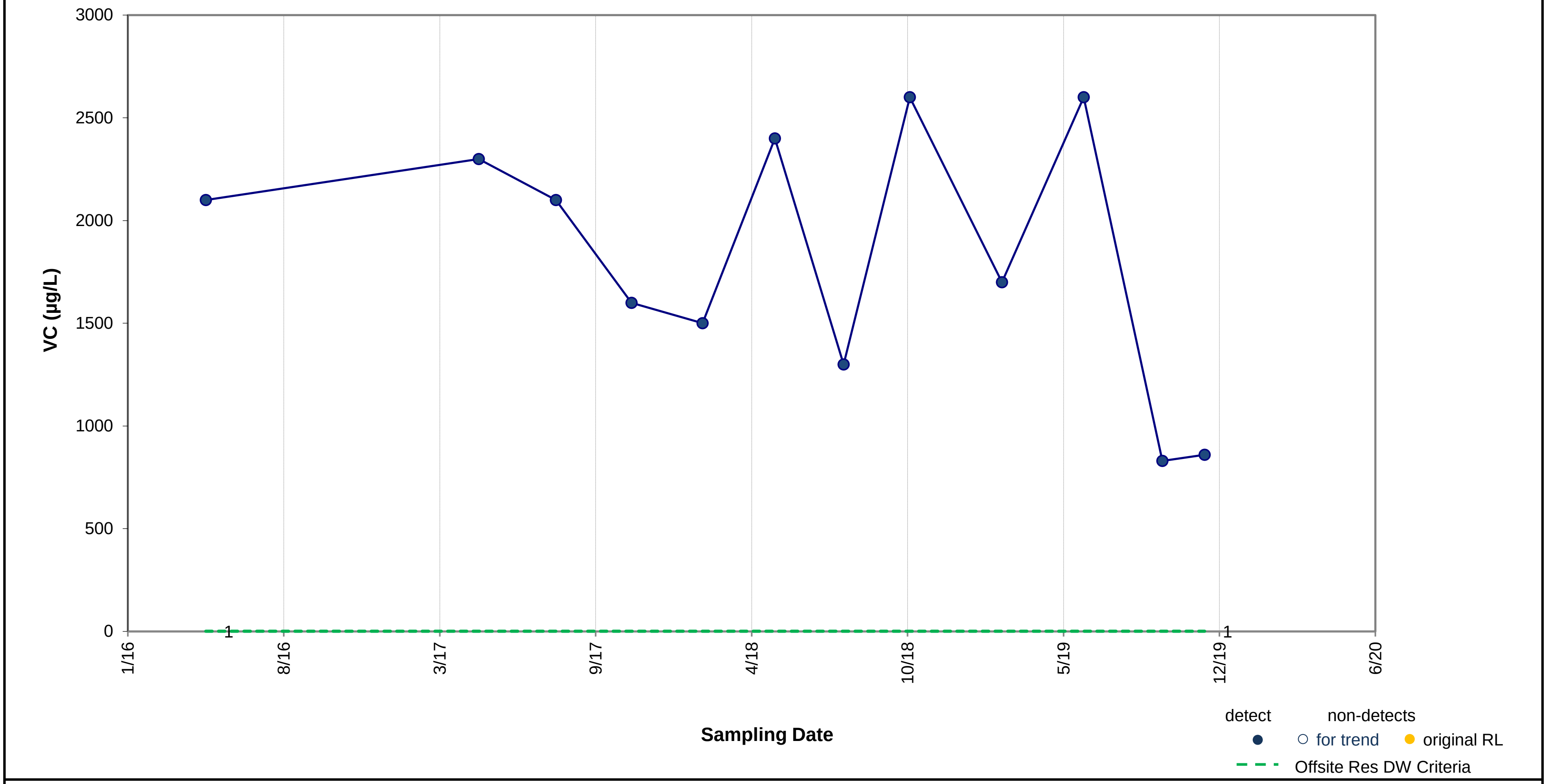
Concentration vs. Time Plot – DCE in MW-22

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 8



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.185 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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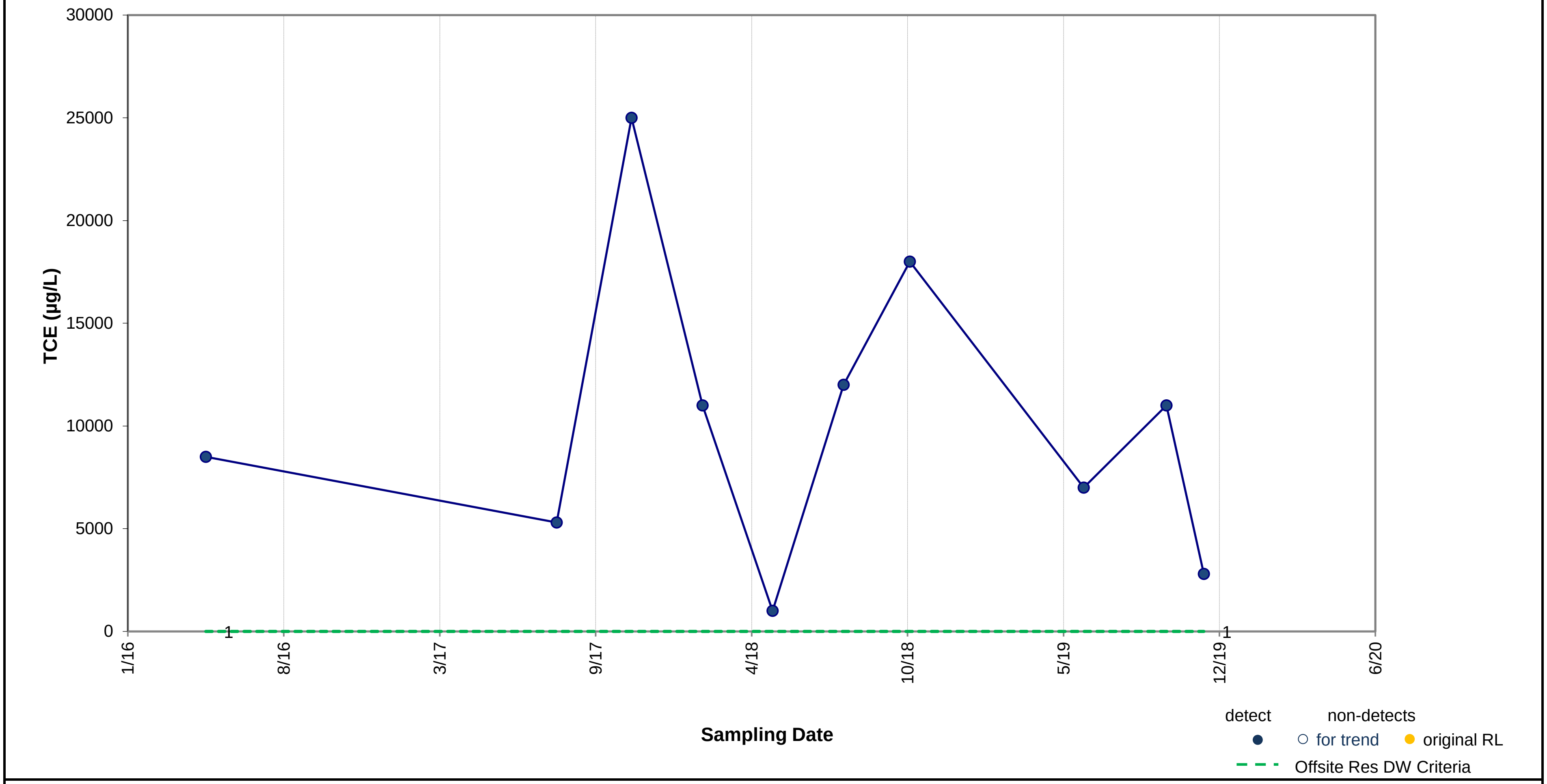
Concentration vs. Time Plot – VC in MW-22

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 9



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.398 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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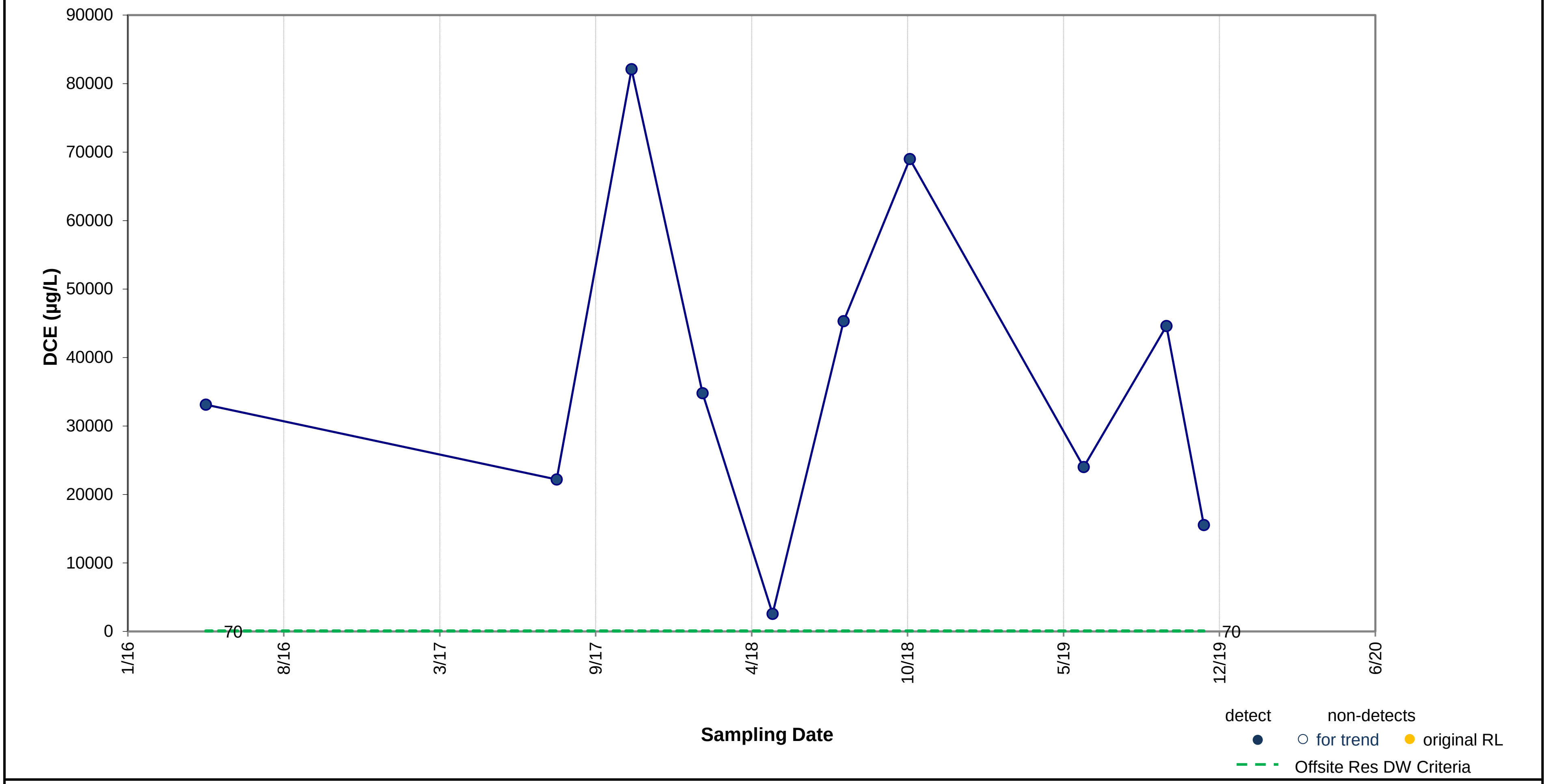
Concentration vs. Time Plot – TCE in MW-23

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 10



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.431 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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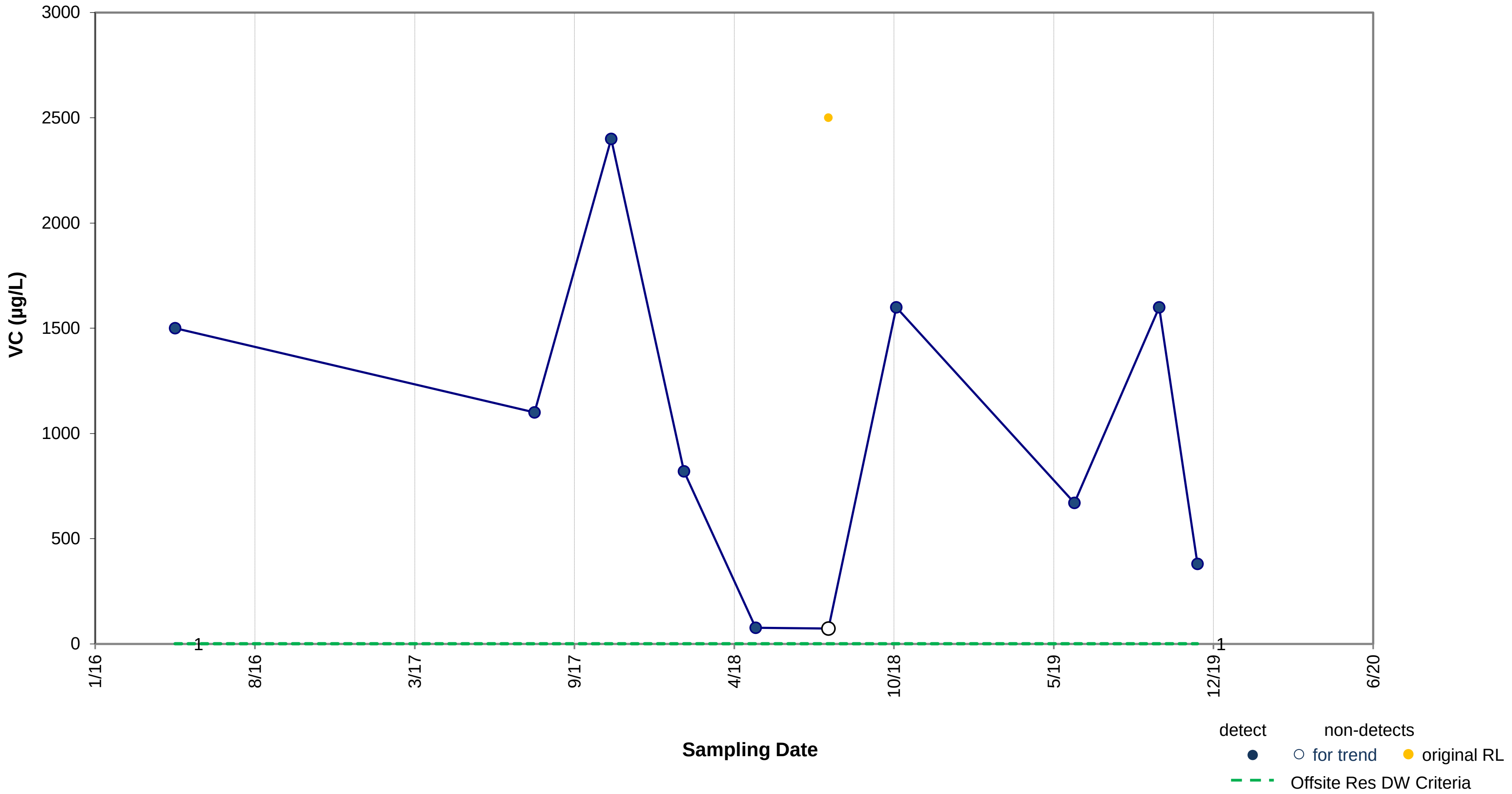
Concentration vs. Time Plot – DCE in MW-23

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 11



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.216 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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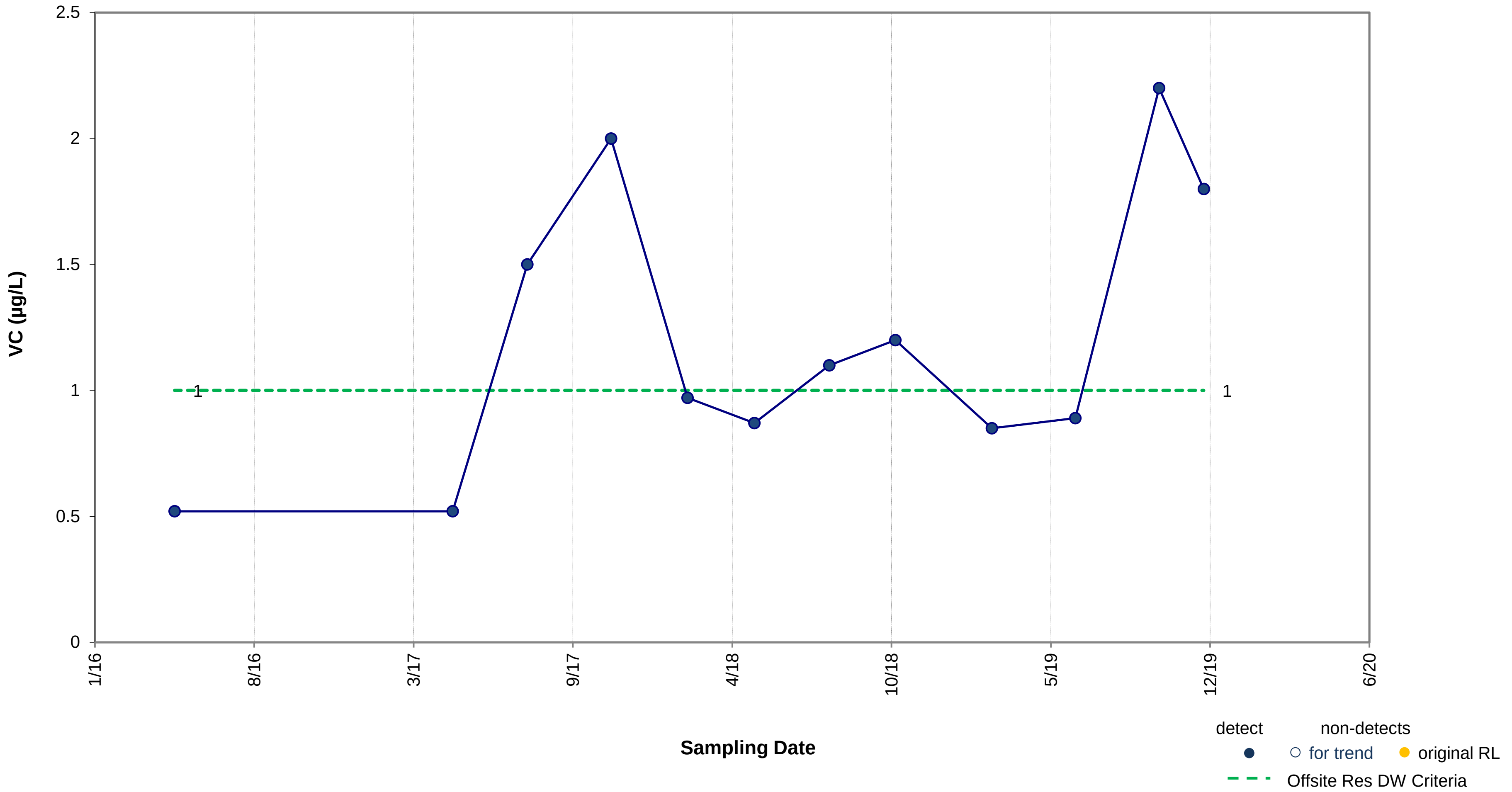
Concentration vs. Time Plot – VC in MW-23

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 12



Results of Mann-Kendall Test for Trend: **INCREASING TREND**

p value = 0.085 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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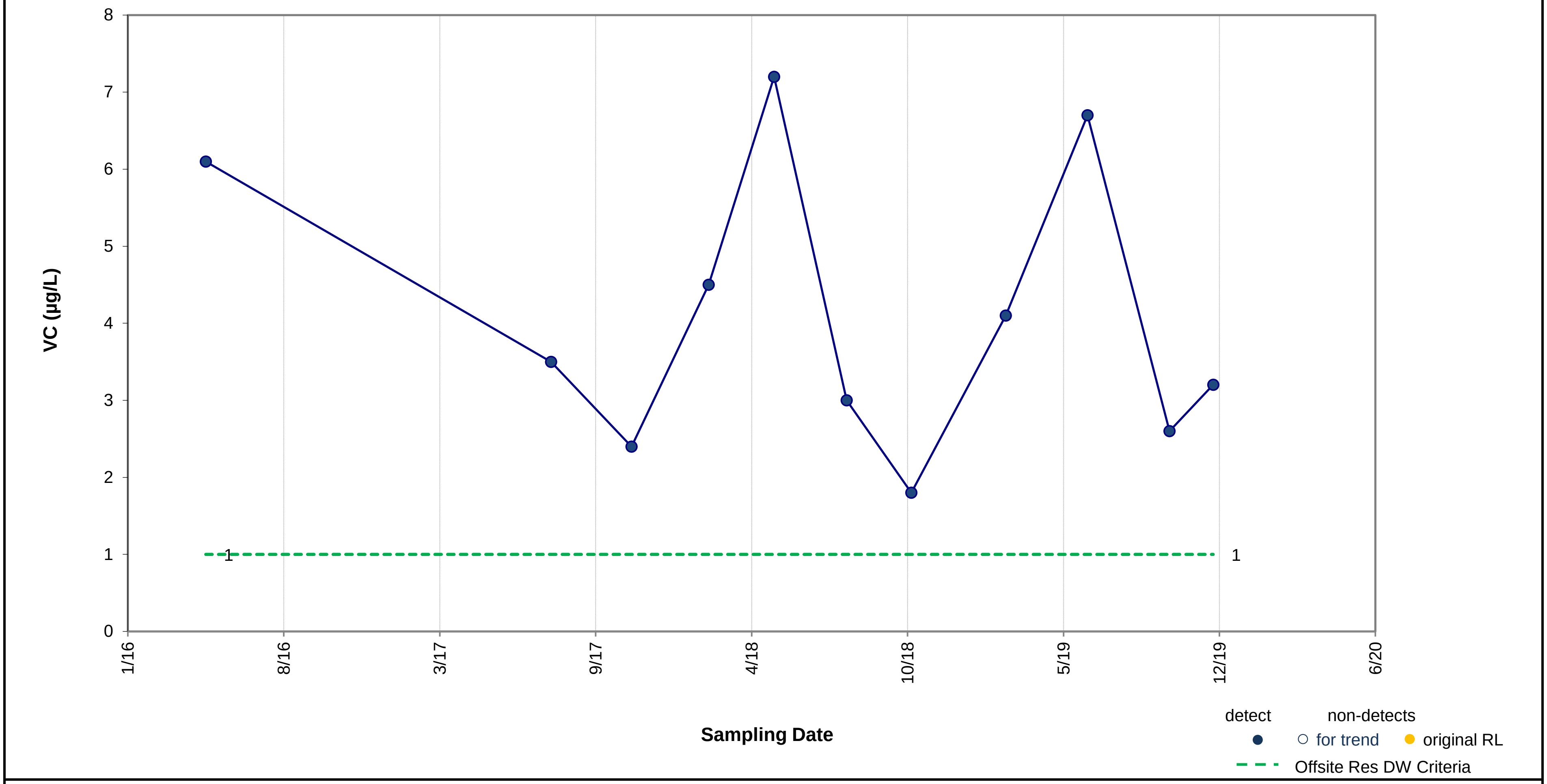
Concentration vs. Time Plot – VC in MW-34

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 13



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.320 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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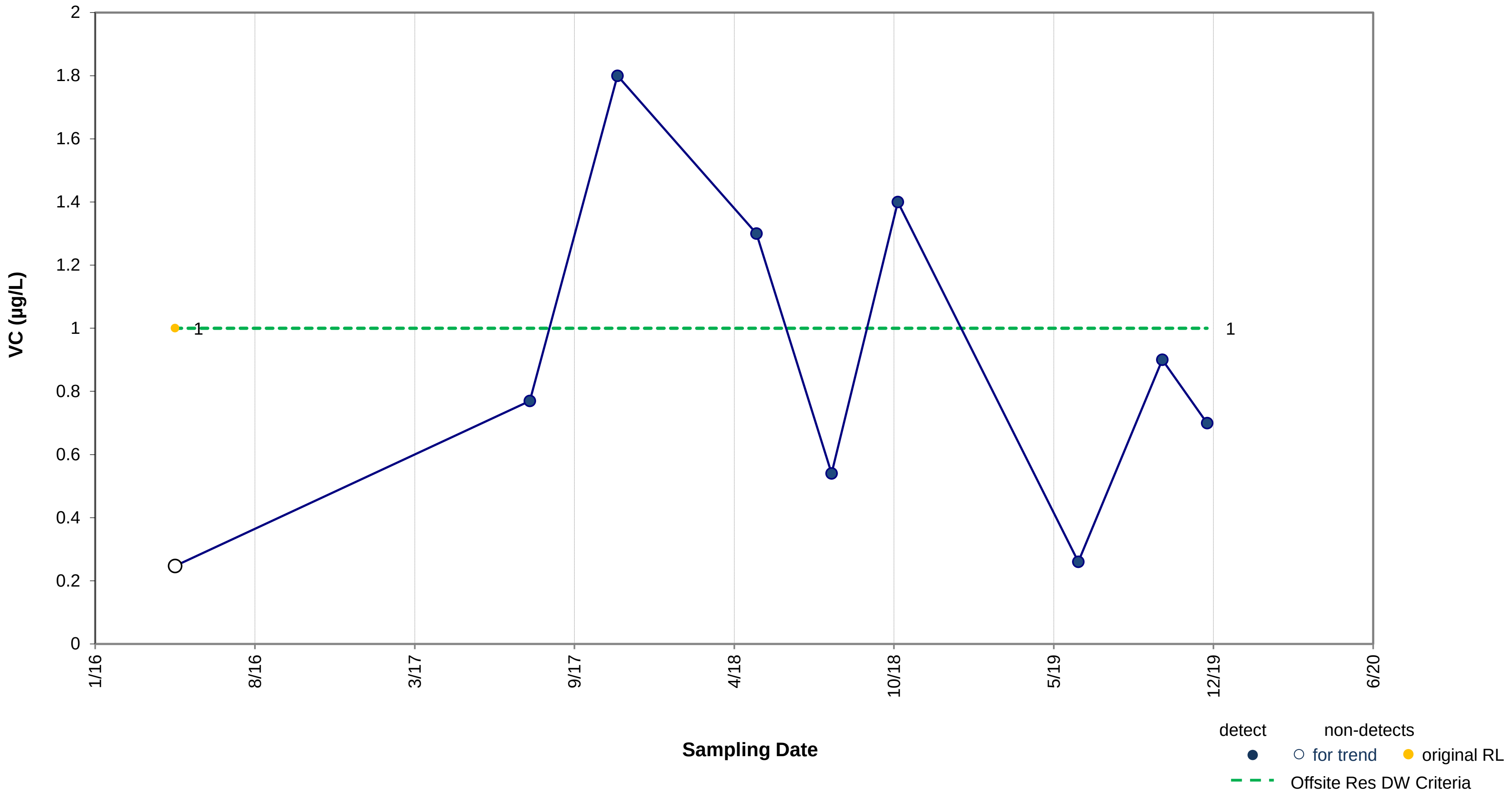
Concentration vs. Time Plot – VC in MW-35

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 14



Results of Mann-Kendall Test for Trend: **No Significant Trend**

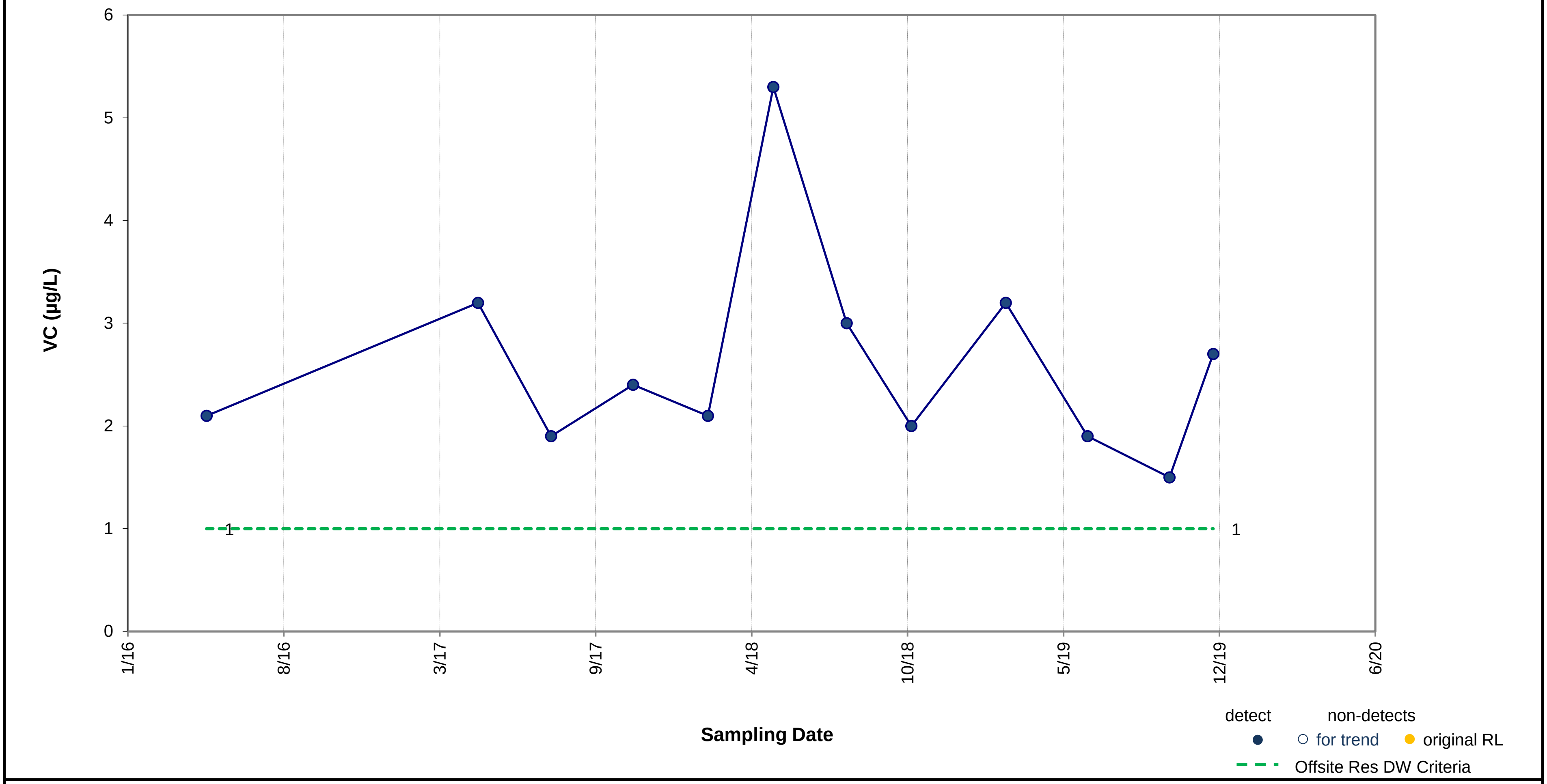
p value = 0.540 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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 = 0.290

Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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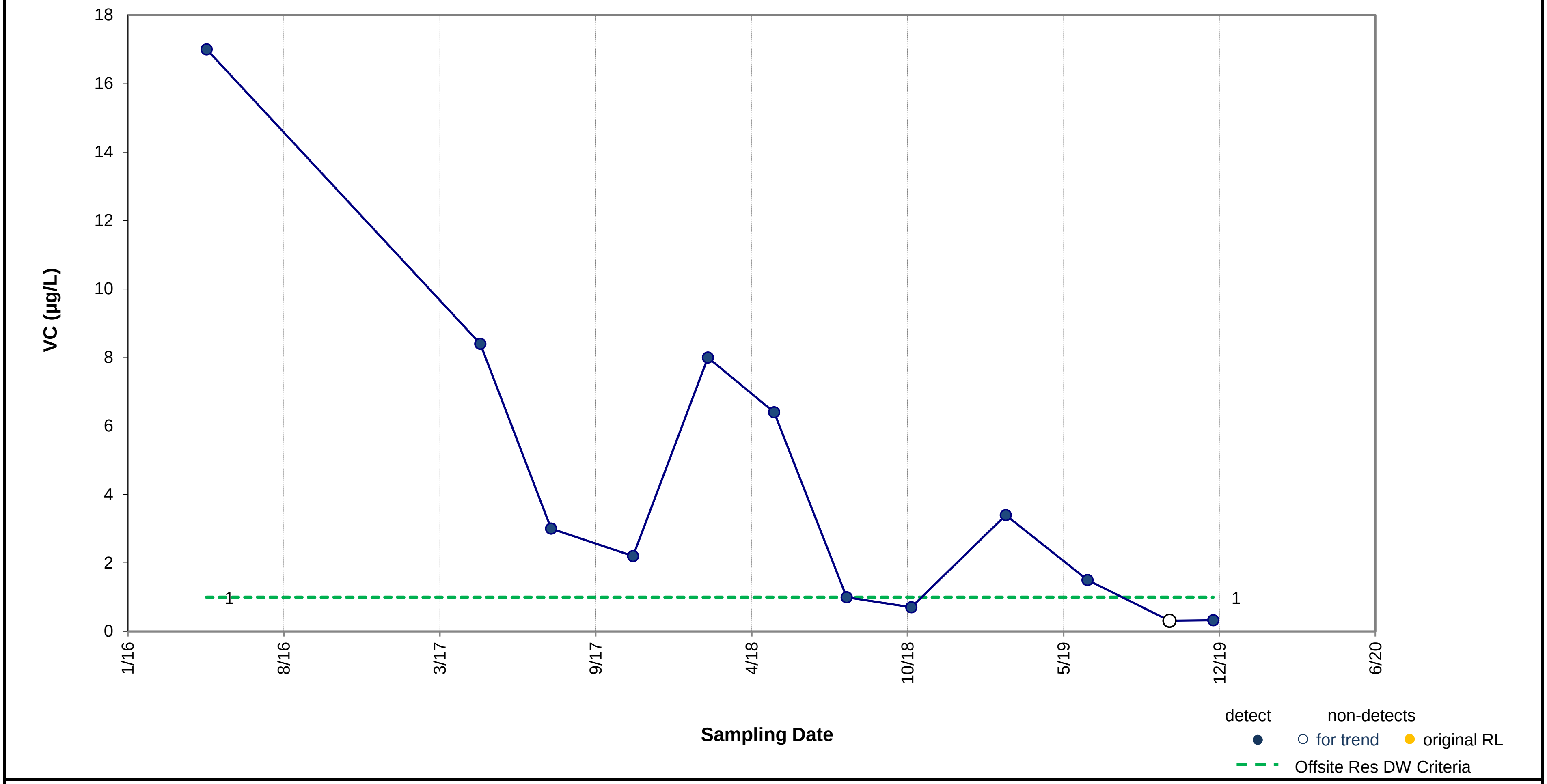
Concentration vs. Time Plot – VC in MW-41

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 16



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

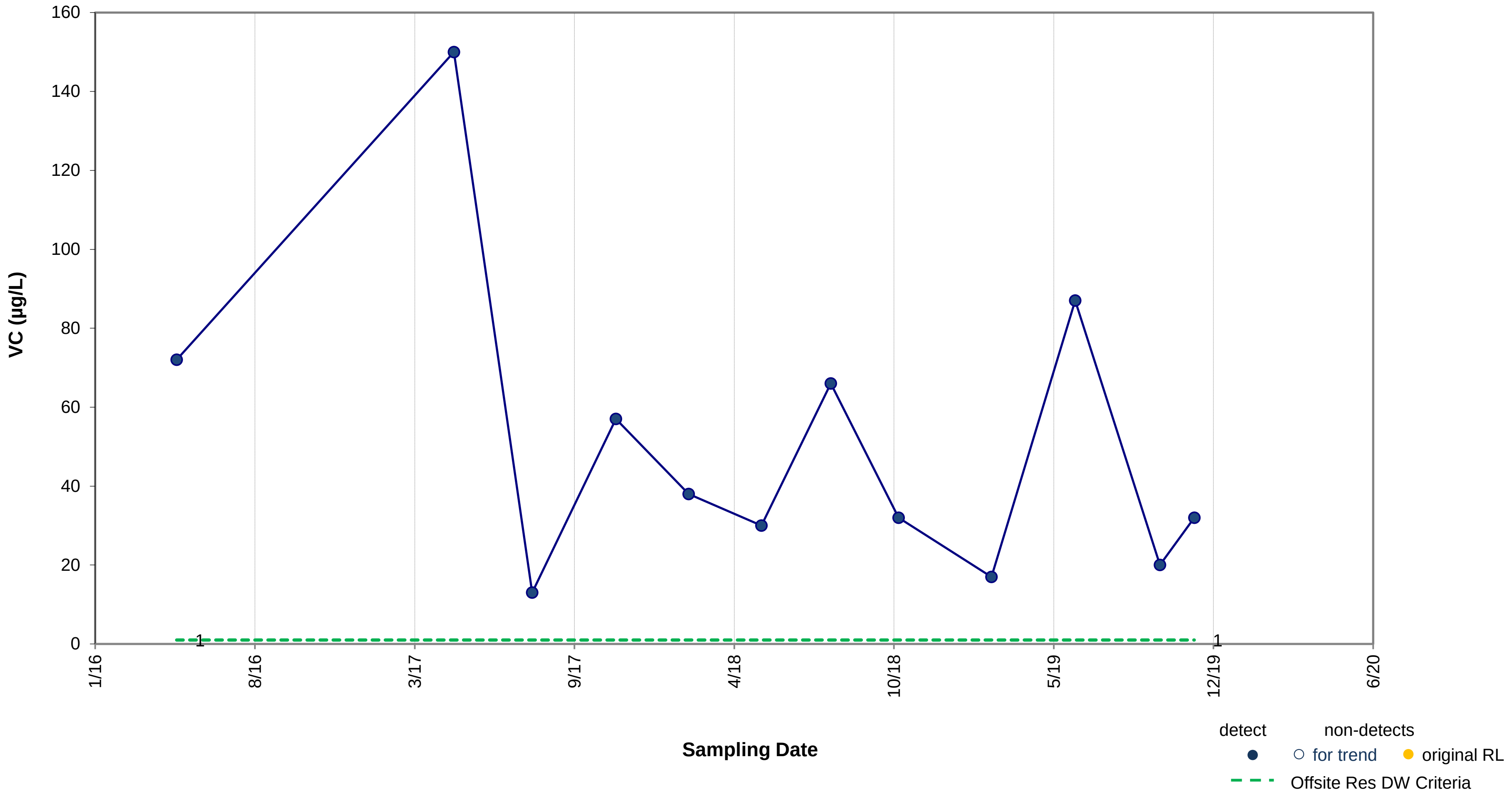
p value = 0.002 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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: **No Significant Trend**

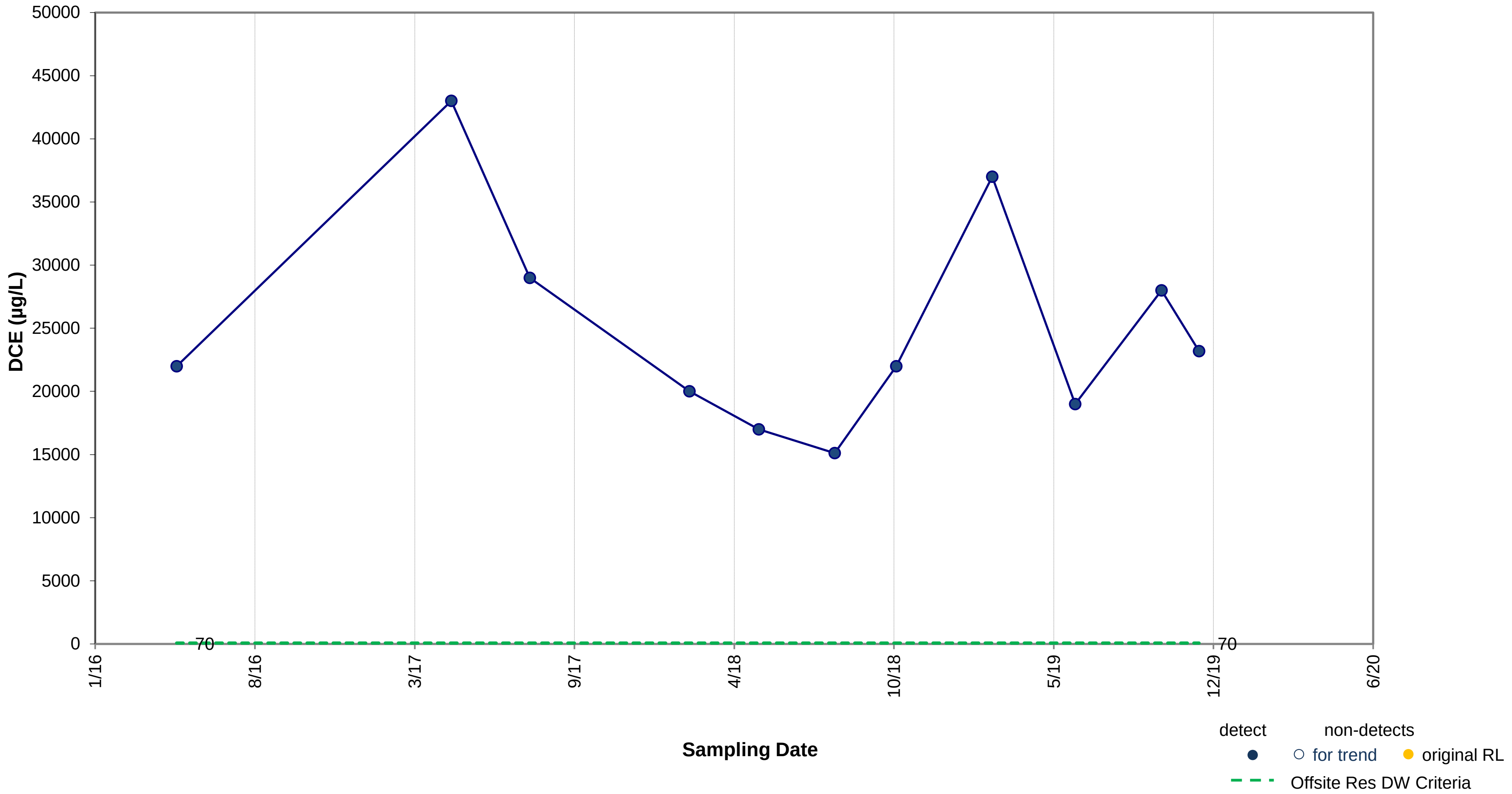
p value = 0.168

Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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 = 0.407 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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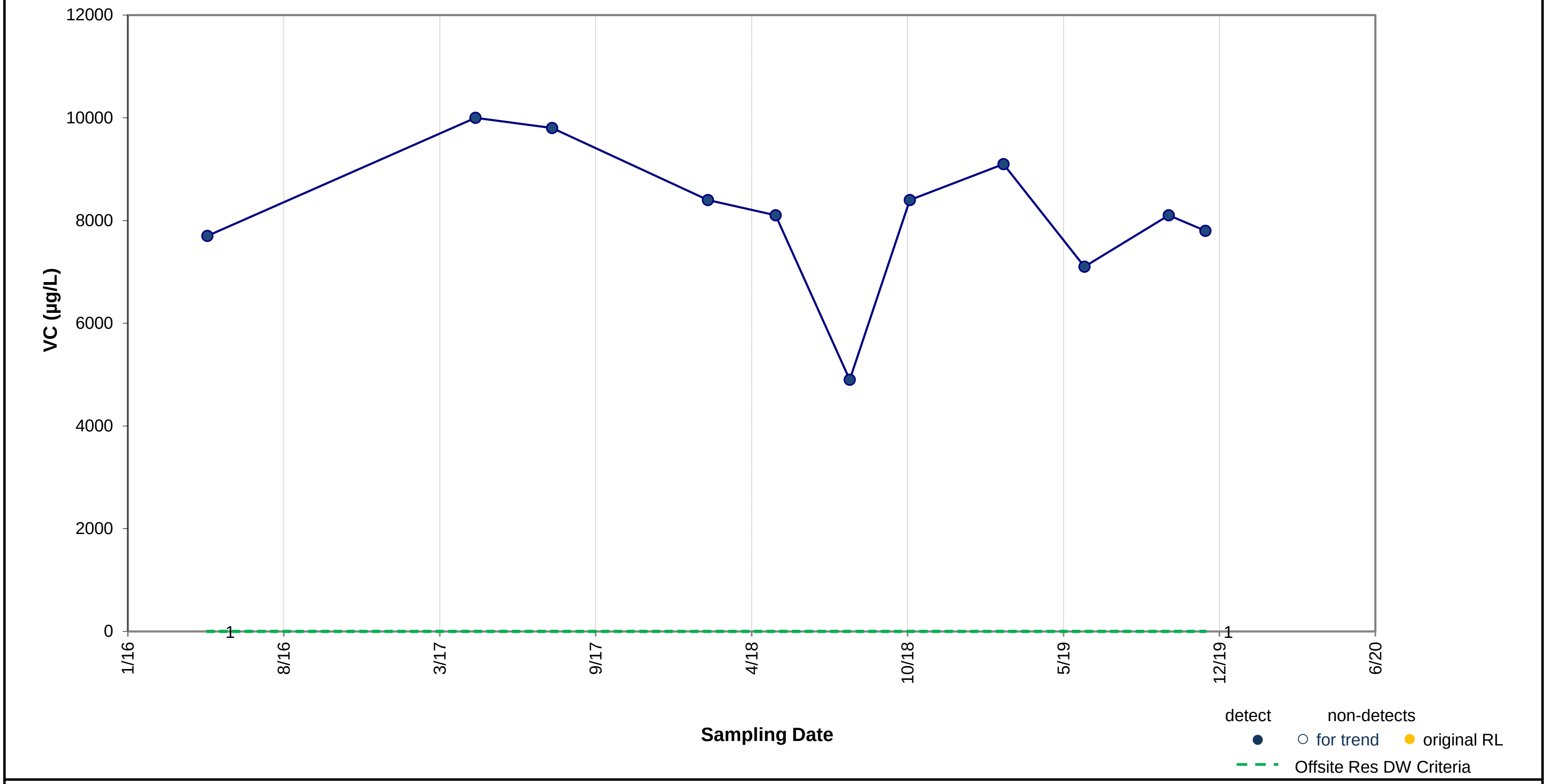
Concentration vs. Time Plot – DCE in MW-49

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 19



Results of Mann-Kendall Test for Trend: **No Significant Trend**

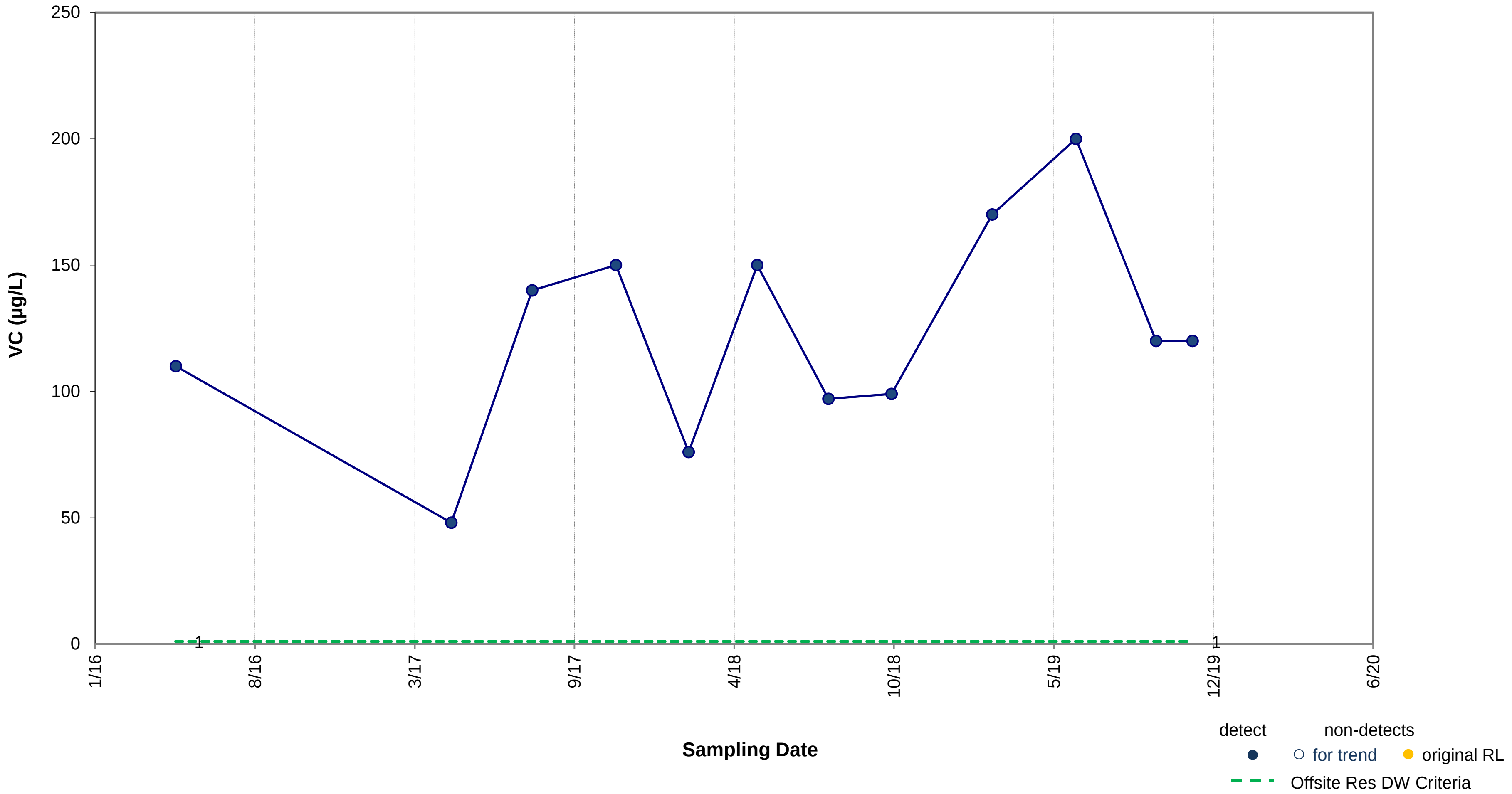
p value = 0.136 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-49

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 20



Results of Mann-Kendall Test for Trend: **INCREASING TREND**

p value = 0.095

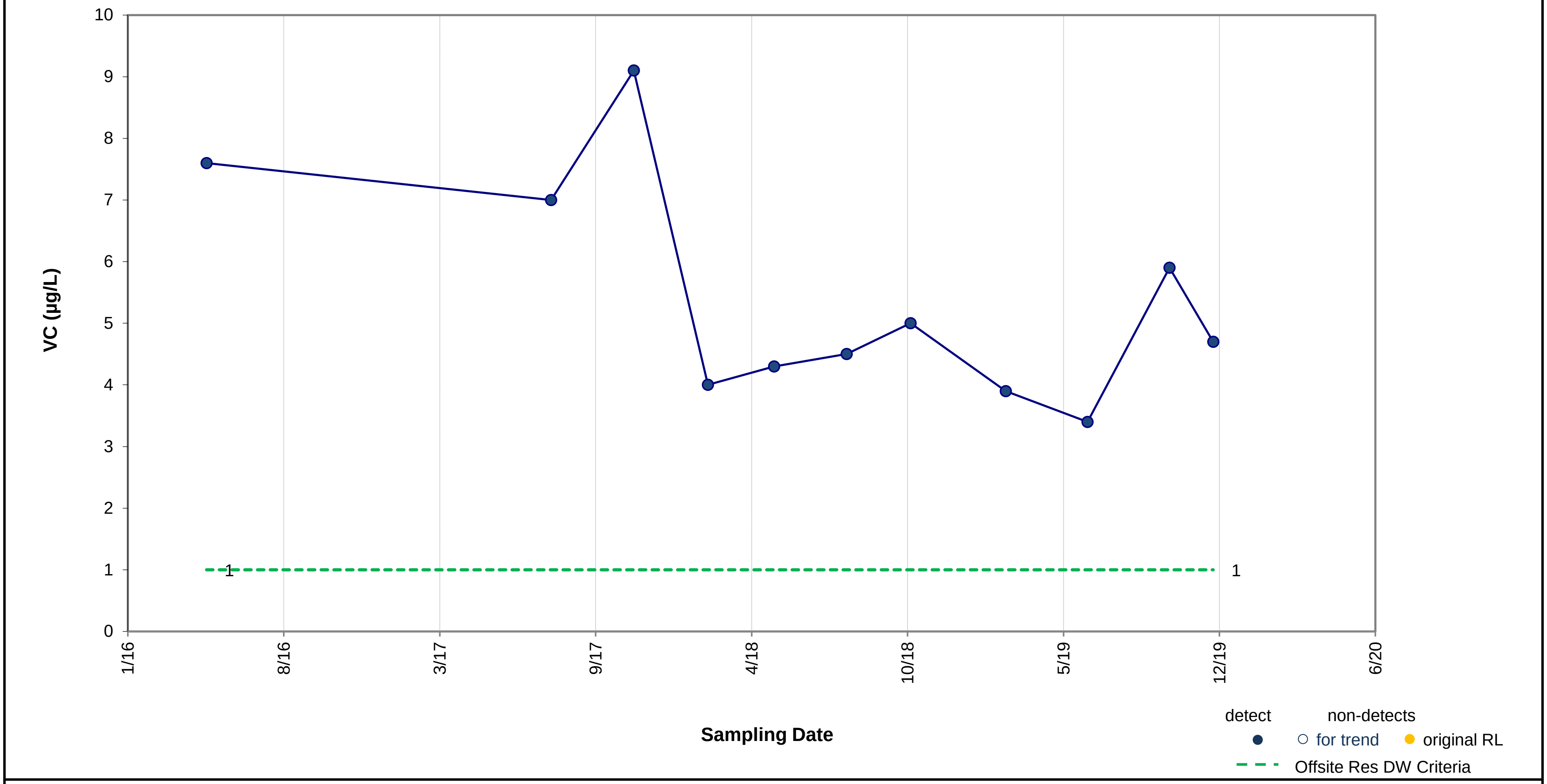
Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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: **No Significant Trend**

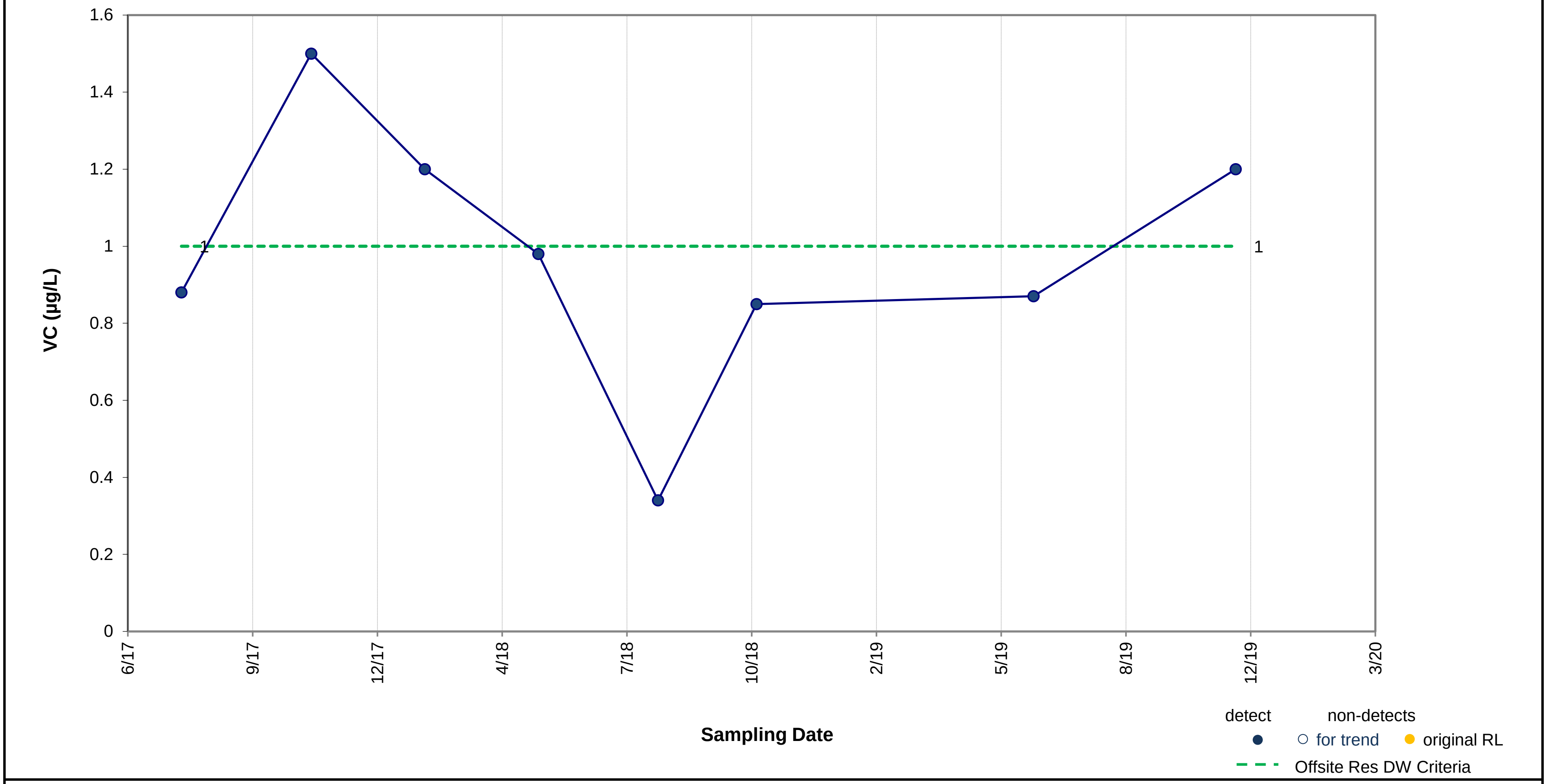
p value = 0.106 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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**

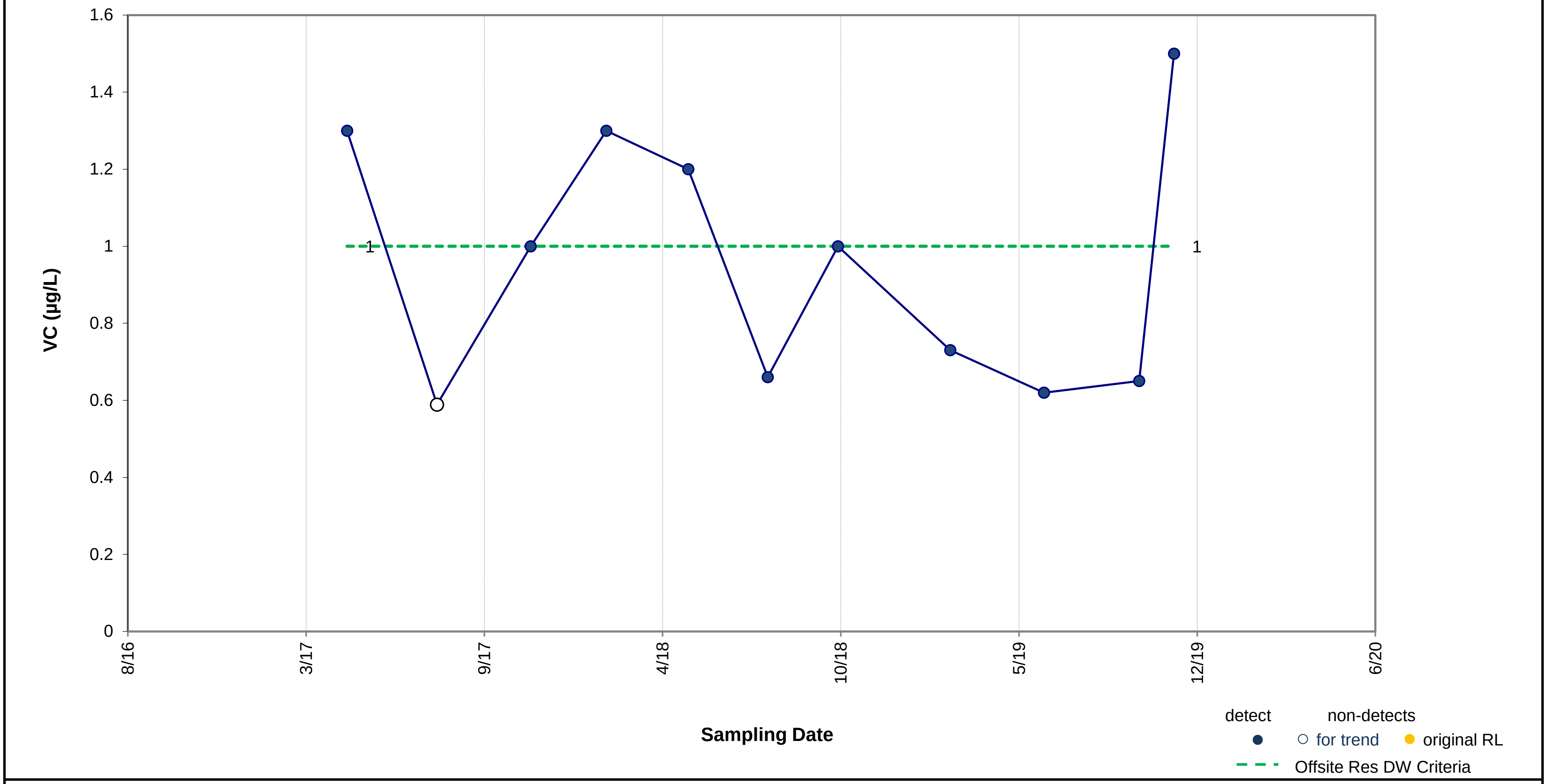
p value = 0.317 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-54

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 23



Results of Mann-Kendall Test for Trend: **No Significant Trend**

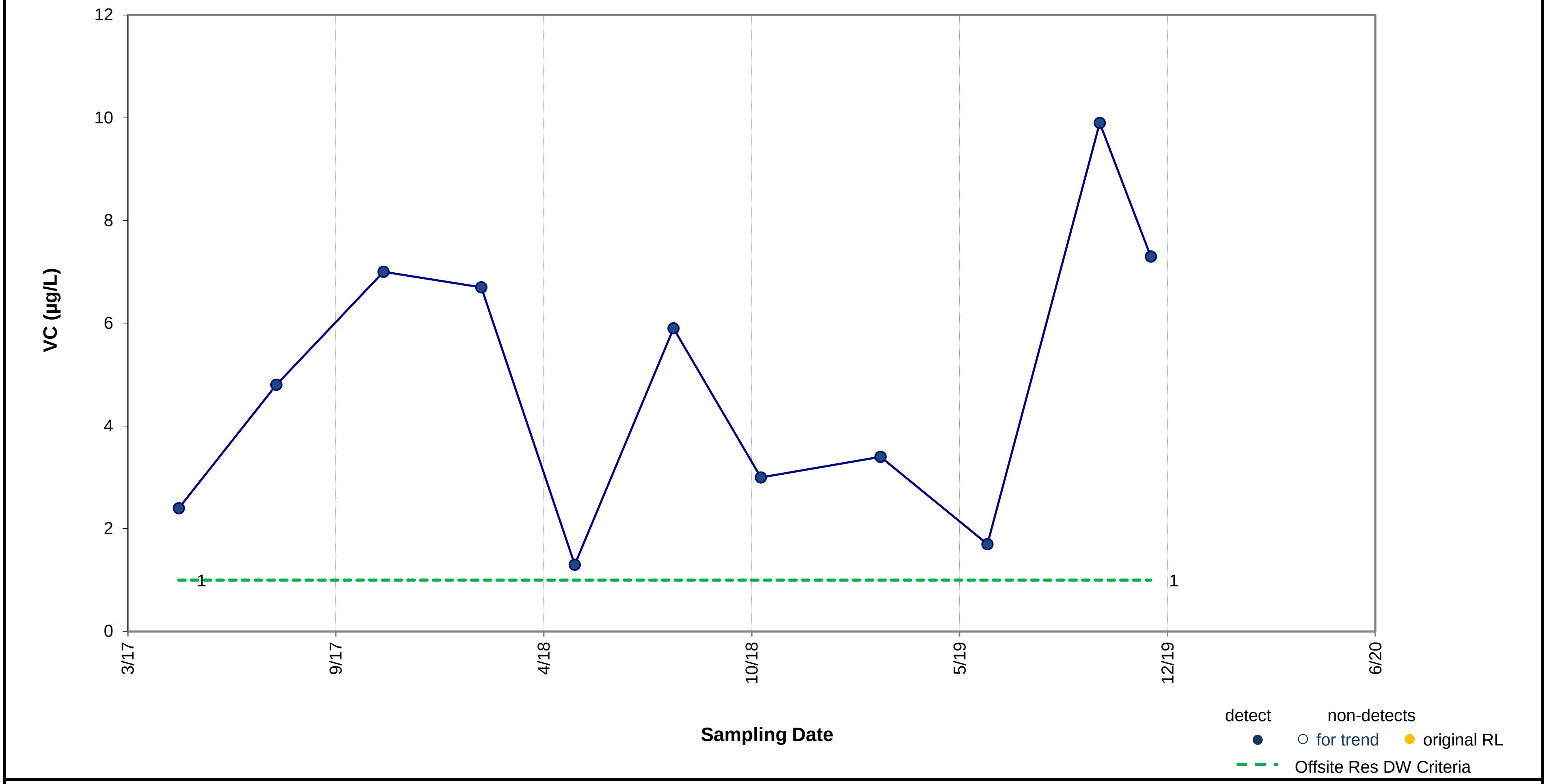
p value = 0.319 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS Design & Consultancy for natural and built assets

Concentration vs. Time Plot – VC in MW-62

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 24



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.267 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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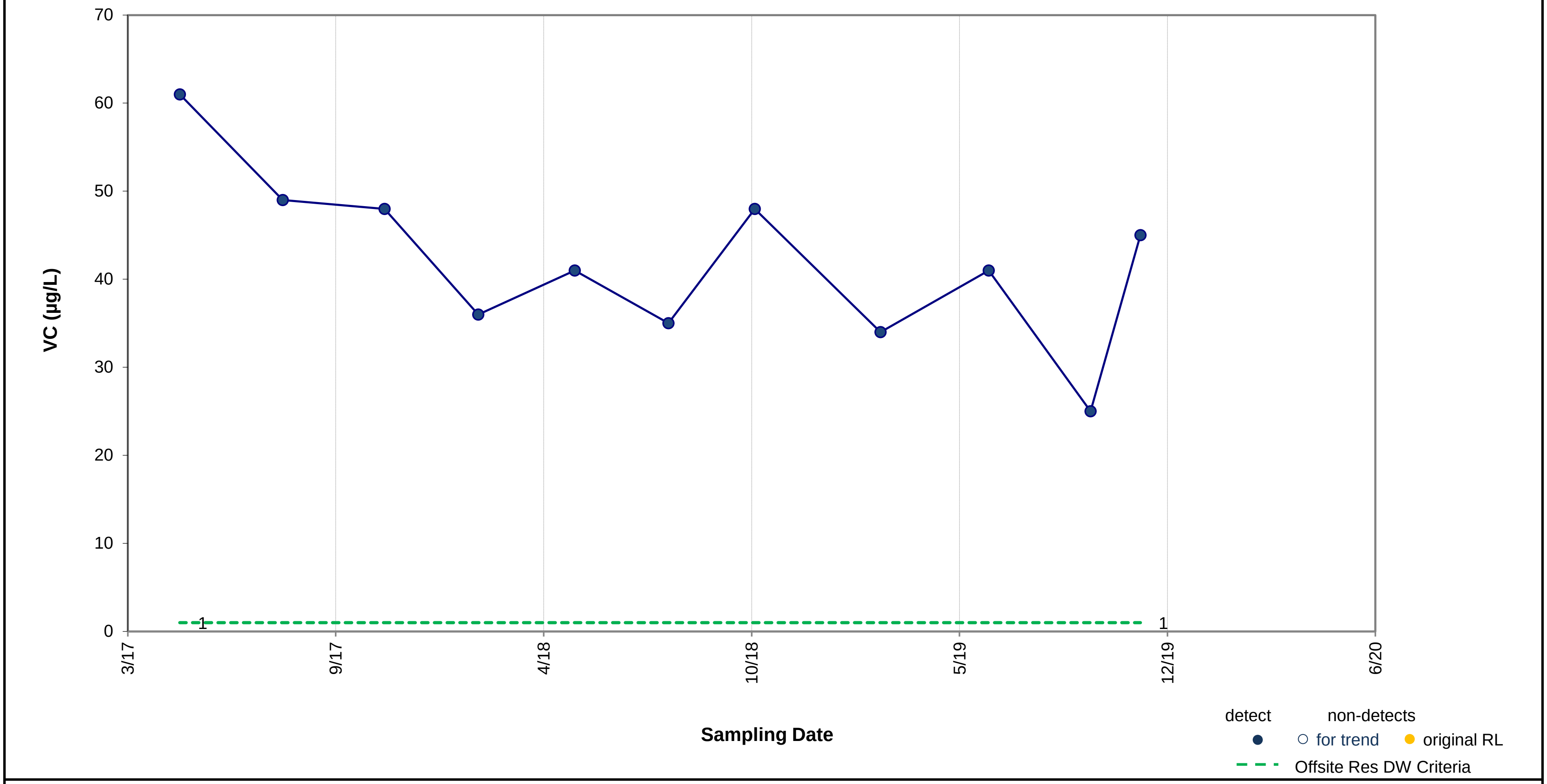
Concentration vs. Time Plot – VC in MW-64

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 25



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.021 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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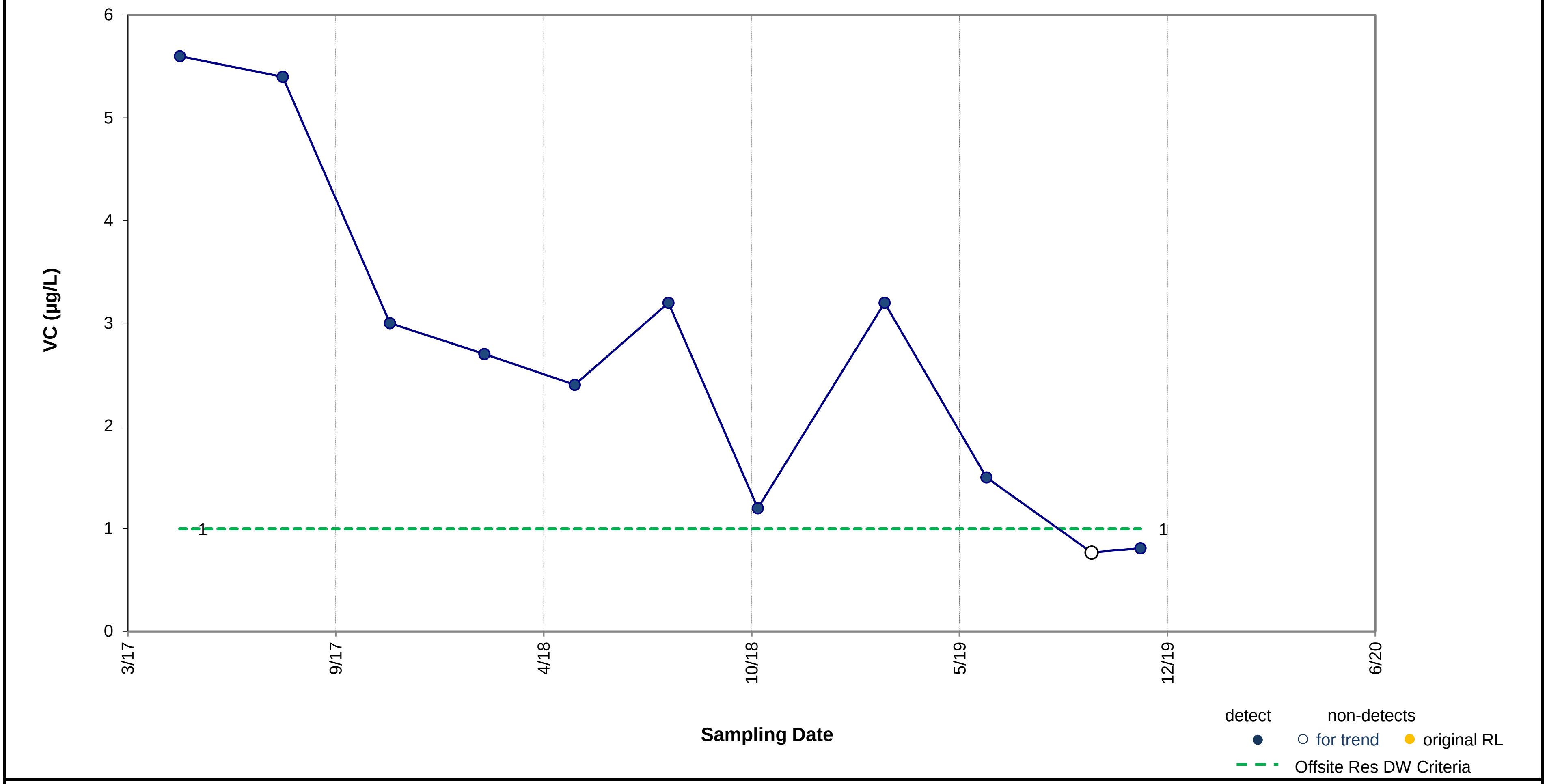
Concentration vs. Time Plot – VC in MW-65

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 26



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.003 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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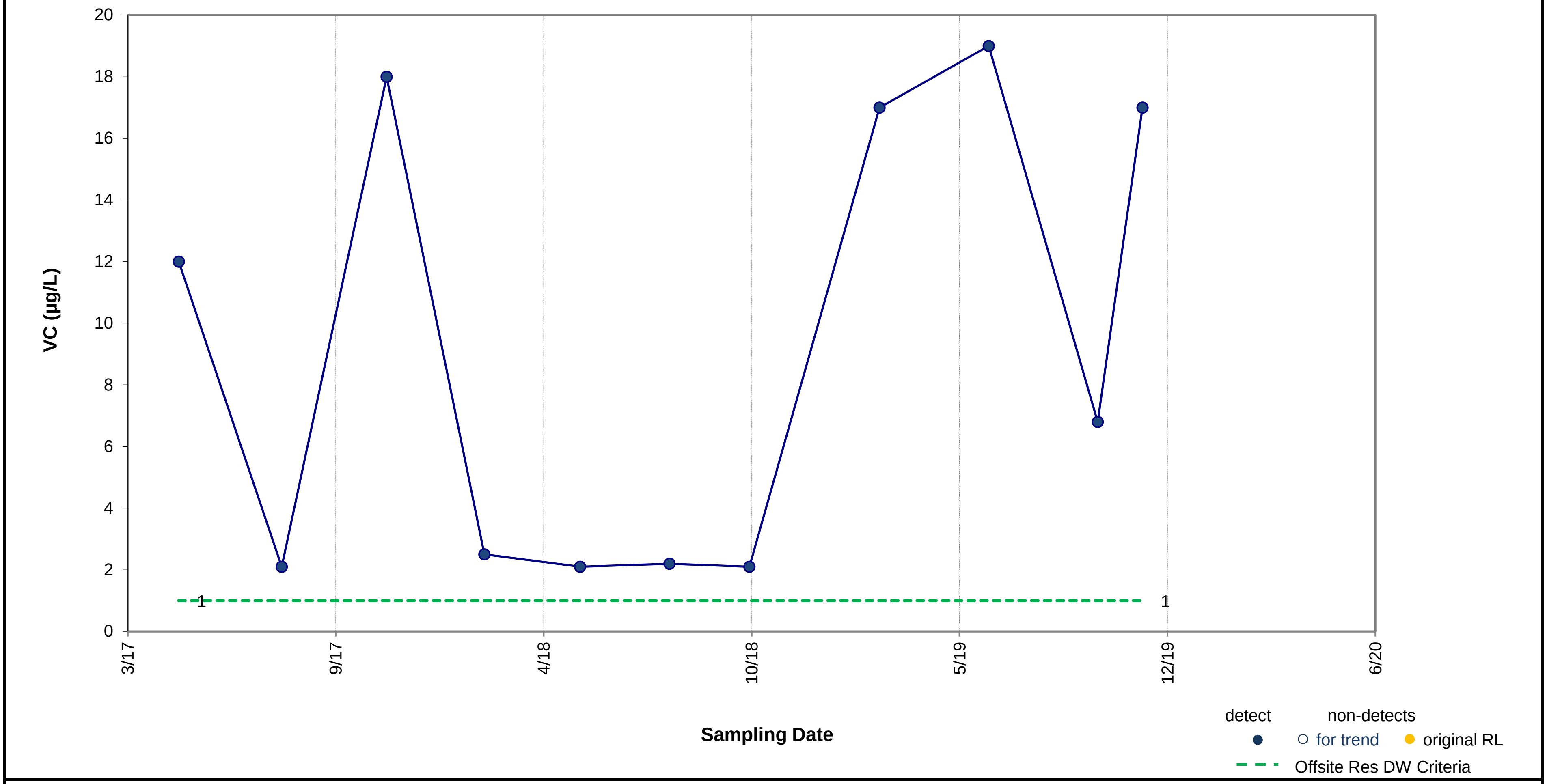
Concentration vs. Time Plot – VC in MW-66

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 27



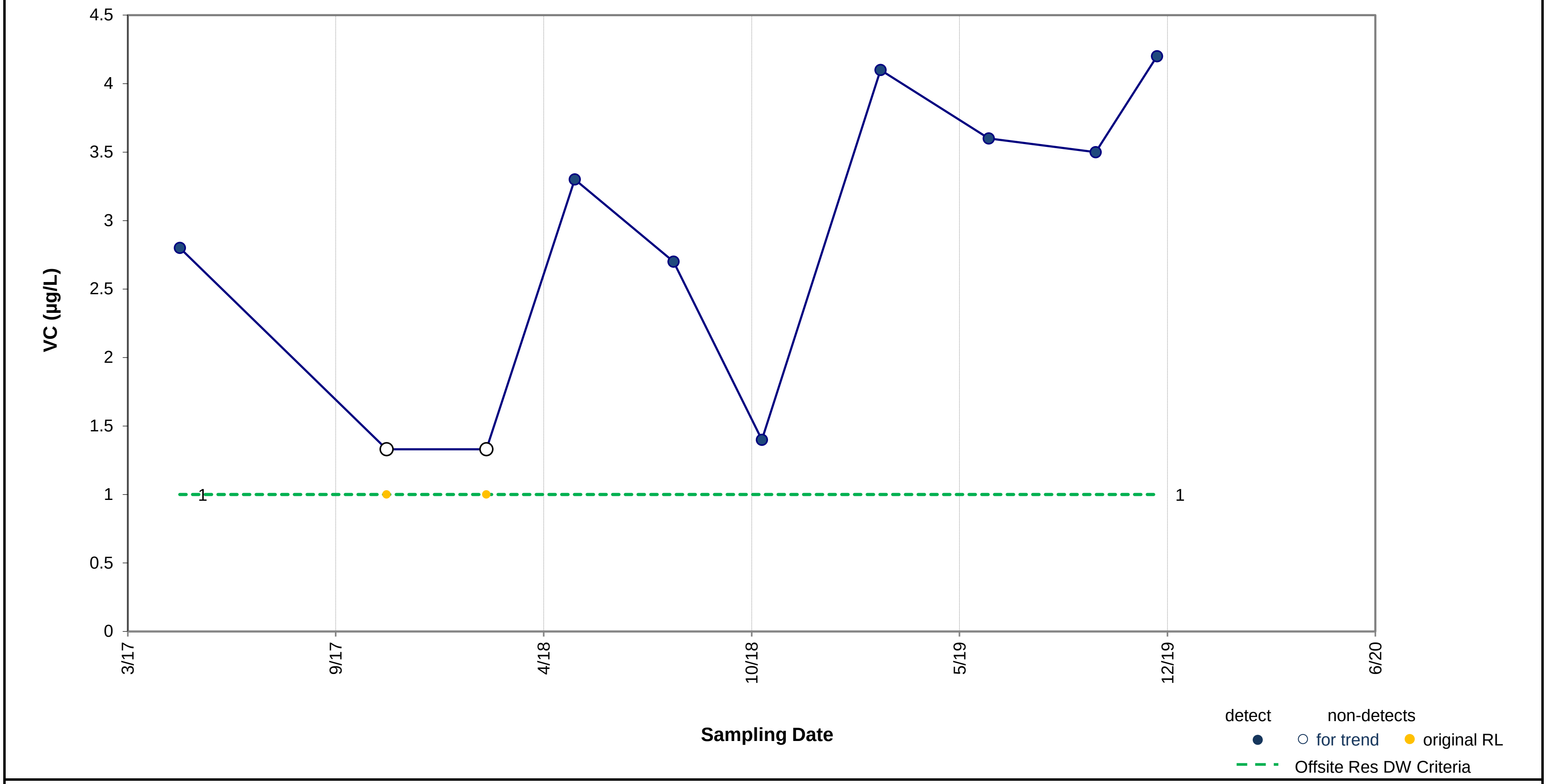
Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.215 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

Concentration vs. Time Plot – VC in MW-68

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 28



Results of Mann-Kendall Test for Trend: **INCREASING TREND**

p value = 0.019 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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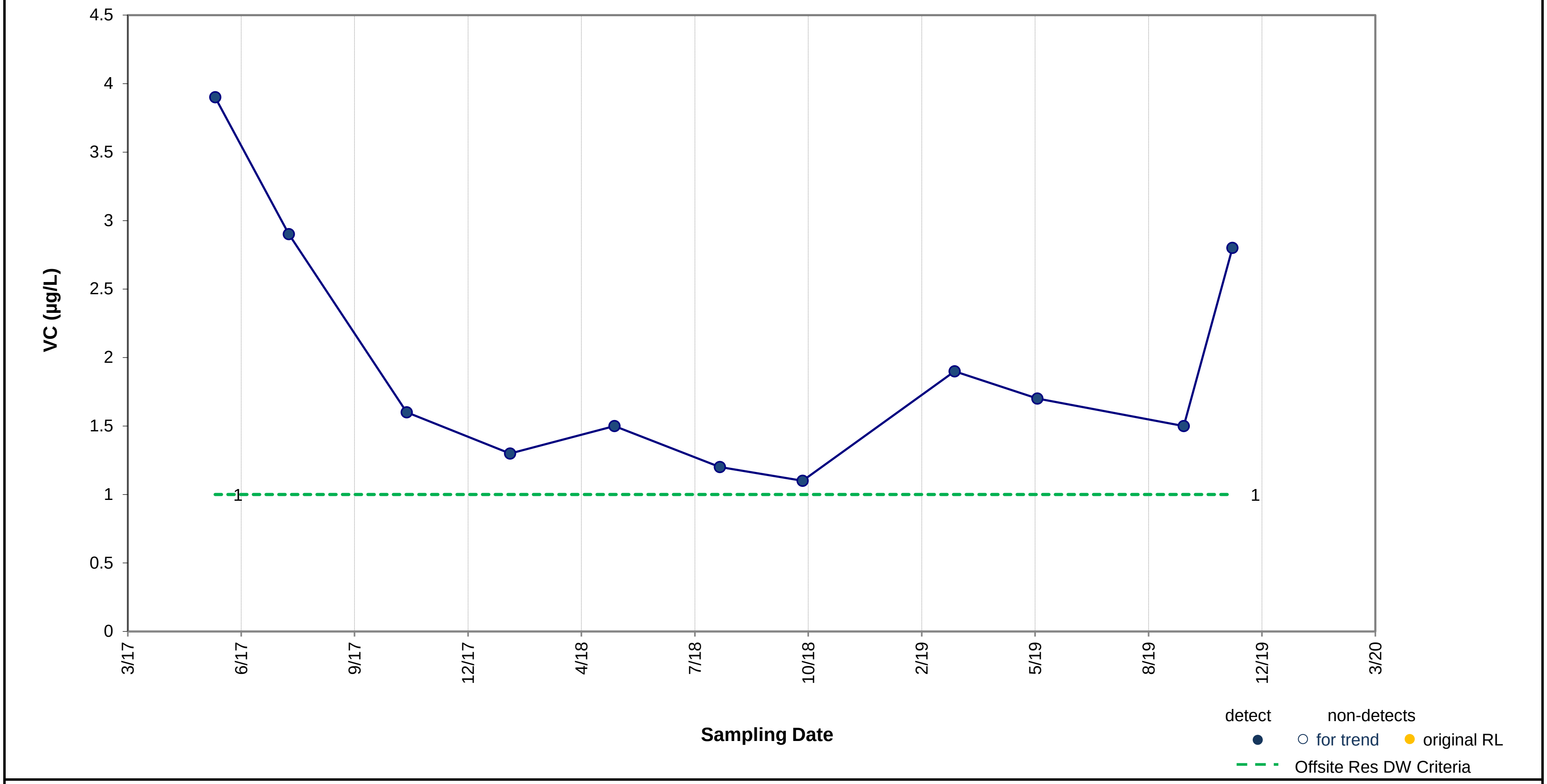
Concentration vs. Time Plot – VC in MW-69

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 29



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.241 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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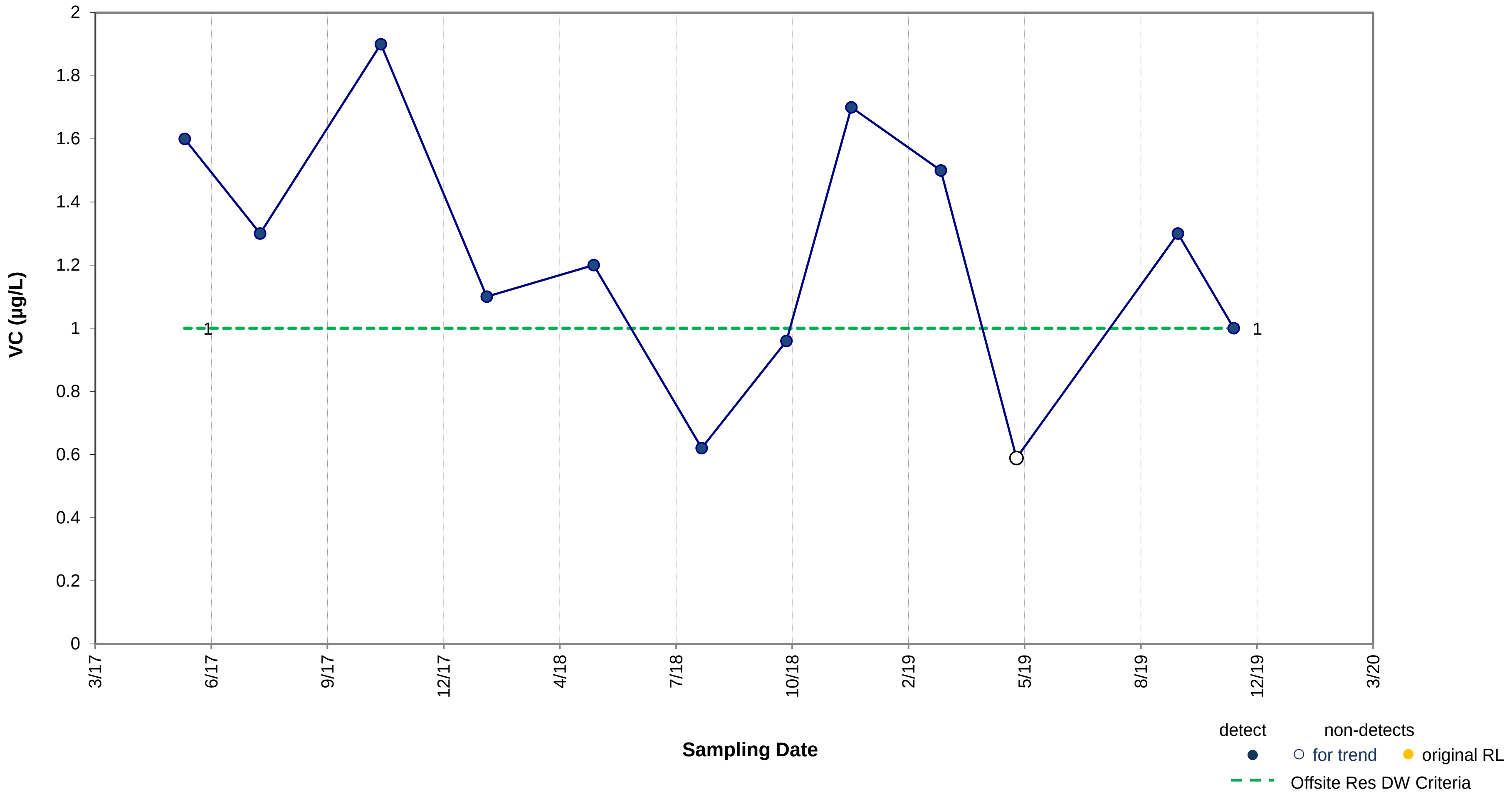
Concentration vs. Time Plot – VC in MW-72

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 30



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.108 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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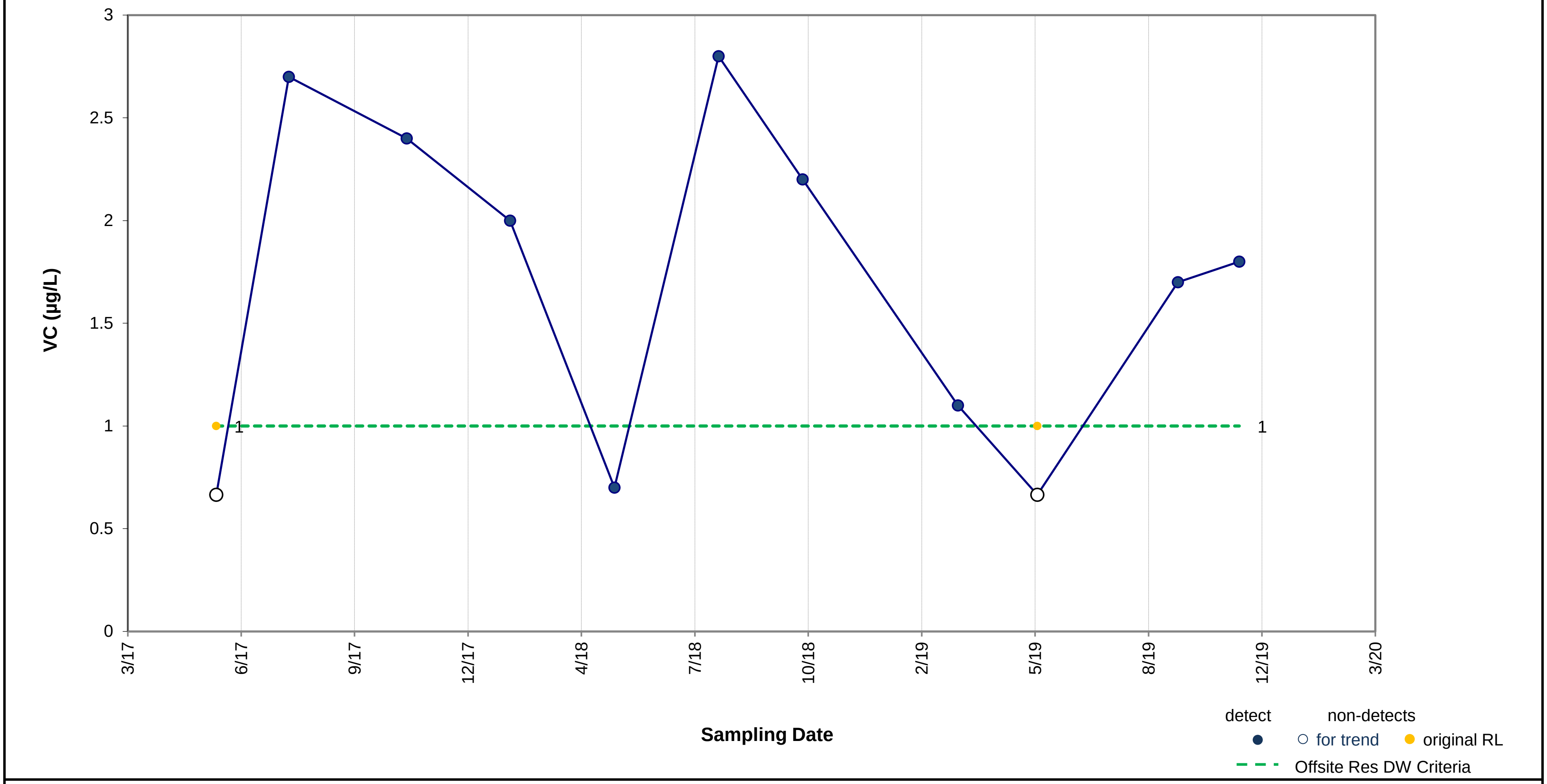
Concentration vs. Time Plot – VC in MW-73S

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 31



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.292 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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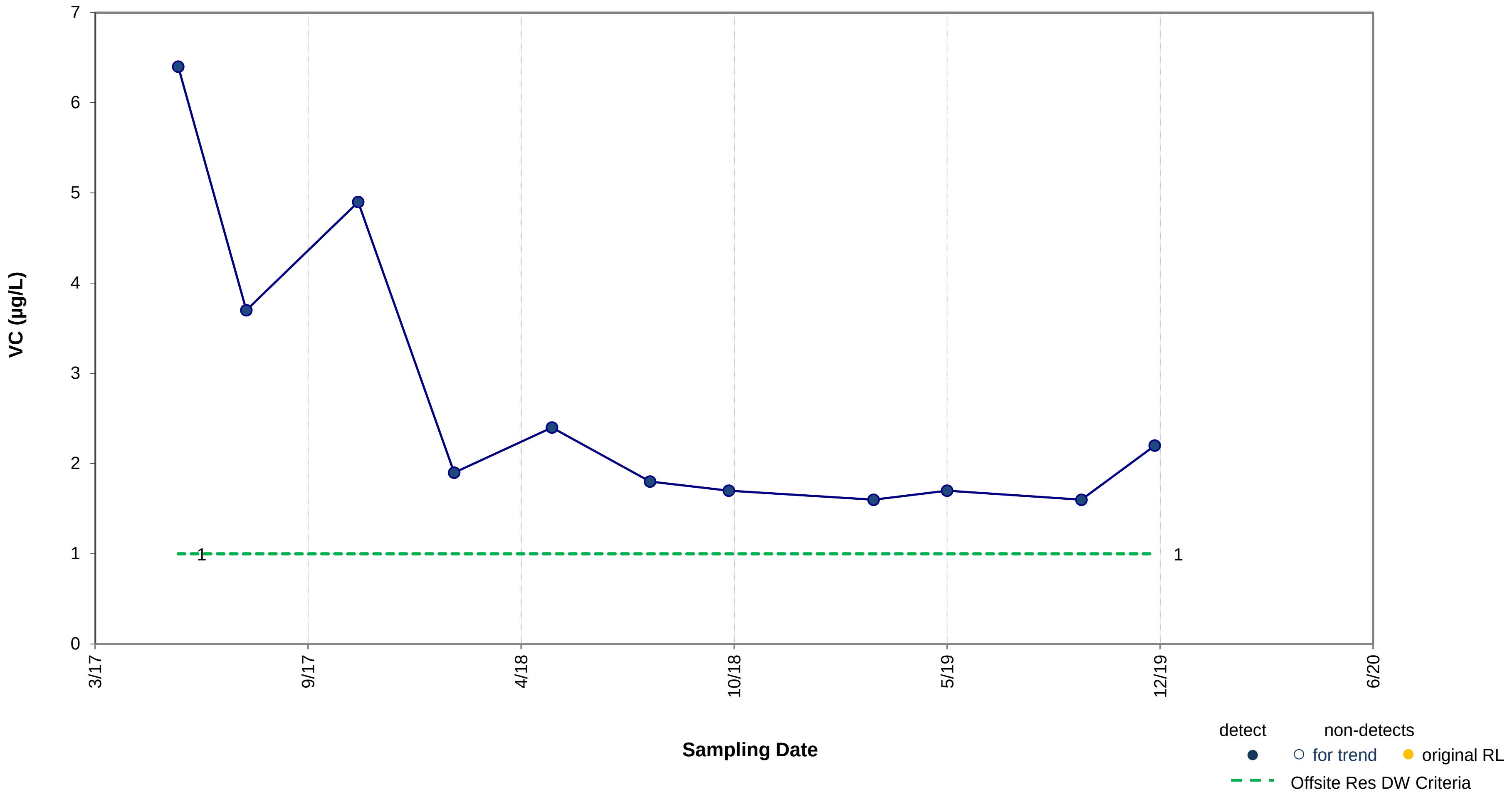
Concentration vs. Time Plot – VC in MW-74

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 32



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.004 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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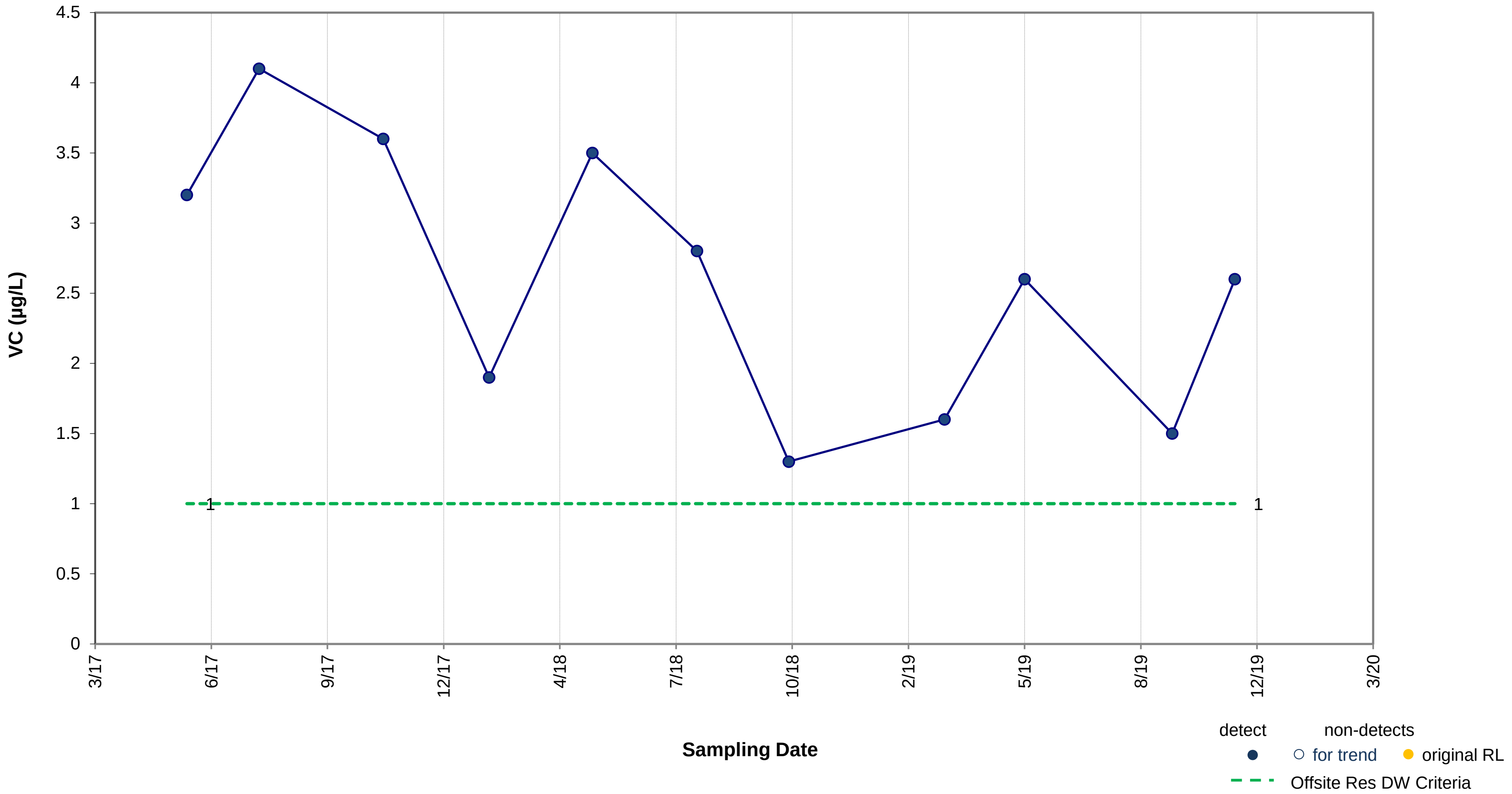
Concentration vs. Time Plot – VC in MW-75D

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 33



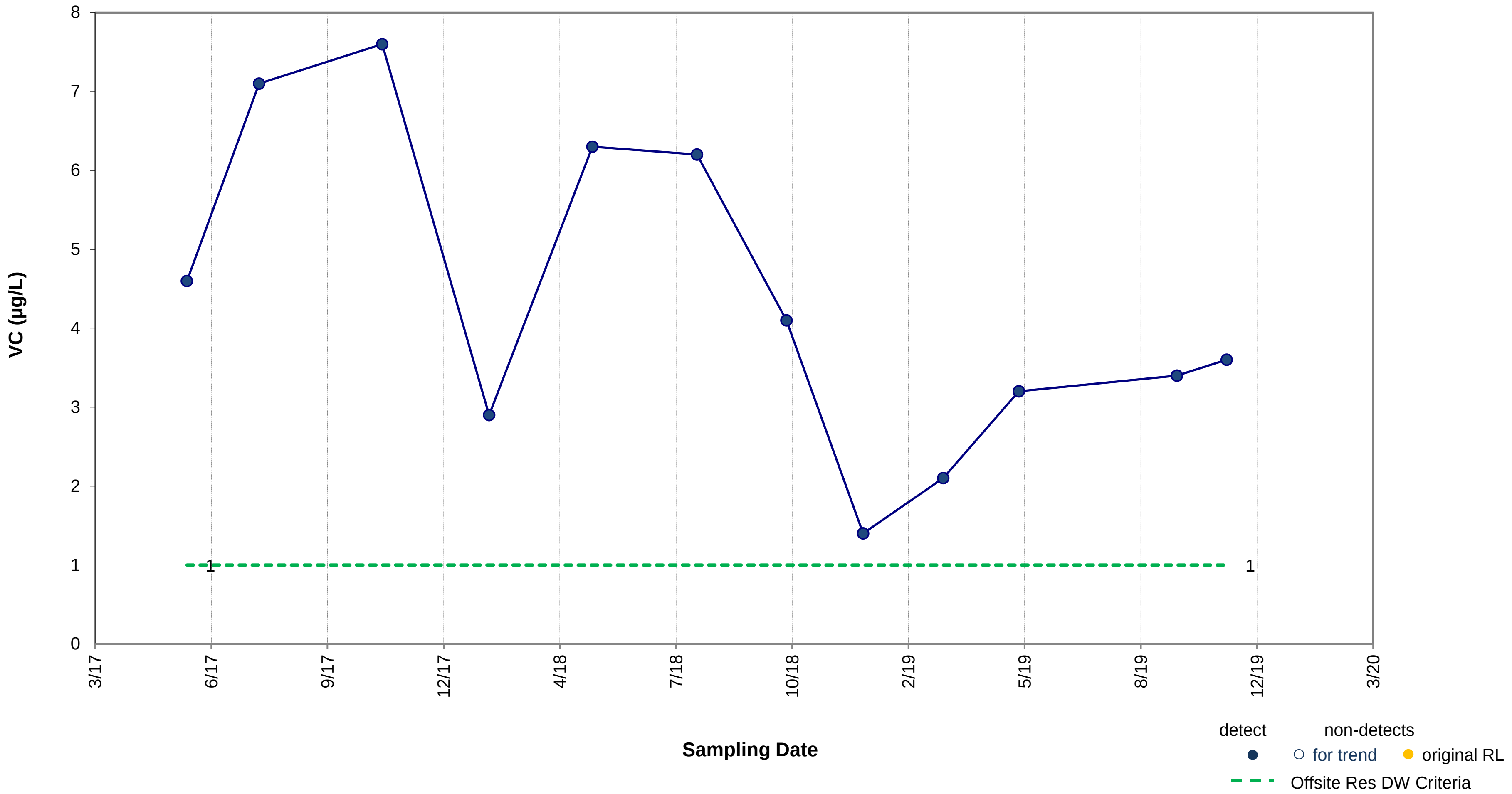
Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.025 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

Concentration vs. Time Plot – VC in MW-79D

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 34



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.057 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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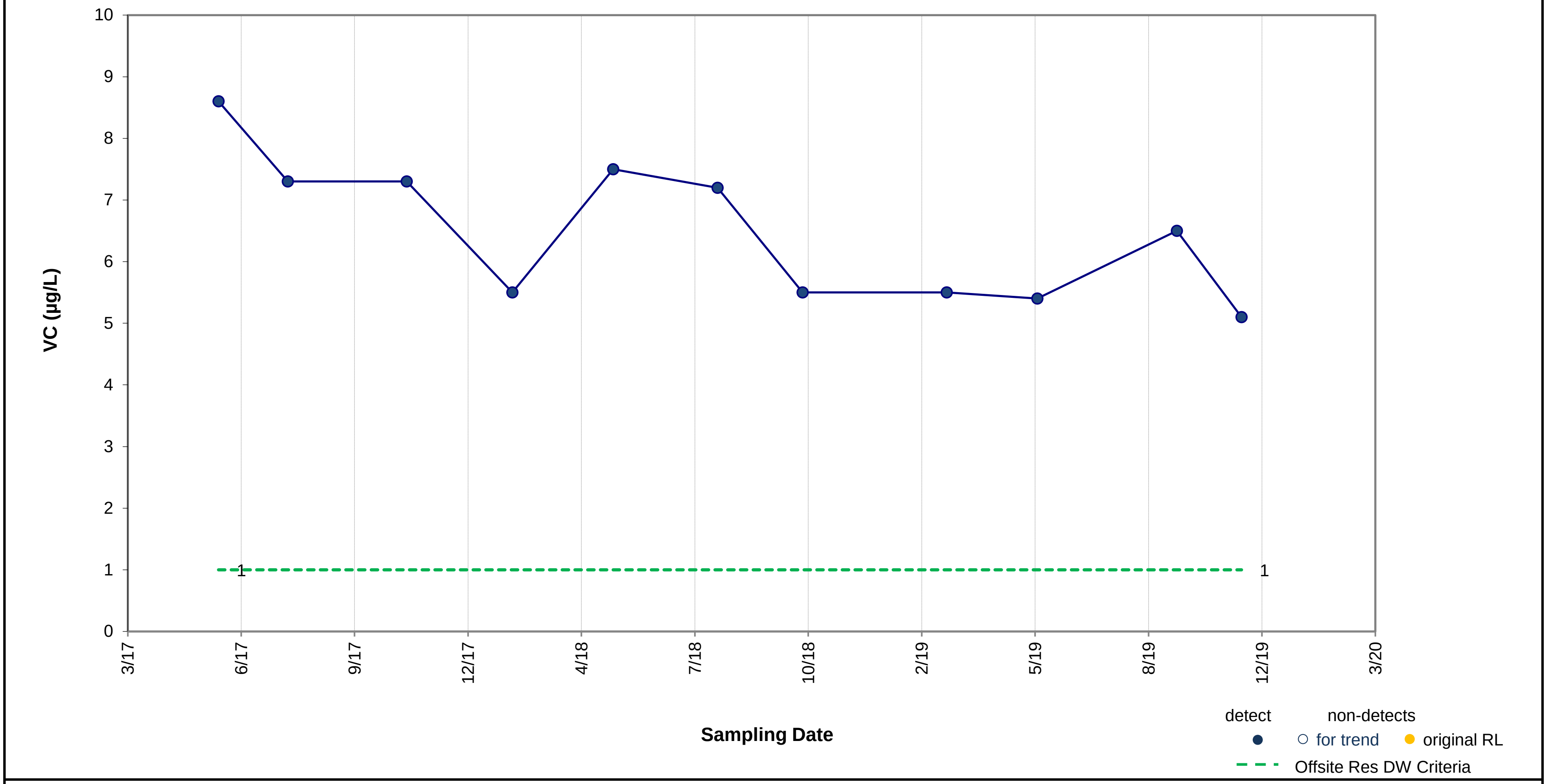
Concentration vs. Time Plot – VC in MW-80S

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 35



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.004 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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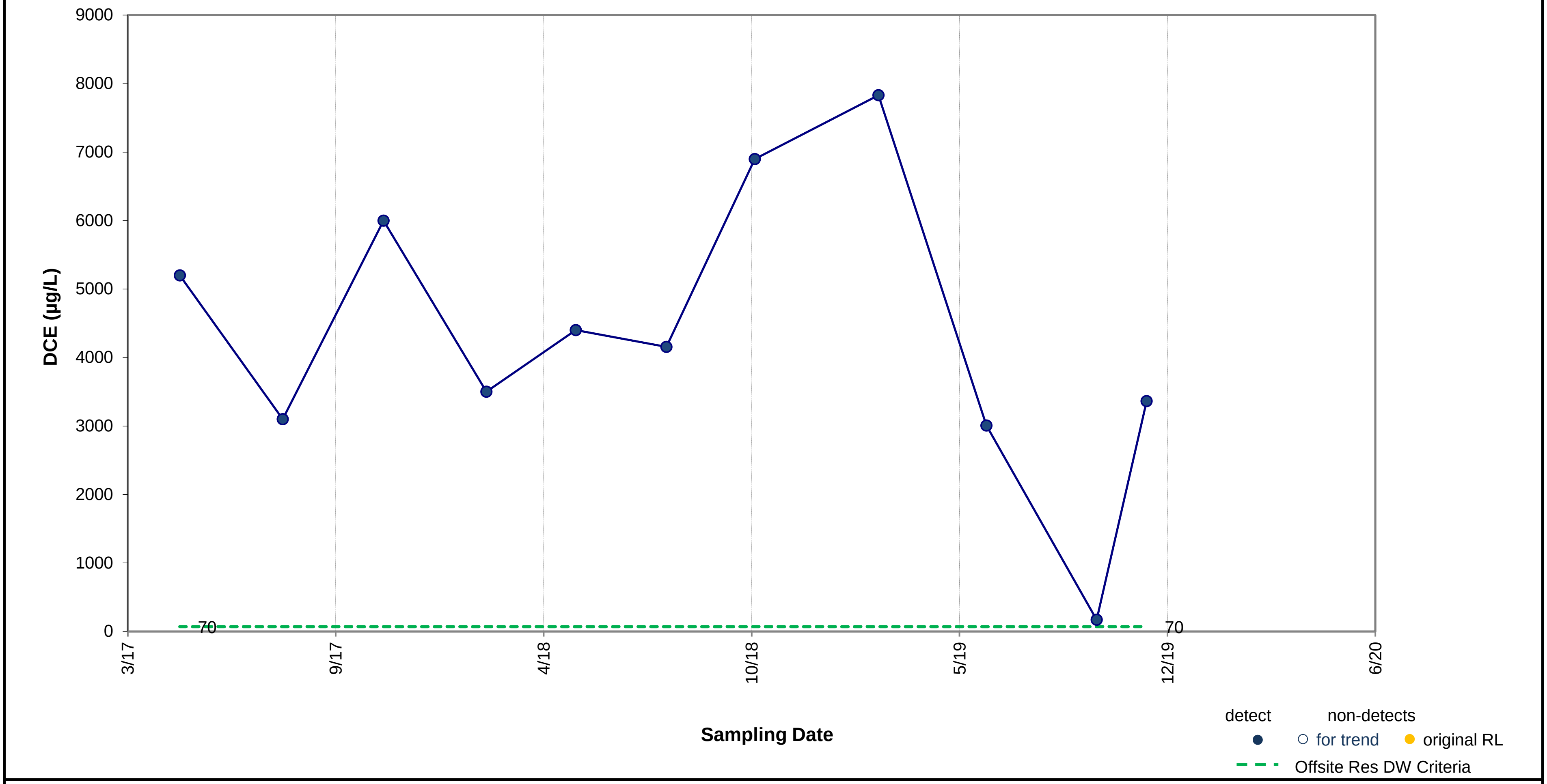
Concentration vs. Time Plot – VC in MW-85

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 36



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.267 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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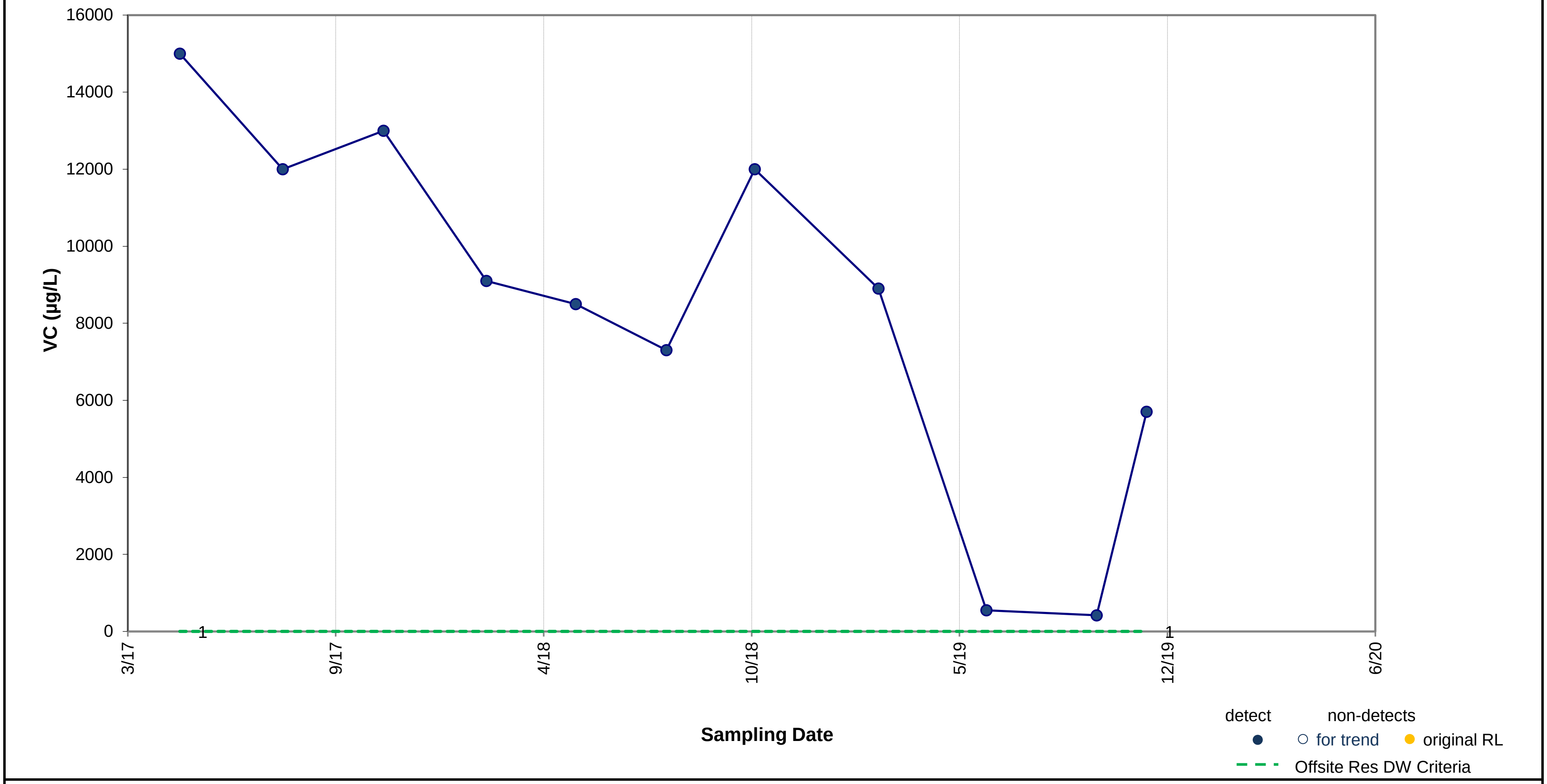
Concentration vs. Time Plot – DCE in TW-16-02

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 37



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.002 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

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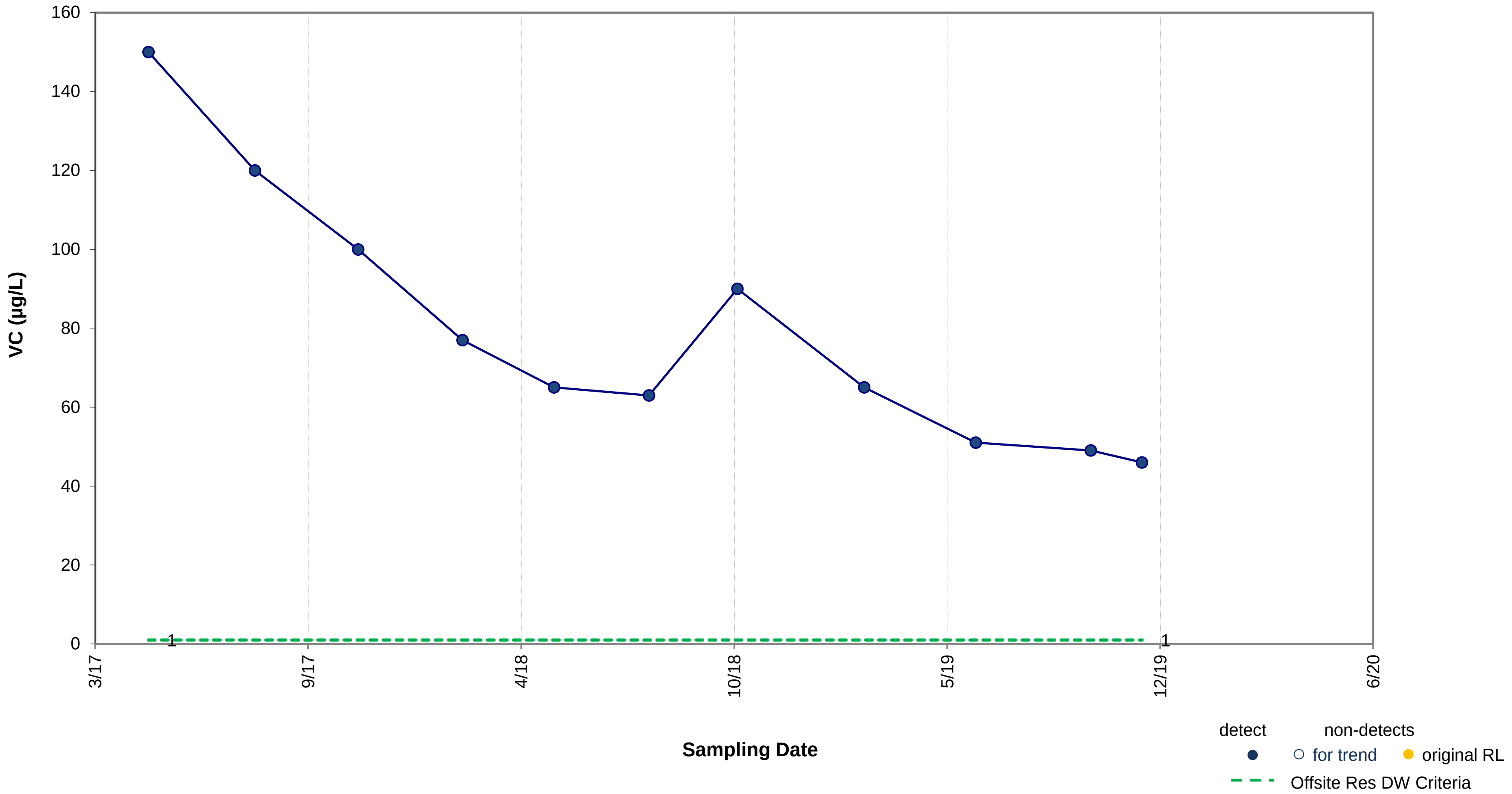
Concentration vs. Time Plot – VC in TW-16-02

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 38



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 TW-16-04

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 39

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