

SUBJECT

Utility Corridor Assessment –
Notification of Response Activities for Hathaway Avenue
and Sanitary Sewer Vapor Extraction System Hardware
36200 Plymouth Road, Livonia, Wayne County
Consent Decree No 2:1712372-GAD-RSW (CJ)
Site ID No.: 82002970

TO

Mr. Mike Neller, EGLE
Ms. Jeanne Schlaufman, EGLE

DATE

July 14, 2023

OUR REF

30144174

COPIES TO

Mr. Todd Walton, Ford
Mr. Chuck Pinter, Ford

NAME

Kris Hinskey – Arcadis of Michigan, LLC

On behalf of Ford Motor Company (Ford), this memorandum (memo) has been prepared by Arcadis of Michigan, LLC (Arcadis) for the Livonia Transmission Plant (LTP) site (the site). This memo satisfies the request in the June 8, 2023 letter from the Michigan Department of Environment, Great Lakes, and Energy (EGLE) which states Ford shall notify EGLE when response activities will be implemented.

As of July 13, 2023, two rounds of vapor samples have been collected from Hathaway Avenue. Per the EGLE letter dated June 8, 2023, response activities are to be undertaken along Hathaway Avenue in the event that analytical results from two consecutive rounds of vapor samples exceed the residential site-specific volatilization to indoor air criteria (SSVIAC) at any manhole location along Hathaway Avenue. Analytical results from the vapor samples collected along Hathaway Avenue are provided on **Figure 1**. These results indicate two consecutive rounds of vapor sampling with exceedances of the residential SSVIAC at multiple manhole locations. The section below details response activities for Hathaway Avenue.

Response Activity Schedule for Hathaway Avenue

- July 7, 2023 – 33 access agreements were sent to residents along Hathaway Avenue who have not already granted access to the residential structure or have not already had a plumbing inspection completed.
- Plumbing inspections are scheduled for 7 out of the 8 homes who have granted access –
 - July 18, 2023 – 33569 Hathaway
 - July 20, 2023– 34101 Hathaway and 33500 Hathaway
 - July 21, 2023– 33636 Hathaway
 - July 24, 2023– 34069 Hathaway
 - July 27, 2023– 33421 Hathaway
 - July 27, 2023– 33625 Hathaway – Tentative
- Cleaning and Lateral Identification –
 - July 17, 2023 – Cleaning and lateral identification from sanitary sewer sample locations SL-35A to SL-35B
 - July 18, 2023– Cleaning and lateral identification from sanitary sewer sample locations SL-12 to SL-30

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- July 19, 2023– Cleaning and lateral identification from sanitary sewer sample locations SL-30 to SL-34
- July 20, 2023– Cleaning and lateral identification from sanitary sewer sample locations SL-34 to SL-35
- Week of August 7, 2023 – Collect post cleaning vapor samples from Hathaway Avenue sanitary sewer sample locations SL-20, SL-21, SL-30, SL-31, SL-32, SL-33, SL-34, SL-35, SL-35A and SL-35B

Sanitary Sewer Vapor Extraction (SSVE) System

In the June 28, 2023 EGLE Response Letter to Ford, EGLE stated “*EGLE requests that Ford hardwire the SSVE system and only rely on a generator as a backup in the event of a power loss*”. On Wednesday, July 19, 2023, DTD Ellingson will be installing electrical conduit to connect the SSVE system to a permanent power source. Upon installation of the subsurface electrical conduit, Ford Trades will complete the remaining work to connect the new electrical line to the permanent power source. It is anticipated this work will be completed by the beginning of August 2023 upon which the permanent power source will be fully operational, and a generator will only be utilized in the event of a power loss.

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.



LEGEND

- SANITARY MANHOLE
- LATERAL CONNECTIONS
- ✖ CAPPED LATERAL CONNECTIONS
- ▲ FLOW DIRECTION
- SANITARY SEWER LINE

BLUE/BOLD TEXT RESULT (OR DUPLICATE) EXCEEDS THE EGLE SSVIAC.

NOTES:
FIGURE SHOWS DATA FOR CIS-1,2-DICHLOROETHYLENE, TETRACHLOROETHYLENE, TRICHLOROETHYLENE, AND VINYL CHLORIDE ONLY. FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

"ND (<0.4)", "<" - INDICATES THE VALUE IS BELOW THE LABORATORY METHOD DETECTION LIMIT FOR THE ASSOCIATED SAMPLING EVENT

EGLE = DEPARTMENT OF ENVIRONMENT, GREAT LAKES & ENERGY

SSVIAC = SITE-SPECIFIC VOLATILIZATION TO INDOOR AIR CRITERIA

SL = SAMPLING LOCATION

µg/m³ = MICROGRAMS PER CUBIC METER

[] = DUPLICATE SAMPLE RESULTS

VAPOR RESULTS REPORTED IN µg/m³. ANALYTICAL METHOD: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY TO-15.

RESULTS ARE COMPARED TO THE EGLE UNRESTRICTED RESIDENTIAL SSVIAC FOR CIS-1,2-DICHLOROETHYLENE OF 8.3 µg/m³, TETRACHLOROETHYLENE OF 41 µg/m³, TRICHLOROETHYLENE OF 2.0 µg/m³, AND VINYL CHLORIDE OF 1.6 µg/m³.

SL-21	
cis-1,2-Dichloroethene (µg/m³)	
6/23/2023	64
6/28/2023	17
Tetrachloroethene (µg/m³)	
6/23/2023	37
6/28/2023	27
Trichloroethene (µg/m³)	
6/23/2023	7.6
6/28/2023	2.7
Vinyl Chloride (µg/m³)	
6/23/2023	41
6/28/2023	11

SL-30	
cis-1,2-Dichloroethene (µg/m³)	
6/23/2023	52 [48]
6/28/2023	41
Tetrachloroethene (µg/m³)	
6/23/2023	48 [46]
6/28/2023	52
Trichloroethene (µg/m³)	
6/23/2023	5.4 [5.4]
6/28/2023	5.9
Vinyl Chloride (µg/m³)	
6/23/2023	ND (< 0.46) [28]
6/28/2023	ND (< 0.46)

SL-32	
cis-1,2-Dichloroethene (µg/m³)	
6/23/2023	39
6/28/2023	35
Tetrachloroethene (µg/m³)	
6/23/2023	41
6/28/2023	42
Trichloroethene (µg/m³)	
6/23/2023	5.3
6/28/2023	5.6
Vinyl Chloride (µg/m³)	
6/23/2023	23
6/28/2023	22

SL-34	
cis-1,2-Dichloroethene (µg/m³)	
6/23/2023	32
6/28/2023	16
Tetrachloroethene (µg/m³)	
6/23/2023	29
6/28/2023	27
Trichloroethene (µg/m³)	
6/23/2023	5.4
6/28/2023	2.9
Vinyl Chloride (µg/m³)	
6/23/2023	22
6/28/2023	ND (< 0.46)

SL-35A	
cis-1,2-Dichloroethene (µg/m³)	
6/22/2023	4.1
6/28/2023	34
Tetrachloroethene (µg/m³)	
6/23/2023	19
6/28/2023	100
Trichloroethene (µg/m³)	
6/22/2023	1.1
6/28/2023	8.7
Vinyl Chloride (µg/m³)	
6/22/2023	3.1
6/28/2023	24

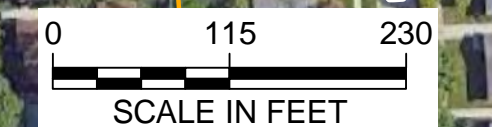
SL-20	
cis-1,2-Dichloroethene (µg/m³)	
6/23/2023	67 [49]
6/28/2023	43 [42]
Tetrachloroethene (µg/m³)	
6/23/2023	21 [17]
6/28/2023	50 [51]
Trichloroethene (µg/m³)	
6/23/2023	51 [39]
6/28/2023	6.9 [6.3]
Vinyl Chloride (µg/m³)	
6/23/2023	48 [ND (< 0.46)]
6/28/2023	ND (< 0.46) [ND (< 0.46)]

SL-31	
cis-1,2-Dichloroethene (µg/m³)	
6/23/2023	43
6/28/2023	36
Tetrachloroethene (µg/m³)	
6/23/2023	56
6/28/2023	43
Trichloroethene (µg/m³)	
6/23/2023	5.4
6/28/2023	5.9
Vinyl Chloride (µg/m³)	
6/23/2023	24
6/28/2023	ND (< 0.46)

SL-33	
cis-1,2-Dichloroethene (µg/m³)	
6/23/2023	34
6/28/2023	38
Tetrachloroethene (µg/m³)	
6/23/2023	32
6/28/2023	52
Trichloroethene (µg/m³)	
6/23/2023	5.2
6/28/2023	6.2
Vinyl Chloride (µg/m³)	
6/23/2023	ND (< 0.46)
6/28/2023	20

SL-35	
cis-1,2-Dichloroethene (µg/m³)	
6/23/2023	28
6/28/2023	3.4
Tetrachloroethene (µg/m³)	
6/23/2023	52
6/28/2023	7.0
Trichloroethene (µg/m³)	
6/23/2023	5.7
6/28/2023	ND (< 0.72)
Vinyl Chloride (µg/m³)	
6/23/2023	17
6/28/2023	ND (< 0.46)

SL-35B	
cis-1,2-Dichloroethene (µg/m³)	
6/22/2023	ND (< 0.58)
6/28/2023	2.4
Tetrachloroethene (µg/m³)	
6/22/2023	ND (< 1.0)
6/28/2023	2.8
Trichloroethene (µg/m³)	
6/22/2023	ND (< 0.72)
6/28/2023	ND (< 0.72)
Vinyl Chloride (µg/m³)	
6/22/2023	ND (< 0.46)
6/28/2023	0.76



FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

**OFF-SITE VAPOR RESULTS SUMMARY
HATHAWAY AVENUE**

