Earth Systems
Environmental Engineering

October 11, 2024

Mr. Matthew Mueller
Maryland Department of the Environment
Remediation Division
Oil Control Program
1800 Washington Boulevard, Suite 620
Baltimore, Maryland 21230-1719

Via: Email and USPS

Re: Request for Temporary Remediation System Deactivation
Former Hess Station #20204
1613 East Joppa Road
Towson, Maryland
Case No. 1991-2100-BA
Facility ID No. 545

Dear Mr. Mueller:

The following presents a request to temporarily deactivate the groundwater collection system located at the above-referenced site (Site) and implement the proposed monitoring plan during the deactivation period. This request has been prepared by Earth Systems, LLC (ES) and submitted on behalf of Hess Corporation (Hess).

Groundwater Collection System Summary

The groundwater collection system was activated on May 12, 2014 to improve groundwater conditions at the Site. **Figure 1** depicts the Site and system layout. The system consists of four north-to-south subsurface perforated pipe laterals that connect to a main line. The main line directs water to the southwest into the system sump, where it is pumped to the system vault and through bag filters and granular activated carbon (GAC) to treat the water before discharge to the local storm water sewer system. To date, the system has gathered and treated nearly seven million gallons of groundwater.

During the system's lifetime, influent, midfluent, and effluent samples have been collected to evaluate the system's effectiveness and ensure compliance with the Site's National Pollutant Discharge Elimination System (NPDES) Permit. The influent and effluent analytical data are included on **Table 1**. An analysis of the influent data (**Table 2**) indicates an overall decreasing trend since system activation, with a majority of the data over the last five years below the NPDES Permit's discharge limits. This decreasing influent concentration trend is indicative of effective mitigation of groundwater impacts on the Site. A chart depicting the influent data and trend since system activation is included in **Chart 1**.

Proposed Groundwater Collection System Deactivation

The primary corrective action goal of the Groundwater Collection System was to accelerate the attenuation of residual hydrocarbon constituents in the groundwater at the Site. Groundwater samples have been routinely collected from ten monitoring wells (MW-4, MW-7, YMW-1 through YMW-4, YMW-8, YP-1, YP-2, YP-5) on a semi-annual basis to monitor progress towards that goal. These samples were analyzed for Full Scan Volatile Organic Compounds (VOCs) + Fuel Oxygenates, Total Petroleum Hydrocarbons-Gasoline Range Organics (TPH-GRO) and Total Petroleum Hydrocarbons-Diesel Range Organics (TPH-DRO). **Table 3** summarizes the groundwater sample analytical results. **Figure 2** illustrates the distribution of hydrocarbon concentrations in the groundwater samples collected during the June 2024 semi-annual groundwater sampling event.

A review of the groundwater data presented in **Table 3** suggests that the system was successful in mobilizing and attenuating hydrocarbon compounds. Charts depicting Benzene and BTEX concentrations in groundwater samples collected from monitoring wells currently included in the semi-annual groundwater sampling program are included as **Charts 2** and **3**, respectively. The timeframe analyzed begins in 2010, several years prior to system activation, through the most recent groundwater sampling event conducted in June 2024. The charts demonstrate a significant increase in concentrations after system initiation in May 2014, which signifies the system was effective in mobilizing and directing impacts away from the Site for treatment. This uptick is followed by a steady decrease over time, with the largest concentration reductions completed by 2019. This pattern mimics the system influent concentration trend seen in **Chart 1**. Current Benzene and BTEX concentrations are relatively low, with the exception of those exhibited at YMW-8. However, YMW-8 is centrally located on the Site and is fully delineated by the other monitoring wells.

Based on the current concentrations exhibited in the groundwater samples and the steady or decreasing concentration trends, Hess requests approval to temporarily deactivate the system for a period of six months. During that period, the Post Remedial Monitoring Plan detailed below is proposed.

Proposed Post Remedial Monitoring Plan

Hess will implement the following measures to enact the proposed temporary system deactivation:

- The pump located in the recovery sump (Manhole 21 on **Figure 1**) will be deactivated, removed from the sump, and cleaned prior to storage onsite in the event system reactivation is required.
- The two bag filter housing units, three carbon drums, and interconnecting hoses will be drained of standing water to eliminate the potential for damage from freezing during the upcoming winter season.
- The subsurface piping that collects water from around the Site will be temporarily plugged at the locations indicated below and depicted on **Figure 3**. These locations will keep the groundwater more locally contained; thus, reducing the potential for standing water to develop around the system location.
    - One temporary plug will be placed in each of the four north-to-south laterals. The plugs will be installed at the southern end of the laterals where they join the main line, at Manholes 21 through 24.
    - One temporary plug will be placed in the influent port of each of Manholes 21 through 23 in the main line.
- The NPDES permit will remain in effect and “no discharge” will be indicated on Discharge Monitoring Reports (DMRs).

The proposed timeframe for the temporary remedial suspension is six months. During that time, bi-weekly monitoring will be conducted for the following conditions:

- Increase in groundwater elevation – Groundwater elevations will be gauged in the ten monitoring wells currently included in the semi-annual sampling program.
- Groundwater daylighting – A site walkthrough will be conducted and visual observations will be made for any daylighting. Particular areas of interest will include low lying areas, such as the system area, and the curbline along Yakona Road. Daylighted areas, PID screening measurements, and other observations, such as signs of iron staining, will be noted.
- Increase in hydrocarbon vapors – Routine PID screening of the areas included in the current weekly system operations and maintenance (O&M) visits will be continued. These areas include below grade and breathing zones at Manhole 3, Manholes 21 through 24, and the nearby Yakona Road storm sewer curb inlet.

If any of these conditions are observed, the following response actions will be implemented:

- Increase in groundwater elevation – This condition will be monitored for data collection purposes and is not considered adverse unless it contributes to other undesirable conditions.
- Groundwater daylighting – Areas of daylighting and any associated PID readings will be recorded. If daylighting becomes excessive or breathing zone PID readings exceed five parts per million (ppm), the MDE will be consulted and reactivation of the system will be considered.
- Increase in hydrocarbon vapors – Below grade PID readings will be measured for data collection purposes. Should breathing zone PID readings exceed five ppm, the MDE will be consulted and reactivation of the system will be considered.

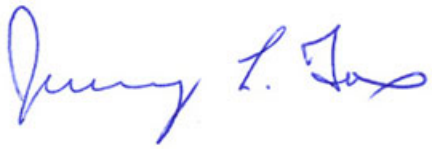
Post Remedial Monitoring Plan Evaluation

Groundwater conditions were the driver for the installation of the system. In order to evaluate the groundwater conditions and the need for the remediation system in the future, the frequency of the monitoring well sampling program will be increased to quarterly. Groundwater sampling events will be conducted in the third and sixth months of the remedial suspension period. The wells included will be the current list of ten wells being sampled semi-annually and the parameters analyzed will remain the same.

At the conclusion of the six-month term and receipt of analytical data, a report will be submitted detailing the bi-weekly monitoring results, any performed response actions, and the results of the two groundwater sampling events. An evaluation of the groundwater data and trends will be included, along with conclusions and recommendations. Should groundwater concentration trends remain stable or decreasing, a request for permanent system deactivation and case closure will be included.

Should you have any questions or require any additional information, please feel free to contact me by telephone at (610) 509-5153 or via email at jfox@earthsys.net. If you have any questions relating to the project, please contact John Schenkewitz of Hess Corporation at (732) 614-0726.

Sincerely,
Earth Systems, LLC



Jeremy L. Fox, PE
Operations Manger

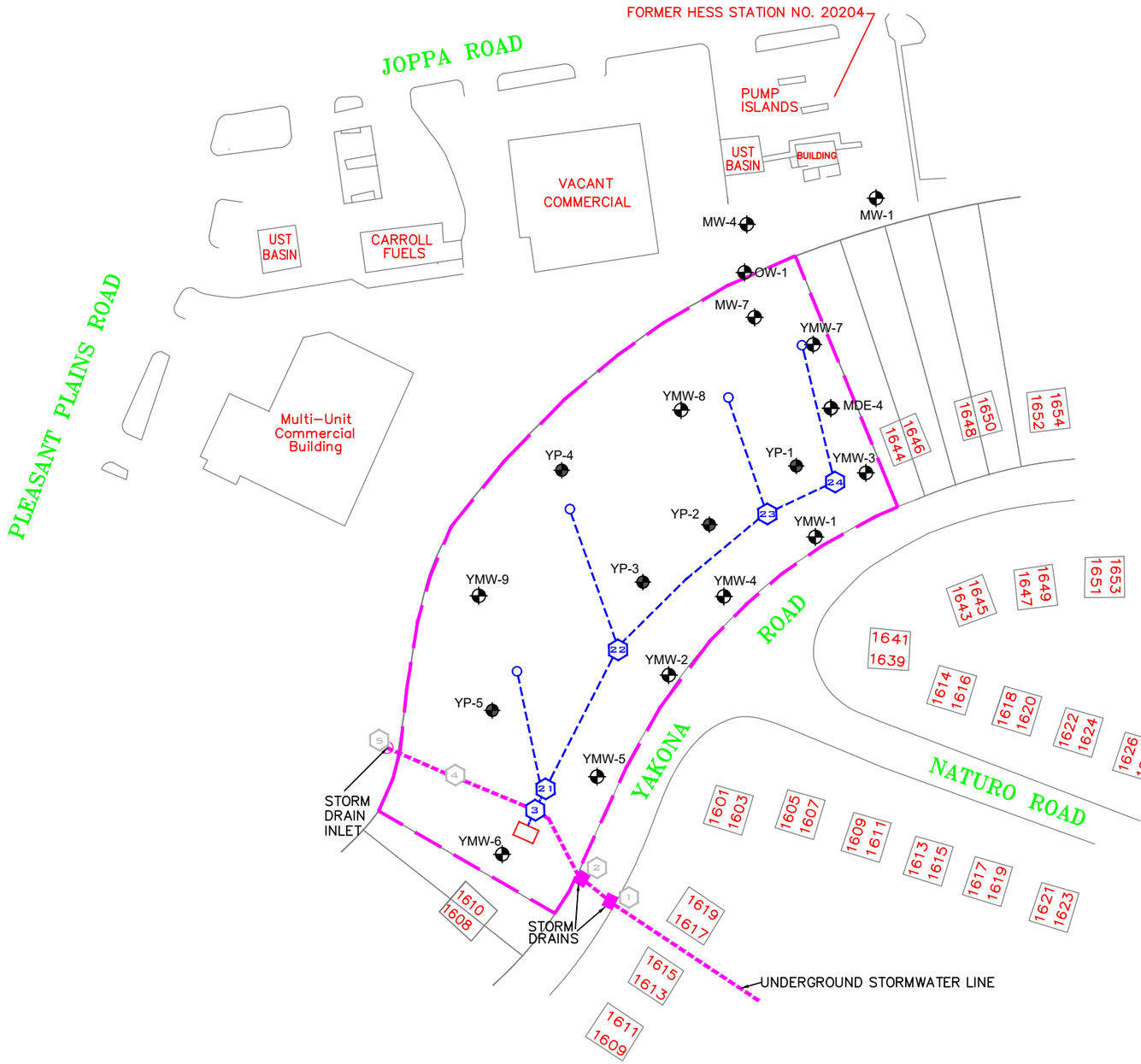
Enclosures

cc: J. Schenkewitz, Hess Corporation
E. Jackson, MDE
T. Jackson, Baker Botts
D. Dugan, PMIG 1026
P. Joris, NeighborSpace

FIGURES

REQUEST FOR TEMPORARY REMEDIATION SYSTEM DEACTIVATION

Former Hess Station No. 20204
1613 E. Joppa Road
Towson, Maryland 21286
Case No. 1991-2100-BA
October 2024



LEGEND

- Ridgely Manor Park Boundary
- Groundwater Monitoring Well
- Piezometer
- Groundwater Management System Access Manhole (Vapor Screening Point)
- Stormwater Inlet Callout
- Drainage Piping Cleanout
- Below Grade Groundwater Management System Vault
- Underground Groundwater Management System Drainage Piping

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

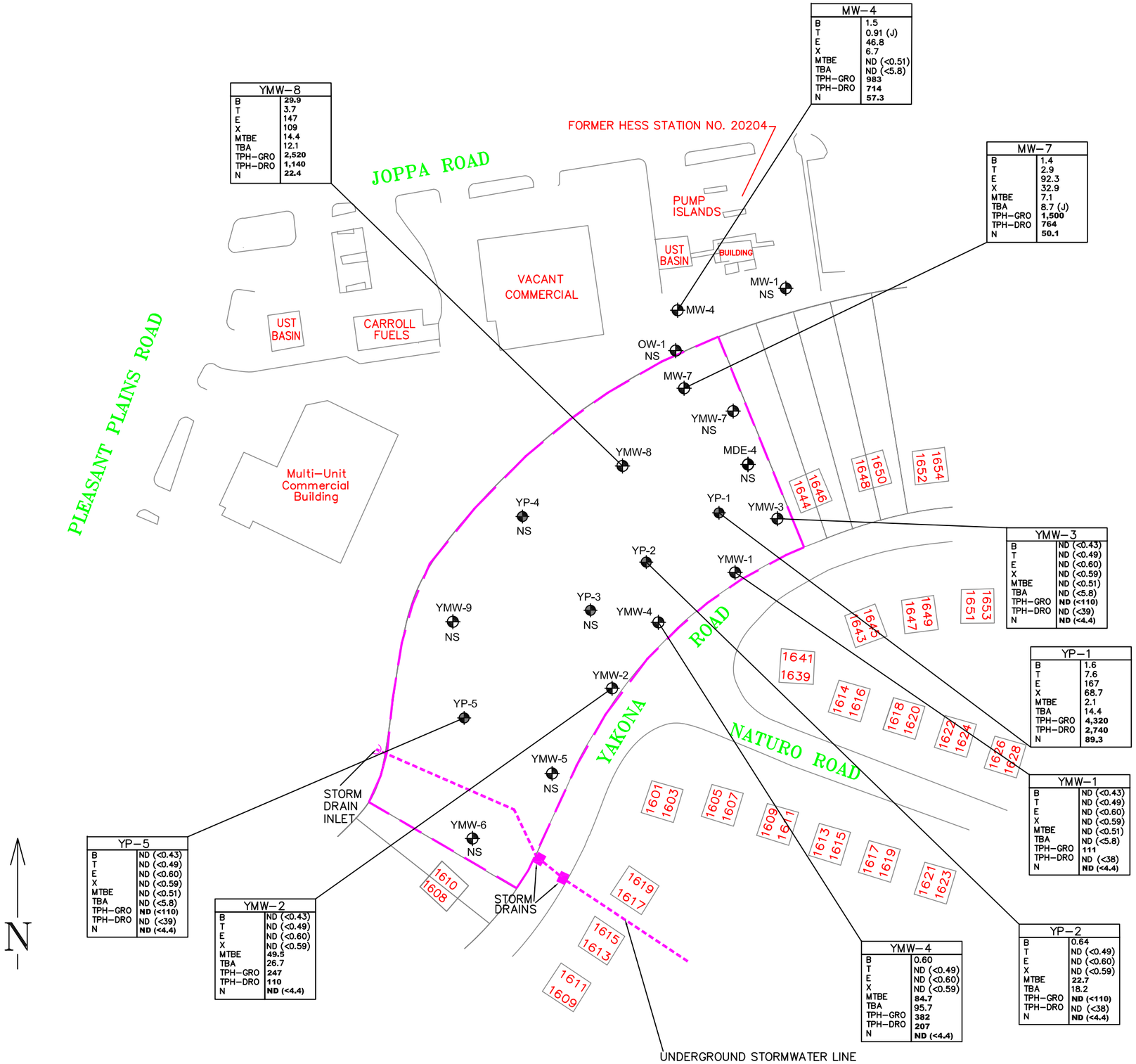
FIGURE 1

SITE PLAN

FORMER HESS STATION #20204
1613 East Joppa Road
Towson, Maryland

Drawn By: IGB
Date: 12/17/21

Earth Systems
Environmental Engineering



LEGEND

— —	Ridgely Manor Park Boundary
⊕	Groundwater Monitoring Well
⊕	Piezometer
ND	Constituent Compound Not Detected
NS	Not Sampled
J	Laboratory-Estimated Value
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total Xylenes
MTBE	Methyl Tertiary Butyl Ether
TBA	Tertiary Butyl Alcohol
TPH-GRO	Total Petroleum Hydrocarbons-Gasoline Range Organics
TPH-DRO	Total Petroleum Hydrocarbons-Diesel Range Organics
N	Naphthalene

All Concentrations Expressed In Micrograms/Liter (µg/L)

Values Shown In Boldface Type Exceed The Applicable MDE Statewide Health Standard

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

FIGURE 2

HYDROCARBON DISTRIBUTION MAP

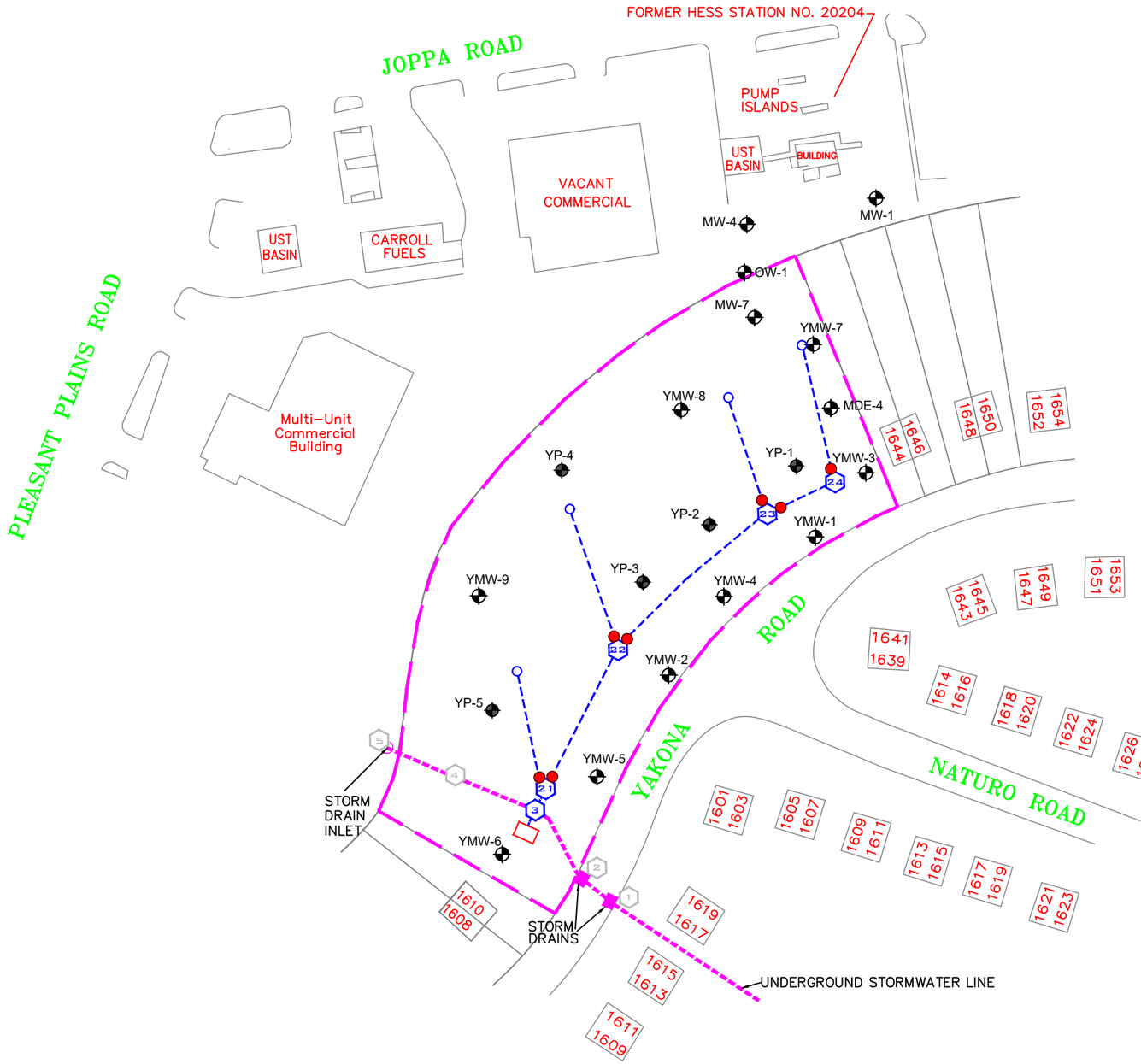
(Sampled: 6/19/24)

FORMER HESS STATION #20204
1613 East Joppa Road
Towson, Maryland

Drawn By: IGB

Date: 7/8/24

Earth Systems
Environmental Engineering



LEGEND

- Ridgely Manor Park Boundary
- Groundwater Monitoring Well
- Piezometer
- Groundwater Management System Access Manhole (Vapor Screening Point)
- Stormwater Inlet Callout
- Drainage Piping Cleanout
- Below Grade Groundwater Management System Vault
- Underground Groundwater Management System Drainage Piping
- Temporary Line Plug

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

FIGURE 3

TEMPORARY LINE PLUG LOCATIONS

FORMER HESS STATION #20204

1613 East Joppa Road

Towson, Maryland

Drawn By: KF

Date: 10/4/2024

Earth Systems Environmental Engineering

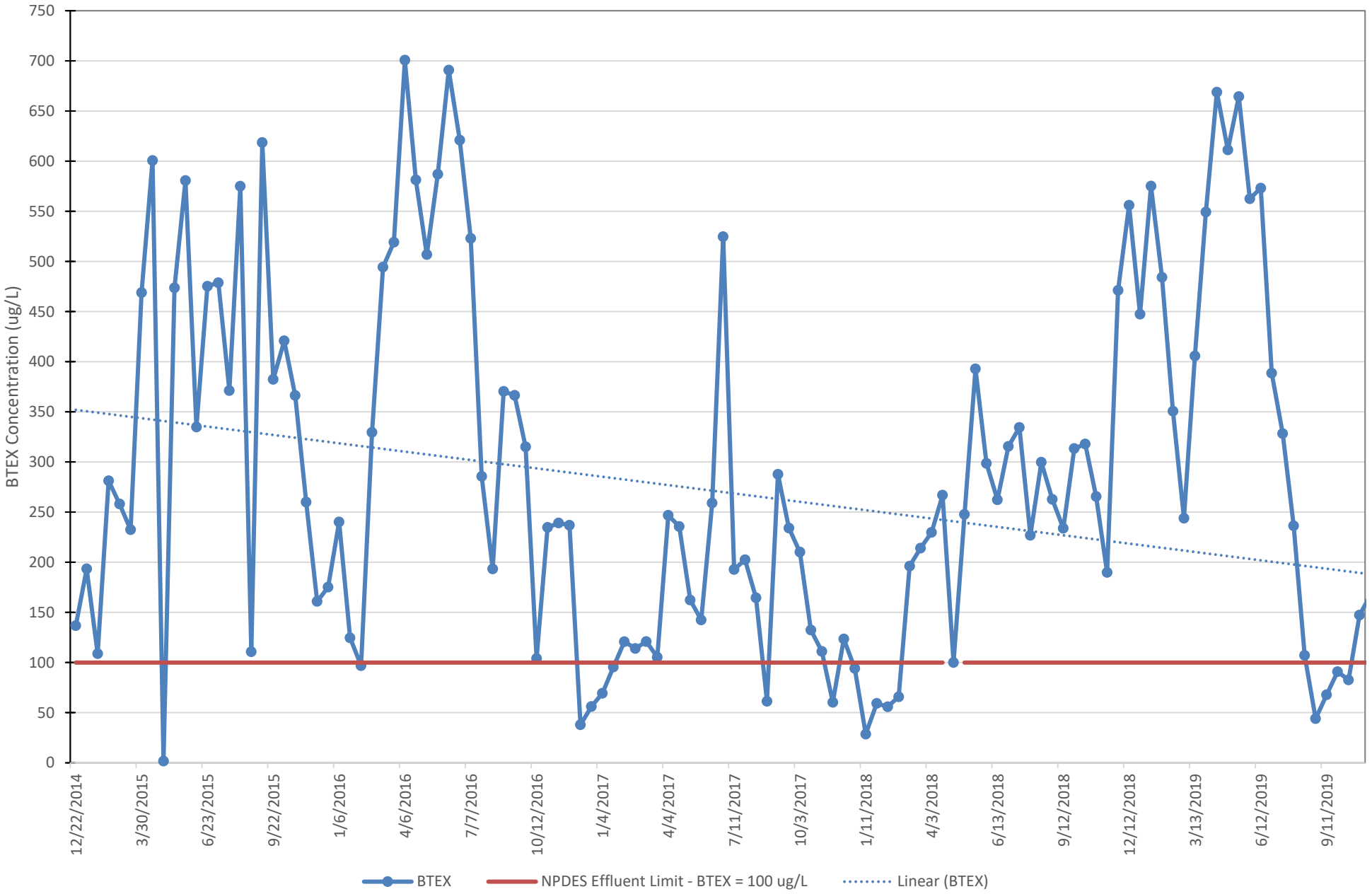
CHARTS

REQUEST FOR TEMPORARY REMEDIATION SYSTEM DEACTIVATION

Former Hess Station No. 20204
1613 E. Joppa Road
Towson, Maryland 21286
Case No. 1991-2100-BA
October 2024

CHART 1

Groundwater Collecton System Influent BTEX Concentrations - Since Startup



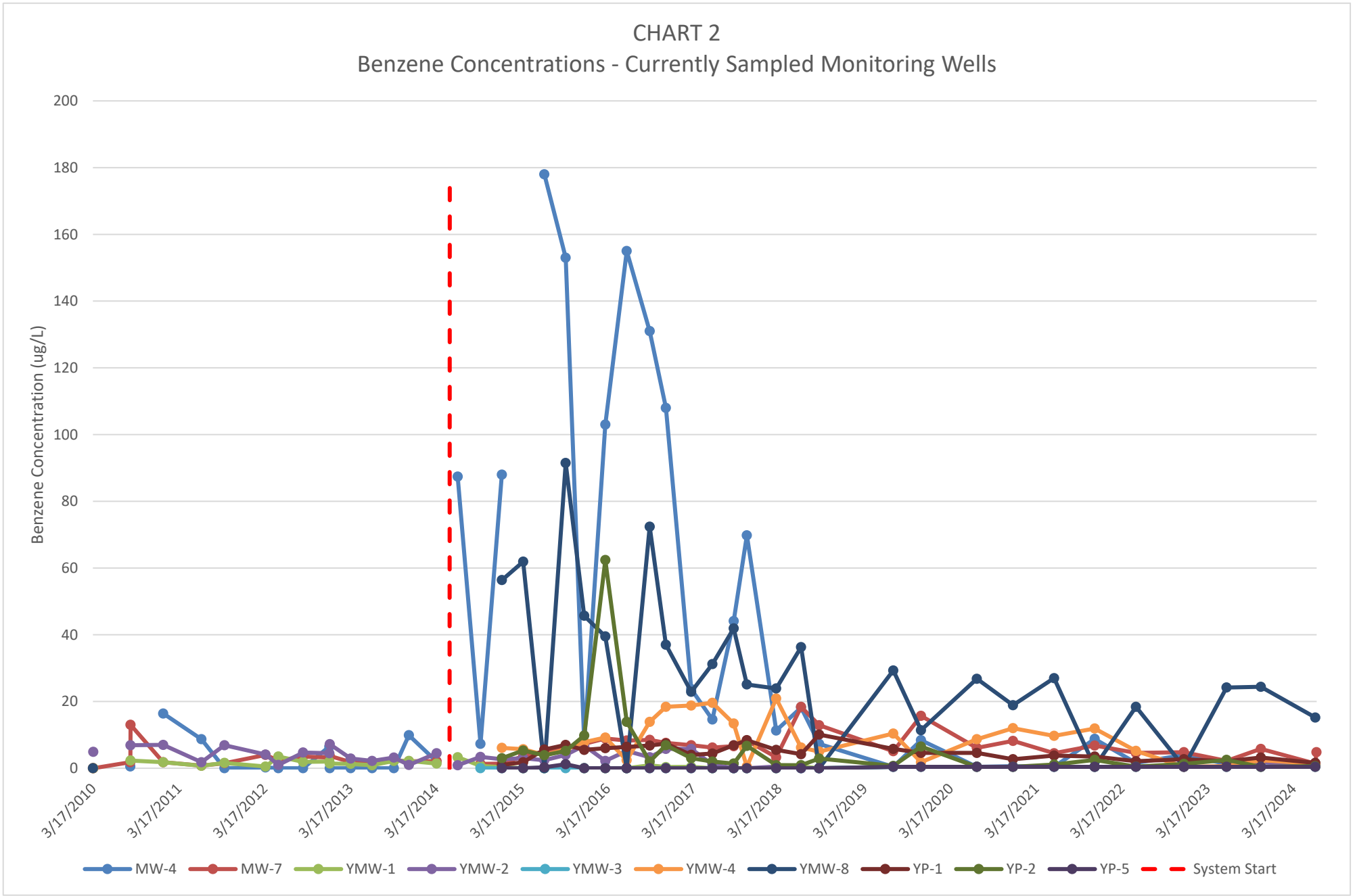
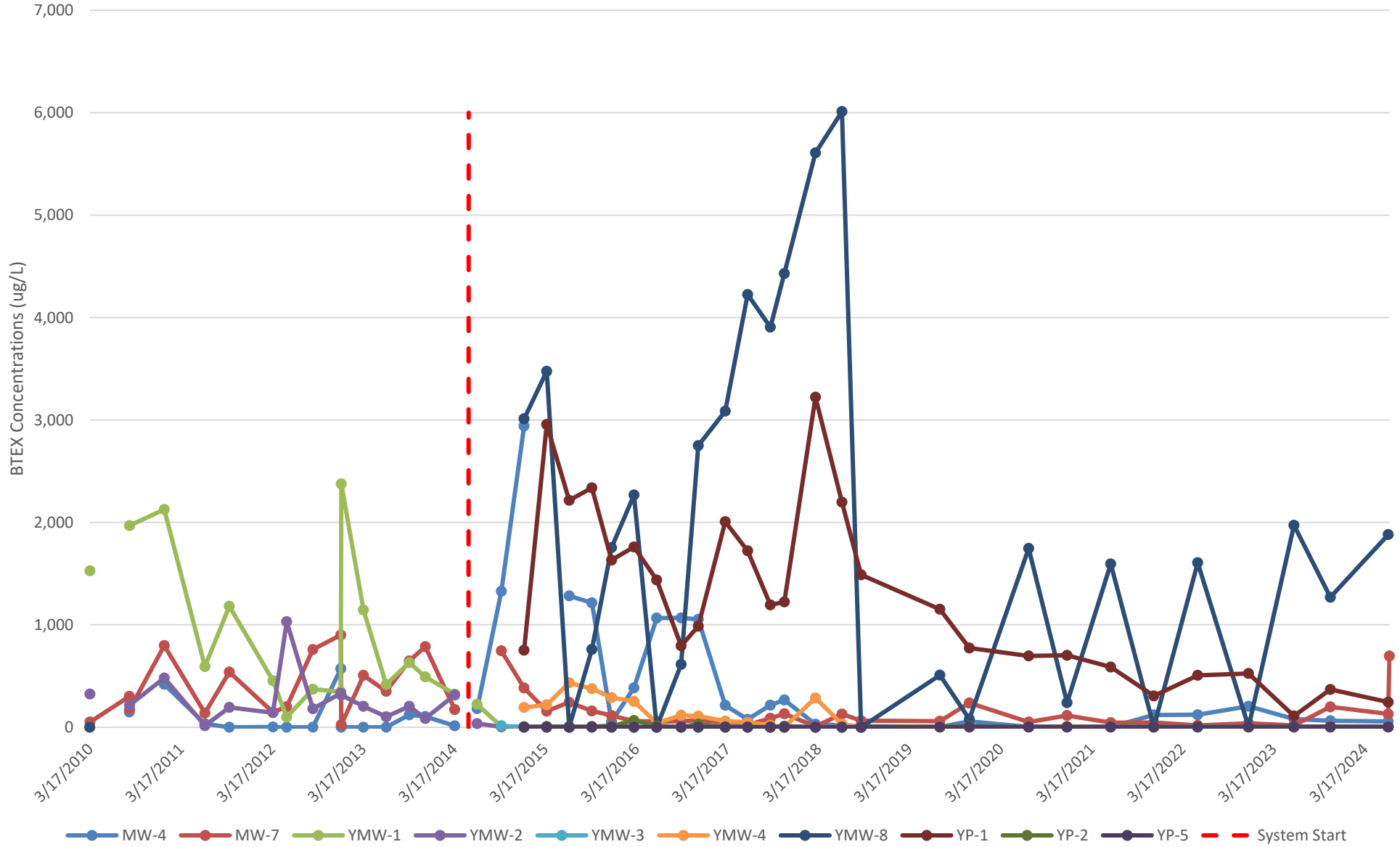


CHART 2
Benzene Concentrations - Currently Sampled Monitoring Wells
Benzene Concentration (ug/L)
200
180
160
140
120
100
80
60
40
20
0
3/17/2010
3/17/2011
3/17/2012
3/17/2013
3/17/2014
3/17/2015
3/17/2016
3/17/2017
3/17/2018
3/17/2019
3/17/2020
3/17/2021
3/17/2022
3/17/2023
3/17/2024
MW-4
MW-7
YMW-1
YMW-2
YMW-3
YMW-4
YMW-8
YP-1
YP-2
YP-5
System Start

CHART 3

BTEX Concentrations- Currently Sampled Monitoring Wells



TABLES

REQUEST FOR TEMPORARY REMEDIATION SYSTEM DEACTIVATION

Former Hess Station No. 20204
1613 E. Joppa Road
Towson, Maryland 21286
Case No. 1991-2100-BA
October 2024

TABLE 1
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INF	1/19/2015	1.1	7.7	77.6	107	193.4	11.8	1.42	0.898	2.318	49.3
EFF	1/19/2015	ND	ND	ND	ND	ND	2.7	ND	ND	ND	ND
INF	1/26/2015	0.48 (J)	4.4	35.2	68.7	108.78 (J)	ND	0.973	0.454	1.427	35.1
EFF	1/26/2015	0.26 (J)	2.3	15.7	38.5	56.76 (J)	6.8	0.418	0.267	0.685	12.3
INF	2/4/2015	1.2	10.9	96.1	173	281.2	12.4	1.70	1.21	2.91	60.1
EFF	2/4/2015	ND	0.74 (J)	1.6	16.0	18.34 (J)	7.0	ND	ND	ND	0.84 (J)
INF	2/20/2015	0.90	8.7	81.5	167	258.10	14.5	1.79	0.826	2.616	62.5
EFF	2/20/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	3/3/2015	0.77	8.6	71.1	152	232.47	10.9	1.51	0.573	2.083	47.3
EFF	3/3/2015	ND	ND	ND	ND	ND	0.88 (J)	ND	ND	ND	ND
INF	3/30/2015	1.6	15.3	100	352	468.9	11.5	2.33	0.779	3.109	51.3
EFF	3/30/2015	ND	ND	ND	ND	ND	0.97 (J)	ND	ND	ND	ND
INF	4/7/2015	1.9	16.7	143	439	600.6	12.5	3.52	0.870	4.390	94.1
EFF	4/7/2015	ND	ND	ND	ND	ND	0.59 (J)	ND	ND	ND	ND
INF	4/27/2015	1.7	ND	ND	ND	1.7	ND	2.51	1.24	3.75	79.7
EFF	4/27/2015	ND	ND	ND	ND	ND	0.41 (J)	ND	ND	ND	ND
INF	5/4/2015	1.4	15.3	117	340	473.7	11.9	2.02	0.873	2.893	76.6
EFF	5/4/2015	ND	ND	ND	ND	ND	1.0	ND	0.192	0.192	ND
INF	5/18/2015	1.7	20.9	141	417	580.6	12.8	3.58	1.17	4.75	71.3
EFF	5/18/2015	ND	ND	ND	0.37 (J)	0.37 (J)	2.2	ND	ND	ND	ND
INF	6/2/2015	0.83	8.7	75.3	250	334.83	6.2	1.45	0.461	1.911	38.2
EFF	6/2/2015	ND	ND	ND	ND	ND	1.5	ND	0.114	0.114	ND
INF	6/23/2015	1.6	14.7	116	343	475.3	ND	1.45	0.937	2.387	69.3
EFF	6/23/2015	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND
INF	7/6/2015	1.7	13.1	109	355	478.8	11.6	2.20	1.02	3.22	67.4
EFF	7/6/2015	ND	ND	ND	0.27 (J)	0.27 (J)	3.8	ND	0.212	0.212	ND
INF	7/21/2015	1.4	10.4	81.4	278	371.2	7.0	2.03	0.943	2.973	58.7
EFF	7/21/2015	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND
INF	8/3/2015	2.3	17.7	125	430	575.0	12.4	3.08	0.812	3.892	72.9
EFF	8/3/2015	ND	ND	ND	ND	ND	3.0	ND	ND	ND	ND
INF	8/20/2015	1.1	5.9	22.4	81.3	110.7	5.3	0.476	0.206	0.682	3.6 (J)
EFF	8/20/2015	ND	ND	ND	ND	ND	2.5	ND	0.239	0.239	ND
INF	9/9/2015	3.1	25.5	144	446	618.6	11.2	3.15	1.27	4.42	50.8
EFF	9/9/2015	ND	ND	ND	ND	ND	2.4	ND	0.448	0.448	ND
INF	9/22/2015	2.6	14.4	93.4	272	382.4	8.5	3.16	0.971	4.131	65.8
EFF	9/22/2015	ND	ND	ND	ND	ND	2.6	ND	0.0953	0.0953	ND
INF	10/7/2015	3.1	14.7	105	298	420.8	10.3	2.09	0.290	2.380	58.1
EFF	10/7/2015	ND	ND	ND	ND	ND	2.1	ND	0.0987	0.0987	ND
INF	10/13/2015	2.8	11.7	88.8	263	366.3	10.2	2.82	1.40	4.22	48.0
EFF	10/13/2015	ND	ND	ND	ND	ND	1.9	ND	0.105	0.105	ND
INF	11/10/2015	2.0	9.1	71.9	177	260.0	ND	1.98	0.807	2.787	35.7
EFF	11/10/2015	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND
INF	12/2/2015	1.9	4.3	48.7	106	160.9	7.3	1.02	0.502	1.522	39.7
EFF	12/2/2015	ND	ND	ND	ND	ND	3.8	ND	ND	ND	ND
INF	12/16/2015	1.8	5.0	57.4	111	175.2	7.6	1.17	0.527	1.697	51.0
EFF	12/16/2015	ND	ND	ND	ND	ND	1.0	ND	ND	ND	ND
INF	1/6/2016	2.4	7.0	86.8	144	240.2	7.2	1.90	0.627	2.527	41.2
EFF	1/6/2016	ND	ND	ND	ND	ND	3.4	ND	ND	ND	ND
	NPDES Permit Limits*	**5**	**NL**	**NL**	**NL**	**100**	**NL**	**NL**	**NL**	**15**	**NL**

TABLE 1
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INF	1/12/2016	1.2	3.7	36.5	83.2	124.6	5.4	1.31	0.376	1.686	21.0
EFF	1/12/2016	ND	ND	ND	ND	ND	3.1	ND	ND	ND	ND
INF	2/3/2016	0.86	3.3	26.6	66.1	96.86	3.2	0.668	0.340	1.008	17.5
EFF	2/3/2016	ND	ND	ND	ND	ND	2.0	ND	ND	ND	ND
INF	2/9/2016	2.6	11.8	96.2	219	329.6	7.1	1.79	0.665	2.455	49.6
EFF	2/9/2016	ND	ND	ND	ND	ND	2.1	ND	0.0850	0.0850	ND
INF	3/3/2016	3.1	12.2	112	367	494.3	7.6	2.71	0.717	3.427	68.5
EFF	3/3/2016	ND	ND	ND	ND	ND	5.3	ND	ND	ND	ND
INF	3/9/2016	3.1	14.1	125	377	519.2	6.6	3.03	0.665	3.695	76.7
EFF	3/9/2016	ND	ND	ND	0.78 (J)	0.78 (J)	6.2	ND	ND	ND	ND
INF	4/6/2016	4.6	35.1	156	505	700.7	7.3	3.78	0.947	4.727	75.3
EFF	4/6/2016	ND	0.32 (J)	0.75 (J)	2.3	3.37 (J)	2.4	ND	ND	ND	ND
INF	4/12/2016	4.3	29.0	109	439	581.3	7.4	2.83	0.994	3.824	74.9
EFF	4/12/2016	ND	0.17 (J)	0.41 (J)	1.4	1.98 (J)	1.4	ND	ND	ND	ND
INF	5/4/2016	2.7	23.1	123	358	506.8	5.0	2.43	0.656	3.086	63.2
EFF	5/4/2016	ND	0.40 (J)	0.94 (J)	3.6	4.94 (J)	3.7	ND	ND	ND	ND
INF	5/12/2016	3.8	29.2	166	388	587.0	7.4	3.28	1.40	4.68	76.1
EFF	5/12/2016	0.22 (J)	0.58 (J)	1.2	3.1	5.1 (J)	5.8	ND	0.269	0.269	ND
INF	6/8/2016	4.6	33.2	187	466	690.8	7.3	3.24	0.777	4.017	86.0
EFF	6/8/2016	0.50	1.4	3.5	10.4	15.80	7.2	0.226	ND	0.226	ND
INF	6/14/2016	4.9	30.1	164	422	621.0	7.2	2.94	0.822	3.762	74.4
EFF	6/14/2016	0.83	3.0	8.1	20.5	32.43	4.9	0.316	ND	0.316	ND
INF	7/7/2016	3.9	22.1	144	353	523.0	ND	2.64	1.11	3.75	73.8
EFF	7/7/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	7/12/2016	2.2	11.6	68.8	203	285.6	3.5	1.66	0.957	2.617	42.9
EFF	7/12/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	8/3/2016	3.0	7.0	36.3	147	193.3	4.7	1.28	0.810	2.090	41.4
EFF	8/3/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	8/17/2016	3.5	12.4	81.5	273	370.4	5.2	2.10	0.792	2.892	63.1
EFF	8/17/2016	ND	ND	ND	ND	0.00	0.70 (J)	ND	ND	ND	ND
INF	9/8/2016	4.3	10.2	88.9	263	366.4	5.6	2.26	0.802	3.062	61.0
EFF	9/8/2016	ND	ND	0.36 (J)	0.40 (J)	0.76 (J)	1.4	ND	ND	ND	ND
INF	9/14/2016	3.8	8.4	84.9	218	315.1	4.7	1.92	1.06	2.980	58.2
EFF	9/14/2016	ND	ND	0.30 (J)	0.59 (J)	0.89 (J)	0.84	ND	ND	ND	ND
INF	10/12/2016	4.4	5.0	15.4	79.2	104.0	5.4	1.24	0.704	1.94	6.1
EFF	10/12/2016	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND
INF	10/18/2016	4.9	6.8	46.0	177	234.7	4.9	2.72	1.06	3.78	53.7
EFF	10/18/2016	ND	ND	0.36 (J)	0.50 (J)	0.86 (J)	1.80	ND	ND	ND	ND
INF	11/3/2016	6.7	7.4	61.0	164	239.1	4.4	2.89	1.01	3.90	65.3
EFF	11/3/2016	ND	ND	0.35 (J)	ND	0.35 (J)	1.70	ND	ND	ND	ND
INF	11/8/2016	7.5	8.1	28.3	193	236.9	4.1	3.75	1.36	5.11	83.1
EFF	11/8/2016	ND	ND	ND	ND	ND	1.40	ND	ND	ND	ND
INF	12/7/2016	2.2	1.4	10.4	23.9	37.9	3.5	0.971	0.329	1.300	8.3
EFF	12/7/2016	ND	ND	ND	ND	ND	3.10	ND	ND	ND	ND
INF	12/15/2016	2.9	2.3	24.2	26.7	56.1	4.3	ND	0.486	0.486	18.2
EFF	12/15/2016	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND
INF	1/4/2017	2.7	5.3	26.6	34.7	69.3	4.7	1.12	0.46	1.58	13.8
EFF	1/4/2017	ND	ND	ND	ND	ND	1.40	ND	ND	ND	ND
	NPDES Permit Limits*	**5**	**NL**	**NL**	**NL**	**100**	**NL**	**NL**	**NL**	**15**	**NL**

TABLE 1
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INF	1/11/2017	3.5	4.7	44.2	43.1	95.5	5.4	1.12	0.367	1.49	18.8
EFF	1/11/2017	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND
INF	2/7/2017	3.9	4.3	53.6	59.0	120.8	5.5	1.58	0.464	2.04	21.1
EFF	2/7/2017	ND	ND	ND	ND	ND	2.0	ND	ND	ND	ND
INF	2/21/2017	3.1	3.3	47.1	60.5	114.0	5.2	1.62	0.394	2.01	17.5
EFF	2/21/2017	ND	ND	ND	ND	ND	2.4	ND	ND	ND	ND
INF	3/1/2017	3.0	3.3	49.6	65.0	120.9	5.3	1.54	0.322	1.86	17.0
EFF	3/1/2017	ND	ND	0.24 (J)	ND	0.24 (J)	2.5	ND	ND	ND	ND
INF	3/10/2017	2.9	3.0	40.3	59.1	105.3	5.8	1.09	0.444	1.53	21.0
EFF	3/10/2017	0.28 (J)	ND	0.58 (J)	1.2	2.06 (J)	2.5	0.123	ND	0.123	ND
INF	4/4/2017	2.1	4.7	53	187	246.8	6.8	2.07	0.708	2.778	24.9
EFF	4/4/2017	0.31 (J)	ND	0.51 (J)	2.8	3.62 (J)	3.9	0.113	ND	0.113	ND
INF	4/11/2017	2.3	6.2	59.2	168	235.7	8.1	1.63	1.140	2.770	31.8
EFF	4/11/2017	0.55	0.37 (J)	0.95 (J)	4.9	6.77 (J)	3.4	ND	0.114	0.114	ND
INF	5/3/2017	2.0	2.6	43.7	114	162.3	6.2	1.53	0.905	2.435	34.0
EFF	5/3/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	5/16/2017	1.6	2.2	31.6	107	142.4	6.3	1.09	0.813	1.903	34.3
EFF	5/16/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	6/1/2017	2.5	4.0	50.5	202	259.0	5.9	1.95	1.03	2.98	47.1
EFF	6/1/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	6/8/2017	2.7	6.0	76	440	524.7	5.1	3.34	1.84	5.18	72.5
EFF	6/8/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	7/11/2017	1.4	2.8	29.6	159	192.8	4.5	0.857	1.63	2.49	41.4
EFF	7/11/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	7/20/2017	1.4	2.8	31.3	167	202.5	4.2	1.23	1.47	2.70	58.5
EFF	7/20/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9
INF	8/10/2017	1.8	3.2	30.6	129	164.6	4.8	1.06	0.991	2.051	33.8
EFF	8/10/2017	ND	ND	ND	ND	ND	2.2	ND	ND	ND	ND
INF	8/18/2017	0.7	1.4	11.9	47.3	61.3	3.4	0.39	0.64	1.02	23.5
EFF	8/18/2017	ND	ND	ND	ND	ND	1.9	ND	ND	ND	ND
INF	9/7/2017	2.5	4.6	42.6	238	287.7	ND	1.97	2.19	4.16	82.5
EFF	9/7/2017	ND	1.4	0.38 (J)	2.4	4.18 (J)	243.0	ND	ND	ND	ND
INF	9/18/2017	3.6	6.5	57.0	167	234.1	4.2	1.23	1.47	2.70	68.9
EFF	9/18/2017	ND	ND	ND	ND	ND	2.4	ND	ND	ND	ND
INF	10/3/2017	3.4	5.5	44.2	157	210.1	3.7	1.82	1.22	3.04	64.3
EFF	10/3/2017	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND
INF	10/17/2017	2.3	3.5	31.4	95.2	132.4	3.9	1.24	0.755	2.00	34.8
EFF	10/17/2017	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND
INF	11/2/2017	2.7	3.0	19.3	86.1	111.1	5.9	1.05	2.780	3.83	24.9
EFF	11/2/2017	ND	ND	ND	ND	ND	2.0	ND	ND	ND	ND
INF	11/9/2017	1.4	1.5	10.3	47.1	60.3	4.4	0.643	1.20	1.84	13.4
EFF	11/9/2017	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND
INF	12/8/2017	2.9	3.3	42.1	75.2	123.5	5.4	1.18	1.04	2.22	33.8
EFF	12/8/2017	ND	ND	ND	0.22 (J)	0.22 (J)	2.3	ND	ND	ND	ND
INF	12/21/2017	3.4	3.3	33.0	54.4	94.1	5.7	0.871	4.72	5.59	29.0
EFF	12/21/2017	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND
INF	1/11/2018	1.1	0.98 (J)	9.3	17.2	28.6 (J)	5.2	0.315	1.72	2.035	17.5
EFF	1/11/2018	ND	ND	0.24 (J)	0.42 (J)	0.66 (J)	2.7	ND	0.0893	0.0893	ND
	NPDES Permit Limits*	**5**	**NL**	**NL**	**NL**	**100**	**NL**	**NL**	**NL**	**15**	**NL**

TABLE 1
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INF	1/22/2018	2.5	2.2	22.3	32.2	59.2	5.2	0.358	1.48	1.838	15.2
EFF	1/22/2018	ND	ND	ND	ND	ND	2.2	ND	0.133	0.133	ND
INF	2/7/2018	2.0	2.1	18.7	33.1	55.9	5.8	0.656	1.22	1.876	14.3
EFF	2/7/2018	ND	ND	ND	ND	ND	2.0	ND	ND	ND	ND
INF	2/14/2018	1.3	2.5	17.1	44.9	65.8	6.3	0.731	1.05	1.781	8.4
EFF	2/14/2018	ND	ND	0.33 (J)	0.99 (J)	1.32 (J)	3.3	ND	0.108	0.108	ND
INF	3/7/2018	2.1	7.8	49.3	137	196.2	6.3	0.970	2.49	3.460	22.9
EFF	3/7/2018	ND	ND	0.33 (J)	1.2	1.5 (J)	3.5	ND	ND	ND	ND
INF	3/14/2018	2.3	7.6	55.2	149	214.1	5.8	1.29	1.01	2.30	28.3
EFF	3/14/2018	0.29 (J)	0.58 (J)	0.63 (J)	15.4	16.9 (J)	3.6	0.196 (J)	0.173	0.369 (J)	ND
INF	4/3/2018	2.3	6.3	59.2	162	230	6.3	1.35	0.755	2.11	27.8
EFF	4/3/2018	0.19 (J)	ND	0.60 (J)	2.5	3.3 (J)	3.0	0.110 (J)	0.0990	0.209 (J)	ND
INF	4/11/2018	2.5	5.8	70.6	188	267	5.4	1.41	0.933	2.34	31.1
EFF	4/11/2018	0.53	1.1	5.5	31.4	38.5	3.1	0.301	0.304	0.605	2.5 (J)
INF	5/2/2018	1.7	4.9	51.1	190	248	4.9	1.84	0.889	2.73	40.8
EFF	5/2/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	5/9/2018	2.8	7.6	80.5	302	393	6.8	2.15	1.46	3.61	50.6
EFF	5/9/2018	ND	ND	ND	ND	ND	ND	ND	0.179	0.179	ND
INF	6/6/2018	2.1	7.3	48.2	241	299	4.8	1.54	0.907	2.45	35.2
EFF	6/6/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	6/13/2018	2.0	6.8	39.5	214	262	4.4	1.47	0.728	2.20	34.3
EFF	6/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	7/3/2018	2.4	9.2	47.9	256	316	4.5	1.81	0.913	2.72	43.2
EFF	7/3/2018	ND	ND	ND	0.29 (J)	0.29 (J)	0.39 (J)	ND	ND	ND	ND
INF	7/12/2018	3.0	9.5	50.9	271	334	5.2	1.82	0.728	2.55	55.6
EFF	7/12/2018	ND	ND	ND	ND	ND	0.41 (J)	ND	ND	ND	ND
INF	8/1/2018	3.0	6.6	36.2	181	227	4.6	1.58	ND	1.58	35.0
EFF	8/1/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	8/8/2018	3.9	9.0	52.8	234	300	5.6	1.81	0.851	2.66	47.2
EFF	8/8/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	9/4/2018	4.6	8.0	59.1	191	263	4.5	1.88	0.716	2.60	42.9
EFF	9/4/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	9/12/2018	4.0	5.8	43.0	181	234	4.5	1.61	0.315	1.93	34.7
EFF	9/12/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INF	10/3/2018	4.1	6.7	39.6	263	313	3.8	1.88	0.974	2.85	55.5
EFF	10/3/2018	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND	0.65 (J)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 0.98)
INF	10/10/2018	4.0	6.3	44.6	263	317.9	3.7	1.69	0.677	2.37	52.7
EFF	10/10/2018	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND	0.95 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 0.98)
INF	11/7/2018	3.9	6.2	45.4	210	265.5	3.2	1.23	0.614	1.84	36.5
EFF	11/7/2018	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND	0.65 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 0.98)
INF	11/14/2018	2.6	3.9	25.3	158	189.8	2.4	0.850	0.672	1.522	26.3
EFF	11/14/2018	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND	0.60 (J)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 0.98)
INF	12/4/2018	5.7	11.8	90.7	363	471.2	4.2	2.51	1.63	4.14	34.7
EFF	12/4/2018	ND (< 0.43)	ND (< 0.53)	1.3	5.0	6.3	0.73 (J)	ND (< 0.10)	ND (< 0.048)	ND (< 0.15)	ND (< 0.98)
INF	12/12/2018	5.7	12.3	101	437	556.0	4.8	2.05	1.12	3.17	76.9
EFF	12/12/2018	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND	1.1	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 0.98)
INF	1/3/2019	5.1	9.9	55.4	377	447	3.9	1.94	0.707	2.65	58.1
EFF	1/3/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.98 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 0.98)
	NPDES Permit Limits*	**5**	**NL**	**NL**	**NL**	**100**	**NL**	**NL**	**NL**	**15**	**NL**

TABLE 1
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INF	1/10/2019	4.8	12.3	119	439	575	3.5	2.25	1.32	3.57	76.9
EFF	1/10/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.94 (J)	ND (< 0.10)	ND (< 0.052)	ND (< 0.15)	ND (< 0.98)
INF	2/6/2019	4.1	9.9	96.2	374	484	3.3	2.19	0.871	3.06	75.0
EFF	2/6/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.80 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 0.98)
INF	2/15/2019	2.9	6.7	61.0	280	351	2.9	2.25	0.963	3.21	39.3
EFF	2/15/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	4.5	< 6.1	1.0	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 0.98)
INF	3/6/2019	1.9	2.5	9.5	230	244	2.9	1.56	0.992	2.55	9.8
EFF	3/6/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	1.7	< 3.3	1.0	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 0.98)
INF	3/13/2019	3.5	7.4	44.8	350	406	3.5	2.36	1.18	3.54	43.3
EFF	3/13/2019	ND (< 0.43)	ND (< 0.53)	0.93 (J)	8.3	< 10.2	1.1	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 0.98)
INF	4/3/2019	4.5	13.8	112	419	549	2.5	3.29	1.08	4.37	76.7
EFF	4/3/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	1.4	< 3.0	0.97 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 0.98)
INF	4/17/2019	4.9	13.9	118	532	669	3.0	3.13	0.972	4.10	67.4
EFF	4/17/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 0.98)
INF	5/1/2019	4.8	12.4	102	492	611	2.7	3.04	1.50	4.54	63.6
EFF	5/1/2019	ND (< 0.43)	0.80 (J)	ND (< 0.60)	ND (< 0.59)	< 2.42	ND (< 0.51)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	5/8/2019	6.3	17.1	142	499	664	3.5	3.17	1.11	4.28	87.6
EFF	5/8/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	6/5/2019	4.4	11.2	91.9	455	563	3.3	2.60	1.06	3.66	69.3
EFF	6/5/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	0.63 (J)	< 2.19	ND (< 0.51)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	6/12/2019	4.8	12.3	100	456	573	2.9	2.94	1.14	4.08	77.0
EFF	6/12/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	3.0	4.6	ND (< 0.51)	ND (< 0.042)	ND (< 0.050)	ND (< 0.092)	ND (< 0.98)
INF	7/10/2019	4.0	7.7	48.9	328	389	2.7	1.88	0.92	2.80	57.5
EFF	7/10/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	7/19/2019	3.2	6.1	49.0	270	328.3	2.3	1.81	0.77	2.58	50.3
EFF	7/19/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	8/5/2019	3.4	5.3	24.6	203	236.3	0.68 (J)	1.77	0.81	2.58	57.6
EFF	8/5/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.68 (J)	ND (< 0.042)	0.109	0.151	ND (< 0.98)
INF	8/13/2019	2.9	3.1	10.5	90.6	107.1	2.9	1.10	0.693	1.79	27.9
EFF	8/13/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.62 (J)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	9/4/2019	2.6	1.9	7.3	32.2	44.0	3.2	0.720	0.356	1.08	17.0
EFF	9/4/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	9/11/2019	3.1	2.2	26.6	35.9	67.8	2.9	0.895	0.435	1.330	11.7
EFF	9/11/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.74 (J)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	10/1/2019	4.1	4.3	10.6	71.9	90.9	2.6	1.25	0.625	1.875	29.4
EFF	10/1/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.84 (J)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	10/9/2019	3.6	2.9	19.1	57.0	82.6	2.6	1.24	0.386	1.626	23.2
EFF	10/9/2019	0.48 (J)	ND (< 0.53)	ND (< 0.60)	1.0	<2.61	0.85 (J)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	11/14/2019	2.7	3.6	37.0	104	147	3.4	1.47	0.628	2.098	45.1
EFF	11/14/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.59 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	11/19/2019	2.9	4.2	43.2	117	167	3.4	1.33	0.646	1.976	47.5
EFF	11/19/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	0.79 (J)	<2.35	0.78 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	12/4/2019	1.4	2.2	26.4	56.4	86.4	2.0	0.695	0.158	0.853	16.9
EFF	12/4/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.67 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	12/11/2019	1.7	2.6	31.5	62.4	98.2	2.0	0.778	0.334	1.112	19.4
EFF	12/11/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.62 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
	NPDES Permit Limits*	**5**	**NL**	**NL**	**NL**	**100**	**NL**	**NL**	**NL**	**15**	**NL**

TABLE 1
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INF	1/2/2020	2.5	4.4	59.3	108	174	3.0	1.44	0.548	1.99	24.7
EFF	1/2/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	0.87 (J)	< 2.43	0.54 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	1/8/2020	1.9	3.2	39.8	74.0	118.9	2.4	0.896	0.307	1.203	14.1
EFF	1/8/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	0.96 (J)	< 2.52	0.78 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	2/12/2020	0.67	ND (< 0.53)	ND (< 0.60)	12.1	< 13.9	2.7	0.384	0.213	0.597	ND (< 2.5)
EFF	2/12/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.96 (J)	0.103 (J)	ND (< 0.053)	< 0.156	ND (< 2.5)
INF	2/18/2020	0.96	1.1	0.81 (J)	37.9	40.8 (J)	2.6	0.631	0.348	0.979	6.7
EFF	2/18/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	3/4/2020	1.2	0.96 (J)	ND (< 0.60)	50.2	< 53.0	2.8	0.716	ND (0.053)	< 0.769	7.6
EFF	3/4/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.79 (J)	ND (< 0.10)	0.201	< 0.30	ND (< 2.5)
INF	3/11/2020	1.0	1.1	ND (< 0.60)	32.0	< 34.7	2.6	0.496	0.502	0.998	2.9 (J)
EFF	3/11/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.94 (J)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
INF	4/1/2020	1.8	2.4	0.61 (J)	56.5	61.3 (J)	3.7	0.680	0.378	1.058	7.4
EFF	4/1/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.66 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	4/8/2020	2.0	2.8	0.81 (J)	48.0	53.6 (J)	3.7	0.801	0.571	1.372	10.3
EFF	4/8/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.63 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	5/6/2020	1.5	1.4	3.2	39.0	45.1	2.8	0.754	0.380	1.134	8.0
EFF	5/6/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	5/13/2020	2.0	3.9	4.6	76.4	86.9	2.7	0.978	ND (< 0.053)	< 1.031	17.3
EFF	5/13/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF**	6/3/2020	2.6	9.3	98.1	98.9	208.9	2.2	ND (< 0.10)	0.732	< 0.83	34.2
EFF	6/3/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	6/10/2020	2.4	4.4	9.5	37.0	53.3	3.0	0.924	0.694	1.618	15.9
EFF	6/10/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	7/9/2020	1.1	0.76 (J)	0.91 (J)	16.4	19.2 (J)	1.8	0.458	0.182	0.640	3.1 (J)
EFF	7/9/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	7/15/2020	1.9	2.1	5.5	21.7	31.2	2.1	0.747	0.453	1.200	7.8
EFF	7/15/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	8/5/2020	1.0	2.0	18.2	84.1	105.3	1.9	0.644	0.505	1.149	19.7
EFF	8/5/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.052)	ND (< 0.15)	ND (< 2.5)
INF	8/12/2020	1.2	1.8	16.6	68.8	88.4	2.3	0.688	0.588	1.276	32.2
EFF	8/12/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	9/9/2020	1.3	1.6	2.3	71.3	76.5	2.0	0.618	0.311	0.929	9.3
EFF	9/9/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	9/16/2020	1.4	2.6	18.0	116	138	2.1	1.07	0.536	1.61	28.9
EFF	9/16/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	10/7/2020	2.2	3.6	41.8	116	164	2.1	1.49	0.640	2.13	38.6
EFF	10/7/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	10/14/2020	2.0	4.1	50.0	146	202	2.1	1.35	0.793	2.14	43.1
EFF	10/14/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	11/4/2020	1.3	1.8	15.8	103	122	2.1	0.964	0.580	1.544	23.4
EFF	11/4/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	11/11/2020	1.8	3.4	22.4	170	198	2.0	1.25	0.529	1.78	35.1
EFF	11/11/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	12/2/2020	1.1	1.4	12.3	92.3	107.1	2.3	0.838	0.613	1.45	18.8
EFF	12/2/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
	NPDES Permit Limits*	**5**	**NL**	**NL**	**NL**	**100**	**NL**	**NL**	**NL**	**15**	**NL**

TABLE 1
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INF	12/10/2020	1.3	2.2	17.5	108	129	2.0	0.944	0.756	1.700	24.5
EFF	12/10/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
INF	1/21/2021	1.1	2.9	29.5	108	141.5	2.0	1.03	0.578	1.61	41.5
EFF	1/21/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	1/28/2021	1.2	3.0	32.8	114	151	2.1	0.983	0.562	1.545	35.8
EFF	1/28/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	2/3/2021	0.92	2.4	28.9	90.4	122.6	1.9	0.866	0.439	1.305	21.7
EFF	2/3/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	2/9/2021	1.9	4.1	55.4	144	205.4	2.5	1.30	0.398	1.70	33.0
EFF	2/9/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	3/3/2021	1.2	2.8	33.4	98	135.8	1.9	1.15	0.620	1.77	20.0
EFF	3/3/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.065)	0.308	ND (< 0.15)	ND (< 2.5)
INF	3/8/2021	1.6	3.8	34.5	143	182.9	2.1	1.37	0.550	1.92	28.5
EFF	3/8/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	3.0	< 4.56	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	4/1/2021	1.5	3.8	34.4	131	171	1.8	1.33	0.564	1.89	25.3
EFF	4/1/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	1.8	< 3.4	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	4/7/2021	1.5	4.4	15.4	184	205	1.9	1.46	0.629	2.09	26.4
EFF	4/7/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	9.7	< 11.3	ND (< 0.51)	0.122 (J)	ND (< 0.052)	< 0.174	ND (< 2.5)
INF	5/5/2021	1.8	6.2	36.8	127	172	2.3	1.33	0.746	2.08	29.6
EFF	5/5/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	5/12/2021	1.9	5.3	38.7	97.5	143.4	2.7	1.28	0.574	1.85	20.6
EFF	5/12/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	6/3/2021	1.5	3.2	29.4	114	148	2.0	1.06	0.709	1.77	23.0
EFF	6/3/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
INF	6/10/2021	1.7	3.4	37.8	118	161	2.2	1.31	0.831	2.14	29.4
EFF	6/10/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.052)	ND (< 0.15)	ND (< 2.5)
INF	7/7/2021	1.5	3.2	28.4	128	161	2.0	0.560	0.549	1.109	34.1
EFF	7/7/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	2.2	3.8	ND (< 0.51)	ND (< 0.250)	ND (< 0.050)	ND (< 0.300)	ND (< 2.5)
INF	7/13/2021	1.1	2.1	16.2	93.4	112.8	1.8	0.720	0.575	1.295	20.4
EFF	7/13/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.250)	ND (< 0.053)	ND (< 0.303)	ND (< 2.5)
INF	8/11/2021	1.4	2.3	20.3	98.1	122.1	1.9	0.826	0.646	1.472	32.3
EFF	8/11/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
INF	8/18/2021	0.99	1.4	15.3	53.0	70.7	1.4	0.550	0.304	0.854	19.2
EFF	8/18/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	0.86 (J)	< 2.42	ND (< 0.51)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
INF	9/1/2021	1.5	2.2	12.7	91.5	107.9	2.0	0.982	0.560	1.542	21.4
EFF	9/1/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	1.60	3.16	ND (< 0.51)	0.101 (J)	ND (< 0.053)	< 0.154	ND (< 2.5)
INF	9/8/2021	1.5	2.0	18.7	69.5	91.7	2.1	0.741	0.566	1.307	24.5
EFF	9/8/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
INF	10/20/2021	2.2	3.4	41.5	87.8	134.9	2.2	1.18	0.642	1.82	36.2
EFF	10/20/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	10/27/2021	2.3	2.4	17.3	82.4	104.4	1.7	1.18	0.778	1.96	21.8
EFF	10/27/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.062)	ND (< 0.16)	ND (< 2.5)
INF	11/4/2021	1.9	2.4	30.7	68.9	103.9	2.4	1.120	0.693	1.813	31.5
EFF	11/4/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.055)	ND (< 0.16)	ND (< 2.5)
INF	11/9/2021	1.1	1.4	14.9	36.5	53.9	1.5	0.582	0.117	0.699	18.1
EFF	11/9/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.66 (J)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
INF	12/1/2021	2.8	3.3	42.5	67.2	115.8	2.9	1.72	2.72	4.44	36.9
EFF	12/1/2021	0.64	0.71 (J)	10	15.8	27 (J)	1.2	0.434	0.806	1.240	6.7
INF	12/8/2021	1.4	1.9	24.3	36.3	63.9	1.7	0.929	0.528	1.457	16.1
EFF	12/8/2021	ND (< 0.43)	ND (< 0.53)	5.5	8.8	< 15.3	0.95 (J)	0.299	0.206	0.505	ND (< 2.5)
	NPDES Permit Limits*	**5**	**NL**	**NL**	**NL**	**100**	**NL**	**NL**	**NL**	**15**	**NL**

TABLE 1
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INF	1/12/2022	1.2	0.83 (J)	8.0	7.6	17.6 (J)	1.7	0.776	0.427	1.203	6.8
EFF	1/12/2022	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.040)	ND (< 0.14)	ND (< 2.5)
INF	1/19/2022	1.1	0.73 (J)	6.2	8.3	16.3 (J)	3.1	0.810	0.374	1.184	9.4
EFF	1/19/2022	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.54 (J)	ND (< 0.10)	0.110	< 0.21	ND (< 2.5)
INF	2/2/2022	1.1	0.86 (J)	9.8	8.3	20.1 (J)	2.2	0.598	0.304	0.902	8.4
EFF	2/2/2022	ND (< 0.43)	ND (< 0.53)	1.1	1.3	< 3.4	0.83 (J)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
INF	2/10/2022	1.5	0.97 (J)	12.2	8.8	23.5 (J)	3.0	0.945	0.607	1.552	11.5
EFF	2/10/2022	0.59	ND (< 0.53)	4.5	3.4	< 9.0	1.7	0.373	0.347	0.720	4.3 (J)
INF	3/2/2022	1.9	1.1	14.4	0.96 (J)	18.4 (J)	2.7	0.838	0.707	1.545	13.4
EFF	3/2/2022	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
INF	3/10/2022	1.6	1.1	15.4	10	28	2.6	0.700	0.372	1.072	10.2
EFF	3/10/2022	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
INF	4/6/2022	1.1	0.70 (J)	8.8	10	21 (J)	2.2	0.538	0.390	0.928	6.1
EFF	4/6/2022	ND (< 0.43)	ND (< 0.53)	1.2	1.4	<3.56	0.85 (J)	ND (< 0.11)	0.302	<0.41	ND (<2.5)
INF	4/12/2022	1.2	0.96 (J)	16.8	18.0	40.0 (J)	2.4	0.558	0.323	0.881	8.7
EFF	4/12/2022	ND (<0.43)	ND (< 0.53)	2.6	2.9	<6.5	0.89 (J)	ND (< 0.11)	ND (< 0.050)	ND (< 0.16)	ND (<2.5)
INF	5/5/2022	2.4	2.1	33.5	46.0	84.0	3.2	1.39	0.584	1.97	14.3
EFF	5/5/2022	0.84	0.80 (J)	10.9	16.8	29.3 (J)	1.7	0.512	0.220	0.732	4.2 (J)
INF	5/11/2022	1.7	2.4	33.6	65.5	103.2	3.1	1.19	0.501	1.69	14.3
EFF	5/11/2022	0.47 (J)	ND (< 0.53)	6.5	15.8	<23.3	1.5	0.359	ND (< 0.050)	<0.409	2.7
INF	6/7/2022	1.2	1.6	11.4	41.5	55.7	2.6	0.776	0.330	1.11	8.7
EFF	6/7/2022	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.11)	ND (< 0.050)	ND (< 0.16)	ND (< 2.5)
INF	6/16/2022	1.1	1.1	6.8	25	34.4	2.5	0.467	0.240	0.707	5.2
EFF	6/16/2022	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.11)	ND (< 0.053)	ND (< 0.16)	ND (< 2.5)
INF	7/6/2022	1.1	1.0	2.4	14.4	18.9	2.3	0.29	0.339	0.63	5.9
EFF	7/6/2022	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	NA	ND (< 0.053)	ND (< 0.053)	ND (< 2.5)
INF	7/26/2022	1.7	1.4	9.4	8.2	20.7	2.7	0.501	0.325	0.826	7.1
EFF	7/26/2022	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.11)	ND (< 0.050)	ND (< 0.16)	ND (< 2.5)
INF	8/3/2022	1.7	1.3	13.7	6.1	22.8	2.3	0.463	0.462	0.925	6.7
EFF	8/3/2022	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.11)	ND (< 0.059)	ND (< 0.17)	ND (< 2.5)
INF	8/9/2022	1.4	ND (< 0.53)	1.7	3.8	< 7.4	2.1	0.331	0.443	0.774	4.0 (J)
EFF	8/9/2022	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.11)	ND (< 0.057)	ND (< 0.17)	ND (< 2.5)
INF	9/7/2022	1.8	2.9	21.3	46.6	72.6	2.6	1.18	0.661	1.84	23.9
EFF	9/7/2022	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.11)	ND (< 0.053)	ND (< 0.16)	ND (< 2.5)
INF	9/14/2022	1.1	1.6	10.0	28.0	40.7	2.4	0.671	0.408	1.079	9.8
EFF	9/14/2022	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.050)	ND (< 0.16)	ND (< 2.5)
INF	10/6/2022	1.6	1.7	15.4	23.3	42.0	2.5	0.661	0.444	1.105	10.6
EFF	10/6/2022	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.053)	ND (< 0.16)	ND (< 2.5)
INF	10/13/2022	0.79	0.93 (J)	6.2	10.7	18.6 (J)	2.2	0.403	0.325	0.728	3.6 (J)
EFF	10/13/2022	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.053)	ND (< 0.16)	ND (< 2.5)
INF	11/9/2022	1.0	1.2	9.7	13.3	25.2	2.1	0.643	0.266	0.909	11.1
EFF	11/9/2022	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.058)	ND (< 0.17)	ND (< 2.5)
INF	11/21/2022	1.1	1.3	9.8	13.3	25.5	2.3	0.561	0.504	1.065	8.6
EFF	11/21/2022	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.053)	ND (< 0.16)	ND (< 2.5)
INF	12/15/2022	ND (< 0.43)	ND (< 0.49)	0.95 (J)	1.8	< 3.7	1.4	0.260	ND (< 0.053)	< 0.313	ND (< 2.5)
EFF	12/15/2022	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	0.78 (J)	ND (< 0.11)	ND (< 0.053)	ND (< 0.16)	ND (< 2.5)
INF	12/20/2022	0.64	0.82 (J)	8.9	8.0	18.4 (J)	2.3	0.494	0.551	1.045	5.8
EFF	12/20/2022	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	0.86 (J)	ND (< 0.11)	ND (< 0.053)	ND (< 0.16)	ND (< 2.5)
INF	1/5/2023	1.1	1.8	25.0	24.8	52.7	3.4	0.545	0.684	1.229	9.4
EFF	1/5/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.6	ND (< 0.11)	ND (< 0.053)	ND (< 0.16)	ND (< 2.5)
	NPDES Permit Limits*	**5**	**NL**	**NL**	**NL**	**100**	**NL**	**NL**	**NL**	**15**	**NL**

TABLE 1
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INF	1/19/2023	1.2	2.1	26.6	31.0	60.9	2.9	0.603	1.46	2.06	8.5
EFF	1/19/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.7	ND (< 0.11)	0.400	< 0.51	ND (< 2.5)
INF	2/7/2023	0.91	1.6	22.9	30.0	55.4	2.6	0.580	0.373	0.953	10.8
EFF	2/7/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.7	ND (< 0.11)	ND (< 0.064)	ND (< 0.17)	ND (< 2.5)
INF	2/14/2023	1.1	1.8	21.0	37.9	61.8	2.8	0.622	0.545	1.167	17.5
EFF	2/14/2023	ND (< 0.43)	ND (< 0.49)	0.90 (J)	2.5	< 4.3 (J)	2.8	ND (< 0.11)	ND (< 0.053)	ND (< 0.16)	ND (< 2.5)
INF	3/15/2023	0.65	1.4	24.2	25.4	51.7	1.8	0.436	0.565	1.001	8.5
EFF	3/15/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.063)	ND (< 0.17)	ND (< 2.5)
INF	3/22/2023	1.5	3.1	53.9	60.3	118.8	2.9	0.896	0.395	1.291	25.2
EFF	3/22/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.051)	ND (< 0.16)	ND (< 2.5)
INF	4/6/2023	0.99	2.0	36.4	35.4	74.8	2.6	0.640	0.391	1.031	18.3
EFF	4/6/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.3	ND (< 0.11)	ND (< 0.052)	ND (< 0.16)	ND (< 2.5)
INF	4/12/2023	1.1	1.9	31.3	36.9	71.2	2.5	0.682	0.533	1.215	22.2
EFF	4/12/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.053)	ND (< 0.16)	ND (< 2.5)
INF	5/11/2023	1.0	1.7	23.7	25.7	52.1	2.6	0.489	0.591	1.080	6.8
EFF	5/11/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	0.91 (J)	ND (< 0.11)	ND (< 0.064)	ND (< 0.17)	ND (< 2.5)
INF	5/16/2023	1.1	1.8	16.5	27.9	47.3	2.6	0.601	0.446	1.047	ND (< 2.5)
EFF	5/16/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	0.97 (J)	ND (< 0.11)	0.168	< 0.278	ND (< 2.5)
INF	6/21/2023	ND (< 0.43)	ND (< 0.49)	0.91 (J)	1.1	< 2.9	ND (< 0.51)	ND (< 0.11)	0.120	< 0.23	ND (< 2.5)
EFF	6/21/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	0.76 (J)	ND (< 0.11)	ND (< 0.053)	ND (< 0.16)	ND (< 2.5)
INF	6/28/2023	0.64	ND (< 0.49)	3.6	3.9	< 8.6	2.3	0.468	0.176	0.644	ND (< 4.4)
EFF	6/28/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.1	ND (< 0.11)	ND (< 0.053)	ND (< 0.16)	ND (< 4.4)
INF	7/5/2023	0.69	0.72 (J)	6.7	7.2	15.3 (J)	2.5	0.529	0.367	0.896	6.3
EFF	7/5/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.3	ND (< 0.11)	ND (< 0.059)	ND (< 0.17)	ND (< 4.4)
INF	7/11/2023	0.72	0.85 (J)	9.4	9.0	20.0 (J)	2.5	0.422	0.474	0.896	8.1
EFF	7/11/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.4	ND (< 0.11)	0.611	< 0.72	ND (< 4.4)
INF	8/2/2023	0.80	1.1	11.3	12.6	25.8	2.2	0.459	0.371	0.830	10.3
EFF	8/2/2023	ND (< 0.43)	ND (< 0.49)	1.7	2.4	< 5.0	1.8	ND (< 0.11)	0.130	< 0.24	ND (< 4.4)
INF	8/22/2023	0.69	0.97 (J)	10.1	18.6	30.4 (J)	2.0	0.316	0.340	0.656	15.0
EFF	8/22/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.064)	ND (< 0.17)	ND (< 4.4)
INF	9/7/2023	0.45 (J)	0.71 (J)	8.2	13.3	22.7 (J)	1.8	0.393	0.249	0.642	9.8
EFF	9/7/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.038)	ND (< 0.15)	ND (< 4.4)
INF	9/13/2023	0.56	0.50 (J)	4.2	10.9	16.2 (J)	1.9	0.365	0.288	0.653	5.9
EFF	9/13/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.1	ND (< 0.11)	ND (< 0.038)	ND (< 0.15)	ND (< 4.4)
INF	10/4/2023	1.0	1.6	17.0	27.4	47.0	2.5	0.756	0.379	1.135	18.2
EFF	10/4/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.5	ND (< 0.11)	ND (< 0.038)	ND (< 0.15)	ND (< 4.4)
INF	10/19/2023	0.69	1.3	11.7	18.9	32.6	1.8	0.628	0.260	0.888	15.0
EFF	10/19/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.1	ND (< 0.11)	ND (< 0.038)	ND (< 0.15)	ND (< 4.4)
INF	11/8/2023	0.69	1.0	12.6	14.6	28.9	2.1	0.514	0.383	0.897	15.7
EFF	11/8/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.3	ND (< 0.11)	ND (< 0.038)	ND (< 0.15)	ND (< 4.4)
INF	11/14/2023	0.52	0.73 (J)	8.1	10.9	20.3 (J)	1.7	0.437	0.356	0.793	10.6
EFF	11/14/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.5	ND (< 0.11)	ND (< 0.038)	ND (< 0.15)	ND (< 4.4)
INF	12/5/2023	0.90	0.88	9.1	11.0	21.9	2.3	0.546	0.318	0.864	9.4
EFF	12/5/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.038)	ND (< 0.15)	ND (< 4.4)
INF	12/20/2023	0.55	0.63 (J)	7.3	9.1	17.6 (J)	2.4	0.494	0.196	0.690	7.4
EFF	12/20/2023	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.039)	ND (< 0.15)	ND (< 4.4)
INF	1/2/2024	0.55	1.1	14.3	15.7	31.7	2.1	0.617	0.440	1.057	11.8
EFF	1/2/2024	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.1	ND (< 0.11)	ND (< 0.038)	ND (< 0.15)	ND (< 4.4)
INF	1/10/2024	0.46 (J)	0.75 (J)	8.1	13.4	22.7 (J)	1.9	0.514	0.275	0.789	6.2
EFF	1/10/2024	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.0	ND (< 0.11)	ND (< 0.038)	ND (< 0.15)	ND (< 4.4)
	NPDES Permit Limits*	**5**	**NL**	**NL**	**NL**	**100**	**NL**	**NL**	**NL**	**15**	**NL**

TABLE 1
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INF	2/8/2024	0.74	2.2	24.6	72.3	99.8	1.7	0.928	0.660	1.588	26.9
EFF	2/8/2024	ND (< 0.43)	0.73 (J)	4.0	26.5	31.7 (J)	1.9	0.363	0.309	0.672	5.4
INF	2/14/2024	0.72	1.2	12.8	58.1	72.8	2.0	0.860	0.467	1.327	11.6
EFF	2/14/2024	ND (< 0.43)	0.60 (J)	4.9	29.4	35.3 (J)	1.9	0.462	0.278	0.740	ND (< 4.4)
INF	3/7/2024	0.97	2.7	27.5	94.5	125.7	2.1	1.07	0.351	1.42	25.3
EFF	3/7/2024	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.039)	ND (< 0.15)	ND (< 4.4)
INF	3/13/2024	1.2	3.4	34.5	114	153	1.8	1.36	0.415	1.78	24.1
EFF	3/13/2024	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.038)	ND (< 0.15)	ND (< 4.4)
INF	4/4/2024	0.87	2.8	29.9	102	136	1.5	1.28	0.402	1.68	19.0
EFF	4/4/2024	ND (< 0.43)	0.83 (J)	4.0	26.4	< 31.7	1.1	0.342	0.206	0.548	ND (< 4.4)
INF	4/24/2024	1.3	5.7	64.1	199	270	2.1	1.98	1.20	3.18	38.7
EFF	4/24/2024	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.038)	ND (< 0.15)	ND (< 4.4)
INF	5/2/2024	1.6	6.6	66.9	192	267	2.2	1.83	0.995	2.83	40.9
EFF	5/2/2024	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.040)	ND (< 0.15)	ND (< 4.4)
INF	5/30/2024	1.3	6.5	80.1	152	240	1.6	1.93	0.948	2.88	38.2
EFF	5/30/2024	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	0.193	< 0.30	ND (< 4.4)
INF	6/5/2024	1.4	7.3	96.7	160	265	1.9	2.00	0.841	2.84	48.5
EFF	6/5/2024	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.038)	ND (< 0.15)	ND (< 4.4)
INF	6/12/2024	1.0	3.4	36.4	120	161	1.5	1.43	0.771	2.20	29.5
EFF	6/12/2024	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.038)	ND (< 0.15)	ND (< 4.4)
INF	7/10/2024	1.1	3.4	28.9	98.9	132.3	2.0	1.46	0.604	2.06	ND (< 4.4)
EFF	7/10/2024	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	0.81 (J)	ND (< 0.11)	ND (< 0.038)	ND (< 0.15)	ND (< 4.4)
INF	7/17/2024	1.3	4.6	41.8	118	166	1.8	1.82	0.839	2.66	36.0
EFF	7/17/2024	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.1	ND (< 0.11)	ND (< 0.039)	ND (< 0.15)	ND (< 4.4)
INF	8/21/2024	0.79	2.0	21.1	40.8	64.7	2.4	0.910	0.683	1.593	19.6
EFF	8/21/2024	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.038)	ND (< 0.15)	ND (< 4.4)
INF	8/28/2024	0.70	2.2	27.2	47.3	77.4	2.1	0.914	0.490	1.404	33.3
EFF	8/28/2024	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	ND (< 0.51)	ND (< 0.11)	ND (< 0.037)	ND (< 0.15)	ND (< 4.4)
INF	9/4/2024	0.81	2.4	25.0	42.2	70.4	2.2	0.942	0.706	1.648	27.9
EFF	9/4/2024	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	0.81 (J)	ND (< 0.11)	ND (< 0.040)	ND (< 0.15)	ND (< 4.4)
INF	9/11/2024	0.80	2.3	23.3	39.9	66.3	1.7	0.932	0.462	1.394	28.0
EFF	9/11/2024	ND (< 0.43)	ND (< 0.49)	ND (< 0.60)	ND (< 0.59)	ND (< 2.11)	1.0	ND (< 0.11)	ND (< 0.039)	ND (< 0.15)	ND (< 4.4)
	NPDES Permit Limits*	**5**	**NL**	**NL**	**NL**	**100**	**NL**	**NL**	**NL**	**15**	**NL**

*Effluent Limitations listed in NPDES Permit # MDG915958
** Due to an anomalous Ethylbenzene concentration, the system was resampled on 6/25/2020.
EFF = Effluent Sample (Post-filtration)
INF = Influent Sample (Pre-filtration)
ND = Constituent Compound Not Detected
NL = No limit listed in NPDES permit
NA = Not Analyzed
(J) = Laboratory-Estimated Value

µg/L = micrograms/Liter
mg/L = milligrams/Liter
MTBE = Methyl-Tertiary-Butyl Ether
Total BTEX = sum of Benzene, Toluene, Ethylbenzene, and Xylenes
TPH = Total Petroleum Hydrocarbons
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
ND (< MDL) = Not Detected above Method Detection Limit

TABLE 2
GROUNDWATER TREATMENT SYSTEM INFLUENT SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
12/22/2014	0.65	5.2	62.1	68.8	136.8	11.8	1.05	0.402	1.452	55.4
1/19/2015	1.1	7.7	77.6	107	193.4	11.8	1.42	0.898	2.32	49.3
1/26/2015	0.48 (J)	4.4	35.2	68.7	108.78	ND	0.973	0.454	1.427	35.1
2/4/2015	1.2	10.9	96.1	173	281.2	12.4	1.70	1.21	2.91	60.1
2/20/2015	0.90	8.7	81.5	167	258	14.5	1.79	0.826	2.62	62.5
3/3/2015	0.77	8.6	71.1	152	232	10.9	1.51	0.573	2.08	47.3
3/30/2015	1.6	15.3	100	352	469	11.5	2.33	0.779	3.11	51.3
4/7/2015	1.9	16.7	143	439	601	12.5	3.52	0.870	4.39	94.1
4/27/2015	1.7	ND	ND	ND	1.7	ND	2.51	1.24	3.75	79.7
5/4/2015	1.4	15.3	117	340	474	11.9	2.02	0.873	2.89	76.6
5/18/2015	1.7	20.9	141	417	581	12.8	3.58	1.17	4.75	71.3
6/2/2015	0.83	8.7	75.3	250	335	6.2	1.45	0.461	1.91	38.2
6/23/2015	1.6	14.7	116	343	475	ND	1.45	0.937	2.39	69.3
7/6/2015	1.7	13.1	109	355	479	11.6	2.20	1.02	3.22	67.4
7/21/2015	1.4	10.4	81.4	278	371	7.0	2.03	0.943	2.97	58.7
8/3/2015	2.3	17.7	125	430	575	12.4	3.08	0.812	3.89	72.9
8/20/2015	1.1	5.9	22.4	81.3	110.7	5.3	0.476	0.206	0.682	3.6 (J)
9/9/2015	3.1	25.5	144	446	619	11.2	3.15	1.27	4.42	50.8
9/22/2015	2.6	14.4	93.4	272	382	8.5	3.16	0.971	4.13	65.8
10/7/2015	3.1	14.7	105	298	421	10.3	2.09	0.290	2.38	58.1
10/13/2015	2.8	11.7	88.8	263	366	10.2	2.82	1.40	4.22	48.0
11/10/2015	2.0	9.1	71.9	177	260	ND	1.98	0.807	2.79	35.7
12/2/2015	1.9	4.3	48.7	106	161	7.3	1.02	0.502	1.52	39.7
12/16/2015	1.8	5.0	57.4	111	175	7.6	1.17	0.527	1.70	51.0
1/6/2016	2.4	7.0	86.8	144	240	7.2	1.90	0.627	2.53	41.2
1/12/2016	1.2	3.7	36.5	83.2	124.6	5.4	1.31	0.376	1.69	21.0
2/3/2016	0.86	3.3	26.6	66.1	96.86	3.2	0.668	0.340	1.008	17.5
2/9/2016	2.6	11.8	96.2	219	330	7.1	1.79	0.665	2.46	49.6
3/3/2016	3.1	12.2	112	367	494	7.6	2.71	0.717	3.43	68.5
3/9/2016	3.1	14.1	125	377	519	6.6	3.03	0.665	3.70	76.7
4/6/2016	4.6	35.1	156	505	701	7.3	3.78	0.947	4.73	75.3
4/12/2016	4.3	29.0	109	439	581	7.4	2.83	0.994	3.82	74.9
5/4/2016	2.7	23.1	123	358	507	5.0	2.43	0.656	3.09	63.2
5/12/2016	3.8	29.2	166	388	587	7.4	3.28	1.40	4.68	76.1
6/8/2016	4.6	33.2	187	466	691	7.3	3.24	0.777	4.02	86.0
6/14/2016	4.9	30.1	164	422	621	7.2	2.94	0.822	3.76	74.4
7/7/2016	3.9	22.1	144	353	523	ND	2.64	1.11	3.75	73.8
7/12/2016	2.2	11.6	68.8	203	286	3.5	1.66	0.957	2.62	42.9
8/3/2016	3.0	7.0	36.3	147	193	4.7	1.28	0.810	2.09	41.4
8/17/2016	3.5	12.4	81.5	273	370	5.2	2.10	0.792	2.89	63.1
9/8/2016	4.3	10.2	88.9	263	366	5.6	2.26	0.802	3.06	61.0
9/14/2016	3.8	8.4	84.9	218	315	4.7	1.92	1.06	2.98	58.2
10/12/2016	4.4	5.0	15.4	79.2	104.0	5.4	1.24	0.704	1.94	6.1
10/18/2016	4.9	6.8	46.0	177	235	4.9	2.72	1.06	3.78	53.7
11/3/2016	6.7	7.4	61.0	164	239	4.4	2.89	1.01	3.90	65.3
11/8/2016	7.5	8.1	28.3	193	237	4.1	3.75	1.36	5.11	83.1
12/7/2016	2.2	1.4	10.4	23.9	37.9	3.5	0.971	0.329	1.300	8.3
12/15/2016	2.9	2.3	24.2	26.7	56.1	4.3	ND (< 0.20)	0.486	< 0.686	18.2
1/4/2017	2.7	5.3	26.6	34.7	69.3	4.7	1.12	0.46	1.58	13.8
1/11/2017	3.5	4.7	44.2	43.1	95.5	5.4	1.12	0.367	1.49	18.8
2/7/2017	3.9	4.3	53.6	59.0	120.8	5.5	1.58	0.464	2.04	21.1
2/21/2017	3.1	3.3	47.1	60.5	114.0	5.2	1.62	0.394	2.01	17.5
3/1/2017	3.0	3.3	49.6	65.0	120.9	5.3	1.54	0.322	1.86	17.0
3/10/2017	2.9	3.0	40.3	59.1	105.3	5.8	1.09	0.444	1.53	21.0
4/4/2017	2.1	4.7	53	187	247	6.8	2.07	0.708	2.78	24.9
4/11/2017	2.3	6.2	59.2	168	236	8.1	1.63	1.140	2.77	31.8
5/3/2017	2.0	2.6	43.7	114	162	6.2	1.53	0.905	2.44	34.0
5/16/2017	1.6	2.2	31.6	107	142	6.3	1.09	0.813	1.90	34.3
6/1/2017	2.5	4.0	50.5	202	259	5.9	1.95	1.03	2.98	47.1
6/8/2017	2.7	6.0	76	440	525	5.1	3.34	1.84	5.18	72.5
7/11/2017	1.4	2.8	29.6	159	193	4.5	0.857	1.63	2.49	41.4
7/20/2017	1.4	2.8	31.3	167	203	4.2	1.23	1.47	2.70	58.5
8/10/2017	1.8	3.2	30.6	129	165	4.8	1.06	0.991	2.05	33.8
8/18/2017	0.7	1.4	11.9	47.3	61.3	3.4	0.39	0.64	1.02	23.5
9/7/2017	2.5	4.6	42.6	238	288	ND	1.97	2.19	4.16	82.5
9/18/2017	3.6	6.5	57.0	167	234	4.2	1.23	1.47	2.70	68.9
10/3/2017	3.4	5.5	44.2	157	210	3.7	1.82	1.22	3.04	64.3
10/17/2017	2.3	3.5	31.4	95.2	132.4	3.9	1.24	0.755	2.00	34.8
11/2/2017	2.7	3.0	19.3	86.1	111.1	5.9	1.05	2.780	3.83	24.9
11/9/2017	1.4	1.5	10.3	47.1	60.3	4.4	0.643	1.20	1.84	13.4
12/8/2017	2.9	3.3	42.1	75.2	123.5	5.4	1.18	1.04	2.22	33.8
12/21/2017	3.4	3.3	33.0	54.4	94.1	5.7	0.871	4.72	5.59	29.0
1/11/2018	1.1	0.98 (J)	9.3	17.2	28.6	5.2	0.315	1.72	2.04	17.5
1/22/2018	2.5	2.2	22.3	32.2	59.2	5.2	0.358	1.48	1.84	15.2
2/7/2018	2.0	2.1	18.7	33.1	55.9	5.8	0.656	1.22	1.88	14.3
2/14/2018	1.3	2.5	17.1	44.9	65.8	6.3	0.731	1.05	1.78	8.4
3/7/2018	2.1	7.8	49.3	137	196	6.3	0.970	2.49	3.46	22.9
3/14/2018	2.3	7.6	55.2	149	214	5.8	1.29	1.01	2.30	28.3
4/3/2018	2.3	6.3	59.2	162	230	6.3	1.35	0.755	2.11	27.8
4/11/2018	2.5	5.8	70.6	188	267	5.4	1.41	0.933	2.34	31.1
NPDES Effluent Limit* - System Deactivation Criteria	NL	NL	NL	NL	100	NL	NL	NL	15	NL

TABLE 2
GROUNDWATER TREATMENT SYSTEM INFLUENT SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
5/2/2018	1.7	4.9	51.1	190	248	4.9	1.84	0.889	2.73	40.8
5/9/2018	2.8	7.6	80.5	302	393	6.8	2.15	1.46	3.61	50.6
6/6/2018	2.1	7.3	48.2	241	299	4.8	1.54	0.907	2.45	35.2
6/13/2018	2.0	6.8	39.5	214	262	4.4	1.47	0.728	2.20	34.3
7/3/2018	2.4	9.2	47.9	256	316	4.5	1.81	0.913	2.72	43.2
7/12/2018	3.0	9.5	50.9	271	334	5.2	1.82	0.728	2.55	55.6
8/1/2018	3.0	6.6	36.2	181	227	4.6	1.58	ND	1.58	35.0
8/8/2018	3.9	9.0	52.8	234	300	5.6	1.81	0.851	2.66	47.2
9/4/2018	4.6	8.0	59.1	191	263	4.5	1.88	0.716	2.60	42.9
9/12/2018	4.0	5.8	43.0	181	234	4.5	1.61	0.315	1.93	34.7
10/3/2018	4.1	6.7	39.6	263	313	3.8	1.88	0.974	2.85	55.5
10/10/2018	4.0	6.3	44.6	263	318	3.7	1.69	0.677	2.37	52.7
11/7/2018	3.9	6.2	45.4	210	266	3.2	1.23	0.614	1.84	36.5
11/14/2018	2.6	3.9	25.3	158	190	2.4	0.850	0.672	1.522	26.3
12/4/2018	5.7	11.8	90.7	363	471	4.2	2.51	1.63	4.14	34.7
12/12/2018	5.7	12.3	101	437	556	4.8	2.05	1.12	3.17	76.9
1/3/2019	5.1	9.9	55.4	377	447	3.9	1.94	0.707	2.65	58.1
1/10/2019	4.8	12.3	119	439	575	3.5	2.25	1.32	3.57	76.9
2/6/2019	4.1	9.9	96.2	374	484	3.3	2.19	0.871	3.06	75.0
2/15/2019	2.9	6.7	61.0	280	351	2.9	2.25	0.963	3.21	39.3
3/6/2019	1.9	2.5	9.5	230	244	2.9	1.56	0.992	2.55	9.8
3/13/2019	3.5	7.4	44.8	350	406	3.5	2.36	1.18	3.54	43.3
4/3/2019	4.5	13.8	112	419	549	2.5	3.29	1.08	4.37	76.7
4/17/2019	4.9	13.9	118	532	669	3.0	3.13	0.972	4.10	67.4
5/1/2019	4.8	12.4	102	492	611	2.7	3.04	1.50	4.54	63.6
5/8/2019	6.3	17.1	142	499	664	3.5	3.17	1.11	4.28	87.6
6/5/2019	4.4	11.2	91.9	455	563	3.3	2.60	1.06	3.66	69.3
6/12/2019	4.8	12.3	100	456	573	2.9	2.94	1.14	4.08	77.0
7/10/2019	4.0	7.7	48.9	328	389	2.7	1.88	0.92	2.80	57.5
7/19/2019	3.2	6.1	49.0	270	328	2.3	1.81	0.77	2.58	50.3
8/5/2019	3.4	5.3	24.6	203	236	0.68 (J)	1.77	0.81	2.58	57.6
8/13/2019	2.9	3.1	10.5	90.6	107.1	2.9	1.10	0.693	1.79	27.9
9/4/2019	2.6	1.9	7.3	32.2	44.0	3.2	0.720	0.356	1.076	17.0
9/11/2019	3.1	2.2	26.6	35.9	67.8	2.9	0.895	0.435	1.330	11.7
10/1/2019	4.1	4.3	10.6	71.9	90.9	2.6	1.25	0.625	1.88	29.4
10/9/2019	3.6	2.9	19.1	57.0	82.6	2.6	1.24	0.386	1.63	23.2
11/14/2019	2.7	3.6	37.0	104	147	3.4	1.47	0.628	2.10	45.1
11/19/2019	2.9	4.2	43.2	117	167	3.4	1.33	0.646	1.98	47.5
12/4/2019	1.4	2.2	26.4	56.4	86.4	2.0	0.695	0.158	0.853	16.9
12/11/2019	1.7	2.6	31.5	62.4	98.2	2.0	0.778	0.334	1.112	19.4
1/2/2020	2.5	4.4	59.3	108	174	3.0	1.44	0.548	1.99	24.7
1/8/2020	1.9	3.2	39.8	74.0	118.9	2.4	0.896	0.307	1.203	14.1
2/12/2020	0.67	ND (< 0.53)	ND (< 0.60)	12.1	13.9	2.7	0.384	0.213	0.597	ND (< 2.5)
2/18/2020	0.96	1.1	0.81 (J)	37.9	40.8	2.6	0.631	0.348	0.979	6.7
3/4/2020	1.2	0.96 (J)	ND (< 0.60)	50.2	53.0	2.8	0.716	ND (< 0.053)	< 0.769	7.6
3/11/2020	1.0	1.1	ND (< 0.60)	32.0	34.7	2.6	0.496	0.502	0.998	2.9 (J)
4/1/2020	1.8	2.4	0.61 (J)	56.5	61.3	3.7	0.680	0.378	1.058	7.4
4/8/2020	2.0	2.8	0.81 (J)	48.0	53.6	3.7	0.801	0.571	1.372	10.3
5/6/2020	1.5	1.4	3.2	39.0	45.1	2.8	0.754	0.380	1.134	8.0
5/13/2020	2.0	3.9	4.6	76.4	86.9	2.7	0.978	ND (< 0.053)	< 1.031	17.3
6/3/2020	2.6	9.3	98.1	98.9	208.9	2.2	ND (< 0.10)	0.732	< 0.83	34.2
6/10/2020	2.4	4.4	9.5	37.0	53.3	3.0	0.924	0.694	1.618	15.9
7/9/2020	1.1	0.76 (J)	0.91 (J)	16.4	19.2	1.8	0.458	0.182	0.640	3.1 (J)
7/15/2020	1.9	2.1	5.5	21.7	31.2	2.1	0.747	0.453	1.200	7.8
8/5/2020	1.0	2.0	18.2	84.1	105.3	1.9	0.644	0.505	1.149	19.7
8/12/2020	1.2	1.8	16.6	68.8	88.4	2.3	0.688	0.588	1.276	32.2
9/9/2020	1.3	1.6	2.3	71.3	76.5	2.0	0.618	0.311	0.929	9.3
9/16/2020	1.4	2.6	18.0	116	138	2.1	1.07	0.536	1.61	28.9
10/7/2020	2.2	3.6	41.8	116	164	2.1	1.49	0.640	2.13	38.6
10/14/2020	2.0	4.1	50.0	146	202	2.1	1.35	0.793	2.14	43.1
11/4/2020	1.3	1.8	15.8	103	122	2.1	0.964	0.580	1.544	23.4
11/11/2020	1.8	3.4	22.4	170	198	2.0	1.25	0.529	1.78	35.1
12/2/2020	1.1	1.4	12.3	92.3	107.1	2.3	0.838	0.613	1.451	18.8
12/10/2020	1.3	2.2	17.5	108	129	2.0	0.944	0.756	1.700	24.5
1/21/2021	1.1	2.9	29.5	108	142	2.0	1.03	0.578	1.61	41.5
1/28/2021	1.2	3.0	32.8	114	151	2.1	0.983	0.562	1.545	35.8
2/3/2021	0.92	2.4	28.9	90.4	122.6	1.9	0.866	0.439	1.305	21.7
2/9/2021	1.9	4.1	55.4	144	205	2.5	1.30	0.398	1.70	33.0
3/3/2021	1.2	2.8	33.4	98	136	1.9	1.15	0.620	1.77	20.0
3/8/2021	1.6	3.8	34.5	143	183	2.1	1.37	0.550	1.92	28.5
4/1/2021	1.5	3.8	34.4	131	171	1.8	1.33	0.564	1.89	25.3
4/7/2021	1.5	4.4	15.4	184	205	1.9	1.46	0.629	2.09	26.4
5/5/2021	1.8	6.2	36.8	127	172	2.3	1.33	0.746	2.08	29.6
5/12/2021	1.9	5.3	38.7	97.5	143.4	2.7	1.28	0.574	1.85	20.6
6/3/2021	1.5	3.2	29.4	114	148	2.0	1.06	0.709	1.77	23.0
6/10/2021	1.7	3.4	37.8	118	161	2.2	1.31	0.831	2.14	29.4
7/7/2021	1.5	3.2	28.4	128	161	2.0	0.560	0.549	1.109	34.1
7/13/2021	1.1	2.1	16.2	93.4	112.8	1.8	0.720	0.575	1.295	20.4
8/11/2021	1.4	2.3	20.3	98.1	122.1	1.9	0.826	0.646	1.472	32.3
8/18/2021	0.99	1.4	15.3	53.0	70.7	1.4	0.550	0.304	0.854	19.2
NPDES Effluent Limit* - System Deactivation Criteria	NL	NL	NL	NL	100	NL	NL	NL	15	NL

TABLE 2
GROUNDWATER TREATMENT SYSTEM INFLUENT SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
9/1/2021	1.5	2.2	12.7	91.5	107.9	2.0	0.982	0.560	1.542	21.4
9/8/2021	1.5	2.0	18.7	69.5	91.7	2.1	0.741	0.566	1.307	24.5
10/20/2021	2.2	3.4	41.5	87.8	134.9	2.2	1.18	0.642	1.82	36.2
10/27/2021	2.3	2.4	17.3	82.4	104.4	1.7	1.18	0.778	1.96	21.8
11/4/2021	1.9	2.4	30.7	68.9	103.9	2.4	1.12	0.693	1.81	31.5
11/9/2021	1.1	1.4	14.9	36.5	53.9	1.5	0.582	0.117	0.699	18.1
12/1/2021	2.8	3.3	42.5	67.2	115.8	2.9	1.72	2.72	4.44	36.9
12/8/2021	1.4	1.9	24.3	36.3	63.9	1.7	0.929	0.528	1.457	16.1
1/12/2022	1.2	0.83 (J)	8.0	7.6	17.6	1.7	0.776	0.427	1.203	6.8
1/19/2022	1.1	0.73 (J)	6.2	8.3	16.3	3.1	0.810	0.374	1.184	9.4
2/2/2022	1.1	0.86 (J)	9.8	8.3	20.1	2.2	0.598	0.304	0.902	8.4
2/10/2022	1.5	0.97 (J)	12.2	8.8	23.5	3.0	0.945	0.607	1.552	11.5
3/2/2022	1.9	1.1	14.4	0.96 (J)	18.4	2.7	0.838	0.707	1.545	13.4
3/10/2022	1.6	1.1	15.4	10	28	2.6	0.700	0.372	1.072	10.2
4/6/2022	1.1	0.70 (J)	8.8	10	21	2.2	0.538	0.390	0.928	6.1
4/12/2022	1.2	0.96 (J)	16.8	18.0	40.0	2.4	0.558	0.323	0.881	8.7
5/5/2022	2.4	2.1	33.5	46.0	84.0	3.2	1.39	0.584	1.97	14.3
5/11/2022	1.7	2.4	33.6	65.5	103.2	3.1	1.19	0.501	1.69	14.3
6/7/2022	1.2	1.6	11.4	41.5	55.7	2.6	0.776	0.330	1.106	8.7
6/16/2022	1.1	1.1	6.8	25	34	2.5	0.467	0.240	0.707	5.2
7/6/2022	1.1	1.0	2.4	14.4	18.9	2.3	0.29	0.339	0.63	5.9
7/26/2022	1.7	1.4	9.4	8.2	20.7	2.7	0.501	0.325	0.826	7.1
8/3/2022	1.7	1.3	13.7	6.1	22.8	2.3	0.463	0.462	0.925	6.7
8/9/2022	1.4	ND (< 0.53)	1.7	3.8	7.4	2.1	0.331	0.443	0.774	4.0 (J)
9/7/2022	1.8	2.9	21.3	46.6	72.6	2.6	1.18	0.661	1.84	23.9
9/14/2022	1.1	1.6	10.0	28.0	40.7	2.4	0.671	0.408	1.079	9.8
10/6/2022	1.6	1.7	15.4	23.3	42.0	2.5	0.661	0.444	1.105	10.6
10/13/2022	0.79	0.93	6.2	10.7	18.6	2.2	0.403	0.325	0.728	3.6 (J)
11/9/2022	1.0	1.2	9.7	13.3	25.2	2.1	0.643	0.266	0.909	11.1
11/21/2022	1.1	1.3	9.8	13.3	25.5	2.3	0.561	0.504	1.065	8.6
12/15/2022	0.43	ND (< 0.49)	0.95	1.8	3.7	1.4	0.260	ND (< 0.053)	< 0.313	ND (< 2.5)
12/20/2022	0.64	0.82	8.9	8.0	18.4	2.3	0.494	0.551	1.045	5.8
1/5/2023	1.1	1.8	25.0	24.8	52.7	3.4	0.545	0.684	1.229	9.4
1/19/2023	1.2	2.1	26.6	31.0	60.9	2.9	0.603	1.46	2.06	8.5
2/7/2023	0.91	1.6	22.9	30.0	55.4	2.6	0.580	0.373	0.953	10.8
2/14/2023	1.1	1.8	21.0	37.9	61.8	2.8	0.622	0.545	1.167	17.5
3/15/2023	0.65	1.4	24.2	25.4	51.7	1.8	0.436	0.565	1.001	8.5
3/22/2023	1.5	3.1	53.9	60.3	118.8	2.9	0.896	0.395	1.291	25.2
4/6/2023	1.0	2.0	36.4	35.4	74.8	2.6	0.640	0.391	1.031	18.3
4/12/2023	1.1	1.9	31.3	36.9	71.2	2.5	0.682	0.533	1.215	22.2
5/11/2023	1.0	1.7	23.7	25.7	52.1	2.6	0.489	0.591	1.080	6.8
5/16/2023	1.1	1.8	16.5	27.9	47.3	2.6	0.601	0.446	1.047	ND (< 2.5)
6/21/2023	0.4	ND (<0.49)	0.91 (J)	1.1	2.9	ND (<0.51)	ND (<0.11)	0.120	0.23	ND (< 2.5)
6/28/2023	0.64	ND (<0.49)	3.6	3.9	8.6	2.3	0.468	0.176	0.644	ND (< 4.4)
7/5/2023	0.69	0.72	6.7	7.2	15.3	2.5	0.529	0.367	0.896	6.3
7/11/2023	0.72	0.85	9.4	9.0	20.0	2.5	0.422	0.474	0.896	8.1
8/2/2023	0.80	1.1	11.3	12.6	25.8	2.2	0.459	0.371	0.830	10.3
8/22/2023	0.69	0.97	10.1	18.6	30.4	2.0	0.316	0.340	0.656	15.0
9/7/2023	0.45	0.71 (J)	8.2	13.3	22.7	1.8	0.393	0.249	0.642	9.8
9/13/2023	0.56	0.50 (J)	4.2	10.9	16.2	1.9	0.365	0.288	0.653	5.9
10/4/2023	1.0	1.6	17.0	27.4	47.0	2.5	0.756	0.379	1.135	18.2
10/19/2023	0.69	1.3	11.7	18.9	32.6	1.8	0.628	0.260	0.888	15.0
11/8/2023	0.69	1.0	12.6	14.6	28.9	2.1	0.514	0.383	0.897	15.7
11/14/2023	0.52	0.73	8.1	10.9	20.3	1.7	0.437	0.356	0.793	10.6
12/5/2023	0.90	0.88	9.1	11.0	21.9	2.3	0.546	0.318	0.864	9.4
12/20/2023	0.55	0.63 (J)	7.3	9.1	17.6	2.4	0.494	0.196	0.690	7.4
1/2/2024	0.55	1.10	14.3	15.7	31.7	2.1	0.617	0.440	1.057	11.8
1/10/2024	0.46 (J)	0.75 (J)	8.1	13.4	22.7	1.9	0.514	0.275	0.789	6.2
2/8/2024	0.74	2.2	24.6	72.3	99.8	1.7	0.928	0.660	1.588	26.9
2/14/2024	0.72	1.2	12.8	58.1	72.8	2.0	0.860	0.467	1.327	11.6
3/7/2024	0.97	2.7	27.5	94.5	125.7	2.1	1.07	0.351	1.42	25.3
3/13/2024	1.2	3.4	34.5	114	153	1.8	1.36	0.415	1.78	24.1
4/4/2024	0.87	2.8	29.9	102	136	1.5	1.28	0.402	1.68	19.0
4/24/2024	1.3	5.7	64.1	199	270	2.1	1.98	1.20	3.18	38.7
5/2/2024	1.6	6.6	66.9	192	267	2.2	1.83	0.995	2.83	40.9
5/30/2024	1.3	6.5	80.1	152	240	1.6	1.93	0.948	2.88	38.2
6/5/2024	1.4	7.3	96.7	160	265	1.9	2.00	0.841	2.84	48.5
6/12/2024	1.0	3.4	36.4	120	161	1.5	1.43	0.771	2.20	29.5
7/10/2024	1.1	3.4	28.9	98.9	132.3	2.0	1.46	0.604	2.06	4.4
7/17/2024	1.3	4.6	41.8	118	166	1.8	1.82	0.839	2.66	36.0
8/21/2024	0.79	2.0	21.1	40.8	64.7	2.4	0.910	0.683	1.593	19.6
8/28/2024	0.70	2.2	27.2	47.3	77.4	2.1	0.914	0.490	1.404	33.3
9/4/2024	0.81	2.4	25.0	42.2	70.4	2.2	0.942	0.706	1.648	27.9
9/11/2024	0.80	2.3	23.3	39.9	66.3	1.7	0.932	0.462	1.394	28.0
NPDES Effluent Limit* - System Deactivation Criteria	NL	NL	NL	NL	100	NL	NL	NL	15	NL

*Effluent Limitations listed in NPDES Permit # MDG915958
NPDES = National Pollutant Discharge Elimination System
Shaded cell indicates Influent result greater than the Effluent Limit
ND (< MDL) = Not Detected above Method Detection Limit
NL = No limit listed in NPDES permit

NA = Not Analyzed
(J) = Laboratory-Estimated Value
µg/L = micrograms/Liter
mg/L = milligrams/Liter
MTBE = Methyl-Tertiary-Butyl Ether

Total BTEX = sum of Benzene, Toluene, Ethylbenzene, and Xylenes
TPH = Total Petroleum Hydrocarbons
DRO = Diesel Range Organics
GRO = Gasoline Range Organics

Table 3
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Sample Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
MDE-4	11/26/1996	NSVD	NM	NM	NM	3	3	ND	ND	6	ND	NS	NS	NS	NS
	2/27/1997	444.03	5.78	0.00	438.25	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
Casing:	5/30/1997	444.03	6.20	0.00	437.83	ND	ND	ND	2	2	ND	NS	NS	NS	NS
0 to 3 feet	8/21/1997	444.03	7.37	0.00	436.66	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	11/25/1997	444.03	7.42	0.00	436.61	**11**	642	**892**	3,050	4,595	**69**	NS	NS	NS	NS
Screen:	2/19/1998	444.03	6.01	0.00	438.02	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
3 to 13 feet	5/28/1998	444.03	5.60	0.00	438.43	4	5	4	8	21	ND	NS	NS	NS	NS
	8/18/1998	444.03	6.68	0.00	437.35	**13**	10	57	92	172	**31**	NS	NS	NS	NS
	11/21/1998	444.03	7.64	0.00	436.39	1	8	31	176	216	**57**	NS	NS	NS	NS
	2/17/1999	444.03	7.70	0.00	436.33	3.7	107	193	605	909	**39**	NS	NS	NS	NS
	5/24/1999	444.03	7.02	0.00	437.01	2	ND	ND	ND	2	ND	NS	NS	NS	NS
	8/26/1999	444.03	7.87	0.00	436.16	**24**	140	390	750	1,304	**44**	NS	NS	NS	NS
	11/18/1999	444.03	6.90	0.00	437.13	ND	500	**920**	2,850	4,270	ND	NS	NS	NS	NS
	2/23/2000	444.03	6.50	0.00	437.53	ND	ND	ND	ND	ND	3.9	NS	NS	NS	NS
	5/17/2000	444.03	6.00	0.00	438.03	ND	ND	2.4	11.7	14.1	**30**	NS	NS	NS	NS
	8/3/2000	444.03	6.48	0.00	437.55	**7.7**	9	59	101	177	**54**	NS	NS	NS	NS
	11/20/2000	444.03	7.15	0.00	436.88	ND	ND	120	242	362	ND	NS	NS	NS	NS
	2/20/2001	444.03	6.87	0.00	437.16	**7.3**	7.5	19	81	115	**22**	NS	NS	NS	NS
	5/25/2001	444.03	6.66	0.00	437.37	**15**	8.8	ND	20.3	44	**34**	NS	NS	NS	NS
	8/6/2001	444.03	7.26	0.00	436.77	**9.7**	33	380	1,220	1,643	**87**	NS	NS	NS	NS
	11/7/2001	444.03	8.39	0.00	435.64	ND	41	220	760	1,021	**120**	NS	NS	NS	NS
	2/22/2002	444.03	8.83	0.00	435.20	**12**	91	220	1,380	1,703	ND	NS	NS	NS	NS
	5/16/2002	444.03	6.52	0.00	437.51	ND	27	120	268	415	15	NS	NS	NS	NS
	8/6/2002	444.03	8.72	0.00	435.31	ND	360	**1,100**	3,630	5,090	**150**	NS	NS	NS	NS
	11/13/2002	444.03	8.23	0.00	435.80	ND	610	**1,300**	5,900	7,810	ND	NS	NS	NS	NS
	3/5/2003	444.03	5.43	0.00	438.60	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	5/13/2003	444.03	5.36	0.00	438.67	2.0	ND	ND	2.6	4.6	11	NS	NS	NS	NS
	8/27/2003	444.03	5.72	0.00	438.31	1.0	ND	1.8	ND	2.8	ND	NS	NS	NS	NS
	11/12/2003	444.03	6.66	0.00	437.37	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	2/2/2004	444.03	5.39	0.00	438.64	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	5/14/2004	444.03	5.24	0.00	438.79	ND	ND	ND	ND	ND	1.7	NS	NS	NS	NS
	8/19/2004	444.03	5.97	0.00	438.06	ND	ND	ND	ND	ND	**26.8**	NS	NS	NS	NS
	5/19/2005	444.03	5.94	0.00	438.09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/24/2007	444.03	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/27/2007	444.03	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2008	444.03	6.91	0.00	437.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/25/2008	444.03	6.56	0.00	437.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/2008	444.03	7.14	0.00	436.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/17/2008	444.03	6.53	0.00	437.50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/31/2009	444.03	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/22/2009	444.03	6.36	0.00	437.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/25/2009	444.03	6.60	0.00	437.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/2009	444.03	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/2009	444.03	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/17/2010	444.03	4.51	0.00	439.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/18/2010	444.03	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/24/2010	443.68	6.69	0.00	436.99	1.3	0.87 (J)	2.8	1.3	6.27 (J)	ND	ND	**858**	**216**	**1.6 (J)**
	1/11/2011	443.68	7.17	0.00	436.51	ND	ND	0.42 (J)	ND	0.42 (J)	ND	ND	**ND (<200)**	**ND (<100)**	ND
	6/23/2011	443.68	6.26	0.00	437.42	1.3	0.46 (J)	4.4	3.6	9.76 (J)	ND	ND	**982**	**464**	**3.3 (J)**
	9/28/2011	443.68	6.02	0.00	437.66	ND	ND	ND	ND	ND	ND	ND	**ND (<200)**	**ND (<100)**	ND
	12/21/2012	443.68	5.90	0.00	437.78	ND	ND	ND	ND	ND	ND	ND	**ND (<200)**	**ND (<100)**	ND
	3/21/2012	443.68	6.18	0.00	437.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/16/2012	443.68	6.48	0.00	437.20	0.50 (J)	ND	0.46 (J)	0.73 (J)	1.69 (J)	ND	ND	**340**	**104**	ND
	8/29/2012	443.68	7.67	0.00	436.01	0.50 (J)	ND	0.30 (J)	0.43 (J)	1.23 (J)	ND	ND	**407**	ND	ND
	12/19/2012	443.68	6.94	0.00	436.74	0.40 (J)	0.44 (J)	2.5	19.2	22.54 (J)	ND	ND	**390**	**372**	**1.1 (J)**
	3/20/2013	443.68	6.57	0.00	437.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/19/2013	443.68	6.47	0.00	437.21	0.45 (J)	0.56 (J)	7.0	8.4	16.41 (J)	ND	ND	**328**	ND	**2.0 (J)**
	9/19/2013	443.68	7.31	0.00	436.37	0.71 (J)	ND	1.3	0.60 (J)	2.61 (J)	ND	ND	**580**	**221**	**2.0 (J)**
	11/22/2013	443.68	7.25	0.00	436.43	1.9	3.2	427	1,420	1,852.10	ND	ND	**13,300**	**2,310**	**110**
	3/20/2014	443.68	5.56	0.00	438.12	ND	ND	0.99	5.8	6.79	ND	ND	ND	ND	ND
***	6/18/2014	443.68	8.33	0.00	435.35	ND	1.2	ND	17.5	18.7	ND	ND	**762**	***	**6.9**
***	6/30/2014	443.68	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS
	9/23/2014	443.18	9.54	0.00	433.64	ND	0.53 (J)	0.99 (J)	1.1	2.62 (J)	ND	ND	ND	**ND (<80)**	**0.93 (J)**
	12/23/2014	443.18	9.94	0.00	433.24	ND	ND	0.62 (J)	0.53 (J)	1.15 (J)	ND	ND	ND	**ND (<80)**	0.37 (J)
	3/24/2015	443.18	9.58	0.00	433.60	ND	ND	ND	ND	ND	ND	ND	ND	**ND (<77)**	ND
	6/22/2015	443.18	9.25	0.00	433.93	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/21/2015	443.18	9.28	0.00	433.90	ND	ND	ND	ND	ND	ND	ND	ND	**125**	ND
	12/9/2015	443.18	9.58	0.00	433.60	ND	ND	ND	ND	ND	ND	ND	ND	**98.4**	ND
	3/8/2016	443.18	8.98	0.00	434.20	ND	ND	ND	ND	ND	ND	ND	**ND (<55)**	**ND (<64)**	ND
	6/7/2016	443.18	9.03	0.00	434.15	ND	ND	ND	ND	ND	ND	ND	**ND (<55)**	**ND (<58)**	ND
	9/13/2016	443.18	9.48	0.00	433.70	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**94.6**	ND
	11/21/2016	443.18	9.90	0.00	433.28	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**469**	ND
	3/9/2017	443.18	10.42	0.00	432.76	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<64)**	**ND (<1.0)**
‡	6/7/2017	443.18	9.72	0.00	433.46	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<64)**	**ND (<1.0)**
	9/6/2017	443.18	9.77	0.00	433.41	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	11/1/2017	443.18	9.97	0.00	433.21	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**154**	**ND (<1.1)**
	3/6/2018	443.18	9.84	0.00	433.34	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	6/20/2018	443.18	8.72	0.00	434.46	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	9/5/2018	443.18	8.64	0.00	434.54	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<53)**	**ND (<0.98)**
	7/18/2019	443.18	8.11	0.00	435.07	Not sampled									
	11/13/2019	443.18	9.23	0.00	433.95	Not sampled									
	7/8/2020	443.18	8.33	0.00	434.85	Not sampled									
	12/9/2020	443.18	8.36	0.00	434.82	Not sampled									
	6/2/2021	443.18	8.68	0.00	434.50	Not sampled									
	11/22/2021	443.18	9.45	0.00	433.73	Not sampled									
	5/17/2022	443.04	9.06	0.00	433.98	Not sampled									
	12/7/2022	443.04	9.48	0.00	433.56	Not sampled									
	6/6/2023	443.04	9.31	0.00	433.73	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	ND (<0.51)	ND (<5.8)	**ND (<110)**	**137**	**ND (<2.5)**
	10/31/2023	443.04	9.15	0.00	433.89	Not sampled									
	6/19/2024	443.04	8.44	0.00	434.60	Not sampled									
				MDE MEAT GNCSG**		**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**47**	**47**	**0.7**

Table 3
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Sample Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
MW-1	6/26/1991	455.93	29.40	0.00	426.53	2	ND	ND	2	4	8	NS	NS	NS	NS
	9/1/1992	455.93	26.35	0.00	429.58	**25**	18	10	41	94	ND	NS	NS	NS	NS
Casing:	1/7/1993	455.93	24.70	0.00	431.23	3	4	ND	10	17	**142**	NS	NS	NS	NS
Unknown	4/12/1993	455.93	NM	NM	NM	**29**	5	7	51	92	**30**	NS	NS	NS	NS
	7/15/1993	455.93	NM	NM	NM	**12**	3	3	66	84	ND	NS	NS	NS	NS
Screen:	10/19/1993	455.93	NM	NM	NM	**11**	ND	ND	37	48	ND	NS	NS	NS	NS
Unknown	1/26/1994	455.93	NM	NM	NM	**10**	ND	3	22	35	ND	NS	NS	NS	NS
	4/20/1994	455.93	NM	NM	NM	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	8/2/1994	455.93	NM	NM	NM	**23**	ND	4	38	65	ND	NS	NS	NS	NS
	11/22/1994	455.93	NM	NM	NM	**14**	ND	3	16	33	11	NS	NS	NS	NS
	3/3/1995	455.93	NM	NM	NM	**12**	2	3	13	30	6	NS	NS	NS	NS
	5/9/1995	455.93	NM	NM	NM	**10**	ND	ND	11	21	16	NS	NS	NS	NS
	8/15/1995	455.93	NM	NM	NM	**12**	ND	2	23	37	ND	NS	NS	NS	NS
	11/28/1995	455.93	NM	NM	NM	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	2/13/1996	455.93	16.20	0.00	439.73	ND	ND	ND	4	4	ND	NS	NS	NS	NS
	5/15/1996	455.93	18.06	0.00	437.87	4	ND	ND	6	10	**24.3**	NS	NS	NS	NS
	8/28/1996	455.93	16.95	0.00	438.98	ND	6	3	12	21	5.6	NS	NS	NS	NS
	11/26/1996	455.93	26.21	0.00	429.72	3	ND	ND	2	5	ND	NS	NS	NS	NS
	2/27/1997	455.93	15.73	0.00	440.20	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	5/30/1997	455.93	16.00	0.00	439.93	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	8/21/1997	455.93	18.66	0.00	437.27	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	11/25/1997	455.93	17.97	0.00	437.96	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	2/19/1998	455.93	15.47	0.00	440.46	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	5/28/1998	455.93	15.06	0.00	440.87	ND	ND	3	9	12	ND	NS	NS	NS	NS
	8/18/1998	455.93	16.42	0.00	439.51	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	5/19/2005	455.93	16.83	0.00	439.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/24/2007	455.93	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/27/2007	455.93	17.58	0.00	438.35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2008	455.93	17.39	0.00	438.54	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/25/2008	455.93	16.41	0.00	439.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/2008	455.93	16.57	0.00	439.36	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/17/2008	455.93	16.26	0.00	439.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/31/2009	455.93	17.87	0.00	438.06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/22/2009	455.93	16.07	0.00	439.86	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/25/2009	455.93	16.48	0.00	439.45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/2009	455.93	15.94	0.00	439.99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/2009	455.93	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/17/2010	455.93	0.01	0.00	455.92	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/18/2010	455.93	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/26/2010	454.42	16.61	0.00	437.81	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/10/2011	454.42	17.64	0.00	436.78	ND	ND	ND	ND	ND	ND	ND	**ND (<200)**	**ND (<100)**	ND
	6/22/2011	454.42	16.05	0.00	438.37	ND	ND	ND	ND	ND	ND	ND	**ND (<200)**	**ND (<110)**	ND
	9/28/2011	454.42	6.68	0.00	447.74	ND	ND	ND	ND	ND	ND	ND	**ND (<200)**	**ND (<110)**	ND
	12/20/2012	454.42	15.90	0.00	438.52	ND	ND	ND	ND	ND	ND	ND	**ND (<200)**	**ND (<100)**	ND
	3/21/2012	454.42	16.41	0.00	438.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/15/2012	454.42	14.43	0.00	439.99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/2012	454.42	15.84	0.00	438.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/18/2012	454.42	17.16	0.00	437.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/19/2013	454.42	16.57	0.00	437.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/18/2013	454.42	17.45	0.00	436.97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/19/2013	454.42	17.54	0.00	436.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/22/2013	454.42	17.87	0.00	436.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/20/2014	454.42	15.89	0.00	438.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.59 (J)
***	6/18/2014	454.42	18.43	0.00	435.99	ND	ND	ND	ND	ND	ND	ND	ND	***	ND
***	6/30/2014	454.42	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS
	9/23/2014	453.92	18.73	0.00	435.19	ND	ND	ND	ND	ND	ND	18.4	ND	**243**	ND
	12/23/2014	453.92	19.67	0.00	434.25	ND	ND	ND	ND	ND	ND	ND	ND	**ND (<80)**	ND
	3/24/2015	453.92	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/22/2015	453.92	18.24	0.00	435.68	ND	ND	ND	ND	ND	ND	ND	ND	**102**	ND
	9/21/2015	453.92	18.49	0.00	435.43	ND	ND	ND	ND	ND	ND	ND	ND	**233**	ND
	12/9/2015	453.92	19.24	0.00	434.68	ND	ND	ND	ND	ND	ND	ND	ND	**ND (<64)**	ND
	3/8/2016	453.92	18.28	0.00	435.64	ND	ND	ND	ND	ND	ND	ND	**ND (<55)**	**ND (<64)**	ND
	6/7/2016	453.92	18.21	0.00	435.71	ND	ND	ND	ND	ND	ND	ND	**ND (<55)**	**ND (<58)**	ND
	9/13/2016	453.92	18.92	0.00	435.00	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**108**	ND
	11/21/2016	453.92	19.83	0.00	434.09	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<64)**	ND
	3/9/2017	453.92	20.49	0.00	433.43	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<64)**	**ND (<1.0)**
	6/7/2017	453.92	19.38	0.00	434.54	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<64)**	**ND (<1.0)**
	9/6/2017	453.92	19.04	0.00	434.88	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	11/1/2017	453.92	19.67	0.00	434.25	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	3/6/2018	453.92	20.16	0.00	433.76	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**91.9**	**ND (<1.1)**
	6/20/2018	453.92	17.45	0.00	436.47	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	9/5/2018	453.92	16.71	0.00	437.21	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<53)**	**ND (<0.98)**
	7/18/2019	453.92	16.52	0.00	437.40	Not sampled									
	11/13/2019	453.92	18.44	0.00	435.48	Not sampled									
	7/8/2020	453.92	16.57	0.00	437.35	Not sampled									
	12/9/2020	453.92	17.28	0.00	436.64	Not sampled									
	6/2/2021	453.92	17.57	0.00	436.35	Not sampled									
	11/22/2021	453.92	18.88	0.00	435.04	Not sampled									
	5/17/2022	453.92	18.97	0.00	434.95	Not sampled									
	12/7/2022	453.92	17.81	0.00	436.11	Not sampled									
	6/7/2023	453.92	19.01	0.00	434.91	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	ND (<0.51)	ND (<5.8)	**ND (<110)**	**ND (<70)**	**ND (<2.5)**
	10/31/2023	453.92	18.69	0.00	435.23	Not sampled									
	6/19/2024	453.92	17.25	0.00	436.67	Not sampled									
MDE MEAT GNCSG**						**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**47**	**47**	**0.7**

Table 3
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Sample Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
MW-4	3/28/1991	457.11	16.98	0.00	440.13	**600**	**1,300**	380	1,500	3,780	**40**	NS	NS	NS	NS
	6/26/1991	457.11	23.80	0.00	433.31	**3,775**	**4,825**	**925**	4,075	13,600	**1,125**	NS	NS	NS	NS
Casing:	9/1/1992	457.11	22.00	0.00	435.11	**3,500**	**9,300**	**1,625**	5,225	19,650	**1,100**	NS	NS	NS	NS
0 to 10 feet	9/4/1992	457.11	22.79	0.01	434.33	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/15/1992	457.11	22.98	sheen	434.13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Screen:	11/9/1992	457.11	23.20	2.50	435.79	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10 to 25 feet	12/9/1992	457.11	21.58	1.36	436.55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/7/1993	457.11	21.68	0.02	435.45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/1993	457.11	23.15	0.85	434.60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/8/1993	457.11	20.10	sheen	437.01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/12/1993	457.11	18.20	0.05	438.95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/11/1993	457.11	18.10	0.15	439.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/3/1993	457.11	18.96	0.38	438.44	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/7/1993	457.11	19.65	0.30	437.69	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/2/1993	457.11	18.95	0.00	438.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/15/1993	457.11	19.34	0.00	437.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/19/1993	457.11	19.75	0.00	437.36	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/1993	457.11	20.75	sheen	436.36	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/1993	457.11	19.85	0.00	437.26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/25/1994	457.11	17.84	0.00	439.27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/11/1994	457.11	17.13	0.00	439.98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/20/1994	457.11	17.68	0.00	439.43	**1,650**	**6,130**	678	3,950	12,408	**223**	NS	NS	NS	NS
	8/2/1994	457.11	18.35	0.00	438.76	**2,630**	**12,200**	**1,430**	9,070	25,330	ND	NS	NS	NS	NS
	11/22/1994	457.11	18.52	0.00	438.59	**2,950**	**7,040**	**1,430**	8,700	20,120	**340**	NS	NS	NS	NS
	3/3/1995	457.11	20.31	0.00	436.80	**1,560**	**12,400**	**1,690**	9,050	24,700	**775**	NS	NS	NS	NS
	5/9/1995	457.11	20.25	0.00	436.86	**1,600**	**12,800**	**1,840**	**10,400**	26,640	**499**	NS	NS	NS	NS
	8/15/1995	457.11	21.10	0.00	436.01	**<200**	<200	<200	726	726	**<200**	NS	NS	NS	NS
	7/24/1995	457.11	19.29	0.02	437.84	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/28/1995	457.11	22.00	0.00	435.11	ND	10	ND	58	68	**47**	NS	NS	NS	NS
	2/13/1996	457.11	20.20	0.00	436.91	3	11	2	21	37	14	NS	NS	NS	NS
	5/15/1996	457.11	17.60	0.00	439.51	ND	53	18	133	204	6	NS	NS	NS	NS
	8/28/1996	457.11	16.98	0.00	440.13	ND	3	3	10	16	6	NS	NS	NS	NS
	11/26/1996	457.11	15.85	0.00	441.26	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	2/27/1997	457.11	14.19	0.00	442.92	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	5/30/1997	457.11	15.77	0.00	441.34	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	8/21/1997	457.11	19.01	0.00	438.10	**15**	24	4	27	70	ND	NS	NS	NS	NS
	11/25/1997	457.11	19.15	0.00	437.96	**89**	75	143	240	547	3	NS	NS	NS	NS
	2/19/1998	457.11	17.68	0.00	439.43	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	5/28/1998	457.11	16.64	0.00	440.47	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	8/18/1998	457.11	18.21	0.00	438.90	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	11/21/1998	457.11	19.65	0.00	437.46	**71**	**1,600**	183	731	2,585	19	NS	NS	NS	NS
	2/17/1999	457.11	19.70	0.00	437.41	ND	780	252	460	1,492	**<100**	NS	NS	NS	NS
	5/24/1999	457.11	18.90	0.00	438.21	ND	14	8.7	21.9	44.6	**77.7**	NS	NS	NS	NS
	8/26/1999	457.11	20.60	0.00	436.51	ND	ND	35	123	158	**220**	NS	NS	NS	NS
	11/18/1999	457.11	18.52	0.00	438.59	ND	ND	ND	3.8	3.8	**2,000**	NS	NS	NS	NS
	12/29/1999	457.11	NM	NM	NM	ND	ND	ND	ND	ND	**2,100**	NS	NS	NS	NS
	2/23/2000	457.11	19.21	0.00	437.90	**120**	4.5	32	106	263	**730**	NS	NS	NS	NS
	5/17/2000	457.11	16.90	0.00	440.21	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	8/3/2000	457.11	17.28	0.00	439.83	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	11/20/2000	457.11	19.69	0.00	437.42	**87**	ND	ND	ND	87	**3,000**	NS	NS	NS	NS
	2/20/2001	457.11	18.60	0.00	438.51	ND	ND	ND	ND	ND	6.8	NS	NS	NS	NS
	5/25/2001	457.11	17.30	0.00	439.81	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	8/6/2001	457.11	19.17	0.00	437.94	ND	ND	ND	ND	ND	2.0	NS	NS	NS	NS
	11/7/2001	457.11	21.17	0.00	435.94	**330**	62	370	800	1,562	**110**	NS	NS	NS	NS
MDE MEAT GNCSG**						**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**47**	**47**	**0.7**

Table 3
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Sample Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
MW-4 (continued)	2/22/2002	457.11	20.80	0.00	436.31	**81**	120	200	510	911	**33**	NS	NS	NS	NS
	5/16/2002	457.11	18.12	0.00	438.99	ND	15	12	223	250	2.2	NS	NS	NS	NS
	8/6/2002	457.11	21.61	0.00	435.50	3.5	3.2	7.0	22.8	36.5	3.9	NS	NS	NS	NS
	11/13/2002	457.11	18.81	0.00	438.30	ND	4.9	14	141	159.9	ND	NS	NS	NS	NS
	3/5/2003	457.11	18.41	0.00	438.70	ND	ND	ND	ND	ND	2.0	NS	NS	NS	NS
	5/13/2003	457.11	16.96	0.00	440.15	3.9	ND	ND	ND	3.9	**110**	NS	NS	NS	NS
	9/25/2003	457.11	NM	NM	NM	ND	ND	ND	ND	ND	1.5	NS	NS	NS	NS
	11/12/2003	457.11	18.32	0.00	438.79	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	2/2/2004	457.11	14.70	0.00	442.41	ND	ND	ND	ND	ND	**666**	NS	NS	NS	NS
	5/14/2004	457.11	18.09	0.00	439.02	ND	ND	ND	ND	ND	**24.8**	NS	NS	NS	NS
	8/19/2004	457.11	16.55	0.00	440.56	1.6	2.1	36.5	92.4	132.6	1.6	NS	NS	NS	NS
	11/22/2004	457.11	19.43	0.00	437.68	ND	ND	0.31 (J)	0.57 (J)	0.88 (J)	0.29 (J)	NS	NS	NS	NS
	2/23/2005	457.11	18.93	0.00	438.18	ND	ND	ND	ND	ND	0.65 (J)	NS	NS	NS	NS
	5/19/2005	457.11	16.67	0.00	440.44	ND	ND	ND	ND	ND	0.91 (J)	ND	ND	ND	NS
	8/24/2007	457.11	19.06	0.00	438.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/27/2007	457.11	18.72	0.00	438.39	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2008	457.11	18.63	0.00	438.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/25/2008	457.11	17.57	0.00	439.54	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/2008	457.11	19.28	0.00	437.83	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/17/2008	457.11	19.10	0.00	438.01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/31/2009	457.11	19.12	0.00	437.99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/22/2009	457.11	15.07	0.00	442.04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/25/2009	457.11	17.63	0.00	439.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/2009	457.11	16.56	0.00	440.55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/2009	457.11	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/17/2010	457.11	14.98	0.00	442.13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/18/2010	457.11	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/23/2010	455.60	18.10	0.00	437.50	0.52 (J)	22.3	41.1	84.2	148.12 (J)	ND	ND	**449**	**244**	**7.2**
	1/10/2011	455.60	18.94	0.00	436.66	**16.4**	16.9	151	235	419.30	2.7	112	**1,940**	**1,930**	**84.1**
	6/22/2011	455.60	17.57	0.00	438.03	**8.7**	10.6	5.7	8.6	33.60	1.9	128	**306**	**304**	ND
	9/28/2011	455.60	17.08	0.00	438.52	ND	ND	ND	ND	ND	ND	ND	**ND (<200)**	**ND (<100)**	ND
	12/20/2012	455.60	17.30	0.00	438.30	ND	ND	0.29 (J)	ND	0.29 (J)	ND	ND	**ND (<200)**	**ND (<100)**	ND
	3/21/2012	455.60	17.78	0.00	437.82	0.24 (J)	ND	1.5	ND	1.74 (J)	ND	ND	ND	ND	ND
	5/15/2012	455.60	11.49	0.00	444.11	ND	ND	ND	ND	ND	ND	ND	ND	**283**	ND
	8/28/2012	455.60	18.91	0.00	436.69	ND	ND	ND	ND	ND	ND	ND	ND	**924**	ND
	12/18/2012	455.60	18.58	0.00	437.02	**6.5**	37.2	419	108	570.7	ND	18.5 (J)	**2,510**	**1,120**	**154**
	3/19/2013	455.60	17.99	0.00	437.61	ND	ND	ND	ND	ND	ND	ND	ND	**350**	ND
	6/18/2013	455.60	17.77	0.00	437.83	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/19/2013	455.60	19.01	0.00	436.59	3.0	16.1	85.9	16.2	121.2	ND	55.8	**2,420**	**367**	**34.3**
	11/22/2013	455.60	19.21	0.00	436.39	**9.9**	32.3	38.4	23.7	104.3	1.3	52.9	**4,110**	**1,400**	**7.0**
	3/20/2014	455.60	15.71	0.00	439.89	2.0	5.2	ND	5.8	13.0	1.2	71.3	**1,870**	**408**	ND
***	6/18/2014	455.60	18.24	0.00	437.36	**87.4**	59.2	9.4	24.8	180.8	**106**	1,770	**3,850**	***	**1.5 (J)**
***	6/30/2014	455.60	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	**2,160**	NS
	9/23/2014	455.10	20.69	0.00	434.41	**7.3**	212	541	567	1,327.3	**269**	1,150	**5,740**	**2,560**	**159**
	12/23/2014	455.10	21.37	0.00	433.73	**88.0**	83.0	**1,290**	1,480	2,941.0	**50.6**	771	**12,200**	**3,090**	**490**
	3/24/2015	455.10	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/22/2015	455.10	20.38	0.00	434.72	**178**	34.1	661	409	1,282.1	17.3	3,200	**6,130**	**4,540**	**392**
	9/21/2015	455.10	20.57	0.00	434.53	**153**	44.3	623	394	1,214.3	16.9	1,730	**10,300**	**3,740**	**430**
	12/9/2015	455.10	21.08	0.00	434.02	**7.8**	1.4	34.8	10.1	54.1	ND	250	**650**	**684**	**28.3**
	3/8/2016	455.10	20.29	0.00	434.81	**103**	9.4	223	49.0	384.4	7.5	553	**2,130**	**874**	**143**
	6/7/2016	455.10	20.28	0.00	434.82	**155**	27.1	**744**	139	1,065.1	6.2	3,030	**6,540**	**3,150**	**436**
	9/13/2016	455.10	20.87	0.00	434.23	**131**	23.1	**763**	150	1,067.1	5.8	2,320	**6,520**	**2,750**	**422**
	11/21/2016	455.10	21.56	0.00	433.54	**108**	25.9	**727**	192	1,052.9	12.9	2,480	**6,730**	**3,520**	**439**
	3/9/2017	455.10	22.05	0.00	433.05	**23.7**	5.5	142	42.8	214.0	3.4	ND	**2,450**	**1,090**	**144**
	6/7/2017	455.10	21.18	0.00	433.92	**14.6**	2.8	50.7	7.8	75.9	2.3	174	**1,590**	**1,050**	**34.3**
	9/6/2017	455.10	20.94	0.00	434.16	**44.1**	5.8	141	24.5	215.4	ND	1,230	**1,980**	**1,570**	**107**
	11/1/2017	455.10	21.41	0.00	433.69	**69.8**	7.6	146	42.1	266	6.1	1,380	**3,050**	**1,900**	**118**
	3/6/2018	455.10	21.75	0.00	433.35	**11.3**	0.71 (J)	12.3	4.4	28.7 (J)	ND	9.4 (J)	**1,090**	**1,070**	**20.6**
	6/20/2018	455.10	19.73	0.00	435.37	**18.2**	ND	0.77 (J)	ND	18.97 (J)	2.5	83.4	**124 (J)**	**112**	**ND (<1.1)**
	9/5/2018	455.10	19.34	0.00	435.76	**7.3**	ND	2.7	ND	10.0	ND	40.3	**226**	**110**	**2.8 (J)**
	7/18/2019	455.10	18.82	0.00	436.28	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	ND (<42)	**ND (<53)**	**ND (<0.98)**
	11/13/2019	455.10	20.42	0.00	434.68	**8.4**	4.5	37.5	6.6	57.0	0.64 (J)	16.8	**507**	**168**	**19.9**
	7/8/2020	455.10	18.78	0.00	436.32	ND (<0.43)	ND (<0.53)	0.84 (J)	ND (<0.59)	< 2.39	ND (<0.51)	30.6	**208**	**ND (<53)**	**ND (<2.5)**
	12/9/2020	455.10	17.47	0.00	437.63	0.62	ND (<0.53)	ND (<0.60)	ND (<0.59)	< 2.34	ND (<0.51)	ND (<5.8)	**438**	**ND (<53)**	**ND (<2.5)**
	6/2/2021	455.10	19.62	0.00	435.48	ND (<0.43)	ND (<0.53)	0.81	ND (<0.59)	< 2.36	ND (<0.51)	ND (<5.8)	**101**	**ND (<49)**	**ND (<2.5)**
	11/22/2021	455.10	20.76	0.00	434.34	**8.8**	8.3	89.0	13.3	119.4	ND (<0.51)	11.7	**797**	**258**	**69.4**
	5/17/2022	455.10	20.64	0.00	434.46	1.6	4.5	106	9.0	121	ND (<0.51)	ND (<5.8)	**1,600**	**634**	**75.8**
	12/7/2022	455.10	21.03	0.00	434.07	4.0	5.9	171	23.1	204	ND (<0.51)	ND (<5.8)	**2,200**	**1,410**	**166**
	6/7/2023	455.10	20.89	0.00	434.21	1.3	1.6	68.7	8.4	80	ND (<0.51)	ND (<5.8)	**2,320**	**1,370**	**90.5**
	10/31/2023	455.10	20.84	0.00	434.26	1.7	1.1	53.7	6.7	63	ND (<0.51)	ND (<5.8)	**883**	**233**	**55.1**
	6/19/2024	455.10	19.48	0.00	435.62	1.5	0.91 (J)	46.8	6.7	55.9	ND (<0.51)	ND (<5.8)	**983**	**714**	**57.3**
MDE MEAT GNCSG**						**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**47**	**47**	**0.7**

Table 3
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Sample Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
MW-7	3/28/1991	452.69	15.10	0.00	437.59	**7,950**	**6,100**	**2,700**	8,550	25,300	**650**	NS	NS	NS	NS
	6/26/1991	452.69	16.12	0.00	436.57	**2,100**	**2,400**	**800**	2,300	7,600	**1,000**	NS	NS	NS	NS
Casing:	9/1/1992	452.69	17.22	0.00	435.47	**1,470**	**3,670**	**1,350**	5,350	11,840	**1,200**	NS	NS	NS	NS
0 to 8 feet	1/7/1993	452.69	26.25	0.00	426.44	**1,550**	**5,750**	**1,100**	6,250	14,650	**600**	NS	NS	NS	NS
	4/12/1993	452.69	NM	NM	NM	**200**	**2,550**	350	3,600	6,700	ND	NS	NS	NS	NS
Screen:	7/15/1993	452.69	NM	NM	NM	**2,150**	**8,550**	**1,200**	8,950	20,850	**1,000**	NS	NS	NS	NS
8 to 33 feet	10/19/1993	452.69	NM	NM	NM	**2,400**	**15,700**	**1,300**	9,000	28,400	**870**	NS	NS	NS	NS
	1/26/1994	452.69	NM	NM	NM	**1,100**	**6,200**	**950**	5,650	13,900	ND	NS	NS	NS	NS
	4/19/1994	452.69	NM	NM	NM	**11**	68	11	86	176	**64.4**	NS	NS	NS	NS
	8/2/1994	452.69	NM	NM	NM	**280**	**1,160**	260	2,280	3,980	**180**	NS	NS	NS	NS
	11/22/1994	452.69	NM	NM	NM	**1,530**	**1,780**	**1,380**	5,400	10,090	**338**	NS	NS	NS	NS
	3/3/1995	452.69	NM	NM	NM	**1,690**	**9,600**	**1,930**	**11,000**	24,220	**913**	NS	NS	NS	NS
	5/9/1995	452.69	NM	NM	NM	**448**	**2,330**	294	3,560	6,632	**<200**	NS	NS	NS	NS
	8/15/1995	452.69	NM	NM	NM	**370**	**1,790**	420	3,430	6,010	**<200**	NS	NS	NS	NS
	11/28/1995	452.69	NM	NM	NM	**394**	**3,440**	646	4,230	8,710	ND	NS	NS	NS	NS
	2/13/1996	452.69	14.75	0.00	437.94	**104**	164	106	259	633	ND	NS	NS	NS	NS
	5/15/1996	452.69	15.40	0.00	437.29	**132**	429	101	436	1,098	**33**	NS	NS	NS	NS
	8/28/1996	452.69	15.27	0.00	437.42	**422**	**3,460**	480	5,540	9,902	**78**	NS	NS	NS	NS
	11/26/1996	452.69	15.61	0.00	437.08	**96**	340	ND	875	1,311	ND	NS	NS	NS	NS
	2/27/1997	452.69	14.69	0.00	438.00	**56**	225	**1,420**	3,830	5,531	**109**	NS	NS	NS	NS
	5/30/1997	452.69	15.10	0.00	437.59	**69**	293	**1,600**	4,900	6,862	**149**	NS	NS	NS	NS
	8/21/1997	452.69	16.53	0.00	436.16	ND	349	**1,280**	5,730	7,359	ND	NS	NS	NS	NS
	11/25/1997	452.69	16.63	0.00	436.06	ND	175	**913**	4,160	5,248	**57**	NS	NS	NS	NS
	2/19/1998	452.69	15.23	0.00	437.46	ND	165	381	2,360	2,906	ND	NS	NS	NS	NS
	5/28/1998	452.69	14.36	0.00	438.33	**100**	364	**1,270**	5,070	6,804	**147**	NS	NS	NS	NS
	8/18/1998	452.69	15.61	0.00	437.08	**120**	313	**1,300**	5,540	7,273	ND	NS	NS	NS	NS
	11/21/1998	452.69	16.86	0.00	435.83	**<100**	195	**1,280**	6,340	7,815	**129**	NS	NS	NS	NS
	2/17/1999	452.69	17.02	0.00	435.67	**<50**	409	**1,510**	6,230	8,149	**136**	NS	NS	NS	NS
	5/24/1999	452.69	16.20	0.00	436.49	**37**	229	**1,010**	3,230	4,506	**211**	NS	NS	NS	NS
	8/26/1999	452.69	17.18	0.00	435.51	**<50**	110	**920**	3,900	4,930	**170**	NS	NS	NS	NS
	11/18/1999	452.69	16.02	0.00	436.67	**<20**	130	**870**	3,300	4,300	**1,400**	NS	NS	NS	NS
	12/29/1999	452.69	NM	NM	NM	**9**	140	**780**	3,200	4,129	**240**	NS	NS	NS	NS
	2/23/2000	452.69	15.43	0.00	437.26	**<20**	320	**990**	3,800	5,110	**370**	NS	NS	NS	NS
	5/17/2000	452.69	14.47	0.00	438.22	ND	180	**1,100**	3,900	5,180	**1,300**	NS	NS	NS	NS
	8/3/2000	452.69	14.92	0.00	437.77	**84**	260	**1,000**	4,200	5,544	**2,100**	NS	NS	NS	NS
	11/20/2000	452.69	16.65	0.00	436.04	ND	140	**830**	3,180	4,150	**150**	NS	NS	NS	NS
	2/20/2001	452.69	17.86	0.00	434.83	**70**	240	**850**	2,540	3,700	**130**	NS	NS	NS	NS
	5/25/2001	452.69	15.05	0.00	437.64	ND	250	**1,300**	3,600	5,150	ND	NS	NS	NS	NS
	8/6/2001	452.69	16.70	0.00	435.99	**11**	280	**1,400**	4,900	6,591	**210**	NS	NS	NS	NS
	11/7/2001	452.69	17.64	0.00	435.05	ND	64	**810**	2,284	3,158	**98**	NS	NS	NS	NS
	2/22/2002	452.69	17.92	0.00	434.77	**11**	75	660	2,080	2,826	**54**	NS	NS	NS	NS
	5/16/2002	452.69	15.80	0.00	436.89	ND	140	690	2,110	2,940	**51**	NS	NS	NS	NS
	8/6/2002	452.69	18.05	0.00	434.64	**60**	93	**800**	2,180	3,133	**140**	NS	NS	NS	NS
	11/13/2002	452.69	17.23	0.00	435.46	ND	ND	**760**	1,746	2,506	ND	NS	NS	NS	NS
	3/5/2003	452.69	13.94	0.00	438.75	ND	16	100	301	417	5.1	NS	NS	NS	NS
	5/13/2003	452.69	15.10	0.00	437.59	**10**	10	110	198	328	**22**	NS	NS	NS	NS
	9/25/2003	452.69	NM	NM	NM	**25.6**	24.9	343	273	667	16.1	NS	NS	NS	NS
	11/12/2003	452.69	15.36	0.00	437.33	**24.5**	91.7	**907**	1,400	2,423	10	NS	NS	NS	NS
	2/2/2004	452.69	14.40	0.00	438.29	**22.6**	76.4	605	1,390	2,094	7.0	NS	NS	NS	NS
	5/14/2004	452.69	13.97	0.00	438.72	**10.3**	28.8	499	595	1,133	5.8	NS	NS	NS	NS
	8/19/2004	452.69	14.67	0.00	438.02	**18.8**	82.8	**763**	2,720	3,585	11.3	NS	NS	NS	NS
	2/23/2005	452.69	16.39	0.00	436.30	3.5 (J)	80	**1,080**	4,320	5,484 (J)	7.6 (J)	NS	NS	NS	NS
	5/19/2005	452.69	16.25	0.00	436.44	2.1 (J)	61.9	**740**	2,580	3,384 (J)	3.7 (J)	NS	NS	NS	NS
	8/24/2005	452.69	15.89	0.00	436.80	**<10**	56.9	**1,020**	3,770	4,847	8.4 (J)	NS	NS	NS	NS
	11/8/2005	452.69	15.54	0.00	437.15	1.6 (J)	18.1	472	913	1,405 (J)	9.1	NS	NS	NS	NS
MDE MEAT GNCSG**						**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**47**	**47**	**0.7**

Table 3
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Sample Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
MW-7	2/10/2006	452.69	14.54	0.00	438.15	1.2 (J)	22	413	1,390	1,826	5.2	NS	NS	NS	NS
(continued)	5/15/2006	452.69	15.50	0.00	437.19	**<10**	34.4	**880**	2,690	3,604	**22.2**	NS	NS	NS	NS
	8/9/2006	452.69	15.41	0.00	437.28	ND	40	**911**	3,140	4,091	6.1	NS	NS	NS	NS
	10/17/2006	452.69	17.28	0.00	435.41	**<10**	42.3	**1,170**	4,340	5,552	10	NS	NS	NS	NS
	4/11/2007	452.69	NG	NG	NG	ND	1.9	57	92	150.9	ND	ND	**1,900**	ND	NS
	8/24/2007	452.69	16.38	0.00	436.31	1.5	7.2	200	150	359	4.3	ND	**1,900**	**1,300**	NS
	12/27/2007	452.69	16.02	0.00	436.67	ND	ND	1.2	2.2	3.4	ND	ND	ND	**4,900**	NS
	3/27/2008	452.69	16.11	0.00	436.58	ND	ND	14	12.9	26.9	1.0	ND	ND	ND	NS
	6/25/2008	452.69	15.56	0.00	437.13	0.42 (J)	3.1	17.4	39	59.9	ND	ND	**1,400**	**700**	NS
	9/24/2008	452.69	16.20	0.00	436.49	1.7	9.7	278	323	612.4	3.4	ND	**4,340**	**976**	NS
	12/17/2008	452.69	9.65	0.00	443.04	2.0	17.3	495	911	1,425.3	3.4	ND	**8,250**	**1,160**	NS
	3/31/2009	452.69	16.77	0.00	435.92	1.0	ND	ND	ND	1.0	**59.8**	ND (<25)	ND	**1,160**	NS
	6/22/2009	452.69	15.50	0.00	437.19	1.2 (J)	7.9	257	285	551.1 (J)	1.6 (J)	ND (<63)	**4,810**	**1,870**	NS
	9/25/2009	452.69	15.64	0.00	437.05	1.2 (J)	9.1	528	549	1,087.3 (J)	ND	ND (<50)	**9,450**	**2,330**	NS
	12/14/2009	452.69	13.57	0.00	439.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/2009	452.69	NM	NM	NM	0.51 (J)	3.4	98.9	53.7	156.51 (J)	ND	ND (<25)	**1,490**	**531**	NS
	3/17/2010	452.69	13.17	0.00	439.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/18/2010	452.69	NM	NM	NM	ND	ND	43.3	7.4	50.7	ND	ND (<25)	**1,160**	**516**	NS
19 ft. sample	8/24/2010	453.52	15.73	0.00	437.79	1.8	3	238	58.4	301.2	ND	ND	**3,000**	**567**	NS
27 ft. sample	8/24/2010	453.52	15.73	0.00	437.79	**13**	2	127	31.3	173.3	**53.1**	47.6	**2,080**	**655**	**7.3**
	1/11/2011	453.52	16.36	0.00	437.16	1.8	8.7	492	294	796.5	1.8	ND	**7,180**	**2,360**	**75.4**
	6/23/2011	453.52	15.20	0.00	438.32	0.76 (J)	3.8	114	19.9	138.46 (J)	0.75 (J)	ND	**1,640**	**772**	**12.6**
	9/29/2011	453.52	14.99	0.00	438.53	1.5	6.7	330	200	538.2	1.7	18.8 (J)	**3,060**	**2,620**	**48.0**
	12/21/2012	453.52	14.86	0.00	438.66	3.7	2.8	13.6	3.0	23.1	6.7	276	**452**	**422**	**32.9**
	3/21/2012	453.52	15.26	0.00	438.26	4.0	3.4	128	10.1	145.5	4.5	198	**1,820**	**1,390**	**11.9**
	5/16/2012	453.52	15.60	0.00	437.92	2.3	3.5	138	55.7	199.5	2.9	126	**2,270**	**1,330**	**20.5**
	8/29/2012	453.52	15.84	0.00	437.68	3.5	9.3	392	354	758.8	3.5	96.3	**6,070**	**1,530**	**85.7**
	12/19/2012	453.52	16.06	0.00	437.46	3.2	8.9	464	424	900.1	9.7	44.3 (J)	**8,770**	**1,760**	**153**
	3/20/2013	453.52	14.45	0.00	439.07	1.8	7.8	208	289	506.6	3.7	ND	**4,880**	**1,400**	**171**
	6/19/2013	453.52	15.46	0.00	438.06	1.6	6.1	193	150	350.7	2.4	5.4 (J)	**3,980**	**1,690**	**80.0**
	9/19/2013	453.52	16.49	0.00	437.03	2.4	8.0	386	259	647.4	2.8	ND	**6,250**	**1,520**	**162**
	11/22/2013	453.52	16.56	0.00	436.96	2.1	9.0	481	295	787.1	3.8	10.1 (J)	**8,920**	**1,230**	**197**
	3/20/2014	453.52	14.60	0.00	438.92	2.1	3.2	147	20.3	172.6	1.5	ND	**2,830**	**1,560**	**29.2**
	6/18/2014	453.52	Inaccessible - Sampled on 6/24/2014												
***	6/24/2014	453.52	16.89	0.00	436.63	4.8	10.5	396	284	695.3	**32.1**	256	**8,400**	***	**34.1**
***	6/30/2014	453.52	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	**1,840**	NS
	9/23/2014	452.69	18.44	0.00	434.25	1.3	5.5	350	389	745.8	**28.3**	125	**8,640**	**232**	**159**
	12/23/2014	452.69	19.02	0.00	433.67	1.4	4.3	200	177	382.7	**29.6**	90.1	**5,990**	**1,030**	**91.8**
	3/24/2015	452.69	18.67	0.00	434.02	3.6	1.9	97.4	53.4	156.3	**80.0**	130	**3,540**	**463**	**56.2**
	6/22/2015	452.69	18.29	0.00	434.40	5.0	3.6	117	117	242.6	**51.0**	145	**2,980**	**1,580**	**45.7**
	9/21/2015	452.69	18.42	0.00	434.27	**5.9**	2.6	77.0	73.2	158.7	18.0	89.7	**3,460**	**902**	**27.3**
	12/9/2015	452.69	18.81	0.00	433.88	**7.3**	2.5	63.3	40.4	113.5	18.1	93.2	**2,080**	**714**	**6.4**
	3/8/2016	452.69	18.16	0.00	434.53	**8.9**	1.6	36.9	11.6	59.0	**81.5**	138	**1,990**	**785**	**2.8 (J)**
	6/7/2016	452.69	18.19	0.00	434.50	**8.3**	1.5	32.0	14.4	56.2	**25.3**	73.8	**1,390**	**904**	**5.5**
	9/13/2016	452.69	18.62	0.00	434.07	**8.5**	1.5	31.6	15.6	57.2	10.7	73.5	**2,600**	**925**	**5.0**
	11/21/2016	452.69	19.14	0.00	433.55	**7.6**	1.8	39.0	21.8	70.2	7.4	77.1	**2,240**	**564**	**7.7**
	3/9/2017	452.69	19.63	0.00	433.06	**6.9**	1.1	27.8	14.0	49.8	9.7	ND	**1,720**	**434**	**4.5**
#	6/7/2017	452.69	18.89	0.00	433.80	**6.2**	0.81(J)	8.5	7.8	23.31 (J)	**43.2**	94.7	**1,130**	**585**	**ND (<1.0)**
	9/6/2017	452.69	18.78	0.00	433.91	**6.6**	2.2	42.6	35.4	86.8	8.2	64.6	**1,630**	**665**	**6.7**
	11/1/2017	452.69	19.07	0.00	433.62	**8.3**	3.3	63.2	56.2	131.0	9.2	96.2	**1,560**	**893**	**10.5**
	3/6/2018	452.69	19.31	0.00	433.38	3.3	0.56 (J)	3.3	2.2	9.36 (J)	**21.0**	72.8	**826**	**517**	**ND (<1.1)**
	6/20/2018	452.69	17.74	0.00	434.95	**18.4**	3.4	59.1	47.2	128.1	**52.7**	187	**1,810**	**866**	**12.0**
	9/5/2018	452.69	17.38	0.00	435.31	**12.9**	2.1	27.8	20.6	63.4	14.2	100	**1,410**	**715**	**4.6 (J)**
	7/18/2019	452.69	16.97	0.00	435.72	**5.1**	3.6	31.0	19.0	58.7	1.5	ND (<5.8)	**1,640**	**537**	**9.0**
	11/13/2019	452.69	18.28	0.00	434.41	**15.7**	12.5	112	96.9	237	0.80 (J)	8.0 (J)	**2,540**	**1,380**	**55.7**
	7/8/2020	452.69	17.12	0.00	435.57	**6.1**	2.8	28.6	12.8	50.3	2.7	26.4	**920**	**436**	**7.8**
	12/9/2020	452.69	17.51	0.00	435.18	**8.2**	9.1	39.8	56.9	114.0	0.75 (J)	68.7	**2,620**	**740**	**54.5**
	6/2/2021	452.69	17.62	0.00	435.07	4.5	2.7	29.0	8.1	44.3	4.1	56.6	**1,690**	**663**	**18.2**
	11/22/2021	452.69	18.51	0.00	434.18	**6.8**	4.3	20.0	14.9	46.0	2.0	ND (<5.8)	**2,200**	**655**	**37.4**
	5/17/2022	452.69	18.39	0.00	434.30	4.6	1.1	8.1	3.9	17.7	5.0	17.7	**1,610**	**305**	**10.7**
	12/7/2022	452.69	18.75	0.00	433.94	4.8	3.3	17.5	12.6	38.2	3.7	ND (<5.8)	**1,920**	**813**	**31.3**
	6/6/2023	452.69	18.59	0.00	434.10	2.2	0.91 (J)	9.4	4.5	17.0 (J)	7.3	ND (<5.8)	**1,410**	**627**	**13.8**
	10/31/2023	452.69	18.42	0.00	434.27	**5.8**	12.6	82.5	97.5	198.4	0.80 (J)	10.2	**5,080**	**1,500**	**186**
	6/19/2024	452.69	17.52	0.00	435.17	1.4	2.9	92.3	32.9	129.5	7.1	8.7 (J)	**1,500**	**764**	**50.1**
MDE MEAT GNCSG**						**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**47**	**47**	**0.7**

Table 3
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Sample Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
OW-1	11/22/2004	NSVD	18.36	0.00	NSVD	**74.8**	169	**919**	5,220	6,383	**25**	NS	NS	NS	NS
	2/23/2005	NSVD	17.93	0.00	NSVD	4.4	9.4	168	621	803	19.9	NS	NS	NS	NS
Casing:	5/19/2005	NSVD	17.44	0.00	NSVD	**14.5**	46	343	1,130	1,534	14.3	NS	NS	NS	NS
0 to 9 feet	8/24/2005	NSVD	18.44	0.00	NSVD	**43.1**	163	**831**	3,890	4,927	5.9	NS	NS	NS	NS
	11/8/2005	NSVD	18.57	0.00	NSVD	4.0	17.8	344	1,050	1,416	7.7	NS	NS	NS	NS
Screen:	2/10/2006	NSVD	17.35	0.00	NSVD	1.8	11.2	77.3	328	418	2.2	NS	NS	NS	NS
9 to 34 feet	5/15/2006	NSVD	17.99	0.00	NSVD	4.0 (J)	53.4	414	1,690	2,161	6.4	NS	NS	NS	NS
	8/9/2006	NSVD	18.15	0.00	NSVD	**5.8**	68.4	432	1,550	2,056	10.8	NS	NS	NS	NS
	10/17/2006	NSVD	18.50	0.00	NSVD	1.2 (J)	18.6	268	712	1,000	10.2	NS	NS	NS	NS
	4/11/2007	NSVD	17.68	0.00	NSVD	ND	26	320	1,400	1,746	8.7	ND	**14,000**	**3,000**	NS
	8/24/2007	NSVD	19.14	0.00	NSVD	ND	11	210	440	661	4.2	ND	**6,900**	**2,400**	NS
	12/27/2007	NSVD	18.98	0.00	NSVD	ND	5.8	120	3.1	128.9	3.3	13	**9,600**	**2,400**	NS
	3/27/2008	NSVD	18.24	0.00	NSVD	ND	4.2	69	382.5	455.7	5.0	7.6	**9,200**	**2,000**	NS
	6/25/2008	NSVD	NM	NM	NSVD	ND	8.7	163	347	518.7	ND	ND	**8,900**	**1,400**	NS
	9/24/2008	NSVD	16.30	0.00	NSVD	0.67 (J)	11.6	170	372	554.3	1.2	13.3 (J)	**8,400**	**1,550**	NS
	12/17/2008	NSVD	15.95	0.00	NSVD	0.46 (J)	6.2	96.3	248	351.0	ND	ND	**6,020**	**1,490**	NS
	3/31/2009	NSVD	19.19	0.00	NSVD	ND	3.4	31.2	157	191.6	1.9	ND (<25)	**8,110**	**1,820**	NS
	6/22/2009	NSVD	17.74	0.00	NSVD	0.60 (J)	7.5	111	352	471.1 (J)	1.0	ND (<25)	**7,200**	**1,710**	NS
	9/25/2009	NSVD	18.10	0.00	NSVD	ND	3.0	73.0	168	244.0	ND	ND (<50)	**5,920**	**2,960**	NS
	12/14/2009	NSVD	16.51	0.00	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/2009	NSVD	NM	NM	NM	0.30 (J)	6.3	209	934	1,149.6 (J)	0.44 (J)	ND (<25)	**8,690**	**1,440**	NS
	3/17/2010	NSVD	15.70	0.00	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/18/2010	NSVD	NM	NM	NM	ND	22.1	98.5	378	498.6	ND	ND (<25)	**6,880**	**2,030**	NS
23 ft. sample	8/25/2010	455.81	18.27	0.00	437.54	0.71 (J)	14.7	267	376	658.41 (J)	ND	ND	**8,780**	**2,290**	NS
28 ft.sample	8/25/2010	455.81	18.27	0.00	437.54	0.88 (J)	13.4	239	384	637.28 (J)	ND	ND	**8,290**	**2,500**	ND
	1/10/2011	455.81	18.99	0.00	436.82	0.81 (J)	13.1	143	376	532.91 (J)	ND	ND	**7,960**	**2,800**	**138**
	6/22/2011	455.81	18.73	0.00	437.08	ND	0.20 (J)	4.3	9.1	13.6 (J)	ND	ND	**353**	**1,110**	**4.1 (J)**
	9/28/2011	455.81	17.56	0.00	438.25	ND	2.0	41.0	110	153.0	ND	ND	**3,920**	**268**	**53.9**
	12/20/2012	455.81	15.49	0.00	440.32	0.53 (J)	2.2	33.9	124	160.63 (J)	ND	ND	**4,430**	**465**	**61.8**
	3/20/2012	455.81	17.84	0.00	437.97	0.41 (J)	2.5	24.2	107	134.11 (J)	0.87 (J)	ND	**6,030**	**1,760**	**74.4**
	5/15/2012	455.81	20.16	0.00	435.65	0.65 (J)	1.1	11.8	57.4	70.95 (J)	ND	ND	**2,630**	**514**	**29.4**
	8/28/2012	455.81	18.31	0.00	437.50	0.54 (J)	2.8	54.3	95.0	152.64 (J)	ND	ND	**5,060**	**1,840**	**70.0**
	12/18/2012	455.81	18.64	0.00	437.17	0.90 (J)	3.6	77.8	145	227.30 (J)	0.42 (J)	ND	**4,890**	**1,280**	**58.8**
	3/19/2013	455.81	18.05	0.00	437.76	0.80 (J)	2.0	21.5	84.5	108.80 (J)	0.74 (J)	ND	**3,670**	**1,280**	**41.3**
	6/18/2013	455.81	17.91	0.00	437.90	ND	1.5	21.8	48.1	71.4	ND	ND	**4,330**	**2,190**	**56.7**
	9/19/2013	455.81	19.03	0.00	436.78	ND	2.5	53.7	68.5	124.7	ND	ND	**3,910**	**1,200**	**65.5**
	11/22/2013	455.81	19.13	0.00	436.68	0.38 (J)	5.1	116	92.4	213.88 (J)	ND	ND	**5,810**	**1,620**	**98.6**
	3/20/2014	455.81	17.24	0.00	438.57	0.33 (J)	1.7	27.4	35.5	64.93 (J)	0.52 (J)	ND	**4,100**	**1,240**	**45.3**
***	6/18/2014	455.81	18.82	0.00	436.99	2.2	3.5	47.6	65.1	118.4	7.9	ND	**6,150**	***	**66.4**
***	6/30/2014	455.81	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	**2,020**	NS
	9/23/2014	455.31	20.88	0.00	434.43	0.43 (J)	1.6	53.3	135	190.33 (J)	1.5	56.7	**7,780**	**1,170**	**72.0**
	12/23/2014	455.31	21.28	0.00	434.03	0.81	1.4	13.1	34.2	49.51	1.5	33.9	**4,310**	**1,280**	**23.6**
	3/24/2015	455.31	21.08	0.00	434.23	0.47 (J)	0.64 (J)	2.3	8.9	12.31 (J)	ND	ND	**3,180**	**787**	**14.6**
	6/22/2015	455.31	20.58	0.00	434.73	1.4	0.32 (J)	1.0	1.8	4.52 (J)	6.9	29.5	**1,370**	**918**	**3.4 (J)**
	9/21/2015	455.31	20.73	0.00	434.58	1.7	0.27 (J)	1.4	1.8	5.17 (J)	5.3	24.5	**982**	**515**	**1.3 (J)**
	12/9/2015	455.31	21.23	0.00	434.08	2.3	0.23 (J)	0.93 (J)	1.3	4.76 (J)	6.9	19.5	**1,040**	**459**	**0.76 (J)**
	3/8/2016	455.31	20.54	0.00	434.77	1.9	ND	0.36 (J)	ND	2.26 (J)	6.1	ND	**1,100**	**373**	0.33 (J)
	6/7/2016	455.31	20.58	0.00	434.73	2.5	0.33 (J)	2.5	3.0	8.33 (J)	6.6	14.0	**934**	**370**	ND
	9/13/2016	455.31	21.03	0.00	434.28	0.99	ND	ND	ND	0.99	3.3	10.7	**583**	**209**	ND
	11/21/2016	455.31	21.82	0.00	433.49	1.2	ND	0.56 (J)	ND	1.76 (J)	4.2	11.4	**486**	**344**	ND
	3/9/2017	455.31	22.04	0.00	433.27	1.5	ND	0.34 (J)	0.58 (J)	2.42 (J)	7.9	ND	**845**	**298**	**ND (<1.0)**
#	6/7/2017	455.31	21.22	0.00	434.09	1.6	ND	0.47 (J)	0.69 (J)	2.76 (J)	7.3	11.5	**572**	**356**	**ND (<1.0)**
	9/6/2017	455.31	21.27	0.00	434.04	1.3	ND	0.37 (J)	0.45 (J)	2.12 (J)	4.7	12.8	**583**	**348**	**ND (<1.1)**
	11/1/2017	455.31	21.53	0.00	433.78	1.4	ND	0.49 (J)	0.32 (J)	2.2 (J)	6.1	11.3	**439**	**336**	**ND (<1.1)**
	3/6/2018	455.31	21.77	0.00	433.54	1.5	ND	1.3	8.6	11.4	7.5	19.7	**962**	**511**	**ND (<1.1)**
	6/20/2018	455.31	20.03	0.00	435.28	1.7	0.45 (J)	2.8	16.1	21.1 (J)	6.2	14.2	**746**	**469**	**ND (<1.1)**
	9/5/2018	455.31	19.61	0.00	435.70	2.2	ND	7.8	8.3	18.3	5.2	21.3	**816**	**441**	**1.2 (J)**
	7/18/2019	455.31	19.23	0.00	436.08	Not sampled									
	11/13/2019	455.31	20.66	0.00	434.65	Not sampled									
	7/8/2020	455.31	19.35	0.00	435.96	Not sampled									
	12/9/2020	455.31	19.70	0.00	435.61	Not sampled									
	6/2/2021	455.31	19.92	0.00	435.39	Not sampled									
	11/22/2021	455.31	20.86	0.00	434.45	Not sampled									
	5/17/2022	455.31	20.90	0.00	434.41	Not sampled									
	12/7/2022	455.31	21.14	0.00	434.17	Not sampled									
	6/7/2023	455.31	20.03	0.00	435.28	0.88	ND (<0.49)	ND (<0.60)	ND (<0.59)	<2.56	5.0	7.2 (J)	**641**	**506**	**ND (<2.5)**
	10/31/2023	455.31	20.80	0.00	434.51	Not sampled									
	6/19/2024	455.31	19.78	0.00	435.53	Not sampled									
MDE MEAT GNCSG**						**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**47**	**47**	**0.7**

Table 3
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Sample Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
YMW-1	6/13/2006	433.72	3.00	0.00	430.72	**21.7**	30.1	559	373	984	15.6	NS	NS	NS	NS
	7/17/2006	433.72	3.95	0.00	429.77	**5.3**	61.4	543	1,390	2,000	ND	NS	NS	NS	NS
Casing:	4/11/2007	433.72	4.89	0.00	428.83	**5.5**	140	**1,200**	3,300	4,646	ND	ND	**37,000**	ND	NS
0 to 2 feet	8/24/2007	433.72	5.94	0.00	427.78	4.6	60	660	850	1,574.6	ND	ND	**12,000**	**1,500**	NS
	12/27/2007	433.72	5.29	0.00	428.43	4.8	32	500	30	566.8	ND	ND	**14,000**	**1,500**	NS
Screen:	3/27/2008	433.72	5.19	0.00	428.53	**5.6**	73	610	1,510	2,198.6	1.2	ND	**9,600**	**1,000**	NS
2 to 14 feet	6/25/2008	433.72	1.68	0.00	432.04	4.0	92.7	648	1,700	2,444.7	ND	ND	**14,300**	**1,980**	NS
	9/24/2008	433.72	2.55	0.00	431.17	2.3	38.1	477	912	1,429.4	ND	ND	**11,200**	**1,010**	NS
	12/17/2008	433.72	2.30	0.00	431.42	2.0	38.5	346	1,000	1,386.5	ND	ND	**10,700**	**731**	NS
	3/31/2009	433.72	2.78	0.00	430.94	**7.7**	20.2	112	290	429.9	6.1	ND (<25)	**7,790**	**567**	NS
	6/22/2009	433.72	1.13	0.00	432.59	1.9 (J)	54.4	557	1,470	2,083.3 (J)	ND	ND (<130)	**11,600**	**1,810**	NS
	9/25/2009	433.72	0.20	0.00	433.52	2.0	28.1	325	701	1,056.1	ND	ND (<50)	**8,540**	**1,540**	NS
	12/14/2009	433.72	0.00	0.00	433.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/2009	433.72	NM	NM	NM	ND	40.7	401	1,490	1,931.7	ND	ND (<130)	**10,700**	**1,760**	NS
	3/17/2010	433.72	0.01	0.00	433.71	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/18/2010	433.72	NM	NM	NM	ND	60.4	407	1,060	1,527.4	ND	ND (<130)	**10,500**	**1,080**	NS
	8/25/2010	434.11	1.39	0.00	432.72	2.3 (J)	81.1	635	1,250	1,968.4	ND	131	**5,350**	**796**	**234**
	1/12/2011	434.11	1.51	0.00	432.60	1.8	40.6	464	1,620	2,126.4	ND	ND	**11,500**	**2,080**	**168**
	6/22/2011	434.11	1.34	0.00	432.77	0.74 (J)	18.0	181	392	591.74 (J)	ND	ND	**4,200**	**1,530**	**59.3**
	9/28/2011	434.11	0.03	0.00	434.08	1.6	31.3	463	685	1,180.9	ND	ND	**7,580**	**ND (<110)**	**168**
	12/20/2012	434.11	1.01	0.00	433.10	1.4 (J)	52.0	**792**	1,530	2375.4 (J)	ND	ND	**12,600**	**1,161**	**285**
	3/20/2012	434.11	0.90	0.00	433.21	0.51 (J)	11.4	145	298	454.91 (J)	ND	ND	**1,690**	**1,140**	**58.6**
†	5/15/2012	434.11	0.04	0.00	434.07	3.5	7.3	14.1	73.8	98.7	5.8	21.8 (J)	**2,420**	**1,650**	**83.3**
	8/28/2012	434.11	1.56	0.00	432.55	1.9 (J)	22.0	240	107	370.9 (J)	ND	ND	**5,040**	**1,860**	**156**
	12/18/2012	434.11	0.50	0.00	433.61	2.0	23.4	178	143	346.4	ND	ND	**3,790**	**616**	**15.1**
	3/19/2013	434.11	0.03	0.00	434.08	1.3	54.4	444	645	1,144.7	ND	ND	**6,810**	**807**	**184**
	6/18/2013	434.11	0.89	0.00	433.22	0.90 (J)	21.3	231	164	417.2 (J)	ND	ND	**3,770**	**1,280**	**104**
	9/19/2013	434.11	1.49	0.00	432.62	2.2	27.3	428	173	630.5	ND	ND	**5,960**	**1,560**	**200**
	11/22/2013	434.11	0.50	0.00	433.61	2.2	23.0	377	89.5	491.7	ND	ND	**8,760**	**1,130**	**186**
	3/20/2014	434.11	0.01	0.00	434.10	1.4	18.6	234	69.5	323.5	ND	ND	**3,210**	**659**	**57.4**
***	6/18/2014	434.11	3.62	0.00	430.49	3.3	19.2	96.6	104	223.1	ND	ND	**4,710**	***	**132**
***	6/30/2014	434.11	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	**1,040**	NS
	9/23/2014	433.64	5.33	0.00	428.31	0.72	1.4	0.98 (J)	2.7	5.8 (J)	ND	ND	**775**	**269**	**2.3 (J)**
	12/23/2014	433.64	4.19	0.00	429.45	0.31 (J)	0.33 (J)	2.5	0.61 (J)	3.75 (J)	ND	ND	**277**	**ND (<80)**	ND
	3/24/2015	433.64	3.02	0.00	430.62	ND	ND	2.0	0.57 (J)	2.57 (J)	ND	ND	ND	**ND (<77)**	**0.97 (J)**
	6/22/2015	433.64	3.04	0.00	430.60	ND	ND	0.39 (J)	ND	0.39 (J)	ND	ND	ND	**108**	ND
	9/21/2015	433.64	4.94	0.00	428.70	0.60	ND	0.61 (J)	ND	1.21 (J)	ND	ND	**205**	**144**	**0.81 (J)**
	12/9/2015	433.64	4.37	0.00	429.27	ND	ND	1.7	ND	1.7	ND	ND	ND	**160**	ND
	3/8/2016	433.64	3.31	0.00	430.33	ND	ND	ND	ND	ND	ND	ND	**ND (<55)**	**ND (<64)**	ND
	6/7/2016	433.64	3.90	0.00	429.74	ND	ND	ND	ND	ND	ND	ND	**ND (<55)**	**ND (<64)**	ND
	9/13/2016	433.64	5.47	0.00	428.17	0.86	ND	ND	ND	0.86	ND	ND	**157 (J)**	**112**	ND
	11/21/2016	433.64	6.21	0.00	427.43	0.35 (J)	ND	ND	ND	0.35 (J)	ND	ND	**ND (<100)**	**ND (<64)**	ND
	3/9/2017	433.64	5.40	0.00	428.24	0.41 (J)	ND	13.1	0.46 (J)	13.97 (J)	ND	ND	**184**	**ND (<64)**	**ND (<1.0)**
‡	6/7/2017	433.64	4.25	0.00	429.39	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<64)**	**ND (<1.0)**
	9/6/2017	433.64	4.44	0.00	429.20	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND(<83)**	**ND (<1.1)**
	11/1/2017	433.64	5.37	0.00	428.27	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND(<83)**	**ND (<1.1)**
	3/6/2018	433.64	4.16	0.00	429.48	ND	ND	0.86 (J)	ND	0.86 (J)	ND	ND	**ND (<100)**	**90.6**	**ND (<1.1)**
	6/20/2018	433.64	3.08	0.00	430.56	0.55	ND	ND	ND	0.55	ND	ND	**ND (<100)**	**ND(<83)**	**ND (<1.1)**
	9/5/2018	433.64	3.35	0.00	430.29	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND(<53)**	**ND (<0.90)**
	7/18/2019	433.64	2.73	0.00	430.91	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	ND (<42)	**ND(<53)**	**ND (<0.98)**
	11/13/2019	433.64	4.19	0.00	429.45	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**128**	**ND(<53)**	**ND (<2.5)**
	7/8/2020	433.64	2.87	0.00	430.77	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<100)**	**ND(<53)**	**ND (<2.5)**
	12/9/2020	433.64	2.59	0.00	431.05	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<100)**	**ND(<53)**	**ND (<2.5)**
	6/2/2021	433.64	3.41	0.00	430.23	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<100)**	**ND(<49)**	**ND (<2.5)**
	11/22/2021	433.64	4.09	0.00	429.55	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<100)**	**128**	**ND (<2.5)**
	5/17/2022	433.64	2.93	0.00	430.71	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<110)**	**ND(<53)**	**ND (<2.5)**
	12/7/2022	433.64	3.27	0.00	430.37	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	ND (<0.51)	ND (<5.8)	**ND (<110)**	**ND(<55)**	**ND (<2.5)**
	6/6/2023	433.64	4.40	0.00	429.24	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	ND (<0.51)	ND (<5.8)	**ND (<110)**	**ND (<64)**	**ND (<2.5)**
	10/31/2023	433.64	4.25	0.00	429.39	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	ND (<0.51)	ND (<5.8)	**114**	ND (<38)	**ND (<4.4)**
	6/19/2024	433.64	3.74	0.00	429.90	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	ND (<0.51)	ND (<5.8)	**111**	ND (<38)	**ND (<4.4)**
MDE MEAT GNCSG**						**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**47**	**47**	**0.7**

Table 3
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Sample Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
YMW-2	6/13/2006	431.42	0.89	0.00	430.53	3.3	47.6	211	656	917.9	2.3	NS	NS	NS	NS
	7/17/2006	431.42	1.25	0.00	430.17	**14.9**	25.6	533	285	858.5	10.7	NS	NS	NS	NS
Casing:	4/11/2007	431.42	1.60	0.00	429.82	**15**	24	630	670	1,339	14	17	**1,400**	**3,000**	NS
0 to 2 feet	8/24/2007	431.42	2.61	0.00	428.81	**16**	59	250	270	595	14	ND	**4,800**	**3,200**	NS
	12/27/2007	431.42	2.48	0.00	428.94	**13**	21	370	14	418	9.9	17	**13,000**	**2,300**	NS
Screen:	3/27/2008	431.42	1.06	0.00	430.36	**8.2**	21	260	395	684.2	7.7	ND	**7,700**	**1,400**	NS
2 to 14 feet	6/25/2008	431.42	1.00	0.00	430.42	**11.5**	38.5	66.3	163	279.3	10.5	ND	**6,010**	**1,550**	NS
	9/24/2008	431.42	1.15	0.00	430.27	**13.5**	45.7	125	215	399.2	9	ND	**7,710**	**2,000**	NS
	12/17/2008	431.42	1.00	0.00	430.42	1.3	2.4	22.7	33.9	60.3	1.1	ND	**920**	ND	NS
	3/31/2009	431.42	1.66	0.00	429.76	**8.1**	23.2	164	357	552.3	5.8	ND (<25)	**7,750**	**1,030**	NS
	6/22/2009	431.42	0.60	0.00	430.82	**6.6**	14.6	43.8	93.8	158.8	4.1	ND (<25)	**3,960**	**977**	NS
	9/25/2009	431.42	0.30	0.00	431.12	**9.1**	25.8	73.0	178	285.9	6.5	ND (<25)	**5,290**	**3,070**	NS
	12/14/2009	431.42	0.10	0.00	431.32	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/2009	431.42	NM	NM	NM	4.8	12.0	117	176	309.8	2.7	ND (<25)	**4,560**	**534**	NS
	3/17/2010	431.42	0.74	0.00	430.68	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/18/2010	431.42	NM	NM	NM	4.9	17.0	115	187	323.9	3.8	ND (<25)	**3,670**	**549**	NS
	8/25/2010	431.34	0.90	0.00	430.44	**6.9**	25.4	63.8	118	214.1	5.3	ND	**5,820**	**1,580**	**239**
	1/11/2011	431.34	1.39	0.00	429.95	**7.0**	23.6	199	251	480.6	4.8	ND	**7,190**	**1,950**	**215**
	6/23/2011	431.34	0.87	0.00	430.47	1.8	3.0	2.1	7.8	14.7	5.5	ND	**2,140**	**649**	**17.8**
	9/29/2011	431.34	0.08	0.00	431.26	**6.9**	19.6	29.0	138	193.5	9.4	31.5	**3,010**	**1,140**	**150**
	12/21/2012	431.34	0.92	0.00	430.42	**7.2**	14.9	98.0	194	314.1	8.6	ND	**5,510**	**1,470**	**164**
	3/21/2012	431.34	1.18	0.00	430.16	4.1	8.6	38.1	90.5	141.3	6.5	27.3	**3,800**	**859**	**86.2**
	5/16/2012	431.34	1.47	0.00	429.87	1.0 (J)	28.6	450	551	1,030.6 (J)	ND	ND	**8,100**	**1,820**	**247**
	8/29/2012	431.34	0.59	0.00	430.75	4.7	15.2	25.4	135	180.3	4.7	39.0	**4,490**	**1,990**	**157 (E)**
	12/19/2012	431.34	1.03	0.00	430.31	4.5	19.1	77.9	229	330.5	3.1	ND	**6,000**	**1,300**	**148**
	3/20/2013	431.34	1.00	0.00	430.34	2.9	12.4	55.1	133	203.4	5.0	ND	**3,550**	**582**	**96.5**
	6/19/2013	431.34	0.58	0.00	430.76	2.2	7.9	6.2	85.8	102.1	4.6	ND	**3,190**	**612**	**61.1**
	9/19/2013	431.34	0.08	0.00	431.26	3.2	18.9	23.3	158	203.4	2.7	ND	**3,770**	**1,250**	**102**
	11/22/2013	431.34	0.50	0.00	430.84	0.98 (J)	4.1	12.3	67.9	85.28 (J)	1.4	ND	**2,180**	**747**	**34.3**
	3/20/2014	431.34	0.00	0.00	431.34	4.5	7.6	124	178	314.1	4.7	ND	**4,340**	**934**	**76.6**
***	6/18/2014	431.34	1.23	0.00	430.11	0.89	0.43 (J)	9.4	24.6	35.32 (J)	ND	ND	**729**	***	**2.2 (J)**
***	6/30/2014	431.34	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	**183**	NS
	9/23/2014	431.37	2.51	0.00	428.86	3.4	ND	ND	ND	3.4	13.4	77.3	**759**	**313**	ND
	12/23/2014	431.37	2.64	0.00	428.73	2.7	ND	ND	ND	2.7	18.7	103	**740**	**310**	ND
	3/24/2015	431.37	2.78	0.00	428.59	3.0	0.27 (J)	ND	ND	3.27 (J)	**22.6**	92.9	**671**	**309**	ND
	6/22/2015	431.37	2.51	0.00	428.86	2.4	ND	ND	ND	2.4	12.7	87.7	**336**	**315**	0.41 (J)
	9/21/2015	431.37	2.58	0.00	428.79	4.0	ND	ND	ND	4.0	18.2	150	**391**	**320**	ND
	12/9/2015	431.37	3.94	0.00	427.43	**6.8**	1.6	0.96 (J)	5.7	15.06 (J)	16.5	202	**671**	**345**	**1.6 (J)**
	3/8/2016	431.37	2.97	0.00	428.40	2.2	ND	ND	ND	2.2	19.6	96.2	**364**	**ND (<64)**	ND
	6/7/2016	431.37	2.84	0.00	428.53	**5.2**	ND	ND	ND	5.2	14.3	99.4	**222**	**ND (<64)**	ND
	9/13/2016	431.37	2.44	0.00	428.93	3.3	ND	ND	ND	3.3	11.6	135	**304**	**489**	ND
	11/21/2016	431.37	2.94	0.00	428.43	**5.8**	ND	ND	ND	5.8	ND	185	**645**	**260**	ND
	3/9/2017	431.37	2.94	0.00	428.43	**5.8**	ND	0.51 (J)	0.45 (J)	6.76 (J)	7.9	185	**727**	**ND (<64)**	**ND (<1.0)**
	6/7/2017	431.37	3.10	0.00	428.27	1.1	ND	ND	ND	1.1	11.5	238	**376**	**318**	**ND (<1.0)**
	9/6/2017	431.37	2.65	0.00	428.72	ND	ND	ND	ND	ND	10.7	280	**334**	**358**	**ND (<1.1)**
	11/1/2017	431.37	2.67	0.00	428.70	ND	ND	ND	ND	ND	ND	338	**374**	**420**	**ND (<1.1)**
	3/6/2018	431.37	2.85	0.00	428.52	0.53	ND	ND	ND	0.53	5.8	200	**514**	**308**	**ND (<1.1)**
	6/20/2018	431.37	2.58	0.00	428.79	ND	ND	ND	ND	ND	**20.6**	189	**150 (J)**	**162**	**ND (<1.1)**
	9/5/2018	431.37	2.51	0.00	428.86	ND	ND	ND	ND	ND	**22.3**	184	**144 (J)**	**151**	**ND (<0.98)**
	7/18/2019	431.37	3.01	0.00	428.36	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	**54.4**	59.0	**158 (J)**	**ND (<53)**	**ND (<0.98)**
	11/13/2019	431.37	2.61	0.00	428.76	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	9.4	27.5	**337**	**178**	**ND (<2.5)**
	7/8/2020	431.37	1.27	0.00	430.10	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	1.5	ND (<5.8)	**ND (<100)**	**ND (<53)**	**ND (<2.5)**
	12/9/2020	431.37	2.13	0.00	429.24	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	**85.5**	42.6	**173**	**ND (<53)**	**ND (<2.5)**
	6/2/2021	431.37	2.55	0.00	428.82	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	**122**	42.4	**169**	**218**	**ND (<2.5)**
	11/22/2021	431.37	2.38	0.00	428.99	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	15.3	59.3	**611**	**488**	**ND (<2.5)**
	5/17/2022	431.37	2.17	0.00	429.20	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	**46.9**	31.3	**250**	**ND (<53)**	**ND (<2.5)**
	12/7/2022	431.37	2.10	0.00	429.27	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	2.4	ND (<5.8)	**ND (<110)**	**ND(<53)**	**ND (<2.5)**
	6/6/2023	431.37	2.74	0.00	428.63	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	16.3	20.0	**470**	**558**	**ND (<2.5)**
	10/31/2023	431.37	2.55	0.00	428.82	1.9	0.58 (J)	ND (<0.60)	5.4	<8.5	6.8	14.6	**444**	**188**	**ND (<4.4)**
	6/19/2024	431.37	2.52	0.00	428.85	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	**49.5**	26.7	**247**	**110**	**ND (<4.4)**
YMW-3	9/23/2014	440.39	9.41	0.00	430.98	ND	0.39 (J)	9.0	5.1	14.49 (J)	ND	ND	**268**	**327**	**1.1 (J)**
	12/23/2014	440.39	9.86	0.00	430.53	ND	ND	ND	ND	ND	ND	ND	ND	**ND (<80)**	ND
Casing:	3/24/2015	440.39	8.17	0.00	432.22	ND	ND	ND	ND	ND	ND	ND	ND	**ND (<76)**	ND
0 to 4.5 feet	6/22/2015	440.39	8.54	0.00	431.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/21/2015	440.39	9.21	0.00	431.18	ND	ND	ND	ND	ND	ND	ND	ND	**ND (<58)**	ND
Screen:	12/9/2015	440.39	8.83	0.00	431.56	ND	ND	ND	ND	ND	ND	ND	ND	**231**	ND
4.5 to 19.5 feet	3/8/2016	440.39	8.63	0.00	431.76	ND	ND	ND	ND	ND	ND	ND	**ND (<55)**	**ND (<64)**	ND
	6/7/2016	440.39	8.86	0.00	431.53	ND	ND	ND	ND	ND	ND	ND	**ND (<55)**	**ND (<64)**	ND
	9/13/2016	440.39	9.54	0.00	430.85	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<64)**	ND
	11/21/2016	440.39	10.44	0.00	429.95	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<64)**	ND
	3/9/2017	440.39	9.55	0.00	430.84	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<64)**	**ND (<1.0)**
‡	6/7/2017	440.39	8.82	0.00	431.57	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<64)**	**ND (<1.0)**
	9/6/2017	440.39	8.84	0.00	431.55	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	11/1/2017	440.39	9.34	0.00	431.05	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	3/6/2018	440.39	7.97	0.00	432.42	ND	ND	ND	ND	ND	ND	13.3	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	6/20/2018	440.39	8.27	0.00	432.12	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	9/5/2018	440.39	8.48	0.00	431.91	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<53)**	**ND (<0.98)**
	7/18/2019	440.39	8.12	0.00	432.27	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	ND (<42)	**ND (<53)**	**ND (<0.98)**
	11/13/2019	440.39	8.56	0.00	431.83	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<100)**	**ND (<53)**	**ND (<2.5)**
	7/8/2020	440.39	7.78	0.00	432.61	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<100)**	**ND (<53)**	**ND (<2.5)**
	12/9/2020	440.39	8.01	0.00	432.38	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<100)**	**ND (<53)**	**ND (<2.5)**
	6/2/2021	440.39	8.54	0.00	431.85	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<100)**	**ND (<49)**	**ND (<2.5)**
	11/22/2021	440.39	8.85	0.00	431.54	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<100)**	**99.7**	**ND (<2.5)**
	5/17/2022	440.39	8.44	0.00	431.95	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<110)**	**ND (<51)**	**ND (<2.5)**
	12/7/2022	440.39	8.62	0.00	431.77	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	ND (<0.51)	ND (<5.8)	**ND (<110)**	**ND (<53)**	**ND (<2.5)**
	6/6/2023	440.39	9.12	0.00	431.27	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	ND (<0.51)	ND (<5.8)	**ND (<110)**	**ND (<70)**	**ND (<2.5)**
	10/31/2023	440.39	8.93	0.00	431.46	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	ND (<0.51)	ND (<5.8)	**ND (<110)**	ND (<40)	**ND (<4.4)**
	6/19/2024	440.39	8.76	0.00	431.63	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	ND (<0.51)	ND (<5.8)	**ND (<110)**	ND (<39)	**ND (<4.4)**
MDE MEAT GNCSG**						**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**47**	**47**	**0.7**

Table 3
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Sample Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
YMW-4	9/23/2014	433.72	4.71	0.00	429.01	**6.1**	9.2	94.0	192	301.3	4.3	ND	**3,780**	**1,050**	**45.0**
	12/23/2014	433.72	4.31	0.00	429.41	**5.7**	14.2	44.7	219	283.6	5.9	16.6	**4,240**	**612**	**57.3**
Casing:	3/24/2015	433.72	4.06	0.00	429.66	4.0	21.6	36.6	434	496.2	10.6	53.8	**4,470**	**1,190**	**73.1**
0 to 2 feet	6/22/2015	433.72	3.96	0.00	429.76	**5.6**	21.6	36.3	376	439.5	**24.5**	114	**4,280**	**2,460**	**124**
	9/21/2015	433.72	4.45	0.00	429.27	**7.8**	17.2	33.2	289	347.2	**38.9**	163	**5,480**	**1,560**	**138**
Screen:	12/9/2015	433.72	4.34	0.00	429.38	**9.2**	13.7	31.9	252	306.8	**38.4**	251	**5,110**	**1,560**	**87.8**
2 to 17 feet	3/8/2016	433.72	4.18	0.00	429.54	2.4	3.1	4.4	39.0	48.9	10	68.8	**828**	**414**	**15.8**
	6/7/2016	433.72	4.18	0.00	429.54	**13.9**	9.5	27.8	116	167.2	**32.3**	280	**4,040**	**1,790**	**98.7**
	9/13/2016	433.72	4.46	0.00	429.26	**18.4**	8.7	25.3	108	160.4	**24.9**	240	**3,500**	**2,490**	**64.3**
	11/21/2016	433.72	4.85	0.00	428.87	**18.8**	5.2	13.6	59.5	97.1	**28.4**	247	**3,520**	**299**	**28.9**
	3/9/2017	433.72	4.30	0.00	429.42	**19.6**	4.8	8.9	47.4	80.7	**50.9**	ND	**2,830**	**925**	**32.4**
	6/7/2017	433.72	4.26	0.00	429.46	**13.4**	3.0	7.6	18.7	42.7	**21.4**	169	**1,940**	**1,300**	**20.8**
	9/6/2017	433.72	4.18	0.00	429.54	0.49 (J)	ND	0.70 (J)	1.6	2.79 (J)	0.46 (J)	7.2 (J)	**262**	**134**	**ND (<1.1)**
	11/1/2017	433.72	4.41	0.00	429.31	**20.9**	12.9	35.9	286	355.7	17.8	345	**3,570**	**1,730**	**50.3**
	3/6/2018	433.72	4.24	0.00	429.48	**6.2**	2.2	3.6	29.6	41.6	10.0	144	**688**	**383**	**4.8 (J)**
	6/20/2018	433.72	3.89	0.00	429.83	5.0	ND	0.63 (J)	ND	5.6 (J)	16.6	361	**591**	**623**	**ND (<1.1)**
	9/5/2018	433.72	4.01	0.00	429.71	**10.4**	0.72 (J)	4.2	5.7	21.0 (J)	14.0	355	**1,010**	**813**	**1.9 (J)**
	7/18/2019	433.72	3.79	0.00	429.93	1.8	ND (<0.53)	ND (<0.60)	ND (<0.59)	<3.5	**181**	384	**625**	**406**	**ND (<0.98)**
	11/13/2019	433.72	4.16	0.00	429.56	**8.7**	0.60 (J)	ND (<0.60)	ND (<0.59)	<10.5	6.6	120	**764**	**582**	**ND (<2.5)**
	7/8/2020	433.72	3.53	0.00	430.19	**12.0**	1.5	2.1	7.6	23.2	ND (<0.51)	87.0	**1,070**	**893**	**8.7**
	12/9/2020	433.72	3.57	0.00	430.15	**9.7**	ND (<0.53)	ND (<0.60)	ND (<0.59)	<11.4	**36.1**	89.5	**836**	**496**	**ND (<2.5)**
	6/2/2021	433.72	4.07	0.00	429.65	**11.9**	0.56 (J)	ND (<0.60)	ND (<0.59)	<13.7	**130**	153	**1,080**	**460**	**ND (<2.5)**
	11/22/2021	433.72	4.11	0.00	429.61	**5.2**	ND (<0.53)	ND (<0.60)	ND (<0.59)	<6.9	6.2	56.1	**749**	**548**	**ND (<2.5)**
	5/17/2022	433.72	3.80	0.00	429.92	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	17.0	77.5	**887**	**174**	**ND (<2.5)**
	12/7/2022	433.72	3.79	0.00	429.93	0.65	ND (<0.49)	ND (<0.60)	ND (<0.59)	<2.33	7.0	31.8	**620**	**225**	**ND (<2.5)**
	6/6/2023	433.72	4.50	0.00	429.22	2.4	1.1	ND (<0.60)	3.0	<7.1	8.9	46.0	**1,840**	**1,040**	**ND (<2.5)**
	10/31/2023	433.72	4.26	0.00	429.46	1.4	0.60 (J)	ND (<0.60)	2.2	<4.8	4.8	20.4	**716**	**286**	**ND (<4.4)**
	6/19/2024	433.72	4.14	0.00	429.58	0.60	ND (<0.49)	ND (<0.60)	ND (<0.59)	<2.28	**84.7**	95.7	**382**	**207**	**ND (<4.4)**
YMW-5	9/23/2014	430.70	4.42	0.00	426.28	ND	ND	ND	181	0.63 (J)	6.6	ND	**294**	**273**	ND
	12/23/2014	430.70	5.52	0.00	425.18	0.25 (J)	ND	ND	ND	0.25 (J)	5.6	ND	ND	**ND (<80)**	ND
Casing:	3/24/2015	430.70	3.05	0.00	427.65	0.65	ND	ND	ND	0.65	7.7	7.0 (J)	ND	**ND (<80)**	ND
0 to 1 feet	6/22/2015	430.70	3.05	0.00	427.65	0.92	ND	ND	ND	0.92	6.3	10.3	ND	**123**	ND
	9/21/2015	430.70	3.52	0.00	427.18	0.54	ND	ND	ND	0.54	9.2	23.5	ND	**98.0**	ND
Screen:	12/9/2015	430.70	3.16	0.00	427.54	0.35 (J)	ND	ND	ND	0.35 (J)	7.4	27.3	ND	**ND (<64)**	ND
1 to 16 feet	3/8/2016	430.70	2.99	0.00	427.71	0.38 (J)	ND	ND	ND	0.38 (J)	6.8	19.7	**ND (<55)**	**ND (<64)**	ND
	6/7/2016	430.70	3.01	0.00	427.69	0.23 (J)	ND	ND	ND	0.23 (J)	6.8	12.6	**ND (<55)**	**ND (<64)**	ND
	9/13/2016	430.70	3.39	0.00	427.31	0.20 (J)	ND	ND	ND	0.20 (J)	6.6	15.4	**ND (<100)**	**ND (<64)**	ND
	11/21/2016	430.70	3.74	0.00	426.96	ND	ND	ND	ND	ND	6.2	26.2	**ND (<100)**	**565**	ND
	3/9/2017	430.70	3.14	0.00	427.56	0.30 (J)	ND	ND	ND	0.30 (J)	5.7	23.2	**ND (<100)**	**ND (<64)**	**ND (<100)**
	6/7/2017	430.70	3.07	0.00	427.63	0.25 (J)	ND	ND	ND	0.25 (J)	4.5	13.5	**ND (<100)**	**105**	**ND (<100)**
	9/6/2017	430.70	2.98	0.00	427.72	ND	ND	ND	ND	ND	3.6	12.2	**ND (<100)**	**171**	**ND (<1.1)**
	11/1/2017	430.70	3.23	0.00	427.47	ND	ND	ND	ND	ND	5.5	27.9	**ND (<100)**	**109**	**ND (<1.1)**
	3/6/2018	430.70	2.83	0.00	427.87	ND	ND	ND	ND	ND	4.2	27.9	**ND (<100)**	**98.6**	**ND (<1.1)**
	6/20/2018	430.70	2.67	0.00	428.03	ND	ND	ND	ND	ND	3.0	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	9/5/2018	430.70	2.74	0.00	427.96	ND	ND	ND	ND	ND	3.3	ND	**ND (<100)**	**ND (<53)**	**ND (<0.98)**
	7/18/2019	430.70	2.36	0.00	428.34	Not sampled									
	11/13/2019	430.70	2.70	0.00	428.00	Not sampled									
	7/8/2020	430.70	1.87	0.00	428.83	Not sampled									
	12/9/2020	430.70	2.31	0.00	428.39	Not sampled									
	6/2/2021	430.70	2.67	0.00	428.03	Not sampled									
	11/22/2021	430.70	2.65	0.00	428.05	Not sampled									
	5/17/2022	430.70	2.43	0.00	428.27	Not sampled									
	12/7/2022	430.70	0.82	0.00	429.88	Not sampled									
	6/6/2023	430.70	3.14	0.00	427.56	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	3.3	ND (<5.8)	**ND (<110)**	**293**	**ND (<2.5)**
	10/31/2023	430.70	2.81	0.00	427.89	Not sampled									
	6/19/2024	430.70	4.37	0.00	426.33	Not sampled									
YMW-6	9/23/2014	432.68	6.61	0.00	426.07	ND	ND	ND	ND	ND	1.5	26.9	ND	**ND (<80)**	ND
	12/23/2014	432.68	5.69	0.00	426.99	ND	ND	ND	ND	ND	1.4	24.7	ND	**ND (<80)**	ND
Casing:	3/24/2015	432.68	5.11	0.00	427.57	ND	ND	ND	ND	ND	2.1	44.5	ND	**ND (<80)**	ND
0 to 3 feet	6/22/2015	432.68	5.11	0.00	427.57	ND	ND	ND	ND	ND	2.4	65.6	ND	ND	ND
	9/21/2015	432.68	6.11	0.00	426.57	ND	ND	ND	ND	ND	2.9	73.3	ND	**76.9**	ND
Screen:	12/9/2015	432.68	5.56	0.00	427.12	ND	ND	ND	ND	ND	2.9	80.3	ND	**ND (<64)**	ND
3 to 18 feet	3/8/2016	432.68	5.10	0.00	427.58	ND	ND	ND	ND	ND	3.3	91.0	**ND (<55)**	**ND (<64)**	ND
	6/7/2016	432.68	5.36	0.00	427.32	ND	ND	ND	ND	ND	4.3	109	**ND (<55)**	**ND (<64)**	ND
	9/13/2016	432.68	6.38	0.00	426.30	ND	ND	ND	ND	ND	4.3	98.6	**ND (<100)**	**ND (<64)**	ND
	11/21/2016	432.68	7.05	0.00	425.63	ND	ND	ND	ND	ND	3.8	85.9	**ND (<100)**	**ND (<64)**	ND
	3/9/2017	432.68	6.25	0.00	426.43	ND	ND	ND	ND	ND	4.5	ND	**ND (<100)**	**ND (<64)**	**ND (<1.0)**
	6/7/2017	432.68	5.49	0.00	427.19	ND	ND	ND	ND	ND	4.9	97.3	**ND (<100)**	**ND (<64)**	**ND (<1.0)**
	9/6/2017	432.68	6.25	0.00	426.43	ND	ND	ND	ND	ND	4.0	89.6	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	11/1/2017	432.68	6.65	0.00	426.03	ND	ND	ND	ND	ND	4.7	83.7	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	3/6/2018	432.68	5.35	0.00	427.33	ND	ND	ND	ND	ND	5.0	85.6	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	6/20/2018	432.68	4.89	0.00	427.79	ND	ND	ND	ND	ND	5.5	96.8	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	9/5/2018	432.68	5.05	0.00	427.63	ND	ND	ND	ND	ND	5.3	98.4	**ND (<100)**	**ND (<53)**	**ND (<0.98)**
	7/18/2019	432.68	4.74	0.00	427.94	Not sampled									
	11/13/2019	432.68	5.49	0.00	427.19	Not sampled									
	7/8/2020	432.68	4.65	0.00	428.03	Not sampled									
	12/9/2020	432.68	4.48	0.00	428.20	Not sampled									
	6/2/2021	432.68	5.03	0.00	427.65	Not sampled									
	11/22/2021	432.68	5.44	0.00	427.24	Not sampled									
	5/17/2022	432.68	4.78	0.00	427.90	Not sampled									
	12/7/2022	432.68	4.97	0.00	427.71	Not sampled									
	6/6/2023	432.68	5.71	0.00	426.97	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	5.3	52.2	**ND (<110)**	**207**	**ND (<2.5)**
	10/31/2023	432.68	5.65	0.00	427.03	Not sampled									
	6/19/2024	432.68	5.38	0.00	427.30	Not sampled									
MDE MEAT GNCSG**						**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**47**	**47**	**0.7**

Table 3
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Sample Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
YMW-7	9/23/2014	449.40	15.33	0.00	434.07	**173**	141	428	2,240	2,982	10.0	ND	**17,500**	**1,670**	**73.6**
	12/23/2014	449.40	15.16	0.00	434.24	**176**	130	690	2,580	3,576	9.1 (J)	ND	**23,800**	**2,250**	**99.7**
Casing:	3/24/2015	449.40	15.54	0.00	433.86	**142**	78.0	261	2,330	2,811	11.4	ND	**16,300**	**2,560**	**92.8**
0 to 18 feet	6/22/2015	449.40	15.22	0.00	434.18	**134**	37.4	146	828	1,145.4	9.1	ND	**6,820**	**1,680**	**39.8**
	9/21/2015	449.40	15.32	0.00	434.08	**101**	18.9	67.9	286	473.8	8.3	17.0	**4,970**	**736**	**22.1**
Screen:	12/9/2015	449.40	15.68	0.00	433.72	**129**	80.2	301	1,140	1,650.2	7.3	ND	**14,100**	**1,630**	**122**
18 to 28 feet	3/8/2016	449.40	15.13	0.00	434.27	**136**	52.0	140	688	1,016.0	7.3	17.0 (J)	**7,050**	**1,300**	**97.7**
	6/7/2016	449.40	15.09	0.00	434.31	**127**	42.3	166	620	955.3	7.6	15.7	**7,370**	**1,320**	**75.6**
	9/13/2016	449.40	15.47	0.00	433.93	**118**	65.2	296	961	1,440.2	6.9	14.0 (J)	**9,010**	**1,480**	**103**
	11/21/2016	449.40	15.69	0.00	433.71	**97.2**	68.1	313	1,080	1,558.3	ND	ND	**10,300**	**841**	**108**
	3/9/2017	449.40	16.31	0.00	433.09	**45.0**	81.7	342	1,450	1,918.7	1.9	ND	**12,000**	**1,290**	**121**
	6/7/2017	449.40	15.24	0.00	434.16	**60.0**	76.2	303	1,310	1,749.2	2.6 (J)	ND	**13,100**	**2,350**	**124**
	9/6/2017	449.40	15.68	0.00	433.72	**57.3**	92.3	398	1,470	2,017.6	ND	ND	**13,200**	**1,650**	**130**
	11/1/2017	449.40	15.91	0.00	433.49	**48.5**	89.6	374	1,550	2,062	ND	ND	**13,200**	**2,330**	**116**
	3/6/2018	449.40	16.12	0.00	433.28	**37.9**	54.1	267	1,190	1,549	1.4	ND	**13,000**	**2,170**	**91.5**
	6/20/2018	449.40	14.75	0.00	434.65	**57.9**	23.6	195	473	750	2.7	15.9 (J)	**6,530**	**1,100**	**63.4**
	9/5/2018	449.40	14.43	0.00	434.97	**64.9**	10.1	105	207	387	3.5	12.1	**3,810**	**ND (<53)**	**39.8**
	7/18/2019	449.40	13.96	0.00	435.44	Not sampled									
	11/13/2019	449.40	14.98	0.00	434.42	Not sampled									
	7/8/2020	449.40	14.11	0.00	435.29	Not sampled									
	12/9/2020	449.40	14.32	0.00	435.08	Not sampled									
	6/2/2021	449.40	14.53	0.00	434.87	Not sampled									
	11/22/2021	449.40	15.32	0.00	434.08	Not sampled									
	5/17/2022	449.40	15.26	0.00	434.14	Not sampled									
	12/7/2022	449.40	15.58	0.00	433.82	Not sampled									
	6/6/2023	449.40	15.43	0.00	433.97	**44.0**	7.0	185	319	555	1.7	ND (<5.8)	**4,100**	**1,560**	**72.3**
	10/31/2023	449.40	15.35	0.00	434.05	Not sampled									
	6/19/2024	449.40	14.48	0.00	434.92	Not sampled									
YMW-8	9/23/2014	446.91	13.63	0.00	433.28	**56.4**	46.8	638	2,270	3,011.2	**50.8**	ND	**16,100**	**1,820**	**182**
	12/23/2014	446.91	13.96	0.00	432.95	**61.9**	50.5	**793**	2,570	3,475.4	**40.0**	ND	**17,800**	**2,450**	**216**
Casing:	3/24/2015	446.91	12.91	0.00	434.00	ND	ND	ND	ND	ND	ND	ND	ND	**ND (<80)**	ND
0 to 7 feet	6/22/2015	446.91	13.44	0.00	433.47	**91.5**	18.4	255	395	759.9	**28.4**	17.2	**4,330**	**1,710**	**75.9**
	9/21/2015	446.91	13.85	0.00	433.06	**45.7**	24.9	533	1,150	1,753.6	**31.2**	ND	**16,600**	**1,900**	**145**
Screen:	12/9/2015	446.91	13.94	0.00	432.97	**39.5**	96.9	631	1,500	2,267.4	**24.6**	ND	**18,400**	**2,470**	**169**
7 to 22 feet	3/8/2016	446.91	13.05	0.00	433.86	ND	ND	ND	ND	ND	ND	ND	**ND (<55)**	**ND (<64)**	ND
	6/7/2016	446.91	13.52	0.00	433.39	**72.4**	14.6	341	185	613.0	**29.1**	20.9	**4,260**	**1,020**	**77.1**
	9/13/2016	446.91	14.03	0.00	432.88	**37.0**	117	**806**	1,790	2,750	**26.1**	30.6 (J)	**14,700**	**3,440**	**200**
	11/21/2016	446.91	14.39	0.00	432.52	**22.9**	113	**710**	2,240	3,085.9	18.8	ND	**18,200**	**3,920**	**208**
	3/9/2017	446.91	14.61	0.00	432.30	**31.2**	114	**1,010**	3,070	4,225.2	**21.3**	ND	**20,400**	**2,620**	**297**
	6/7/2017	446.91	14.07	0.00	432.84	**41.9**	70.9	**953**	2,840	3,905.8	**22.4**	47.8 (J)	**19,500**	**3,080**	**251**
	9/6/2017	446.91	14.28	0.00	432.63	**25.1**	155	**1,060**	3,190	4,430.1	18.4	ND	**26,300**	**6,870**	**291**
	11/1/2017	446.91	14.43	0.00	432.48	**23.9**	144	**1,190**	4,250	5,608	19.2	ND	**21,600**	**4,510**	**301**
	3/6/2018	446.91	14.07	0.00	432.84	**36.3**	76.0	**1,240**	4,660	6,012	**21.6**	102	**26,400**	**4,570**	**325**
	6/20/2018	446.91	12.80	0.00	434.11	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	9/5/2018	446.91	12.99	0.00	433.92	**29.3**	10.4	202	267	509	9.4	17.4	**3,000**	**823**	**59.7**
	7/18/2019	446.91	12.57	0.00	434.34	**11.4**	1.1	31.4	34.5	78.4	5.5	ND (<5.8)	**403**	**ND (<53)**	**6.1**
	11/13/2019	446.91	13.63	0.00	433.28	**26.8**	46.1	673	1,000	1,746	19.8	ND (<29)	**9,190**	**2,940**	**217**
	7/8/2020	446.91	11.71	0.00	435.20	**18.9**	3.1	116	101	239	9.5	ND (<5.8)	**1,110**	**213**	**18.0**
	12/9/2020	446.91	12.76	0.00	434.15	**27.0**	33.2	569	965	1,594	**21.4**	33.3	**10,600**	**2,170**	**164**
	6/2/2021	446.91	12.99	0.00	433.92	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<100)**	**ND (<49)**	**ND (<2.5)**
	11/22/2021	446.91	13.89	0.00	433.02	**18.4**	31.7	536	1,020	1,606	14.5	ND (<29)	**10,600**	**2,990**	**187**
	5/17/2022	446.91	13.03	0.00	433.88	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<110)**	**ND (<48)**	**ND (<2.5)**
	12/7/2022	446.91	13.98	0.00	432.93	**24.2**	28.6	639	1,280	1,972	12.9	ND (<5.8)	**10,900**	**2,970**	**165**
	6/6/2023	446.91	13.92	0.00	432.99	**24.4**	15.5	512	717	1,269	15.1	ND (<5.8)	**10,100**	**2,620**	**108**
	10/31/2023	446.91	14.01	0.00	432.90	**15.2**	22.3	683	1,160	1,881	9.9	ND (<29)	**12,800**	**3,090**	**184**
	6/19/2024	446.91	13.05	0.00	433.86	**29.9**	3.7	147	109	290	14.4	12.1	**2,520**	**1,140**	**22.4**
YMW-9	9/23/2014	436.71	6.16	0.00	430.55	ND	ND	ND	ND	ND	1.8	ND	ND	**ND (<80)**	ND
	12/23/2014	436.71	5.94	0.00	430.77	ND	ND	ND	ND	ND	1.6	ND	ND	**ND (<80)**	ND
Casing:	3/24/2015	436.71	5.41	0.00	431.30	ND	ND	ND	ND	ND	ND	ND	ND	**ND (<80)**	ND
0 to 2.5 feet	6/22/2015	436.71	5.81	0.00	430.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/21/2015	436.71	6.17	0.00	430.54	ND	ND	ND	ND	ND	ND	ND	ND	**ND (<58)**	ND
Screen:	12/9/2015	436.71	5.86	0.00	430.85	ND	ND	ND	ND	ND	ND	ND	ND	**ND (<64)**	ND
2.5 to 17.5 feet	3/8/2016	436.71	5.43	0.00	431.28	ND	ND	ND	ND	ND	ND	ND	**ND (<55)**	**ND (<64)**	ND
	6/7/2016	436.71	5.93	0.00	430.78	ND	ND	ND	ND	ND	0.48 (J)	ND	**ND (<55)**	**ND (<64)**	ND
	9/13/2016	436.71	6.44	0.00	430.27	ND	ND	ND	ND	ND	0.67 (J)	ND	**ND (<100)**	**ND (<64)**	ND
	11/21/2016	436.71	6.50	0.00	430.21	ND	ND	ND	ND	ND	0.62 (J)	ND	**ND (<100)**	**ND (<64)**	ND
	3/9/2017	436.71	6.23	0.00	430.48	ND	ND	ND	ND	ND	0.94 (J)	ND	**ND (<100)**	**ND (<64)**	**ND (<1.0)**
	6/7/2017	436.71	6.13	0.00	430.58	ND	ND	ND	ND	ND	0.86 (J)	ND	**ND (<100)**	**ND (<64)**	**ND (<1.0)**
	9/6/2017	436.71	6.42	0.00	430.29	ND	ND	ND	ND	ND	0.92 (J)	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	11/1/2017	436.71	6.34	0.00	430.37	ND	ND	ND	ND	ND	1.2	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	3/6/2018	436.71	5.29	0.00	431.42	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**87.5**	**ND (<1.1)**
	6/20/2018	436.71	5.73	0.00	430.98	ND	ND	ND	ND	ND	1.7	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	9/5/2018	436.71	5.88	0.00	430.83	ND	ND	ND	ND	ND	1.7	ND	**ND (<100)**	**ND (<53)**	**ND (<0.98)**
	7/18/2019	436.71	5.65	0.00	431.06	Not sampled									
	11/13/2019	436.71	5.87	0.00	430.84	Not sampled									
	7/8/2020	436.71	5.27	0.00	431.44	Not sampled									
	12/9/2020	436.71	4.91	0.00	431.80	Not sampled									
	6/2/2021	436.71	5.96	0.00	430.75	Not sampled									
	11/22/2021	436.71	6.17	0.00	430.54	Not sampled									
	5/17/2022	436.71	5.48	0.00	431.23	Not sampled									
	12/7/2022	436.71	5.49	0.00	431.22	Not sampled									
	6/6/2023	436.71	6.50	0.00	430.21	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	4.8	16.2	**ND (<110)**	**113**	**ND (<2.5)**
	10/31/2023	436.71	6.39	0.00	430.32	Not sampled									
	6/19/2024	436.71	6.16	0.00	430.55	Not sampled									
MDE MEAT GNCSG**						**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**47**	**47**	**0.7**

Table 3
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Sample Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
YP-1	9/23/2014	440.41	9.11	0.00	431.30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/23/2014	440.41	9.16	0.00	431.25	0.98	42.1	383	326	752.08	6.3	34.5	**4,370**	**221**	**67.0**
Casing:	3/25/2015	440.41	9.26	0.00	431.15	1.8 (J)	72.6	**762**	2,120	2,956.4 (J)	11.2	70.9	**13,300**	**2,160**	**160**
0 to 8 feet	6/23/2015	440.41	9.18	0.00	431.23	**5.6**	75.6	**714**	1,420	2,215.2	19.3	104	**11,100**	**1,980**	**186**
	9/22/2015	440.41	9.20	0.00	431.21	**7.0**	63.1	**807**	1,460	2,337.1	9.4	120	**9,470**	**2,500**	**280**
Screen:	12/10/2015	440.41	9.17	0.00	431.24	**5.5**	31.0	**723**	872	1,631.5	5.0	113	**13,400**	**1,590**	**181**
8 to 13 feet	3/9/2016	440.41	9.24	0.00	431.17	**6.0**	28.1	**756**	970	1,760.1	5.0	38.4	**10,700**	**1,940**	**166**
	6/8/2016	440.41	9.14	0.00	431.27	**6.4**	20.2	638	773	1,437.6	4.2	53.3	**8,270**	**2,490**	**189**
	9/14/2016	440.41	8.18	0.00	432.23	**6.8**	12.4	516	259	794.2	3.5	25.0	**6,130**	**1,730**	**113**
	11/22/2016	440.41	9.25	0.00	431.16	**7.4**	12.7	652	314	986.1	2.4	24.7	**6,950**	**1,230**	**129**
	3/10/2017	440.41	9.39	0.00	431.02	4.0	22.7	**820**	1,160	2,006.7	ND	ND	**8,680**	**1,710**	**171**
ǂ	6/8/2017	440.41	9.34	0.00	431.07	4.4	14.4	683	1,020	1,721.8	2.0 (J)	32.4 (J)	**11,500**	**1,780**	**185**
	9/7/2017	440.41	9.29	0.00	431.12	**6.9**	23.4	698	466	1,194.3	ND	ND	**8,770**	**3,130**	**228**
	11/1/2017	440.41	9.32	0.00	431.09	**8.4**	31.3	**785**	398	1,222.7	3.1	ND	**6,930**	**2,230**	**202**
	3/7/2018	440.41	9.41	0.00	431.00	**5.5**	54.7	**952**	2,210	3,222.2	1.9 (J)	52.7	**14,600**	**3,660**	**284**
	6/21/2018	440.41	9.14	0.00	431.27	4.2	22.6	**811**	1,360	2,198	4.1	89.5	**9,620**	**2,000**	**245**
	9/6/2018	440.41	9.01	0.00	431.40	**10.1**	30.6	688	759	1,488	5.3	115	**9,700**	**2,030**	**202**
	7/18/2019	440.41	8.93	0.00	431.48	**5.8**	16.5	**725**	404	1,151	1.9	ND (<5.8)	**11,200**	**1,510**	**268**
	11/13/2019	440.41	9.16	0.00	431.25	4.6	9.8	602	157	773	2.0	13.5 (J)	**6,350**	**2,020**	**237**
	7/8/2020	440.41	8.77	0.00	431.64	4.6	16.3	479	196	696	3.8	26.6	**5,400**	**2,020**	**180**
	12/9/2020	440.41	8.93	0.00	431.48	2.7	11.5	558	130	702	1.2	113	**7,460**	**2,670**	**198**
	6/2/2021	440.41	9.12	0.00	431.29	3.8	10.8	485	88.0	588	2.4 (J)	53.7	**6,350**	**2,420**	**244**
	11/22/2021	440.41	9.09	0.00	431.32	3.5	7.7	249	45.0	305	1.8	9.5 (J)	**7,270**	**1,410**	**133**
	5/17/2022	440.41	9.13	0.00	431.28	2.1	5.5	415	83.6	506	0.67 (J)	6.7 (J)	**6,860**	**1,240**	**129**
	12/7/2022	440.41	9.12	0.00	431.29	2.7	9.8	418	94.2	525	1.2	14.7	**5,100**	**1,810**	**186**
	6/6/2023	440.41	9.22	0.00	431.19	2.1	2.9	75.8	28.4	109.2	2.7	11.1	**2,990**	**2,060**	**54.7**
	10/31/2023	440.41	9.01	0.00	431.40	3.2	13.4	281	71.0	369	1.1	ND (<5.8)	**4,330**	**1,200**	**180**
	6/19/2024	440.41	8.98	0.00	431.43	1.6	7.6	167	68.7	245	2.1	14.4	**4,320**	**2,740**	**89.3**
YP-2	9/23/2014	438.35	8.25	0.00	430.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/23/2014	438.35	8.10	0.00	430.25	3.0	ND	ND	ND	3.0	8.5	7.4 (J)	ND	**ND (<80)**	0.43 (J)
Casing:	3/25/2015	438.35	8.05	0.00	430.30	**5.3**	ND	1.7	1	7.0	12.5	ND	ND	**ND (<80)**	0.42 (J)
0 to 7 feet	6/23/2015	438.35	7.98	0.00	430.37	3.9	ND	ND	ND	3.9	12.6	4.7 (J)	ND	**95**	ND
	9/22/2015	438.35	8.13	0.00	430.22	**5.2**	0.20 (J)	ND	0.77 (J)	6.17 (J)	13.2	60.2	**399**	**299**	0.52 (J)
Screen:	12/10/2015	438.35	8.25	0.00	430.10	**9.8**	0.18 (J)	ND	0.44 (J)	10.42 (J)	15.5	76.0	**322**	**254**	**0.81 (J)**
7 to 12 feet	3/9/2016	438.35	8.15	0.00	430.20	**62.4**	0.21 (J)	2.8	0.44 (J)	65.85 (J)	**32.7**	18.9	**324**	**110**	0.66 (J)
	6/8/2016	438.35	8.07	0.00	430.28	**13.9**	ND	ND	ND	13.9	17.7	23.4	**159**	**151**	ND
	9/14/2016	438.35	8.07	0.00	430.28	2.0	ND	ND	ND	2.0	6.1	37.0	**215**	**ND (<64)**	ND
	11/22/2016	438.35	8.11	0.00	430.24	**6.9**	0.46 (J)	15.9	7.4	30.66 (J)	8.6	167	**1,030**	**437**	**7.7**
	3/10/2017	438.35	8.11	0.00	430.24	3.0	ND	ND	ND	3.0	11.6	78.5	**168**	**ND (<64)**	**ND (<1.0)**
ǂ	6/8/2017	438.35	8.23	0.00	430.12	2.0	ND	ND	ND	2.0	13.1	21.6	**130 (J)**	**192**	**ND (<1.1)**
	9/7/2017	438.35	8.10	0.00	430.25	1.4	ND	ND	ND	1.4	10.1	26.3	**121 (J)**	**196**	**ND (<1.1)**
	11/1/2017	438.35	8.08	0.00	430.27	**6.7**	ND	3.0	0.36 (J)	10.1	10.5	257	**521**	**984**	**4.3 (J)**
	3/7/2018	438.35	8.12	0.00	430.23	0.93	ND	ND	ND	0.93	5.0	44.0	**ND (<100)**	**106**	**ND (<1.1)**
	6/21/2018	438.35	8.13	0.00	430.22	0.92	ND	ND	ND	0.92	7.0	13.6	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	9/6/2018	438.35	8.16	0.00	430.19	2.9	ND	ND	ND	2.9	9.6	57.7	**181 (J)**	**96.3**	**ND (<0.98)**
	7/18/2019	438.35	8.03	0.00	430.32	0.70	ND (<0.53)	ND (<0.60)	ND (<0.59)	<2.42	12.5	ND (<5.8)	**150 (J)**	**ND (<53)**	**ND (<0.98)**
	11/13/2019	438.35	8.16	0.00	430.19	**6.5**	ND (<0.53)	ND (<0.60)	ND (<0.59)	<8.22	16.1	15.0	**422**	**248**	**6.3**
	7/8/2020	438.35	7.53	0.00	430.82	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	8.7	ND (<5.8)	**ND (<100)**	**ND (<53)**	**ND (<2.5)**
	12/9/2020	438.35	7.97	0.00	430.38	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	9.9	6.2 (J)	**ND (<100)**	**ND (<53)**	**ND (<2.5)**
	6/2/2021	438.35	8.12	0.00	430.23	1.1	ND (<0.53)	ND (<0.60)	ND (<0.59)	<2.8	16.3	12.4	**113**	**ND (<49)**	**ND (<2.5)**
	11/22/2021	438.35	8.03	0.00	430.32	2.5	ND (<0.53)	ND (<0.60)	ND (<0.59)	<4.2	9.2	11.9	**235**	**236**	**ND (<2.5)**
	5/17/2022	438.35	7.94	0.00	430.41	0.49 (J)	ND (<0.53)	ND (<0.60)	ND (<0.59)	<2.21	9.6	7.0 (J)	**ND (<110)**	**ND (<47)**	**ND (<2.5)**
	12/7/2022	438.35	7.99	0.00	430.36	1.3	ND (<0.49)	ND (<0.60)	ND (<0.59)	<3.0	12.0	ND (<5.8)	**ND (<110)**	**121**	**ND (<2.5)**
	6/7/2023	438.35	8.07	0.00	430.28	2.5	ND (<0.49)	ND (<0.60)	ND (<0.59)	<4.2	16.5	15.2	**ND (<110)**	**300**	**ND (<2.5)**
	10/31/2023	438.35	8.10	0.00	430.25	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	2.6	ND (<5.8)	**ND (<110)**	**105**	**ND (<4.4)**
	6/19/2024	438.35	7.99	0.00	430.36	0.64	ND (<0.49)	ND (<0.60)	ND (<0.59)	<2.32	**22.7**	18.2	**ND (<110)**	ND (<38)	**ND (<4.4)**
YP-3	9/23/2014	436.51	5.21	0.00	431.30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/23/2014	436.51	5.21	0.00	431.30	ND	ND	ND	ND	ND	1.9	ND	ND	**ND (<80)**	ND
Casing:	3/25/2015	436.51	4.85	0.00	431.66	0.30 (J)	ND	ND	ND	9	6.0	ND	ND	**ND (<80)**	ND
0 to 5.5 feet	6/23/2015	436.51	4.75	0.00	431.76	0.91	ND	ND	ND	0.91	6.9	4.8 (J)	ND	**199**	ND
	9/22/2015	436.51	5.19	0.00	431.32	1.0	ND	ND	ND	1.0	6.6	ND	ND	**122**	ND
Screen:	12/10/2015	436.51	5.27	0.00	431.24	0.98	ND	ND	ND	0.98	5.9	5.3 (J)	ND	**146**	ND
5.5 to 10.5 feet	3/9/2016	436.51	4.74	0.00	431.77	0.25 (J)	ND	ND	ND	0.25 (J)	2.6	ND	**ND (<55)**	**122**	ND
	6/8/2016	436.51	5.02	0.00	431.49	0.84	ND	ND	ND	0.84	4.3	ND	**ND (<55)**	**216**	ND
	9/14/2016	436.51	5.32	0.00	431.19	0.61	ND	ND	ND	0.61	4.9	ND	**ND (<100)**	**ND (<64)**	ND
	11/22/2016	436.51	6.65	0.00	429.86	1.0	ND	ND	ND	1.0	6.7	ND	**ND (<100)**	NS	ND
	3/10/2017	436.51	5.62	0.00	430.89	0.88	ND	ND	ND	0.88	5.0	3.3 (J)	**ND (<100)**	**ND (<64)**	**ND (<1.0)**
ǂ	6/8/2017	436.51	5.21	0.00	431.30	0.69	ND	ND	ND	0.69	4.0	4.0 (J)	**ND (<100)**	**89.6**	**ND (<1.0)**
	9/7/2017	436.51	5.16	0.00	431.35	0.67	ND	ND	ND	0.67	3.6	ND	**ND (<100)**	**197**	**ND (<1.1)**
	11/1/2017	436.51	5.94	0.00	430.57	0.96	ND	ND	ND	0.96	5.7	ND	**ND (<100)**	**413**	**ND (<1.1)**
	3/7/2018	436.51	4.95	0.00	431.56	0.25 (J)	ND	ND	ND	0.25 (J)	2.0	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	6/21/2018	436.51	4.62	0.00	431.89	0.39 (J)	ND	ND	ND	0.39 (J)	2.5	ND	**ND (<100)**	**102**	**ND (<1.1)**
	9/6/2018	436.51	4.76	0.00	431.75	ND	ND	ND	ND	ND	2.2	ND	**ND (<100)**	**ND (<53)**	**ND (<0.98)**
	7/18/2019	436.51	4.49	0.00	432.02	Not sampled									
	11/13/2019	436.51	5.03	0.00	431.48	Not sampled									
	7/8/2020	436.51	4.33	0.00	432.18	Not sampled									
	12/9/2020	436.51	4.54	0.00	431.97	Not sampled									
	6/2/2021	436.51	4.74	0.00	431.77	Not sampled									
	11/22/2021	436.51	5.20	0.00	431.31	Not sampled									
	5/17/2022	436.51	4.74	0.00	431.77	Not sampled									
	12/7/2022	436.51	4.34	0.00	432.17	Not sampled									
	6/6/2023	436.51	5.36	0.00	431.15	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	1.0	ND (<5.8)	**ND (<110)**	**246**	**ND (<2.5)**
	10/31/2023	436.51	7.36	0.00	429.15	Not sampled									
	6/19/2024	436.51	5.02	0.00	431.49	Not sampled									
MDE MEAT GNCSG**						**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**47**	**47**	**0.7**

Table 3
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Sample Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
YP-4	9/23/2014	441.83	9.01	0.00	432.82	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/23/2014	441.83	9.24	0.00	432.59	0.44 (J)	ND	ND	ND	0.44 (J)	**36.5**	19.7	**386**	**ND (<80)**	ND
Casing:	3/25/2015	441.83	8.25	0.00	433.58	ND	ND	ND	ND	ND	5.5	ND	ND	**ND (<80)**	ND
0 to 8 feet	6/23/2015	441.83	8.96	0.00	432.87	ND	ND	ND	ND	ND	3.1	ND	ND	**ND (<64)**	ND
	9/22/2015	441.83	9.31	0.00	432.52	ND	ND	ND	ND	ND	12.2	ND	ND	**199**	0.26 (J)
Screen:	12/10/2015	441.83	9.28	0.00	432.55	0.41 (J)	ND	ND	ND	0.41 (J)	19.5	13.7	ND	**ND (<64)**	ND
8 to 13 feet	3/9/2016	441.83	8.54	0.00	433.29	ND	ND	ND	ND	ND	2.7	ND	**ND (<55)**	**ND (<64)**	ND
	6/8/2016	441.83	9.02	0.00	432.81	ND	ND	ND	ND	ND	4.2	ND	**ND (<55)**	**ND (<64)**	ND
	9/14/2016	441.83	9.53	0.00	432.30	0.23 (J)	ND	ND	ND	0.23 (J)	14.1	9.3 (J)	**118 (J)**	**ND (<64)**	ND
	11/22/2016	441.83	9.74	0.00	432.09	0.29 (J)	ND	ND	ND	0.29 (J)	19.8	18.4	**140 (J)**	**122**	ND
	3/10/2017	441.83	9.91	0.00	431.92	ND	ND	ND	ND	ND	19.9	ND	**ND (<100)**	**ND (<64)**	**ND (<1.0)**
	ǂ 6/8/2017	441.83	9.31	0.00	432.52	ND	ND	ND	ND	ND	5.0	ND	**ND (<100)**	**115**	**ND (<1.0)**
	9/7/2017	441.83	9.72	0.00	432.11	ND	ND	ND	ND	ND	11.0	ND	**ND (<100)**	**199**	**ND (<1.1)**
	11/1/2017	441.83	9.82	0.00	432.01	ND	ND	ND	ND	ND	14.2	ND	**ND (<100)**	**107**	**ND (<1.1)**
	3/7/2018	441.83	9.23	0.00	432.60	ND	ND	ND	ND	ND	8.5	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	6/21/2018	441.83	8.48	0.00	433.35	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	9/6/2018	441.83	8.61	0.00	433.22	ND	ND	ND	ND	ND	4.7	ND	**ND (<100)**	**ND (<53)**	**ND (<0.98)**
	7/18/2019	441.83	8.18	0.00	433.65	Not sampled									
	11/13/2019	441.83	9.01	0.00	432.82	Not sampled									
	7/8/2020	441.83	8.37	0.00	433.46	Not sampled									
	12/9/2020	441.83	8.06	0.00	433.77	Not sampled									
	6/2/2021	441.83	8.59	0.00	433.24	Not sampled									
	11/22/2021	441.83	9.29	0.00	432.54	Not sampled									
	5/17/2022	441.83	8.57	0.00	433.26	Not sampled									
	12/7/2022	441.83	9.34	0.00	432.49	Not sampled									
	6/7/2023	441.83	9.46	0.00	432.37	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	2.1	ND (<5.8)	**ND (<110)**	**158**	**ND (<2.5)**
	10/31/2023	441.83	9.45	0.00	432.38	Not sampled									
	6/19/2024	441.83	8.72	0.00	433.11	Not sampled									
YP-5	9/23/2014	433.65	4.01	0.00	429.64	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/23/2014	433.65	4.33	0.00	429.32	ND	ND	ND	ND	ND	0.66 (J)	ND	ND	**137**	ND
Casing:	3/25/2015	433.65	3.90	0.00	429.75	ND	ND	ND	ND	ND	17.7	51.2	ND	**ND (<80)**	ND
0 to 5 feet	6/23/2015	433.65	4.49	0.00	429.16	0.28 (J)	ND	ND	ND	0.28 (J)	**32.3**	106	ND	**117**	ND
	9/22/2015	433.65	4.12	0.00	429.53	1.2	ND	ND	ND	1.2	**45.7**	139	ND	**236**	ND
Screen:	12/10/2015	433.65	3.88	0.00	429.77	ND	ND	ND	ND	ND	**33.2**	8.7 (J)	ND	**ND (<64)**	ND
5 to 10 feet	3/9/2016	433.65	3.97	0.00	429.68	ND	ND	ND	ND	ND	1.6	ND	**ND (<55)**	**ND (<64)**	ND
	6/8/2016	433.65	4.31	0.00	429.34	ND	ND	ND	ND	ND	2.2	7.5 (J)	**ND (<55)**	**232**	ND
	9/14/2016	433.65	4.33	0.00	429.32	ND	ND	ND	ND	ND	10.4	32.6	**ND (<100)**	**ND (<64)**	ND
	11/22/2016	433.65	4.37	0.00	429.28	ND	ND	ND	ND	ND	**29.7**	34.5	**ND (<100)**	**ND (<64)**	ND
	3/10/2017	433.65	4.18	0.00	429.47	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<64)**	**ND (<1.0)**
	6/8/2017	433.65	4.31	0.00	429.34	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<64)**	**ND (<1.0)**
	9/7/2017	433.65	3.31	0.00	430.34	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**140**	**ND (<1.1)**
	11/1/2017	433.65	4.33	0.00	429.32	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**299**	**ND (<1.1)**
	3/7/2018	433.65	3.84	0.00	429.81	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**105**	**ND (<1.1)**
	6/21/2018	433.65	3.93	0.00	429.72	ND	ND	ND	ND	ND	ND	ND	**ND (<100)**	**ND (<83)**	**ND (<1.1)**
	9/6/2018	433.65	4.01	0.00	429.64	ND	ND	ND	ND	ND	0.62 (J)	ND	**ND (<100)**	**ND (<53)**	**ND (<0.98)**
	7/18/2019	433.65	3.83	0.00	429.82	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	ND (<42)	**ND (<53)**	**ND (<0.98)**
	11/13/2019	433.65	3.96	0.00	429.69	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<100)**	**ND (<53)**	**ND (<2.5)**
	7/8/2020	433.65	1.84	0.00	431.81	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<100)**	**ND (<53)**	**ND (<2.5)**
	12/9/2020	433.65	2.32	0.00	431.33	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<100)**	**ND (<53)**	**ND (<2.5)**
	6/2/2021	433.65	4.21	0.00	429.44	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<100)**	**197**	**ND (<2.5)**
	11/22/2021	433.65	4.09	0.00	429.56	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<100)**	**ND (<50)**	**ND (<2.5)**
	5/17/2022	433.65	3.98	0.00	429.67	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	**ND (<110)**	**ND (<50)**	**ND (<2.5)**
	12/7/2022	433.65	1.64	0.00	432.01	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	ND (<0.51)	ND (<5.8)	**ND (<110)**	**ND (<54)**	**ND (<2.5)**
	6/6/2023	433.65	4.54	0.00	429.11	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	9.5	31.6	**ND (<110)**	**135**	**ND (<2.5)**
	10/31/2023	433.65	3.65	0.00	430.00	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	ND (<0.51)	ND (<5.8)	**ND (<110)**	ND (<39)	**ND (<4.4)**
	6/19/2024	433.65	4.37	0.00	429.28	ND (<0.43)	ND (<0.49)	ND (<0.60)	ND (<0.59)	ND (<2.11)	ND (<0.51)	ND (<5.8)	**ND (<110)**	ND (<39)	**ND (<4.4)**
				MDE MEAT GNCSG**		**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**47**	**47**	**0.7**

Table Notes:

*Elevation is relative to a designated benchmark
(Current Casing elevations surveyed on August 25, 2010.)
**Generic Numeric Cleanup Standards for Groundwater (GNCSG) from Appendix F of the Maryland Department of the Environments (MDE) Maryland Environmental Assessment Technology (MEAT) for Leaking Undergound Storage Tanks
***The June 18, 2014 TPH-DRO parameters were analyzed out of laboratory holding times; Follow-up samples were collected on June 30, 2014, for analysis of TPH-DRO only
ǂ-The June 8, 2017 TPH-DRO sample was lost in transit. Follow-up sample was collected on June 21, 2017, for analysis of TPH-DRO only
ND (<MDL) = Not Detected above Method Detection Limit. (As of 2012 this changed to mean "Not Detected above Method Dection Limit".)
Groundwater elevations corrected for the presence of LPH using the following formula: Water Table Elevation = Water Elevation+(0.75*LPH Thickness)
Values in boldface type exceed applicable MDE MEAT GNCSG
ND = Not Detected
NA = Not Applicable
Total BTEX = sum of Benzene, Toluene, Ethylbenzene, and Xylenes
MTBE = Methyl-tertiary-Butyl Ether
NS = Not Sampled for indicated analyte
LPH = Liquid Phase Hydrocarbons
¥ = Bottleware broken in shipment.
J = Laboratory Estimated Value
µg/L = micrograms per liter
† = Samples damaged in shipment, resampled for TPH-DRO on 5/24/12
E= Value Exceeded Laboratory Calibration Range
NM = Not Measured
NSVD - Not Surveyed