



April 12, 2023

Reference No. 11209494

Renee Wawczak – Project Manager
United States Environmental Protection Agency
Region 5 [Mail Code LU-16J]
77 W. Jackson Boulevard
Chicago, Illinois 60604-3590

Send Via E-mail
(Wawczak.Renee@epa.gov)

Dear Renee:

**Re: Quarterly Progress Report – Q1-2023
EPA Docket No. RCRA-05-2020-0005
CITGO Terminal, East Chicago, Indiana**

This submission has been prepared on behalf of CITGO Petroleum Corporation (CITGO) in accordance with the Section 3008(h) Resource Conservation and Recovery Act (RCRA), 42 U.S.C. § 6928(h) Administrative Order on Consent (AOC) (RCRA Docket No: RCRA-05-2020-0005 with an effective date of January 24, 2020) for the CITGO Terminal at 2500 East Chicago Avenue, East Chicago, Indiana (EPA ID: IND 095267381) (Site).

This report is organized to address reporting requirements set out in Section VII of the AOC. This report summarizes the activities conducted at the Site from January 1, 2023 through March 31, 2023.

1. Summary of Work Performed during the Reporting Period

- Participated in monthly project status calls including discussion on RFI progress with EPA, OXY, CITGO, and GHD on January 19th, February 16th, and March 16th, 2023.
- Quarterly groundwater gauging and sampling event was conducted between March 13th – 23rd 2023.

2. Summary of Reports, and Other Deliverables Completed During the Reporting Period

- Submitted Q4 2022 Quarterly Progress Report on January 13th, 2023.
- Submitted LNAPL Drawdown (Transmissivity Test) Workplan on January 18th, 2023.

3. Summary of Problems Encountered and Planned Resolutions

- None

4. Summary of Results of Sampling, Tests, or Other Data Received or Generated

- RFI field activities were completed in accordance with the plan outlined in the RFI Report submitted October 1, 2021, and slightly modified based on the response to EPA comments on the RFI dated January 31st, 2022.
- Figure 1 presents the groundwater contours for the March 2023 gauging event.
- Figure 2 and Figure 3 present a summary of exceedances of groundwater screening criteria including up to the quarterly groundwater monitoring event completed in December 2022. The March 2023 sampling event data is undergoing data validation and will be provided in the next quarterly status report.
- Table 1 presents the validated groundwater sampling results from the December 2022 quarterly monitoring event.



5. Anticipated Activities During the Next Reporting Period

- Complete validation of Q1-2023 quarterly sampling data
- Conduct Q2-2023 quarterly sampling event (June 2023)
- Based on discussion with EPA on December 15th 2022, and in accordance with the January 18th 2023 workplan, CITGO will complete a transmissivity test at CITGO-MW16-20. Currently scheduled for early-April 2023.

6. Project Schedule

- Attachment A presents the currently anticipated project schedule.

7. Percent Project Completed

- At the time of this report, the project is approximately 85% completed.

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Should you have any questions on the above, please do not hesitate to contact us.

Respectfully submitted,

CITGO Petroleum Corporation

Scott Buckner, CITGO Project Manager

JEP/kf/19

cc: Gillian Asque, EPA (asque.gillian@epa.gov)
Maher Saad, CITGO (msaad@citgo.com)
William S. Booth, CITGO (WBooth@citgo.com)
John G. McCrossin, CITGO (JMcCros@citgo.com)
Eric Seemann, CITGO (eseeman@citgo.com)
Michael T. Scanlon, Barnes & Thornburg (Michael.scanlon@btlaw.com)
David Sweeten, Oxy (David_Sweeten@oxy.com)
Mike Tomka, GHD (Michael.Tomka@ghd.com)
John-Eric Pardys, GHD (John-eric.Pardys@ghd.com)



CITGO PROPERTY (228.5 ACRES)

FORMER CITIES REFINERY PROPERTY (93.2 ACRES)

CITGO RFI MONITORING WELL LOCATION

GSH RFI MONITORING LOCATION

(585.03)

GROUNDWATER ELEVATION (FT AMSL)

MONITORING WELL LOCATION (SURVEYED SEPTEMBER 5, 2019. NAVD88)

STAFF GAUGE LOCATION (SURVEYED JUNE 2, 2017. NAVD88)

*

A CORRECTED GROUNDWATER WAS CALCULATED BY SUBTRACTING THE DEPTH TO PRODUCT FROM THE TOP OF CASING AND ADDING THE RELATIVE DENSITY OF THE LNAPL (0.9) MULTIPLIED BY THE THICKNESS OF THE LNAPL

584.00

GROUNDWATER ELEVATION CONTOUR (FT AMSL)

GROUNDWATER FLOW DIRECTION

LEGEND

NOTE:
ELEVATIONS MEASURED MARCH 13, 2023.

0300600 ft

Coordinate System:
IN83-WF

N



CITGO
EAST CHICAGO, INDIANA

**GROUNDWATER CONTOUR MAP
MARCH 2023**

Project No. 11209494
Date March 2023

FIGURE 1



LEGEND

CITGO PROPERTY (228.5 ACRES)

FORMER CITIES REFINERY PROPERTY (93.2 ACRES)

● CITGO-MWXX CITGO RFI MONITORING WELL LOCATION

TABLE 1: MONITORING WELL DATA

CITGO-MW	8/10/2020	11/11/2020
Benzene	5.8 (a)	1.3
Manganese	520 (a)	340
Thallium	ND (20)	ND (20)

TABLE 2: SCREENING LEVELS

Parameter	Screening Levels		
	a	b	c
2-Methylnaphthalene	36	-	-
Benzo(a)anthracene	0.3	-	-
Benzo(a)pyrene	0.2	-	-
Dibenzofuran	7.9	-	-
Naphthalene	1.7	110	460
Benzene	5	28	120

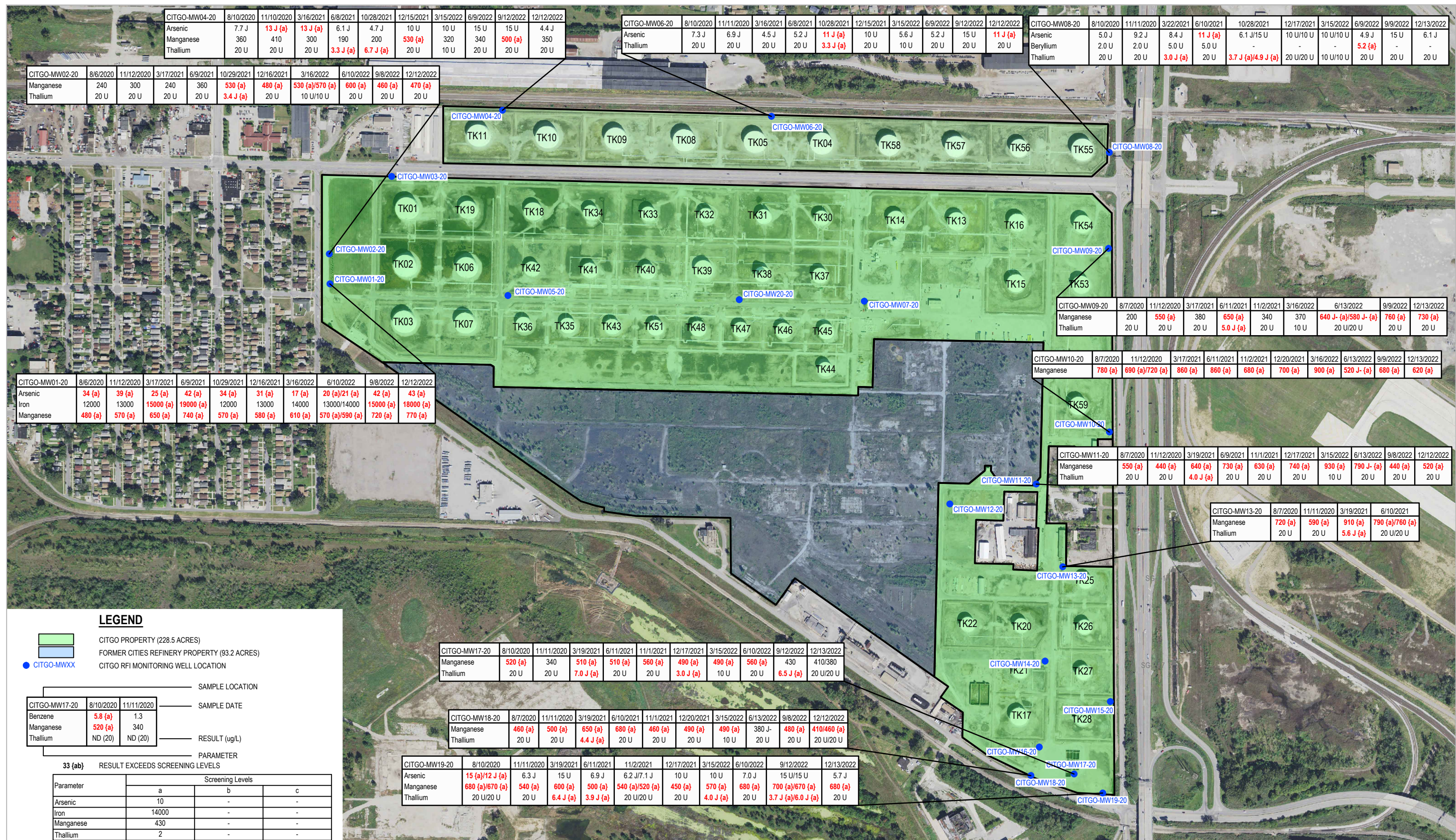


Table 1
CITGO Terminal
East Chicago, Indiana
Analytical Results Summary

Sample Location:		CITGO-MW01-20	CITGO-MW02-20	CITGO-MW03-20	CITGO-MW04-20	CITGO-MW06-20	CITGO-MW08-20	CITGO-MW09-20	CITGO-MW10-20	CITGO-MW11-20	CITGO-MW17-20	CITGO-MW17-20	CITGO-MW18-20	CITGO-MW18-20	CITGO-MW19-20
Sample ID:		WG-121222-NN-02	WG-121222-NN-04	WG-121222-NN-08	WG-121222-AC-01	WG-121222-AC-03	WG-121322-AC-14	WG-121322-NN-10	WG-121322-NN-12	WG-121222-AC-07	WG-121322-AC-11	WG-121322-AC-13	WG-121222-DS-05	WG-121222-DS-06	WG-121322-AC-09
Sample Date:		12/12/2022	12/12/2022	12/12/2022	12/12/2022	12/12/2022	12/13/2022	12/13/2022	12/13/2022	12/12/2022	12/13/2022	12/13/2022 (Duplicate)	12/12/2022	12/12/2022 (Duplicate)	12/13/2022
Parameters	Units														
Fumigant															
1,2-Dibromo-3-chloropropane (DBCP)		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals															
Aluminum		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic		ug/L	43	15 U	15 U	4.4 J	11 J	6.1 J	15 U	15 U	7.4 J	4.8 J	5.1 J	6.1 J	5.7 J
Barium		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron		ug/L	18000	5500	650	1400	1300	5300	3600	4300	3100	4700	4900	10000	7300
Lead		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese		ug/L	770	470	27	350	380	300	730	620	520	380	410	460	680
Mercury		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium		ug/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOAs															
1,2,4-Trichlorobenzene		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene		ug/L	0.21 U	1.7	0.19 U	0.19 U	0.21 U	0.19 U	0.24	0.19 U	0.19 U	8.9	10	0.19 U	0.19 U
2-Methylphenol		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde		ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene		ug/L	0.21 U	0.19 U	0.19 U	0.19 U	0.21 U	0.19 U	1.3	0.19 U	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U

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Parameters	Units														
Benzo(a)pyrene	ug/L	0.21 U	0.19 U	0.19 U	0.19 U	0.21 U	0.19 U	0.39	0.19 U	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl alcohol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	1.0 U	3.9	0.96 U	0.93 U	1.0 U	0.96 U	15	0.96 U	0.96 U	1.3	1.5	0.96 U	0.96 U	0.96 U
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/L	0.21 U	0.19 U	0.19 U	0.19 U	0.21 U	0.53	0.51	0.19 U	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOAsSIM															
1,4-Dioxane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VOAs															
1,1,1-Trichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.5	1.5	1.8	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 1
CITGO Terminal
East Chicago, Indiana
Analytical Results Summary

Sample Location:	CITGO-MW01-20	CITGO-MW02-20	CITGO-MW03-20	CITGO-MW04-20	CITGO-MW06-20	CITGO-MW08-20	CITGO-MW09-20	CITGO-MW10-20	CITGO-MW11-20	CITGO-MW17-20	CITGO-MW17-20	CITGO-MW18-20	CITGO-MW18-20	CITGO-MW19-20
Sample ID:	WG-121222-NN-02	WG-121222-NN-04	WG-121222-NN-08	WG-121222-AC-01	WG-121222-AC-03	WG-121322-AC-14	WG-121322-NN-10	WG-121322-NN-12	WG-121222-AC-07	WG-121322-AC-11	WG-121322-AC-13	WG-121222-DS-05	WG-121222-DS-06	WG-121322-AC-09
Sample Date:	12/12/2022	12/12/2022	12/12/2022	12/12/2022	12/12/2022	12/13/2022	12/13/2022	12/13/2022	12/12/2022	12/13/2022	12/13/2022 (Duplicate)	12/12/2022	12/12/2022 (Duplicate)	12/13/2022
Parameters	Units													
VOAs														
Chloromethane (Methyl chloride)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Footnotes:														
U	Not detected at the associated reporting limit.													
J	Estimated concentration.													
UJ	Not detected; associated reporting limit is estimated.													
R	Rejected.													



CITGO Petroleum Corporation

2316 Terminal Drive
Arlington Heights, IL 60005

ATTACHMENT A

Project Schedule

Draft Project Schedule - AOC CITGO Terminal East Chicago, IN																	
ID	Task Name	Duration	Start	Finish	2022				2023				2024				
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3		
1	<u>Administrative</u>	965 days	<u>Fri 1/24/20</u>	<u>Mon 10/16/23</u>													
2	Effective Date of AOC	1 day	Fri 1/24/20	Fri 1/24/20													
3	Semi-Annual Meetings - Meeting with EPA either by phone or in person on at least a semi-annual basis	261 days	Fri 7/29/22	Fri 7/28/23													
7	Quarterly Reports - Fifteenth day of the month after the end of each quarter	392 days	Fri 4/15/22	Mon 10/16/23													
15	Financial Assurance Update (Updated annually and/or with subsequent work plans)	523 days	Mon 9/20/21	Thu 9/21/23													
18	<u>RFI</u>	444 days	<u>Fri 10/1/21</u>	<u>Thu 6/15/23</u>													
19	On-going Quarterly Groundwater Monitoring and Off-Site Investigation (Exact Dates TBD)	262 days	Wed 6/15/22	Thu 6/15/23													
25	Additional RFI Work Plan(s), as needed	1 day	Tue 11/1/22	Tue 11/1/22													
26	EPA Review and Approval of RFI Work Plan(s), as needed	1 day	Tue 11/1/22	Tue 11/1/22													
27	RFI Field Activities, as needed	1 day	Tue 11/1/22	Tue 11/1/22													
28	Submit RFI Report - No later than October 1, 2021	1 day	Fri 10/1/21	Fri 10/1/21													
29	<u>Interim Corrective Measures, as needed</u>	1 day	<u>Tue 11/1/22</u>	<u>Tue 11/1/22</u>													
30	Interim Corrective Measures Work Plan(s), as needed	1 day	Tue 11/1/22	Tue 11/1/22													
31	Interim Corrective Measures Implementation, as needed (90 days following submittal of Interim Corrective Measures Work Plan and Schedule)	1 day	Tue 11/1/22	Tue 11/1/22													
32	Interim Corrective Measures Report (Either prior to or as part of the Environmental Indicators Report)	1 day	Tue 11/1/22	Tue 11/1/22													
33	<u>Final Corrective Measures</u>	573 days	<u>Mon 5/16/22</u>	<u>Wed 7/24/24</u>													
34	Public Meeting, including 30-Day Comment Period (Exact Date TBD)	30 days	Mon 5/16/22	Fri 6/24/22													
35	Environmental Indicators Report(s) - 60 Days following EPA Final Comments on RFI	1 day	Mon 8/22/22	Mon 8/22/22													
36	Final Corrective Measures Proposal - Within 135 Days following EPA Final Comments on RFI	1 day	Wed 12/14/22	Wed 12/14/22													
37	EPA review and comments, supplemental information / investigation request (if needed)	3 mons	Thu 12/15/22	Wed 3/8/23													
38	Public review and comment	2 mons	Thu 3/9/23	Wed 5/3/23													
39	EPA Final Decision	2 mons	Thu 5/4/23	Wed 6/28/23													
40	Final Corrective Measures Implementation - (According to the schedule in the Final Decision, i.e. much of the construction completed within one year, or within a reasonable period of time after EPA selects the final corrective measures)	12 mons	Thu 6/29/23	Wed 5/29/24													
41	Final Remedy Construction Completion Report (Including an Operation and Maintenance Plan)	2 mons	Thu 5/30/24	Wed 7/24/24													
Project: CITGO Terminal, East Chicago, IN Date: Tue 10/11/2211:48 AM		Expected Timeframe Expected Date Contingent Timeframe Fixed Date		Summary Manual Progress													
Note: Per AOC, 'days' refers to calendar days Schedule subject to change based on regulatory reviews/approvals, weather, and other factors beyond Respondent's control DRAFT																	
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