AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105
O: 718.545.0474

February 4, 2025

Mr. Christopher H. Allan
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
Division of Spill Prevention and Response Programs
47-40 21st Street, Long Island City, New York 11101

Re: Quarterly Groundwater Sampling Report
Former Dico G Auto & Truck Repair
3035 White Plains Road, Bronx, New York
NYSDEC BCP Number: C203039

Dear Mr. Allan:

Please find enclosed the Quarterly Groundwater Sampling Report for the above referenced project for the fourth quarter of 2024. In accordance with the Site Management Plan (SMP), a round of groundwater sampling was performed on December 18th, 2024 for IRMW-14.

If you have any questions or comments regarding the attached report, please do not hesitate to contact me.

Very truly yours,

Aaliyah Kaushal
Environmental Engineer

Cc: A. Arker, Bedford Park Associates LLC
A. Czemerinski, AMC
J. O'Connell, NYSDEC

AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105
O: 718.545.0474

FORMER DICO G AUTO & TRUCK REPAIR

NYSDEC BCP Number C203039
Project Status Report
4th Quarter 2024

Reporting Summary

Report Date: February 4, 2025

Reporting Period: 4th Quarter of 2024

Site Status: Building is in service and occupied by commercial tenant (supermarket) on the first floor with residential tenants on the upper floors.

Work Performed this Quarter: December 18th, 2024 – Groundwater sampling event performed on one off-site monitoring well, IRMW-14.

Collected depth to water readings from well IRMW-14.

Remediation Status: No chemical oxidant events were performed during this period. A chemical oxidant injection was last performed on June 29, 2013 and September 1, 2013.

Vacuum Enhanced Fluid Recovery (VEFR) was last performed on August 2, August 19, August 20 and August 22, 2013.

Monitoring Program Summary

No. of Wells: 4 monitoring wells: 2 on-site, 2 off-site

Sampling Frequency: Quarterly for IRMW-14; Annually for IRMW-7, IRMW-10, and IRMW-11 (updated frequency as of October 7th, 2024)

Reporting Frequency: Groundwater Sampling Report (Quarterly for IRMW-14)

Groundwater Depth: ~16 ft below grade (total well depth is 19.2 ft)

GW Flow Direction: GW flow direction assumed to be N-NW based on data obtained from 3Q24 GW survey and top of casing measurements taken in July 2024.

Monitoring Results: No product was detected in IRMW-14.

Sampling Results: Although petroleum related VOCs increased in IRMW-14 this quarter, these levels are much lower than the original concentrations measured in 2010.

VEFR AND OXIDANT INJECTIONS:

No Vacuum Enhanced Fluid Recovery (VEFR) or chemical oxidant injections were performed during this period. VEFR was last performed on August 22, 2013 and Chemical Oxidant Injections were last performed on September 1, 2013.

GROUNDWATER LEVEL MONITORING:

Depth to water readings were taken from monitoring well IRMW-14 sampled with an electronic interface meter prior to purging the wells for sampling. Depth to water was measured to be 15.99 ft below grade. As previously noted, no Liquid Phase Hydrocarbons (LPH) were detected in IRMW-14 during this quarter.

GROUNDWATER SAMPLING:

The 4Q24 groundwater sampling event was performed on December 18, 2024. The groundwater samples were collected from IRMW-14 in accordance with the low-flow groundwater sampling procedures outlined within the SMP. A duplicate and trip blank were also taken. See **Figure 1** for the location of all on-site and off-site monitoring wells and chemical oxidant injection wells. A copy of the Well Purging-Field Water Quality Measurements Form is attached as **Appendix A**. The groundwater samples were picked up at AMC's office by laboratory dispatched courier and delivered to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). The groundwater samples were submitted for laboratory analysis of volatile organic compounds (VOCs) via EPA Method 8260.

A copy of the laboratory report is attached as **Appendix B**. The laboratory results are summarized and compared to their appropriate standards/criteria in **Table 1.** These results are compared to previous sampling events in **Tables 2**. The total VOCs obtained in this sampling event has been charted in **Graph 1**. The BTEX concentrations, total chlorinated VOC concentrations, and total VOCs for the quarter are plotted in **Figure 3** in red, green, and black respectively.

GROUNDWATER SAMPLING RESULTS:

IRMW-14 – Total VOC concentrations have shown an increase from 458.41 µg/L to 2821.70 µg/L since the 3Q24 sampling event. Total BTEX have shown an increase from 237.30 µg/L to 1586.00 µg/L. The current concentrations are much lower than the original concentrations measured in 3Q10. The concentrations have been following an overall decreasing trend since the 3Q2017 sampling event with some fluctuation.

GROUNDWATER VOC CONCENTRATION TRENDS:

As depicted in the concentration graph **(Graph 1)**, remedial efforts from 2011 through 2013 resulted in a significant reduction in VOC concentrations in the current focus area as defined by well IRMW-14. The VOCs in IRMW-14 continue to follow an overall decreasing trend, with spikes in concentration noted every few quarters. Overall, VOC concentrations are still well below pre-injection concentrations and each well follows a generally decreasing trend.

FUTURE PLANS / RECOMMENDATIONS:

Remedial efforts at the Site have been successful in significantly reducing overall petroleum VOCs in groundwater. Water quality is expected to continue to improve over time. The rebound of petroleum VOCs that had been observed in IRMW-14 continues to fluctuate. The concentration in IRMW-14 is likely related to residual contamination in the small bedrock fractures that well 14 intersects and through which very little groundwater passes. It is noteworthy to add that IRMW-14 is located in an off-site location (sidewalk). Groundwater elevation seems to have no effect on the VOC concentration.

In accordance with the letter received from the DEC on October 7th, 2024, the sampling frequency for wells IRMW-7, IRMW-10, and IRMW-11 has be reduced from quarterly to annually. Groundwater sampling will continue on a quarterly basis for well IRMW-14. A Remedial Systems Optimization (RSO) Work Plan will be submitted to the Department to address the presence of petroleum VOCs in IRMW-14.

AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105
O: 718.545.0474

TABLES

TABLE 1
3035 White Plains Road, Bronx, NY
Groundwater Sample Results
4th Quarter 2024 - December 2024

COMPOUND	NYSDEC Ambient Water Quality Standards	IRMW-14	Duplicate	Trip Blank
		12/18/2024	12/18/2024	12/18/2024
	µg/L	Result	Result	Result
1,1,1,2-Tetrachloroethane	5	< 1.3	< 1.3	< 0.25
1,1,1-Trichloroethane	5	< 1.3	< 1.3	< 0.25
1,1,2,2-Tetrachloroethane	5	< 1.3	< 1.3	< 0.25
1,1,2-Trichloroethane	1	**< 1.3**	**< 1.3**	< 0.25
1,1,2-Trichlorotrifluoroethane	5			
1,1-Dichloroethane	5	< 1.3	< 1.3	< 0.25
1,1-Dichloroethene	5	< 1.3	< 1.3	< 0.25
1,1-Dichloropropene	5	< 1.3	< 1.3	< 0.25
1,2,3-Trichlorobenzene		< 1.3	< 1.3	< 0.25
1,2,3-Trichloropropane	0.04	**< 1.3**	**< 1.3**	< 0.25
1,2,4-Trichlorobenzene		< 1.3	< 1.3	< 0.25
1,2,4-Trimethylbenzene	5	**870**	**870**	< 0.25
1,2-Dibromo-3-Chloropropane	0.04	**< 2.5**	**< 2.5**	< 0.50
1,2-Dibromoethane		< 1.3	< 1.3	< 0.25
1,2-Dichlorobenzene	5	< 1.3	< 1.3	< 0.25
1,2-Dichloroethane	0.6	**< 2.5**	**< 2.5**	< 0.50
1,2-Dichloroethylene (Total)				
1,2-Dichloropropane	1	**< 1.3**	**< 1.3**	< 0.25
1,3,5-Trimethylbenzene	5	**75**	**130**	< 0.25
1,3-Dichlorobenzene		< 1.3	< 1.3	< 0.25
1,3-Dichloropropane	5	< 1.3	< 1.3	< 0.25
1,4-Dichlorobenzene	5	< 1.3	< 1.3	< 0.25
1,4-dioxane				
2,2-Dichloropropane	5	< 1.3	< 1.3	< 0.25
2-Butanone				
2-Chlorotoluene	5	< 1.3	< 1.3	< 0.25
2-Hexanone		< 13	< 13	< 2.5
2-Isopropyltoluene	5	< 1.3	1.3	< 0.25
4-Chlorotoluene	5	< 1.3	< 1.3	< 0.25
4-Methyl-2-Pentanone		< 13	< 13	< 2.5
Acetone		< 13	< 13	< 2.5
Acrolein	5	< 13	< 13	< 2.5
Acrylonitrile	5	< 13	< 13	< 2.5
Benzene	1	**46**	**42**	< 0.25
Bromobenzene	5	< 1.3	< 1.3	< 0.25
Bromochloromethane	5	< 1.3	< 1.3	< 0.25
Bromodichloromethane		< 1.3	< 1.3	< 0.25
Bromoform		< 1.3	< 1.3	< 0.25
Bromomethane	5	< 1.3	< 1.3	< 0.50
Carbon Disulfide	60	< 1.3	< 1.3	< 0.25
Carbon Tetrachloride	5	< 1.3	< 1.3	< 0.25
Chlorobenzene	5	< 1.3	< 1.3	< 0.25
Chloroethane	5	< 1.3	< 1.3	< 0.25
Chloroform	7	< 1.3	< 1.3	< 0.25
Chloromethane	60	< 1.3	< 1.3	< 0.25
cis-1,2-Dichloroethene	5	< 1.3	< 1.3	< 0.25
cis-1,3-Dichloropropene		< 1.3	< 1.3	< 0.25
Cyclohexane				
Dibromochloromethane	5	< 1.3	< 1.3	< 0.25
Dibromomethane	5	< 1.3	< 1.3	< 0.25
Dichlorodifluoromethane	5	< 1.3	< 1.3	< 0.25
Ethyl Benzene	5	**400**	**530**	< 0.25
Hexachlorobutadiene	0.5	**< 1.0**	**< 1.0**	< 0.20
Isopropylbenzene	5	**23**	**34**	< 0.25
m/p-Xylenes	10	**680**	**900**	< 0.25
Methyl Acetate				
Methyl Cyclohexane				
Methyl ethyl ketone		< 13	< 13	< 2.5
Methyl tert-butyl Ether	10	**16**	**16**	< 0.25
Methylene Chloride	5	< 5.0	< 5.0	< 1.0
Naphthalene	10	**220**	**350**	< 1.0
n-Butylbenzene	5	3.7	**6.5**	< 0.25
n-Propylbenzene	5	**51**	**81**	< 0.25
o-Xylene	5	**250**	**320**	< 0.25
p-Isopropyltoluene		< 1.3	2.8	< 0.25
sec-Butylbenzene	5	< 1.3	< 1.3	< 0.25
Styrene	5	< 1.3	< 1.3	< 0.25
t-1,3-Dichloropropene	0.4			
Tert-butyl alcohol				
tert-Butylbenzene	5	< 1.3	< 1.3	< 0.25
Tetrachloroethene	5	< 1.3	< 1.3	< 0.25
Tetrahydrofuran (THF)		< 13	< 13	< 2.5
Toluene	5	**210**	**220**	< 0.25
trans-1,2-Dichloroethene	5	< 1.3	< 1.3	< 0.25
trans-1,3-Dichloropropene	0.4	**< 1.3**	**< 1.3**	< 0.25
trans-1,4-dichloro-2-butene	5	**< 13**	**< 13**	< 2.5
Trichloroethene	5	< 1.3	< 1.3	< 0.25
Trichlorofluoromethane	5	< 1.3	< 1.3	< 0.25
Trichlorotrifluoroethane		< 1.3	< 1.3	< 0.25
Vinyl Acetate				
Vinyl Chloride	2	< 1.3	< 1.3	< 0.25
Total BTEX Concentration		**1586.00**	**2012.00**	**0.00**
Total Chlroinated VOC Concentrations		**0.00**	**0.00**	**0.00**
Total VOCs		**2821.70**	**3502.30**	**0.00**

Notes:

Bold- Indicated MDL/LOD exceeds NYCDEC Groundwater Standard

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 2
3035 White Plains Road, Bronx, NY
Volatile Organic Compounds
IRMW-14

IRMW-14

COMPOUND	NYSDEC Ambient Water Quality Standards µg/L	6/4/2010 Result	10/1/2010 Result	12/15/2010 Result	3/29/2011 Result	7/29/2011 Result	9/28/2011 Result	12/12/2011 Result	3/29/2012 Result	6/29/2012 Result	10/31/2012 Result
1,1,1,2-Tetrachloroethane	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,1,1-Trichloroethane	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,1,2-Trichloroethane	1	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,1,2-Trichlorotrifluoroethane	5	NR	NR	NR	NR	NR	NR	NR	NS	ND	ND
1,1-Dichloroethane	5	ND	NS	NS	ND	ND	1.2	ND	NS	ND	ND
1,1-Dichloroethene	5	NR	NR	NR	NR	NR	NR	NR	NS	NR	ND
1,1-Dichloroethylene		ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,1-Dichloropropene	5	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropylene		ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,2,3-Trichlorobenzene		ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,2,3-Trichloropropane	0.04	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,2,4-Trichlorobenzene		ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,2,4-Trimethylbenzene	5	**4,700**	NS	NS	**2,000**	**1,800**	ND	**1,200**	NS	**1,100**	**860**
1,2-Dibromo-3-Chloropropane	0.04	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,2-Dibromoethane		ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,2-Dichlorobenzene	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,2-Dichloroethane	0.6	ND	NS	NS	ND	ND	**14**	**29**	NS	ND	ND
1,2-Dichloroethylene (Total)		ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,2-Dichloropropane	1	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,3,5-Trimethylbenzene	5	**1,100**	NS	NS	**470**	**430**	ND	**330**	NS	**250**	**200**
1,3-Dichlorobenzene		ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,3-Dichloropropane	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,4-Dichlorobenzene	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
1,4-dioxane		-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
2-Butanone		NR	NR	NR	NR	NR	NR	NR	NS	150	280
2-Chlorotoluene	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
2-Hexanone		NR	NR	NR	NR	NR	NR	NR	NS	NR	NR
2-Isopropyltoluene	5	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
4-Methyl-2-Pentanone		NR	NR	NR	NR	NR	NR	NR	NS	NR	NR
Acetone		NR	NR	NR	NR	NR	NR	NR	NS	11	420
Acrolein	5	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	5	-	-	-	-	-	-	-	-	-	-
Benzene	1	**1,000**	NS	NS	**1,200**	**690**	**220**	**710**	NS	**680**	**280**
Bromobenzene	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
Bromochloromethane	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
Bromodichloromethane		ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
Bromoform		ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
Bromomethane	5	ND	NS	NS	ND	ND	**7.2**	ND	NS	ND	ND
Carbon Disulfide	60	NR	NR	NR	NR	NR	NR	NR	NS	NR	NR
Carbon Tetrachloride	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
Chlorobenzene	5	ND	NS	NS	ND	ND	0.85	ND	NS	ND	ND
Chloroethane	5	ND	NS	NS	ND	ND	**23**	ND	NS	**23**	ND
Chloroform	7	ND	NS	NS	ND	ND	1.3	ND	NS	ND	ND
Chloromethane	60	ND	NS	NS	ND	ND	**110**	**110**	NS	ND	**45**
cis-1,2-Dichloroethene	5	NR	NR	NR	NR	NR	NR	NR	NS	ND	ND
cis-1,2-Dichloroethylene		-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene		ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
cis-1,3-Dichloropropylene		-	-	-	-	-	-	-	-	-	-
Cyclohexane		NR	NR	NR	NR	NR	NR	NR	NS	NR	NR
Dibromochloromethane	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
Dibromomethane	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
Dichlorodifluoromethane	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
Ethyl Benzene	5	**3,300**	NS	NS	**1,600**	**1,200**	ND	**1,100**	NS	**1,000**	**570**
Hexachlorobutadiene	0.5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
Isopropylbenzene	5	**170**	NS	NS	**74**	**64**	ND	**53**	NS	**38**	**28**
m/p-Xylenes	10	**11,000**	NS	NS	**6,000**	**67**	**68**	**3,100**	NS	**3,500**	**2700**
Methyl Acetate		NR	NR	NR	NR	NR	NR	NR	NS	NR	NR
Methyl Cyclohexane		NR	NR	NR	NR	NR	NR	NR	NS	NR	NR
Methyl ethyl ketone		-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl Ether	10	ND	NS	NS	**66**	**13**	**20**	**100**	NS	**150**	**100**
Methylene Chloride	5	**260**	NS	NS	**5.1**	**510**	**36**	**60**	NS	**8.2**	ND
Naphthalene	10	**910**	NS	NS	**610**	**36**	ND	**470**	NS	**410**	**310**
n-Butylbenzene	5	**210**	NS	NS	**41**	**150**	ND	**25**	NS	ND	ND
n-Propylbenzene	5	**500**	NS	NS	**160**	**530**	ND	**130**	NS	**94**	**63**
o-Xylene	5	**4,100**	NS	NS	**2,000**	**3,900**	ND	**1,100**	NS	**690**	**580**
p-Isopropyltoluene		ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
sec-Butylbenzene	5	ND	NS	NS	ND	**9.9**	ND	ND	NS	ND	ND
Styrene	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
t-1,3-Dichloropropene	0.4	NR	NR	NR	NR	NR	NR	NR	NS	ND	ND
Tert-butyl alcohol		-	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
Tetrachloroethene	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
Tetrachloroethylene		-	-	-	-	-	-	-	-	-	-
Tetrahydrofuran (THF)		-	-	-	-	-	-	-	-	-	-
Toluene	5	**7,900**	NS	NS	**3,800**	**810**	0.96	**1,300**	NS	**980**	**580**
trans-1,2-Dichloroethene	5	NR	NR	NR	NR	NR	NR	NR	NS	ND	ND
trans-1,2-Dichloroethylene		-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	0.4	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropylene		ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
trans-1,4-dichloro-2-butene	5	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	ND	NS	NS	ND	ND	ND	**8.2**	NS	ND	ND
Trichloroethylene		-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	5	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
Trichlorotrifluoroethane		-	-	-	-	-	-	-	-	-	-
Vinyl Acetate		-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	2	ND	NS	NS	ND	ND	ND	ND	NS	ND	ND
Total BTEX Concentration		**27,300.00**	**0.00**	**0.00**	**14,600.00**	**6,667**	**288.96**	**7,310.00**	**0.00**	**6,850.00**	**4,710.00**
Total Chlorinated VOC Concentration		**260.00**	**0.00**	**0.00**	**5.10**	**510.00**	**186.35**	**207.20**	**0.00**	**31.20**	**45.00**
Total VOCs		**35,150.00**	**0.00**	**0.00**	**18,026.10**	**10,209.90**	**502.51**	**9,825.20**	**0.00**	**9,084.20**	**7,016.00**

COMPOUND	NYSDEC Ambient Water Quality Standards µg/L	1/29/2013 Result	3/29/2013 Result	6/3/2013 Result	9/19/2013 Result	11/4/2013 Result	11/30/2013 Result	12/22/2013 Result	1/30/2014 Result	9/21/2016 Result	12/30/2016 Result	3/24/2017 Result	6/27/2017 Result	9/19/2017 Result	12/12/2017 Result	3/21/2018 Result	6/18/2018 Result	9/17/2018 Result	12/12/2018 Result	3/26/2019 Result
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	1	**1.6**	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 2.5	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichlorotrifluoroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	5	NR	NR	NR	NR	NR	NR	NR	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	-			-		-	-	-	-	-	-
1,1-Dichloropropene	5	-	-	-	-	-	-	-	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropylene		ND	ND	ND	ND	ND	ND	ND	ND	-			-		-	-	-	-	-	-
1,2,3-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	< 20	< 10	< 20	< 20	< 20	< 20	-	< 20	< 20	< 20	< 20
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND	< 20	< 2.5	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	< 20	< 10	< 20	< 20	< 20	< 20	-	< 20	< 20	< 20	< 20
1,2,4-Trimethylbenzene	5	**600**	**790**	**1,400**	**1,800**	**99**	**1,000**	**360**	**1100**	**2,300**	**2,400**	**3,300**	**2,900**	**1,000**	**1,700**	-	**2,600**	**2,500**	**2,500**	**3,300**
1,2-Dibromo-3-Chloropropane	0.04	**31**	ND	ND	ND	ND	ND	ND	ND	< 20	< 5.0	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10
1,2-Dibromoethane		ND	ND	ND	ND	ND	ND	ND	ND	< 20	< 2.5	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 4.7	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	0.6	**13**	ND	ND	ND	ND	ND	ND	ND	< 10	< 5.0	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10
1,2-Dichloroethylene (Total)		ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 2.5	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	5	**160**	**150**	**320**	**460**	ND	**150**	**28**	**290**	**310**	**630**	**850**	**730**	**270**	**570**	-	**690**	**500**	**570**	**560**
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 3.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 2000	< 2000	< 2000	< 2000
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone		52	32	220	130	100	21	ND	ND	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	5	100	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone		NR	NR	NR	NR	NR	NR	NR	-	< 50	< 25	< 50	< 50	< 50	< 5.0	-	< 50	< 5.0	< 50	< 50
2-Isopropyltoluene	5	-	-	-	-	-	-	-	-	< 5.0	3.9	< 5.0	5	< 5.0	< 50	-	< 5.0	< 50	< 5.0	< 5.0
4-Chlorotoluene	5	**34**	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
4-Methyl-2-Pentanone		NR	NR	NR	NR	NR	NR	NR	-	< 50	< 25	< 50	< 50	< 50	< 50	-	< 50	< 50	< 50	< 50
Acetone		80	38	570	230	140	37	ND	490	200	95	77	< 50	66	< 50	-	< 50	< 50	< 50	< 50
Acrolein	5	-	-	-	-	-	-	-	-	< 50	< 25	< 50	< 50	< 50	< 50	-	< 50	< 50	< 50	< 50
Acrylonitrile	5	-	-	-	-	-	-	-	-	< 50	< 25	< 50	< 50	< 50	< 50	-	< 5.0	< 50	< 5.0	< 5.0
Benzene	1	**400**	**130**	**620**	**930**	**230**	**170**	**4.3**	**160**	**460**	**510**	**800**	**580**	**160**	**440**	-	**380**	**390**	**340**	**140**
Bromobenzene	5	**17**	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane		1.7	ND	ND	ND	ND	ND	ND	ND	< 20	< 10	< 20	< 20	< 20	< 20	-	< 20	< 20	< 20	< 20
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	< 50	< 50	< 50	< 50	< 50	< 50	-	< 50	< 50	< 50	< 50
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	60	NR	NR	NR	NR	NR	NR	NR	-	34	20	19	13	10	11	-	< 20	< 20	< 20	< 20
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	5	2.8	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	7	2.5	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	-	< 7.0	< 7.0	< 7.0	< 7.0
Chloromethane	60	3.3	ND	ND	ND	ND	2.9	6.2	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	-	**6**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethylene		-	-	-	-	-	-	-	ND	-	-	-	-	-	< 5.0	-	-	-	-	-
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	-	< 5.0	< 2.5	< 5.0	< 5.0	< 5.0	-	-	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropylene		-	-	-	-	-	-	-	ND	-	-	-	-	-	< 20	-	-	-	-	-
Cyclohexane		NR	NR	NR	NR	NR	NR	NR	-	-	-	-	-	-	< 5.0	-	-	-	-	-
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	< 20	< 10	< 20	< 20	< 20	< 5.0	-	< 20	< 20	< 20	< 20
Dibromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	-	< 5.0	< 5.0	< 5.0	< 5.0
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	-	< 5.0	< 5.0	< 5.0	< 5.0
Ethyl Benzene	5	**530**	**480**	**920**	**1,000**	**200**	**300**	**120**	**680**	**1,300**	**1,400**	**1,900**	**1,700**	**580**	**830**	-	**1,400**	**1,600**	**1,600**	**2,200**
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	< 4.0	< 2.0	< 4.0	< 4.0	< 4.0	< 4.0	-	< 4.0	< 4.0	< 4.0	< 4.0
Isopropylbenzene	5	**46**	**17**	ND	**50**	ND	**13**	**22**	ND	**34**	**82**	**80**	**96**	**25**	**68**	-	**78**	**67**	**77**	**89**
m/p-Xylenes	10	**1,600**	**1,700**	**3,600**	**4,000**	**320**	**1,400**	**87**	**2400**	**6,800**	**5,500**	**8,600**	**7,200**	**3,200**	**3,800**	-	**6,100**	**7,400**	**6100**	**6800**
Methyl Acetate		NR	NR	NR	NR	NR	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Cyclohexane		NR	NR	NR	NR	NR	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-
Methyl ethyl ketone		-	-	-	-	-	-	-	-	< 50	< 25	< 50	< 50	< 50	< 50	-	< 50	< 50	< 50	< 50
Methyl tert-butyl Ether	10	**53**	**41**	ND	**110**	**39**	**26**	**34**	ND	**74**	**94**	**120**	**77**	**49**	**91**	-	**32**	**29**	**13**	5.2
Methylene Chloride	5	ND	ND	**460**	ND	ND	ND	ND	**73**	< 20	< 10	< 20	< 20	< 20	< 20	-	< 10	< 10	< 10	< 10
Naphthalene	10	**200**	**180**	**460**	**500**	**350**	**170**	**140**	**280**	**480**	**560**	**760**	**680**	**200**	**550**	-	**590**	**470**	**560**	**900**
n-Butylbenzene	5	**29**	ND	ND	ND	ND	ND	**10**	ND	**8**	**18**	**20**	**29**	**9.2**	**17**	-	**24**	**15**	**16**	**18**
n-Propylbenzene	5	**110**	**43**	ND	**110**	**27**	**30**	**57**	**130**	**81**	**210**	**210**	**270**	**59**	**150**	-	**190**	**150**	**190**	**240**
o-Xylene	5	**480**	**530**	**940**	**980**	**110**	**360**	**7.7**	**850**	**1,500**	**1,500**	**2,300**	**1,900**	**790**	**1,100**	-	**1,400**	**1,400**	**1,200**	**730**
p-Isopropyltoluene		5.6	2.9	ND	ND	ND	**2.6**	ND	ND	< 5.0	**9**	**10**	**10**	< 5.0	**9.8**	-	**11**	**6.2**	**8.4**	**9.8**
sec-Butylbenzene	5	**8.0**	ND	ND	ND	ND	**3.2**	**5.4**	ND	< 5.0	**18**	**17**	**21**	**7.4**	**16**	-	**16**	**12**	**14**	**15**
Styrene	5	**18**	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
t-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
Tert-butyl alcohol		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1000	< 1000	< 1000	< 1000
tert-Butylbenzene	5	**73**	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	**19**	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	-	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethylene		-	-	-	-	-	-	-	ND	-	-	-	-	-	< 5.0	-	-	-	-	-
Tetrahydrofuran (THF)		-	-	-	-	-	-	-	-	< 50	< 50	< 50	< 50	< 50	< 50	-	< 50	< 50	< 50	< 50
Toluene	5	**600**	**640**	**1,600**	**1,500**	**320**	**590**	ND	**980**	**2,300**	**2,200**	**3,800**	**2,900**	**1,100**	**1,900**	-	**1,400**	**1,500**	**1,400**	**790**
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
trans-1,2-Dichloroethylene		-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	0.4	-	-	-	-	-	-	-	-	< 5.0	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0	-	< 5.0	< 50	< 5.0	< 5.0
trans-1,3-Dichloropropylene		ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	< 5.0	< 50	< 50
trans-1,4-dichloro-2-butene	5	-	-	-	-	-	-	-	-	< 50	< 25	< 25	< 50	< 50	< 50	-	< 50	< 5.0	< 5.0	< 5.0
Trichloroethene	5	**7.8**	ND	ND	ND	ND	ND	ND	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethylene		-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorotrifluoroethane		-	-	-	-	-	-	-	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	-	< 5.0	< 5.0
Vinyl Acetate		-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	< 5.0	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
Total BTEX Concentration		**3,610.00**	**3,480.00**	**7,680.00**	**8,410.00**	**1,180.00**	**2,820**	**219.00**	**5,070.00**	**12,360.00**	**11,110.00**	**17,400.00**	**14,280.00**	**5,830.00**	**8,070.00**	**0.00**	**10,680.00**	**12,290.00**	**10,640.00**	**10,660.00**
Total Chlorinated VOC Concentration		**163.70**	**0.00**	**460.00**	**0.00**	**0.00**	**2.90**	**25.20**	**73.00**	**6.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total VOCs		**5,259.30**	**4,773.90**	**11,110.00**	**11,800.00**	**1,935.00**	**4,275.70**	**900.60**	**7,433.00**	**15,887.00**	**15,249.90**	**22,863.00**	**19,111.00**	**7,525.60**	**11,252.80**		**14,911.00**	**16,039.20**	**14,588.40**	**15,797.00**

COMPOUND	NYSDEC Ambient Water Quality Standards µg/L	6/26/2019 Result	9/30/2019 Result	12/10/2019 Result	3/27/2020 Result	6/30/2020 Result	9/28/2020 Result	6/30/2022 Result	11/10/2022 Result	12/8/2023 Result	2/22/2024 Result	7/17/2024 Result	9/25/2024 Result	12/18/2024 Result
1,1,1,2-Tetrachloroethane	5	<5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
1,1,1-Trichloroethane	5	< 5.0	< 63	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 100	< 1.0	< 5.0	< 1.3
1,1,2,2-Tetrachloroethane	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 0.50	< 1.0	< 1.3
1,1,2-Trichloroethane	1	< 2.5	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
1,1,2-Trichlorotrifluoroethane	5	-	-	-	-	-	-	-	-	-	-	-		-
1,1-Dichloroethane	5	< 5.0	< 63	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 100	< 1.0	< 5.0	< 1.3
1,1-Dichloroethene	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
1,1-Dichloroethylene		-	-	-	-	-	-	-	-	-	-	-		-
1,1-Dichloropropene	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
1,1-Dichloropropylene		-	-	-	-	-	-	-	-	-	-			-
1,2,3-Trichlorobenzene		< 10	< 250	< 1.0	< 20	< 20	< 20	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
1,2,3-Trichloropropane	0.04	< 2.5	< 63	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 0.25	< 20	< 0.25	< 1.0	< 1.3
1,2,4-Trichlorobenzene		< 10	< 250	< 1.0	< 20	< 20	< 20	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
1,2,4-Trimethylbenzene	5	**1,500**	**1,400**	**14**	**2,600**	**2,100**	**640**	**280**	**380**	**1,200**	**2,400**	**640**	**110**	**870**
1,2-Dibromo-3-Chloropropane	0.04	< 5.0	< 130	< 0.50	< 10	< 10	< 10	< 5.0	< 1.0	< 0.50	< 20	< 0.50	< 1.0	< 2.5
1,2-Dibromoethane		< 2.5	< 63	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 0.25	< 20	< 0.25	< 1.0	< 1.3
1,2-Dichlorobenzene	5	< 4.7	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
1,2-Dichloroethane	0.6	<5.0	< 130	< 0.60	< 10	< 10	< 10	< 3.0	< 0.60	< 0.60	< 12	< 0.60	< 0.60	< 2.5
1,2-Dichloroethylene (Total)		-	-	-	-	-	-	-	-	-	-	-		-
1,2-Dichloropropane	1	< 2.5	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
1,3,5-Trimethylbenzene	5	**230**	**200**	1.1	**340**	**520**	**220**	**33**	**57**	**140**	**590**	**150**	**11**	**75**
1,3-Dichlorobenzene		< 3.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
1,3-Dichloropropane	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
1,4-Dichlorobenzene	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
1,4-dioxane		<2000	< 25000	< 100	< 2000	< 2000	< 2000	< 500	< 0.57	-	-	-		-
2,2-Dichloropropane	5	<5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
2-Butanone		-	-	-	-	-	-	-	-	-	-	-		-
2-Chlorotoluene	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
2-Hexanone		< 25	< 130	< 2.5	< 50	< 50	< 50	< 13	< 2.5	< 2.5	< 50	< 5.0	< 2.5	< 13
2-Isopropyltoluene	5	< 5.0	< 63	1.5	< 5.0	< 5.0	< 5.0	< 5.0	0.3	**5.6**	**5.4**	1.6	0.29	< 1.3
4-Chlorotoluene	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
4-Methyl-2-Pentanone		< 25	< 130	< 2.5	< 50	< 50	< 50	< 13	< 2.5	< 2.5	< 50	< 5.0	< 2.5	< 13
Acetone		< 50	< 500	< 5.0	< 50	< 50	< 50	< 25	12	< 5.0	< 100	< 25	8.6	< 13
Acrolein	5	<50	< 630	< 5.0	< 50	< 50	< 50	< 25	< 5.0	< 5.0	< 100	-	< 5.0	< 13
Acrylonitrile	5	<5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 100	< 1.0	< 5.0	< 13
Benzene	1	**89**	**130**	**2**	**94**	**75**	**76**	**9.6**	**17**	**32**	**48**	**10**	**5.3**	**46**
Bromobenzene	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
Bromochloromethane	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
Bromodichloromethane		< 10	< 63	< 1.0	< 20	< 20	< 20	< 5.0	< 1.0	< 1.0	< 20	< 0.50	< 1.0	< 1.3
Bromoform		< 50	< 63	< 5.0	< 50	< 50	< 50	< 25	< 5.0	< 5.0	< 100	< 1.0	< 5.0	< 1.3
Bromomethane	5	< 5.0	**91**	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 100	< 1.0	< 5.0	< 1.3
Carbon Disulfide	60	< 10	< 63	< 1.0	< 20	< 20	< 20	< 5.0	< 1.0	< 1.0	< 20	< 5.0	< 1.0	< 1.3
Carbon Tetrachloride	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
Chlorobenzene	5	< 5.0	< 63	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 100	< 1.0	< 5.0	< 1.3
Chloroethane	5	< 5.0	< 63	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 100	< 1.0	< 5.0	< 1.3
Chloroform	7	< 7.0	< 63	< 5.0	< 7.0	< 7.0	< 7.0	< 25	< 5.0	< 5.0	< 100	< 1.0	< 5.0	< 1.3
Chloromethane	60	< 5.0	< 63	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 100	< 1.0	< 5.0	< 1.3
cis-1,2-Dichloroethene	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
cis-1,2-Dichloroethylene		-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene		< 2.5	< 63	< 0.40	< 5.0	< 5.0	< 5.0	< 2.0	< 0.40	< 0.40	< 8.0	< 0.40	< 0.40	< 1.3
cis-1,3-Dichloropropylene		-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane		-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	5	< 10	< 63	< 1.0	< 20	< 20	< 20	< 5.0	< 1.0	< 1.0	< 20	< 0.50	< 1.0	< 1.3
Dibromomethane	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
Dichlorodifluoromethane	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
Ethyl Benzene	5	**1,000**	**900**	**6.7**	**1,500**	**1,400**	**490**	**100**	**140**	**440**	**1,800**	**440**	**74**	**400**
Hexachlorobutadiene	0.5	< 2.0	< 50	< 0.50	< 4.0	< 4.0	< 4.0	< 2.5	< 0.50	< 0.50	< 10	< 0.40	< 0.50	< 1.0
Isopropylbenzene	5	**53**	< 63	**7.4**	**60**	**80**	**41**	**5.2**	**7.7**	**81**	**130**	**28**	3.5	**23**
m/p-Xylenes	10	**2,800**	**2,800**	6.6	**4,400**	**3,600**	**1,200**	**280**	**390**	**750**	**5,500**	**1,200**	**120**	**680**
Methyl Acetate		-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Cyclohexane		-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl ethyl ketone		< 25	< 500	< 2.5	< 50	< 50	< 50	< 13	4.5	< 2.5	< 50	< 5.0	< 2.5	< 13
Methyl tert-butyl Ether	10	7.7	< 250	0.87	7.5	6.6	**13**	4.5	15	2.3	< 20	5.1	3.6	**16**
Methylene Chloride	5	< 5.0	< 130	< 3.0	< 10	< 10	< 10	< 15	< 3.0	< 3.0	< 60	< 1.0	< 3.0	< 5.0
Naphthalene	10	**480**	**440**	3.1	**600**	**720**	**400**	**150**	**170**	**190**	**460**	**120**	**74**	**220**
n-Butylbenzene	5	**13**	< 63	1.2	**10**	**19**	**7.2**	2.6	2	**28**	**32**	**5.4**	1.1	3.7
n-Propylbenzene	5	**120**	**86**	**5.6**	**140**	**220**	**92**	**14**	22	**150**	**330**	**90**	**8.2**	**51**
o-Xylene	5	**300**	**350**	0.7	**500**	**480**	**330**	**66**	**100**	**210**	**1,700**	**460**	< 5.0	**250**
p-Isopropyltoluene		**7.5**	< 63	0.95	< 5.0	**7.9**	< 5.0	< 5.0	0.83	**12**	10	2.6	< 1.0	< 1.3
sec-Butylbenzene	5	**8.6**	< 63	**6.2**	**8.6**	**14**	< 5.0	< 5.0	< 1.0	**19**	**21**	**6.1**	0.82	< 1.3
Styrene	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
t-1,3-Dichloropropene	0.4	-	-	-	-	-	-	-	-	-	-	-		-
Tert-butyl alcohol		<1000	< 13000	< 50	< 1000	< 1000	< 1000	53	< 50	-	-	-		-
tert-Butylbenzene	5	< 5.0	< 63	0.5	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
Tetrachloroethene	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
Tetrachloroethylene		-	-	-	-	-	-	-	-	-	-			-
Tetrahydrofuran (THF)		< 50	< 310	< 5.0	< 50	< 50	< 50	< 25	< 5.0	< 5.0	< 100	< 2.5	< 5.0	< 13
Toluene	5	**250**	**370**	0.57	**360**	**260**	**260**	**36**	**57**	**200**	**1,000**	**120**	**38**	**210**
trans-1,2-Dichloroethene	5	< 5.0	< 63	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 100	< 1.0	< 5.0	< 1.3
trans-1,2-Dichloroethylene		-	-	-	-	-	-	-	-	-	-			-
trans-1,3-Dichloropropene	0.4	< 2.5	< 63	< 0.40	< 5.0	< 5.0	< 5.0	< 2.0	< 0.40	< 0.40	< 8.0	< 0.40	< 0.40	< 1.3
trans-1,3-Dichloropropylene		< 25	-	-	-	-	-	-	-	-	-			-
trans-1,4-dichloro-2-butene	5	< 5.0	< 630	< 2.5	< 50	< 50	< 50	< 13	< 2.5	< 2.5	< 50	< 5.0	< 2.5	< 13
Trichloroethene	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
Trichloroethylene		-	-	-	-	-	-	-	-	-	-			-
Trichlorofluoromethane	5	< 5.0	< 63	< 1.0	< 5.0	< 5.0	-	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
Trichlorotrifluoroethane		<5.0	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
Vinyl Acetate		-	-	-	-	-	< 5.0	-	-	-	-	-		-
Vinyl Chloride	2	<2.5	< 63	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 20	< 1.0	< 1.0	< 1.3
Total BTEX Concentration		**4,439.00**	**4,550.00**	**16.57**	**6854.00**	**5815.00**	**2356.00**	**491.60**	**704.00**	**1632.00**	**10048.00**	**2230.00**	**237.30**	**1586.00**
Total Chlorinated VOC Concentration		**0.00**	**0.00**	**0**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total VOCs		**6,858.80**	**6,767.00**	**58.99**	**10620.10**	**9502.50**	**3769.20**	**1033.90**	**1375.33**	**3459.90**	**14026.40**	**3278.80**	**458.41**	**2821.70**

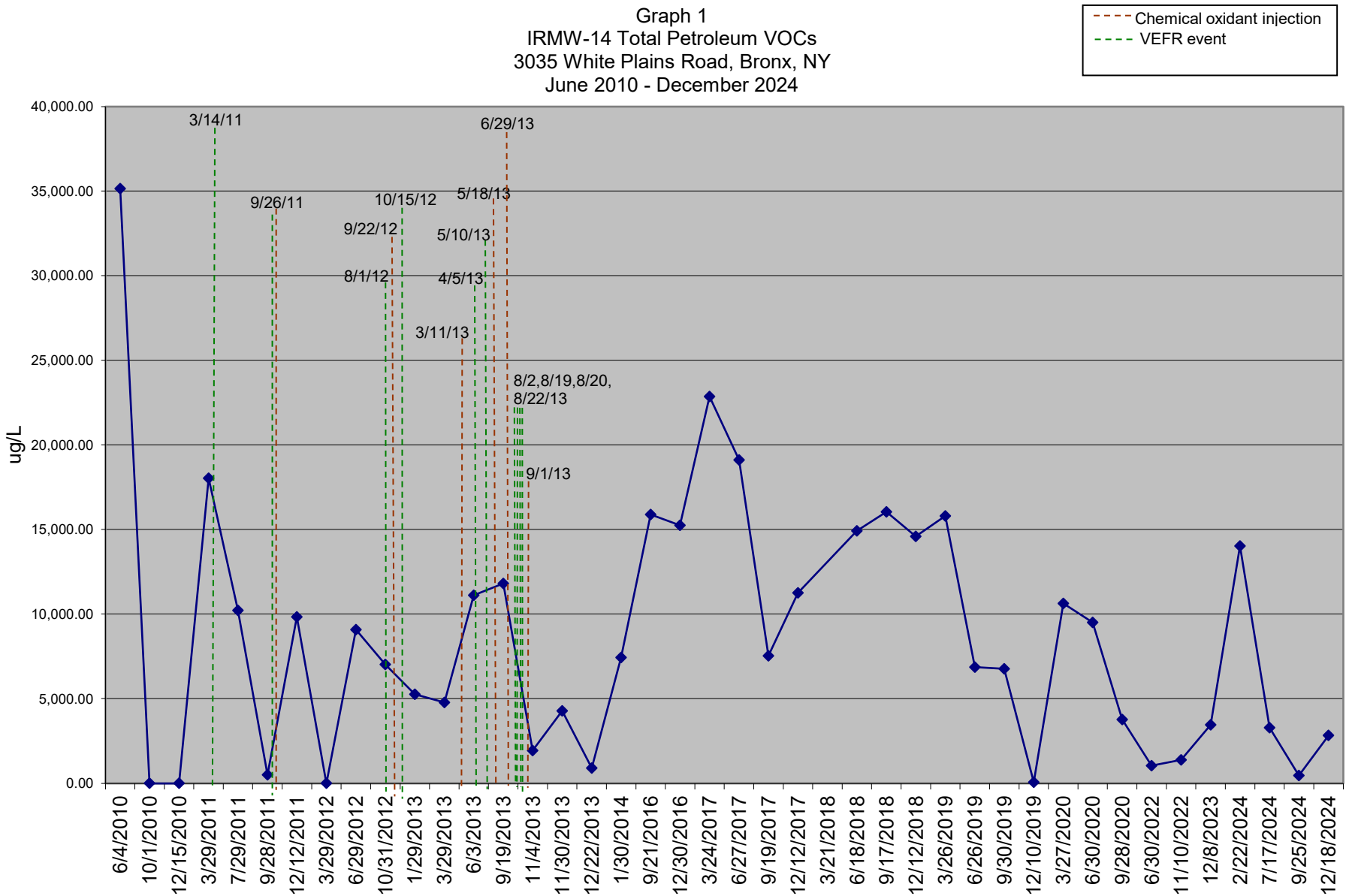
	6/4/2010	10/1/2010	12/15/2010	3/29/2011
Ferrous Iron	-	-	-	-
Persulfate	ND	-	-	ND

Notes:
ND - Non-Detect
NR - Not Analyzed
NS - Not Sampled
RL - Reporting Level
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

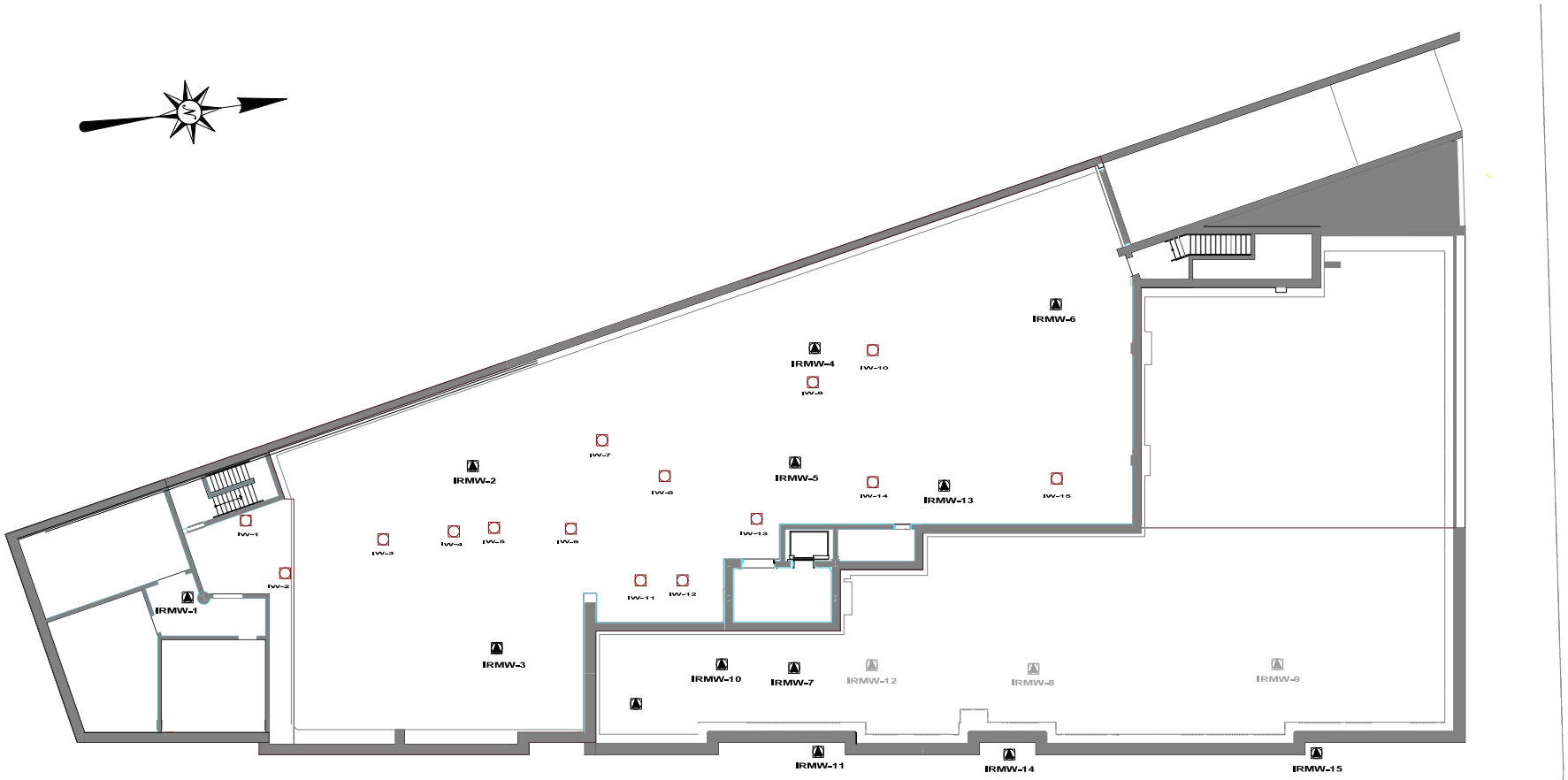
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105
O: 718.545.0474

GRAPHS

Graph 1
IRMW-14 Total Petroleum VOCs
3035 White Plains Road, Bronx, NY
June 2010 - December 2024



FIGURES



SIDEWALK

WHITE PLAINS ROAD

Note:

IRMW-X
Groundwater Monitoring Well

Note: IRM-W10, 11, 12 and 13 installed for LPH delineation.

Scale:

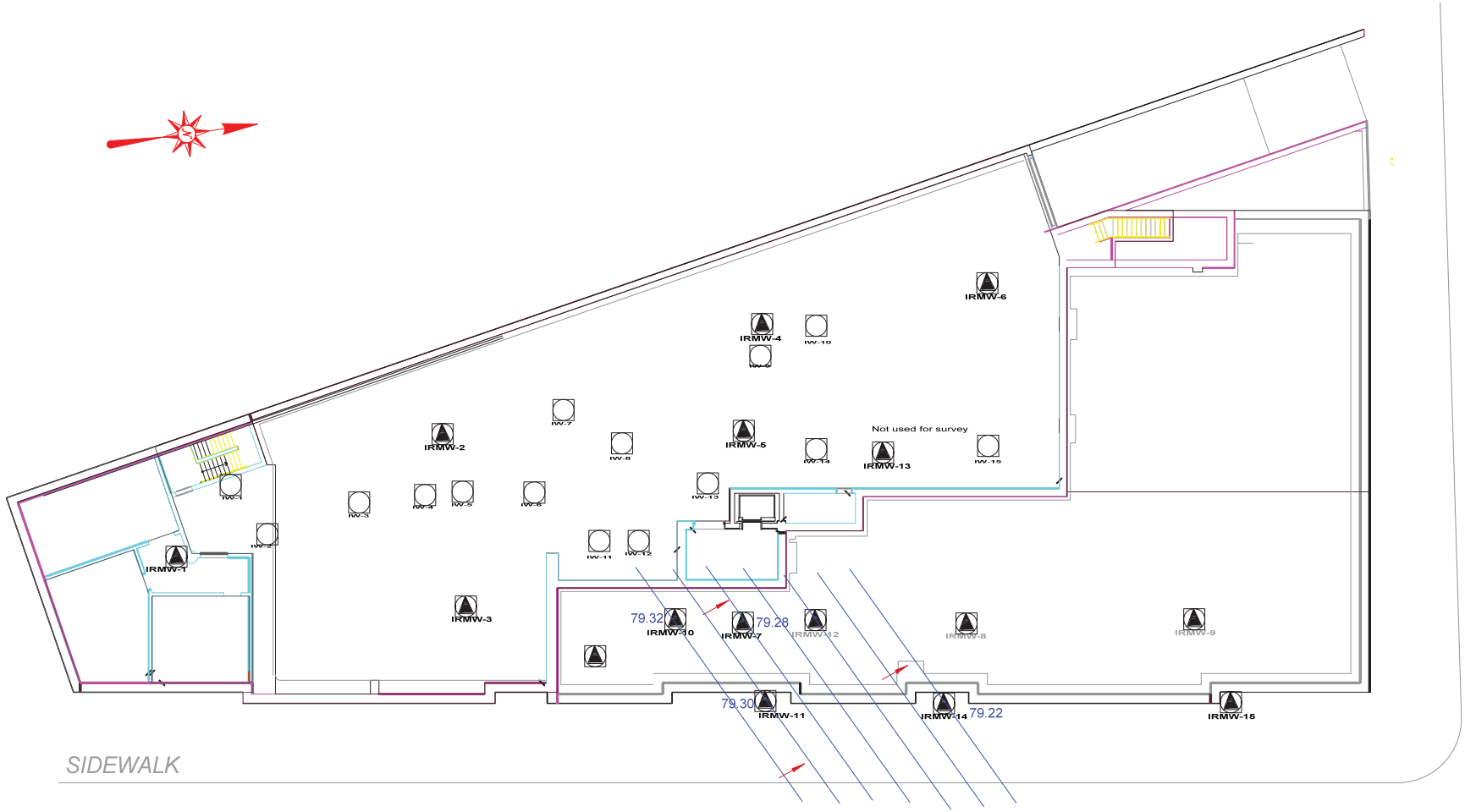
0 15 30

1 inch = 30 feet

EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631.924.2870

Former Dico G Auto & Truck Repair
3035 White Plains Road, Bronx, NY

FIGURE 1 Site Plan Map



Note:

IRMW-X Groundwater Monitoring Well

Note: IRM-W10, 11, 12 and 13 installed for LPH delineation.

Groundwater Flow Direction

Scale:

0 15 30

1 inch = 30 feet

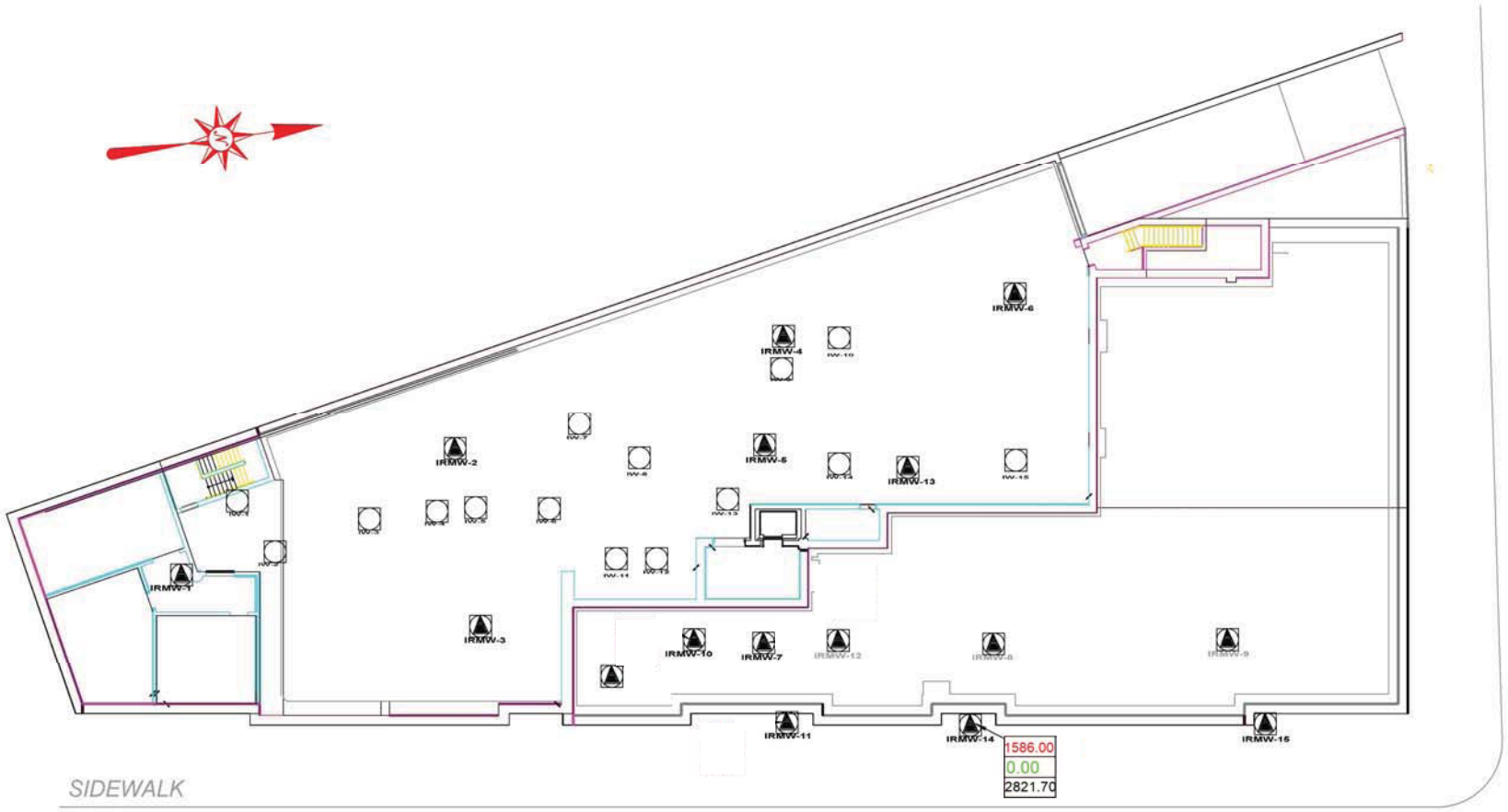
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105
O: 718.545.0474

Figure No. **2**

Site Name: Former Dico G Auto & Truck Repair

Site Address: 3035 White Plains Road, Bronx, NY

Drawing Title: Groundwater Contour Map - 3Q2024



Note:

IRMW-X Groundwater Monitoring Well

Note: IRM-W10, 11, 12 and 13 installed for LPH delineation

xxx	BTEX Concentration (µg/L)
xxx	Total Chlorinated VOC Concentration (µg/L)
xxx	Total VOC Concentration (µg/L)

Scale:

0 15 30

1 inch = 30 feet

AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105
O: 718.545.0474

Figure No. **3**

Site Name: Former Dico G Auto & Truck Repair

Site Address: 3035 White Plains Road, Bronx, NY

Drawing Title: Groundwater VOCs - 4Q2024

APPENDIX A

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

GROUNDWATER PURGE / SAMPLE LOGS

AMC Engineering PLLC

3035 White Plains Road, Bronx

Well I.D.: IRMW-14

Date: 12/18/2024

Well Depth (from TOC): 19.2

Equipment: Peristaltic pump, horiba

Static Water Level (from TOC): 15.99

Height of Water in Well: 3.21

Gallons of Water per Well Volume: 0.54

Flow Rate: 250 ml/min

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
9:30 AM	0.04 gal/min	0.04	8.82	1.1	14.64	2.34	-166	174	0.701	N/A
9:35 AM	0.04 gal/min	0.2000	8.85	1.11	14.78	1.84	-186	134	0.711	N/A
9:40 AM	0.04 gal/min	0.4000	8.89	1.11	14.43	2.44	-199	121	0.712	N/A
9:45 AM	0.04 gal/min	0.6000	8.98	1.12	13.80	5.12	-204	111	0.714	N/A
9:50 AM	0.04 gal/min	0.8000	9.12	1.11	13.67	5.63	-201	105	0.708	N/A
9:55 AM	0.04 gal/min	1.0000	9.22	1.10	13.59	6.54	-196	97.4	0.702	N/A
10:00 AM	0.04 gal/min	1.2000	9.33	1.09	13.51	7.16	-187	96.1	0.698	N/A
10:05 AM	0.04 gal/min	1.4000	9.40	1.09	13.44	7.54	-177	98.2	0.697	N/A
10:10 AM	0.04 gal/min	1.6000	9.48	1.09	13.40	10.85	-156	97.7	0.695	N/A
10:15 AM	0.04 gal/min	1.8000	9.53	1.08	13.42	8.01	-127	97.8	0.694	N/A
10:20 AM	0.04 gal/min	2.0000	9.57	1.08	13.43	8.22	-89	95.9	0.693	N/A

Note 150 ml = 0.04 gallons

Well was purged before noting of readings.

APPENDIX B

Laboratory Report

PHOENIX
Environmental Laboratories, Inc.

Friday, January 03, 2025

Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Project ID: **3035 WHITE PLAINS ROAD, BX**
SDG ID: **GCS32429**
Sample ID#s: CS32429 - CS32431

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

January 03, 2025

SDG I.D.: GCS32429

8260 Volatile Organics:
1,2-Dibromoethane, 1,2,3 Trichloropropane, and 1,2-Dibromo-3-chloropropane do not meet NY TOGS GA criteria, these compounds are analyzed by GC/FID method 504 or 8011 to achieve this criteria.

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Sample Id Cross Reference

January 03, 2025

SDG I.D.: GCS32429

Project ID: 3035 WHITE PLAINS ROAD, BX

Client Id	Lab Id	Matrix
IRMW-14	CS32429	GROUND WATER
DUPLICATE	CS32430	GROUND WATER
TRIP BLANK	CS32431	GROUND WATER

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 03, 2025

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		12/18/24	12:30
Location Code:	AMC-ENG	Received by:	SR1	12/19/24	18:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS32429
Phoenix ID: CS32429

Project ID: 3035 WHITE PLAINS ROAD, BX
Client ID: IRMW-14

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Client MS/MSD	Completed					12/24/24			
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1,1-Trichloroethane	ND	25	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1,2-Trichloroethane	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1-Dichloroethane	ND	25	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1-Dichloroethene	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1-Dichloropropene	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2,3-Trichloropropane	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2,4-Trimethylbenzene	870	20	5.0	ug/L	20	12/24/24	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	5.0	2.5	ug/L	5	12/24/24	MH	SW8260D	
1,2-Dibromoethane	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2-Dichlorobenzene	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2-Dichloroethane	ND	3.0	2.5	ug/L	5	12/24/24	MH	SW8260D	
1,2-Dichloropropane	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,3,5-Trimethylbenzene	75	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,3-Dichlorobenzene	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,3-Dichloropropane	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,4-Dichlorobenzene	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
2,2-Dichloropropane	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
2-Chlorotoluene	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
2-Hexanone	ND	13	13	ug/L	5	12/24/24	MH	SW8260D	
2-Isopropyltoluene	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	1
4-Chlorotoluene	ND	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	

Project ID: 3035 WHITE PLAINS ROAD, BX
Client ID: IRMW-14

Phoenix I.D.: CS32429

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND		13	13	ug/L	5	12/24/24	MH	SW8260D	
Acetone	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	
Acrolein	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	
Acrylonitrile	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	
Benzene	46		3.5	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromochloromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromodichloromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromoform	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromomethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	B
Carbon Disulfide	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Carbon tetrachloride	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chlorobenzene	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chloroethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chloroform	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chloromethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
cis-1,2-Dichloroethene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
cis-1,3-Dichloropropene	ND		2.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Dibromochloromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Dibromomethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Dichlorodifluoromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Ethylbenzene	400		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Hexachlorobutadiene	ND		2.5	1.0	ug/L	5	12/24/24	MH	SW8260D	
Isopropylbenzene	23		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
m&p-Xylene	680		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Methyl ethyl ketone	ND		13	13	ug/L	5	12/24/24	MH	SW8260D	
Methyl t-butyl ether (MTBE)	16		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Methylene chloride	ND		15	5.0	ug/L	5	12/24/24	MH	SW8260D	
Naphthalene	220		5.0	5.0	ug/L	5	12/24/24	MH	SW8260D	
n-Butylbenzene	3.7	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
n-Propylbenzene	51		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
o-Xylene	250		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
p-Isopropyltoluene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
sec-Butylbenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Styrene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
tert-Butylbenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Tetrachloroethene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Tetrahydrofuran (THF)	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	1
Toluene	210		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
trans-1,2-Dichloroethene	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
trans-1,3-Dichloropropene	ND		2.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND		13	13	ug/L	5	12/24/24	MH	SW8260D	
Trichloroethene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Trichlorofluoromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Trichlorotrifluoroethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Vinyl chloride	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4 (5x)	100				%	5	12/24/24	MH	70 - 130 %	
% Bromofluorobenzene (5x)	98				%	5	12/24/24	MH	70 - 130 %	

Ver 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane (5x)	101			%	5	12/24/24	MH	70 - 130 %
% Toluene-d8 (5x)	99			%	5	12/24/24	MH	70 - 130 %
% 1,2-dichlorobenzene-d4 (20x)	101			%	20	12/24/24	MH	70 - 130 %
% Bromofluorobenzene (20x)	96			%	20	12/24/24	MH	70 - 130 %
% Dibromofluoromethane (20x)	104			%	20	12/24/24	MH	70 - 130 %
% Toluene-d8 (20x)	98			%	20	12/24/24	MH	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
January 03, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 03, 2025

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		12/18/24	12:35
Location Code:	AMC-ENG	Received by:	SR1	12/19/24	18:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS32429
Phoenix ID: CS32430

Project ID: 3035 WHITE PLAINS ROAD, BX
Client ID: DUPLICATE

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1,1-Trichloroethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1,2-Trichloroethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1-Dichloroethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1-Dichloroethene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1-Dichloropropene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2,3-Trichlorobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2,3-Trichloropropane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2,4-Trichlorobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2,4-Trimethylbenzene	870		20	5.0	ug/L	20	12/24/24	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND		5.0	2.5	ug/L	5	12/24/24	MH	SW8260D	
1,2-Dibromoethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2-Dichlorobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2-Dichloroethane	ND		3.0	2.5	ug/L	5	12/24/24	MH	SW8260D	
1,2-Dichloropropane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,3,5-Trimethylbenzene	130		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,3-Dichlorobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,3-Dichloropropane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,4-Dichlorobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
2,2-Dichloropropane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
2-Chlorotoluene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
2-Hexanone	ND		13	13	ug/L	5	12/24/24	MH	SW8260D	
2-Isopropyltoluene	1.3	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	1
4-Chlorotoluene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
4-Methyl-2-pentanone	ND		13	13	ug/L	5	12/24/24	MH	SW8260D	

Project ID: 3035 WHITE PLAINS ROAD, BX
Client ID: DUPLICATE

Phoenix I.D.: CS32430

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	
Acrolein	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	
Acrylonitrile	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	
Benzene	42		3.5	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromochloromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromodichloromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromoform	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromomethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	B
Carbon Disulfide	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Carbon tetrachloride	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chlorobenzene	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chloroethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chloroform	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chloromethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
cis-1,2-Dichloroethene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
cis-1,3-Dichloropropene	ND		2.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Dibromochloromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Dibromomethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Dichlorodifluoromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Ethylbenzene	530		20	5.0	ug/L	20	12/24/24	MH	SW8260D	
Hexachlorobutadiene	ND		2.5	1.0	ug/L	5	12/24/24	MH	SW8260D	
Isopropylbenzene	34		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
m&p-Xylene	900		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Methyl ethyl ketone	ND		13	13	ug/L	5	12/24/24	MH	SW8260D	
Methyl t-butyl ether (MTBE)	16		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Methylene chloride	ND		15	5.0	ug/L	5	12/24/24	MH	SW8260D	
Naphthalene	350		5.0	5.0	ug/L	5	12/24/24	MH	SW8260D	
n-Butylbenzene	6.5		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
n-Propylbenzene	81		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
o-Xylene	320		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
p-Isopropyltoluene	2.8	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
sec-Butylbenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Styrene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
tert-Butylbenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Tetrachloroethene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Tetrahydrofuran (THF)	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	1
Toluene	220		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
trans-1,2-Dichloroethene	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
trans-1,3-Dichloropropene	ND		2.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND		13	13	ug/L	5	12/24/24	MH	SW8260D	
Trichloroethene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Trichlorofluoromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Trichlorotrifluoroethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Vinyl chloride	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4 (5x)	99				%	5	12/24/24	MH	70 - 130 %	
% Bromofluorobenzene (5x)	99				%	5	12/24/24	MH	70 - 130 %	
% Dibromofluoromethane (5x)	101				%	5	12/24/24	MH	70 - 130 %	

Ver 1

Project ID: 3035 WHITE PLAINS ROAD, BX
Client ID: DUPLICATE

Phoenix I.D.: CS32430

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8 (5x)	98			%	5	12/24/24	MH	70 - 130 %
% 1,2-dichlorobenzene-d4 (20x)	100			%	20	12/24/24	MH	70 - 130 %
% Bromofluorobenzene (20x)	97			%	20	12/24/24	MH	70 - 130 %
% Dibromofluoromethane (20x)	102			%	20	12/24/24	MH	70 - 130 %
% Toluene-d8 (20x)	99			%	20	12/24/24	MH	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

January 03, 2025

Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 03, 2025

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		12/18/24	
Location Code:	AMC-ENG	Received by:	SR1	12/19/24	18:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS32429
Phoenix ID: CS32431

Project ID: 3035 WHITE PLAINS ROAD, BX
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,2,3-Trichloropropane	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	12/21/24	HM	SW8260D	
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	12/21/24	HM	SW8260D	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
2-Hexanone	ND	2.5	2.5	ug/L	1	12/21/24	HM	SW8260D	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/21/24	HM	SW8260D	

Project ID: 3035 WHITE PLAINS ROAD, BX
Client ID: TRIP BLANK

Phoenix I.D.: CS32431

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		5.0	2.5	ug/L	1	12/21/24	HM	SW8260D	
Acrolein	ND		5.0	2.5	ug/L	1	12/21/24	HM	SW8260D	
Acrylonitrile	ND		5.0	2.5	ug/L	1	12/21/24	HM	SW8260D	
Benzene	ND		0.70	0.25	ug/L	1	12/21/24	HM	SW8260D	
Bromobenzene	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Bromochloromethane	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Bromoform	ND		5.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Bromomethane	0.31	J	5.0	0.25	ug/L	1	12/21/24	HM	SW8260D	B*
Carbon Disulfide	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Chlorobenzene	ND		5.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Chloroethane	ND		5.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Chloroform	ND		5.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Chloromethane	ND		5.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/21/24	HM	SW8260D	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Dibromomethane	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Ethylbenzene	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	12/21/24	HM	SW8260D	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
m&p-Xylene	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	12/21/24	HM	SW8260D	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Methylene chloride	ND		3.0	1.0	ug/L	1	12/21/24	HM	SW8260D	
Naphthalene	ND		1.0	1.0	ug/L	1	12/21/24	HM	SW8260D	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
o-Xylene	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Styrene	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	12/21/24	HM	SW8260D	1
Toluene	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
trans-1,2-Dichloroethene	ND		5.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/21/24	HM	SW8260D	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	12/21/24	HM	SW8260D	
Trichloroethene	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
Vinyl chloride	ND		1.0	0.25	ug/L	1	12/21/24	HM	SW8260D	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	98				%	1	12/21/24	HM	70 - 130 %	
% Bromofluorobenzene	96				%	1	12/21/24	HM	70 - 130 %	
% Dibromofluoromethane	100				%	1	12/21/24	HM	70 - 130 %	

Ver 1

Project ID: 3035 WHITE PLAINS ROAD, BX
Client ID: TRIP BLANK

Phoenix I.D.: CS32431

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99			%	1	12/21/24	HM	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B* = Present in blank, a bias is possible.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

January 03, 2025

Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

January 03, 2025

QA/QC Data

SDG I.D.: GCS32429

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 764591 (ug/L), QC Sample No: CS31324 (CS32429 (20X))											
Volatiles - Ground Water											
1,2,4-Trimethylbenzene	ND	1.0	104	104	0.0				70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	101	101	0.0				70 - 130	30	
% Bromofluorobenzene	95	%	102	102	0.0				70 - 130	30	
% Dibromofluoromethane	100	%	108	105	2.8				70 - 130	30	
% Toluene-d8	101	%	102	101	1.0				70 - 130	30	
Comment:											
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.											
QA/QC Batch 763792 (ug/L), QC Sample No: CS32421 (CS32431)											
Volatiles - Ground Water											
1,1,1,2-Tetrachloroethane	ND	1.0	115	122	5.9	90	101	11.5	70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	111	120	7.8	95	110	14.6	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	111	118	6.1	85	97	13.2	70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	110	118	7.0	93	102	9.2	70 - 130	30	
1,1-Dichloroethane	ND	1.0	106	114	7.3	94	104	10.1	70 - 130	30	
1,1-Dichloroethene	ND	1.0	113	123	8.5	106	116	9.0	70 - 130	30	
1,1-Dichloropropene	ND	1.0	111	119	7.0	101	111	9.4	70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	120	127	5.7	83	101	19.6	70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	113	122	7.7	95	108	12.8	70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	118	126	6.6	83	95	13.5	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	114	123	7.6	NC	NC	NC	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	124	129	4.0	86	109	23.6	70 - 130	30	
1,2-Dibromoethane	ND	1.0	112	123	9.4	93	102	9.2	70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	109	117	7.1	83	96	14.5	70 - 130	30	
1,2-Dichloroethane	ND	1.0	105	115	9.1	87	97	10.9	70 - 130	30	
1,2-Dichloropropane	ND	1.0	105	114	8.2	89	98	9.6	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	114	124	8.4	NC	NC	NC	70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	110	117	6.2	84	97	14.4	70 - 130	30	
1,3-Dichloropropane	ND	1.0	111	118	6.1	89	100	11.6	70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	109	119	8.8	84	96	13.3	70 - 130	30	
2,2-Dichloropropane	ND	1.0	111	126	12.7	95	103	8.1	70 - 130	30	
2-Chlorotoluene	ND	1.0	110	120	8.7	85	100	16.2	70 - 130	30	
2-Hexanone	ND	5.0	107	112	4.6	93	103	10.2	70 - 130	30	
2-Isopropyltoluene	ND	1.0	114	125	9.2	89	104	15.5	70 - 130	30	
4-Chlorotoluene	ND	1.0	110	122	10.3	88	101	13.8	70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	105	111	5.6	88	99	11.8	70 - 130	30	
Acetone	ND	5.0	101	107	5.8	116	134	14.4	70 - 130	30	m
Acrolein	ND	5.0	102	110	7.5	98	99	1.0	70 - 130	30	
Acrylonitrile	ND	5.0	103	103	0.0	132	130	1.5	70 - 130	30	m
Benzene	ND	0.70	108	118	8.8	92	104	12.2	70 - 130	30	
Bromobenzene	ND	1.0	107	119	10.6	84	94	11.2	70 - 130	30	

QA/QC Data

SDG I.D.: GCS32429

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bromochloromethane	ND	1.0	100	110	9.5	85	91	6.8	70 - 130	30	
Bromodichloromethane	ND	0.50	112	122	8.5	91	102	11.4	70 - 130	30	
Bromoform	ND	1.0	116	125	7.5	90	102	12.5	70 - 130	30	
Bromomethane	0.51 J	1.0	115	126	9.1	76	97	24.3	70 - 130	30	
Carbon Disulfide	ND	1.0	116	126	8.3	106	115	8.1	70 - 130	30	
Carbon tetrachloride	ND	1.0	114	125	9.2	100	114	13.1	70 - 130	30	
Chlorobenzene	ND	1.0	111	118	6.1	88	97	9.7	70 - 130	30	
Chloroethane	ND	1.0	112	121	7.7	106	114	7.3	70 - 130	30	
Chloroform	ND	1.0	100	107	6.8	88	92	4.4	70 - 130	30	
Chloromethane	ND	1.0	125	136	8.4	116	126	8.3	70 - 130	30	l
cis-1,2-Dichloroethene	ND	1.0	104	114	9.2	92	98	6.3	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	116	124	6.7	89	102	13.6	70 - 130	30	
Dibromochloromethane	ND	0.50	119	124	4.1	92	106	14.1	70 - 130	30	
Dibromomethane	ND	1.0	108	115	6.3	90	98	8.5	70 - 130	30	
Dichlorodifluoromethane	ND	1.0	129	142	9.6	121	130	7.2	70 - 130	30	l
Ethylbenzene	ND	1.0	111	121	8.6	NC	NC	NC	70 - 130	30	
Hexachlorobutadiene	ND	0.40	111	120	7.8	77	86	11.0	70 - 130	30	
Isopropylbenzene	ND	1.0	113	124	9.3	104	114	9.2	70 - 130	30	
m&p-Xylene	ND	1.0	114	124	8.4	NC	NC	NC	70 - 130	30	
Methyl ethyl ketone	ND	5.0	102	113	10.2	95	108	12.8	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	109	115	5.4	87	99	12.9	70 - 130	30	
Methylene chloride	ND	1.0	104	108	3.8	87	94	7.7	70 - 130	30	
Naphthalene	ND	1.0	128	138	7.5	NC	NC	NC	70 - 130	30	l
n-Butylbenzene	ND	1.0	114	125	9.2	105	114	8.2	70 - 130	30	
n-Propylbenzene	ND	1.0	114	123	7.6	134	132	1.5	70 - 130	30	m
o-Xylene	ND	1.0	113	121	6.8	NC	NC	NC	70 - 130	30	
p-Isopropyltoluene	ND	1.0	114	125	9.2	102	115	12.0	70 - 130	30	
sec-Butylbenzene	ND	1.0	114	124	8.4	91	106	15.2	70 - 130	30	
Styrene	ND	1.0	112	125	11.0	98	109	10.6	70 - 130	30	
tert-Butylbenzene	ND	1.0	114	123	7.6	92	106	14.1	70 - 130	30	
Tetrachloroethene	ND	1.0	113	120	6.0	95	107	11.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	2.5	103	113	9.3	71	87	20.3	70 - 130	30	
Toluene	ND	1.0	110	119	7.9	NC	NC	NC	70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	106	107	0.9	93	100	7.3	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	116	125	7.5	90	102	12.5	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	129	137	6.0	81	104	24.9	70 - 130	30	l
Trichloroethene	ND	1.0	107	118	9.8	97	104	7.0	70 - 130	30	
Trichlorofluoromethane	ND	1.0	115	123	6.7	113	121	6.8	70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	113	122	7.7	106	110	3.7	70 - 130	30	
Vinyl chloride	ND	1.0	115	125	8.3	110	116	5.3	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	101	100	1.0	99	100	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	102	100	2.0	105	105	0.0	70 - 130	30	
% Dibromofluoromethane	102	%	101	102	1.0	94	99	5.2	70 - 130	30	
% Toluene-d8	99	%	101	100	1.0	98	99	1.0	70 - 130	30	

QA/QC Batch 764603 (ug/L), QC Sample No: CS32429 (CS32429 (5X) , CS32430 (5X, 20X))

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	110	107	2.8	101	115	13.0	70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	102	98	4.0	104	115	10.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	102	99	3.0	94	100	6.2	70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	105	102	2.9	100	105	4.9	70 - 130	30	
1,1-Dichloroethane	ND	1.0	99	98	1.0	96	108	11.8	70 - 130	30	
1,1-Dichloroethene	ND	1.0	94	92	2.2	99	109	9.6	70 - 130	30	

QA/QC Data

SDG I.D.: GCS32429

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1-Dichloropropene	ND	1.0	100	93	7.3	101	110	8.5	70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	114	109	4.5	106	116	9.0	70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	98	100	2.0	96	103	7.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	112	110	1.8	107	115	7.2	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	107	103	3.8	NC	NC	NC	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	117	114	2.6	111	117	5.3	70 - 130	30	
1,2-Dibromoethane	ND	1.0	107	104	2.8	95	108	12.8	70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	103	101	2.0	96	104	8.0	70 - 130	30	
1,2-Dichloroethane	ND	1.0	105	98	6.9	95	103	8.1	70 - 130	30	
1,2-Dichloropropane	ND	1.0	99	93	6.3	92	100	8.3	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	107	103	3.8	100	108	7.7	70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	103	101	2.0	97	106	8.9	70 - 130	30	
1,3-Dichloropropane	ND	1.0	103	101	2.0	94	104	10.1	70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	103	100	3.0	97	104	7.0	70 - 130	30	
2,2-Dichloropropane	ND	1.0	105	98	6.9	91	95	4.3	70 - 130	30	
2-Chlorotoluene	ND	1.0	106	100	5.8	98	107	8.8	70 - 130	30	
2-Hexanone	ND	5.0	103	101	2.0	95	103	8.1	70 - 130	30	
2-Isopropyltoluene	ND	1.0	106	102	3.8	102	113	10.2	70 - 130	30	
4-Chlorotoluene	ND	1.0	105	102	2.9	96	105	9.0	70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	102	97	5.0	101	105	3.9	70 - 130	30	
Acetone	ND	5.0	101	99	2.0	117	123	5.0	70 - 130	30	
Acrolein	ND	5.0	94	92	2.2	83	90	8.1	70 - 130	30	
Acrylonitrile	ND	5.0	95	94	1.1	91	101	10.4	70 - 130	30	
Benzene	ND	0.70	103	97	6.0	98	105	6.9	70 - 130	30	
Bromobenzene	ND	1.0	104	101	2.9	95	102	7.1	70 - 130	30	
Bromochloromethane	ND	1.0	99	94	5.2	106	105	0.9	70 - 130	30	
Bromodichloromethane	ND	0.50	105	100	4.9	99	107	7.8	70 - 130	30	
Bromoform	ND	1.0	114	111	2.7	101	111	9.4	70 - 130	30	
Bromomethane	0.58 J	1.0	99	96	3.1	63	87	32.0	70 - 130	30	m,r
Carbon Disulfide	ND	1.0	93	91	2.2	95	106	10.9	70 - 130	30	
Carbon tetrachloride	ND	1.0	102	94	8.2	106	120	12.4	70 - 130	30	
Chlorobenzene	ND	1.0	105	101	3.9	96	104	8.0	70 - 130	30	
Chloroethane	ND	1.0	100	92	8.3	99	116	15.8	70 - 130	30	
Chloroform	ND	1.0	106	95	10.9	113	116	2.6	70 - 130	30	
Chloromethane	ND	1.0	103	99	4.0	108	118	8.8	70 - 130	30	
cis-1,2-Dichloroethene	ND	1.0	100	99	1.0	95	108	12.8	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	107	100	6.8	96	105	9.0	70 - 130	30	
Dibromochloromethane	ND	0.50	113	107	5.5	101	112	10.3	70 - 130	30	
Dibromomethane	ND	1.0	103	96	7.0	94	102	8.2	70 - 130	30	
Dichlorodifluoromethane	ND	1.0	79	74	6.5	95	101	6.1	70 - 130	30	
Ethylbenzene	ND	1.0	106	101	4.8	NC	NC	NC	70 - 130	30	
Hexachlorobutadiene	ND	0.40	100	98	2.0	94	100	6.2	70 - 130	30	
Isopropylbenzene	ND	1.0	105	102	2.9	103	112	8.4	70 - 130	30	
m&p-Xylene	ND	1.0	108	104	3.8	NC	NC	NC	70 - 130	30	
Methyl ethyl ketone	ND	5.0	96	100	4.1	96	107	10.8	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	103	99	4.0	91	104	13.3	70 - 130	30	
Methylene chloride	ND	1.0	97	95	2.1	88	99	11.8	70 - 130	30	
Naphthalene	ND	1.0	123	119	3.3	NC	NC	NC	70 - 130	30	
n-Butylbenzene	ND	1.0	103	100	3.0	103	113	9.3	70 - 130	30	
n-Propylbenzene	ND	1.0	104	102	1.9	101	106	4.8	70 - 130	30	
o-Xylene	ND	1.0	109	104	4.7	NC	NC	NC	70 - 130	30	
p-Isopropyltoluene	ND	1.0	105	103	1.9	109	117	7.1	70 - 130	30	
sec-Butylbenzene	ND	1.0	103	99	4.0	105	113	7.3	70 - 130	30	

QA/QC Data

SDG I.D.: GCS32429

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Styrene	ND	1.0	111	107	3.7	104	112	7.4	70 - 130	30
tert-Butylbenzene	ND	1.0	104	101	2.9	103	112	8.4	70 - 130	30
Tetrachloroethene	ND	1.0	103	98	5.0	102	112	9.3	70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	103	98	5.0	94	101	7.2	70 - 130	30
Toluene	ND	1.0	106	98	7.8	NC	NC	NC	70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	98	94	4.2	90	105	15.4	70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	107	103	3.8	97	104	7.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	103	101	2.0	84	92	9.1	70 - 130	30
Trichloroethene	ND	1.0	103	97	6.0	98	106	7.8	70 - 130	30
Trichlorofluoromethane	ND	1.0	91	88	3.4	101	112	10.3	70 - 130	30
Trichlorotrifluoroethane	ND	1.0	94	88	6.6	100	114	13.1	70 - 130	30
Vinyl chloride	ND	1.0	90	86	4.5	97	107	9.8	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	100	0.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	95	%	102	101	1.0	100	99	1.0	70 - 130	30
% Dibromofluoromethane	101	%	103	101	2.0	106	104	1.9	70 - 130	30
% Toluene-d8	98	%	100	98	2.0	100	98	2.0	70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference
(ISO) - Isotope Dilution

Phyllis Shiller, Laboratory Director
January 03, 2025

Friday, January 03, 2025

Criteria: NY: 375GWP, DEP EFF

State: NY

Sample Criteria Exceedances Report

GCS32429 - AMC-ENG

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS32429	$8260DP25R	Toluene	NY / DEP / Effluent to Sewer Limits	210	5.0	28	28	ug/L
CS32429	$8260DP25R	o-Xylene	NY / DEP / Effluent to Sewer Limits	250	5.0	74	74	ug/L
CS32429	$8260DP25R	Naphthalene	NY / DEP / Effluent to Sewer Limits	220	5.0	19	19	ug/L
CS32429	$8260DP25R	m&p-Xylene	NY / DEP / Effluent to Sewer Limits	680	5.0	74	74	ug/L
CS32429	$8260DP25R	Ethylbenzene	NY / DEP / Effluent to Sewer Limits	400	5.0	142	142	ug/L
CS32430	$8260DP25R	Toluene	NY / DEP / Effluent to Sewer Limits	220	5.0	28	28	ug/L
CS32430	$8260DP25R	o-Xylene	NY / DEP / Effluent to Sewer Limits	320	5.0	74	74	ug/L
CS32430	$8260DP25R	Naphthalene	NY / DEP / Effluent to Sewer Limits	350	5.0	19	19	ug/L
CS32430	$8260DP25R	m&p-Xylene	NY / DEP / Effluent to Sewer Limits	900	5.0	74	74	ug/L
CS32430	$8260DP25R	Ethylbenzene	NY / DEP / Effluent to Sewer Limits	530	20	142	142	ug/L

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

January 03, 2025

SDG I.D.: GCS32429

The samples in this delivery group were received at 1.1°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

PHOENIX
Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823

Client Services (860) 645-8726

Temp 1.1° Pg 1 of 1

Data Delivery:
☐ Fax #: WO HP
☑ Emai ARIEL@AMC-ENGINEERING.COM

Customer:	AMC ENGINEERING PLLC		Project:	3035 White Plains Road, Bx	Project P.O:
Address:	18-36 42nd Street		Report to:	ARIEL CZEMERINSKI	Phone #: 718 545-0474
	Astoria NY 11105		Invoice to:	AMC ENGINEERING PLLC	Fax #: 516 706-3214

Client Sample - Information - Identification

Sampler's Signature (AE) Date: 12/18/2024

Matrix Code:
DW=drinking water **WW**=wastewater **S**=soil/solid **O**=oil
GW=groundwater **SL**=sludge **A**=air **X**=other

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	VOCs (8260)	+	+	+	+	+	+	+	+	+	+	Soil VOA [ ] Methanol [X] S. Bisulfate [ ] H2O	GL Soil container (8) oz	GL Soil container (2) oz	40 ml VOA Vial [ ] As is [x] HCl	GL Amber 1000ml [x] As is [x] H2SO4	PL As is [ ] 250ml [x] 500ml [x] 1000ml	PL HNO3 250ml	PL H2SO4 250ml	
32429	IRMW-14	GW	12/18/2024	12:30	X	X														9					
32430	Duplicate	GW	12/18/2024	12:35		X														3					
32431	Trip blank	GW	N/A	N/A		X														2					

Relinquished by:	Accepted by:	Date:	Time:
(AE)		12.19.2024	0951
		12/19/24	18:30

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
■ Standard

* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ GW Criteria

NY
■ NY 375 GWP
☐ TAGM 4046 SOIL
☐ NY375 Unrestricted Soil
☐ NY375 Residential Soil
☐ NY375 Restricted

Data Format
☐ Phoenix Std Report
■ Excel
■ PDF
☐ GIS/Key
■ EQuIS
☐ NJ Hazsite EDD
■ NY EZ EDD (ASP)
☐ Other

Data Package
☐ NJ Reduced Deliv. *
☐ NY Enhanced (ASP B) *
☐ Other

State where samples were collected: NY

**Please do not analyze overlapping parameters, twice.

AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105
O: 718.545.0474

APPENDIX C

Data Usability Summary Report (DUSR)

ALPHA
GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

February 3, 2025

Ms. Aaliyah Kaushal
Environmental Engineer
AMC Engineering, PLLC
18-36 42nd Street
Astoria, New York 11105

Re: Data Validation Services
3035 White Plains Road
December 2024 Ground Water Sampling Event

Dear Ms. Kaushal:

The data usability summary report (DUSR) and data validation review are attached to this letter for the 3035 White Plains Road December 2024 ground water sampling event. The data were acceptable for Phoenix Environmental Laboratories, Inc, SDG number GCS32429 with some minor issues that are identified and discussed in the validation summaries. There were no data qualified as either rejected or estimated in data pack.

A list of common data validation acronyms is attached to this letter to assist you interpreting the validation summaries. If you have any questions concerning the work to be performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist AMC Engineering, PLLC.

Sincerely,
Alpha Geoscience

Donald Anné
Senior Chemist

DCA/bms
Via email

z:\projects\2025\25600 - 25620\25606-3035 white plains road\temp-review\3035 white plains rd-251.ltr.docx

Alpha Geoscience: Acronyms and Definitions

Data Validation Acronyms

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene
CCB	Continuing calibration blank
CCC	Calibration check compound
CCV	Continuing calibration verification
CN	Cyanide
CRDL	Contract required detection limit
CRQL	Contract required quantitation limit
CVAA	Atomic adsorption, cold vapor technique
DCAA	2,4-Dichlophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine
ECD	Electron capture detector
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
GPC	Gel permeation chromatography
ICB	Initial calibration blank
ICP	Inductively coupled plasma-atomic emission spectrometer
ICV	Initial calibration verification
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate
MSA	Method of standard additions
MS/MSD	Matrix spike/matrix spike duplicate
PID	Photo ionization detector
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
QA	Quality assurance
QC	Quality control
RF	Response factor
RPD	Relative percent difference
RRF	Relative response factor
RRF(number)	Relative response factor at concentration of the number following
RT	Retention time
RRT	Relative retention time
SDG	Sample delivery group
SPCC	System performance check compound
TCX	Tetrachloro-m-xylene
%D	Percent difference
%R	Percent recovery
%RSD	Percent relative standard deviation

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

U	=	Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
R	=	Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
N	=	Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
J	=	Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
J-	=	Analyte is present. Reported value may be biased low and associated with a higher level of uncertainty than is normally expected with the analytical method.
J+	=	Analyte is present. Reported value may be biased high andassociated with a higher level of uncertainty than is normally expected with the analytical method.
UJ	=	Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.

ALPHA GEOSCIENCE

Geology

Hydrology

Remediation

Water Supply

Data Usability Summary Report for
Phoenix Environmental Laboratories, Inc.
SDG: GCS32429

1 Ground Sample, 1 Field Duplicate,
and 1 Trip Blank
Collected December 18, 2024

Prepared by: Donald Anné
February 3, 2025

The data packages contain the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data pack contained the results for 1 ground water sample, 1 field duplicate, and 1 trip blank analyzed for volatiles.

The overall performance of the analysis is acceptable. Phoenix Environmental Laboratories, Inc. did fulfill the requirements of the analytical method.

The data are acceptable with some minor issues that are identified in the accompanying data validation reviews. The following data were flagged:

- The "not detected" volatile result for bromomethane was qualified as "estimated" (UJ) for sample IRMW-14 because 1 of 2 percent recoveries for bromomethane was below QC limits, but not below 30% in the aqueous MS/MSD sample.

- The positive volatile results for 7 compounds were qualified as estimated (J) for samples IRMW-14 and DUPLICATE because the relative percent differences for these 7 compounds were above the allowable maximum for the aqueous field duplicate pair IRMW-14/DUPLICATE.

All data are considered usable, with estimated (J or UJ) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.

679 Plank Road ● Clifton Park, New York 12065 ● (518) 348-6995 ● Fax (518) 348-6966
www.alphageoscience.com

Qualified Data Section

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 26, 2025

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		12/18/24	12:30
Location Code:	AMC-ENG	Received by:	SR1	12/19/24	18:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS32429
Phoenix ID: CS32429

Project ID: 3035 WHITE PLAINS ROAD, BX
Client ID: IRMW-14

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Client MS/MSD	Completed						12/24/24		
Volatiles									
1,1,1,2-Tetrachloroethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
1,1,1-Trichloroethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
1,1,2-Trichloroethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
1,1-Dichloroethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D
1,1-Dichloroethene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
1,1-Dichloropropene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
1,2,3-Trichloropropane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
1,2,4-Trimethylbenzene	870		20	5.0	ug/L	20	12/24/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND		5.0	2.5	ug/L	5	12/24/24	MH	SW8260D
1,2-Dibromoethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
1,2-Dichlorobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
1,2-Dichloroethane	ND		3.0	2.5	ug/L	5	12/24/24	MH	SW8260D
1,2-Dichloropropane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
1,3,5-Trimethylbenzene	75	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
1,3-Dichlorobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
1,3-Dichloropropane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
1,4-Dichlorobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
2,2-Dichloropropane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
2-Chlorotoluene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
2-Hexanone	ND		13	13	ug/L	5	12/24/24	MH	SW8260D
2-Isopropyltoluene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D
4-Chlorotoluene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND		13	13	ug/L	5	12/24/24	MH	SW8260D	
Acetone	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	
Acrolein	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	
Acrylonitrile	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	
Benzene	46		3.5	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromochloromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromodichloromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromoform	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromomethane	ND	UJ	25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Carbon Disulfide	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Carbon tetrachloride	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chlorobenzene	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chloroethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chloroform	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chloromethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
cis-1,2-Dichloroethene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
cis-1,3-Dichloropropene	ND		2.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Dibromochloromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Dibromomethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Dichlorodifluoromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Ethylbenzene	400	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Hexachlorobutadiene	ND		2.5	1.0	ug/L	5	12/24/24	MH	SW8260D	
Isopropylbenzene	23	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
m&p-Xylene	680	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Methyl ethyl ketone	ND		13	13	ug/L	5	12/24/24	MH	SW8260D	
Methyl t-butyl ether (MTBE)	16		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Methylene chloride	ND		15	5.0	ug/L	5	12/24/24	MH	SW8260D	
Naphthalene	220	J	5.0	5.0	ug/L	5	12/24/24	MH	SW8260D	
n-Butylbenzene	3.7	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
n-Propylbenzene	51	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
o-Xylene	250	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
p-Isopropyltoluene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
sec-Butylbenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Styrene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
tert-Butylbenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Tetrachloroethene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Tetrahydrofuran (THF)	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	1
Toluene	210		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
trans-1,2-Dichloroethene	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
trans-1,3-Dichloropropene	ND		2.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND		13	13	ug/L	5	12/24/24	MH	SW8260D	
Trichloroethene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Trichlorofluoromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Trichlorotrifluoroethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Vinyl chloride	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4 (5x)	100				%	5	12/24/24	MH	70 - 130 %	
% Bromofluorobenzene (5x)	98				%	5	12/24/24	MH	70 - 130 %	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane (5x)	101			%	5	12/24/24	MH	70 - 130 %
% Toluene-d8 (5x)	99			%	5	12/24/24	MH	70 - 130 %
% 1,2-dichlorobenzene-d4 (20x)	101			%	20	12/24/24	MH	70 - 130 %
% Bromofluorobenzene (20x)	96			%	20	12/24/24	MH	70 - 130 %
% Dibromofluoromethane (20x)	104			%	20	12/24/24	MH	70 - 130 %
% Toluene-d8 (20x)	98			%	20	12/24/24	MH	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
January 26, 2025
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 26, 2025

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		12/18/24	12:35
Location Code:	AMC-ENG	Received by:	SR1	12/19/24	18:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS32429
Phoenix ID: CS32430

Project ID: 3035 WHITE PLAINS ROAD, BX
Client ID: DUPLICATE

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1,1-Trichloroethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1,2-Trichloroethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1-Dichloroethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1-Dichloroethene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,1-Dichloropropene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2,3-Trichlorobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2,3-Trichloropropane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2,4-Trichlorobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2,4-Trimethylbenzene	870		20	5.0	ug/L	20	12/24/24	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND		5.0	2.5	ug/L	5	12/24/24	MH	SW8260D	
1,2-Dibromoethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2-Dichlorobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,2-Dichloroethane	ND		3.0	2.5	ug/L	5	12/24/24	MH	SW8260D	
1,2-Dichloropropane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,3,5-Trimethylbenzene	130	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,3-Dichlorobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,3-Dichloropropane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
1,4-Dichlorobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
2,2-Dichloropropane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
2-Chlorotoluene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
2-Hexanone	ND		13	13	ug/L	5	12/24/24	MH	SW8260D	
2-Isopropyltoluene	1.3	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	1
4-Chlorotoluene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
4-Methyl-2-pentanone	ND		13	13	ug/L	5	12/24/24	MH	SW8260D	

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	
Acrolein	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	
Acrylonitrile	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	
Benzene	42		3.5	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromobenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromochloromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromodichloromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromoform	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Bromomethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Carbon Disulfide	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Carbon tetrachloride	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chlorobenzene	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chloroethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chloroform	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
Chloromethane	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
cis-1,2-Dichloroethene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
cis-1,3-Dichloropropene	ND		2.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Dibromochloromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Dibromomethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Dichlorodifluoromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Ethylbenzene	530	J	20	5.0	ug/L	20	12/24/24	MH	SW8260D	
Hexachlorobutadiene	ND		2.5	1.0	ug/L	5	12/24/24	MH	SW8260D	
Isopropylbenzene	34	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
m&p-Xylene	900	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Methyl ethyl ketone	ND		13	13	ug/L	5	12/24/24	MH	SW8260D	
Methyl t-butyl ether (MTBE)	16		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Methylene chloride	ND		15	5.0	ug/L	5	12/24/24	MH	SW8260D	
Naphthalene	350	J	5.0	5.0	ug/L	5	12/24/24	MH	SW8260D	
n-Butylbenzene	6.5		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
n-Propylbenzene	81	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
o-Xylene	320	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
p-Isopropyltoluene	2.8	J	5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
sec-Butylbenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Styrene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
tert-Butylbenzene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Tetrachloroethene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Tetrahydrofuran (THF)	ND		25	13	ug/L	5	12/24/24	MH	SW8260D	1
Toluene	220		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
trans-1,2-Dichloroethene	ND		25	1.3	ug/L	5	12/24/24	MH	SW8260D	
trans-1,3-Dichloropropene	ND		2.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND		13	13	ug/L	5	12/24/24	MH	SW8260D	
Trichloroethene	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Trichlorofluoromethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Trichlorotrifluoroethane	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
Vinyl chloride	ND		5.0	1.3	ug/L	5	12/24/24	MH	SW8260D	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4 (5x)	99				%	5	12/24/24	MH	70 - 130 %	
% Bromofluorobenzene (5x)	99				%	5	12/24/24	MH	70 - 130 %	
% Dibromofluoromethane (5x)	101				%	5	12/24/24	MH	70 - 130 %	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8 (5x)	98			%	5	12/24/24	MH	70 - 130 %
% 1,2-dichlorobenzene-d4 (20x)	100			%	20	12/24/24	MH	70 - 130 %
% Bromofluorobenzene (20x)	97			%	20	12/24/24	MH	70 - 130 %
% Dibromofluoromethane (20x)	102			%	20	12/24/24	MH	70 - 130 %
% Toluene-d8 (20x)	99			%	20	12/24/24	MH	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
January 26, 2025
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

NY # 11301

Analysis Report

January 26, 2025

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		12/18/24	
Location Code:	AMC-ENG	Received by:	SR1	12/19/24	18:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS32429
Phoenix ID: CS32431

Project ID: 3035 WHITE PLAINS ROAD, BX
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,2,3-Trichloropropane	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	12/21/24	PS	SW8260D	
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	12/21/24	PS	SW8260D	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
2-Hexanone	ND	2.5	2.5	ug/L	1	12/21/24	PS	SW8260D	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/21/24	PS	SW8260D	

Project ID: 3035 WHITE PLAINS ROAD, BX
Client ID: TRIP BLANK

Phoenix I.D.: CS32431

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	5.0	2.5	ug/L	1	12/21/24	PS	SW8260D	
Acrolein	ND	5.0	2.5	ug/L	1	12/21/24	PS	SW8260D	
Acrylonitrile	ND	5.0	2.5	ug/L	1	12/21/24	PS	SW8260D	
Benzene	ND	0.70	0.25	ug/L	1	12/21/24	PS	SW8260D	
Bromobenzene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Bromochloromethane	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Bromoform	ND	5.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Bromomethane	ND	5.0	0.50	ug/L	1	12/21/24	PS	SW8260D	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Chlorobenzene	ND	5.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Chloroethane	ND	5.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Chloroform	ND	5.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Chloromethane	ND	5.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/21/24	PS	SW8260D	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Dibromomethane	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Ethylbenzene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	12/21/24	PS	SW8260D	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
m&p-Xylene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	12/21/24	PS	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Methylene chloride	ND	3.0	1.0	ug/L	1	12/21/24	PS	SW8260D	
Naphthalene	ND	1.0	1.0	ug/L	1	12/21/24	PS	SW8260D	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
o-Xylene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Styrene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	12/21/24	PS	SW8260D	1
Toluene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/21/24	PS	SW8260D	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	12/21/24	PS	SW8260D	
Trichloroethene	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
Vinyl chloride	ND	1.0	0.25	ug/L	1	12/21/24	PS	SW8260D	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	98			%	1	12/21/24	PS	70 - 130 %	
% Bromofluorobenzene	96			%	1	12/21/24	PS	70 - 130 %	
% Dibromofluoromethane	100			%	1	12/21/24	PS	70 - 130 %	

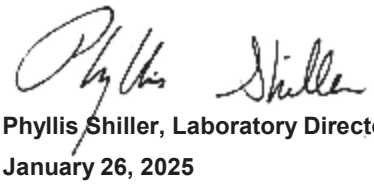
Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99			%	1	12/21/24	PS	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
January 26, 2025
Reviewed and Released by: Ethan Lee, Project Manager

VOC Data Section

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of Method 8260C Volatiles Data
for Phoenix Environmental Laboratories, Inc.
SDG: GCS32429

1 Ground Sample, 1 Field Duplicate,
and 1 Trip Blank
Collected December 18, 2024

Prepared by: Donald Anné
February 3, 2025

Holding Times: The samples were analyzed within USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The average RRFs for applicable compounds were above the method minimums, as required.

The average RRFs for target compounds were above the allowable minimum (0.010), as required.

The %RSDs for trans-1,4-dichloro-2-butene and naphthalene were above the allowable maximum (30%) for CHEM23 on 12-20-24. The %RSD for naphthalene were above the allowable maximum (30%) for CHEM23 on 12-23-24. Positive results for these compounds should be considered estimated (J) in associated samples.

Continuing Calibration: The average RRFs for applicable compounds were above the method minimums and the %Ds were below the method maximum, as required.

The RRFs for target compounds were above the allowable minimum (0.010), as required.

The %Ds for 2,2-dichloropropane, trans-1,4-dichloro-2-butene and naphthalene were above the allowable maximum (20%) on 12-21-24 (1221_02.D). The %D for naphthalene was above the allowable maximum (20%) on 12-24-24 (1224_34.D). Positive results for these compounds should be considered estimated (J) in associated samples.

Blanks: The analyses of the method and trip blanks reported target compounds as not detected.

Internal Standard Area Summary: The applicable internal standard areas and retention times were within control limits.

679 Plank Road ● Clifton Park, New York 12065 ● (518) 348-6995 ● Fax (518) 348-6966
www.alphageoscience.com

Surrogate Recovery: The surrogate recoveries were within control limits for the ground water samples and trip blank.

Matrix Spike/Matrix Spike Duplicate: The relative percent difference for bromomethane was above the allowable maximum and 1 of 2 percent recoveries for bromomethane was below QC limits, but not below 30% for aqueous MS/MSD sample IRMW-14. The "not detected" result for bromomethane should be considered estimated (UJ) in sample IRMW-14.

Laboratory Control Sample: The relative percent differences (RPDs) for target compounds were below the allowable maximum and the percent recoveries (%Rs) were within QC limits for aqueous sample CS32429 LCS.

The RPDs for target compounds were below the allowable maximum, but 1 of 2 %Rs for dichlorodifluoromethane, chloromethane, trans-1,4-dichloro-2-butene, and naphthalene were above QC limits for aqueous sample CS32421 LCS. Positive results for bromomethane should be considered estimated, biased high (J+) in associated aqueous samples.

Field Duplicates: The relative percent differences for 7 compounds were above the allowable maximum (20%) for aqueous field duplicate pair IRMW-14/DUPLICATE (attached table). Positive results for these 7 compounds should be considered estimated (J) in samples IRMW-14 and DUPLICATE.

Compound ID: Checked compound and surrogate results were within quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

3C

WATER VOLATILE LCS SPIKE / LCS SPIKE DUPLICATE RECOVERY

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No: SAS No: SDG No GCS32429

LCS Spike - Client Id: CS32421 LCS Level:(low/med) Med

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	LCS CONCENTRATION ug/L	LCS % REC #	QC. LIMITS REC.	
Dichlorodifluoromethane	20	0.0	25.86	129	70	130
Chloromethane	20	0.0	25.07	125	70	130
Vinyl Chloride	20	0.0	23.08	115	70	130
Bromomethane	20	0.0	23.02	115	70	130
Chloroethane	20	0.0	22.39	112	70	130
Trichlorofluoromethane	20	0.0	23.06	115	70	130
1,1-Dichloroethene	20	0.0	22.57	113	70	130
Trichlorotrifluoroethane	20	0.0	22.69	113	70	130
Carbon Disulfide	20	0.0	23.26	116	70	130
Acrolein	100	0.0	102.5	102	70	130
Methylene Chloride	20	0.0	20.75	104	70	130
Acetone	20	0.0	20.10	101	70	130
Trans-1,2-Dichloroethene	20	0.0	21.24	106	70	130
Methyl t-Butyl Ether (MTBE)	20	0.0	21.76	109	70	130
1,1-Dichloroethane	20	0.0	21.22	106	70	130
Acrylonitrile	20	0.0	20.50	103	70	130
Cis-1,2-Dichloroethene	20	0.0	20.80	104	70	130
2,2-Dichloropropane	20	0.0	22.14	111	70	130
Bromochloromethane	20	0.0	20.06	100	70	130

COMPOUND	SPIKE ADDED ug/L	LCSD CONCENTRATION ug/L	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	
Dichlorodifluoromethane	20	28.33	142 *	9.6	30	70	130
Chloromethane	20	27.17	136 *	8.4	30	70	130
Vinyl Chloride	20	24.99	125	8.3	30	70	130
Bromomethane	20	25.22	126	9.1	30	70	130
Chloroethane	20	24.14	121	7.7	30	70	130
Trichlorofluoromethane	20	24.58	123	6.7	30	70	130
1,1-Dichloroethene	20	24.69	123	8.5	30	70	130
Trichlorotrifluoroethane	20	24.48	122	7.7	30	70	130
Carbon Disulfide	20	25.10	126	8.3	30	70	130
Acrolein	100	109.9	110	7.5	30	70	130
Methylene Chloride	20	21.63	108	3.8	30	70	130
Acetone	20	21.49	107	5.8	30	70	130
Trans-1,2-Dichloroethene	20	21.42	107	0.9	30	70	130
Methyl t-Butyl Ether (MTBE)	20	23.05	115	5.4	30	70	130
1,1-Dichloroethane	20	22.83	114	7.3	30	70	130
Acrylonitrile	20	20.68	103	0.0	30	70	130
Cis-1,2-Dichloroethene	20	22.78	114	9.2	30	70	130
2,2-Dichloropropane	20	25.21	126	12.7	30	70	130
Bromochloromethane	20	21.95	110	9.5	30	70	130

FORM III VOA

3C

WATER VOLATILE LCS SPIKE / LCS SPIKE DUPLICATE RECOVERY

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No: SAS No: SDG No GCS32429

LCS Spike - Client Id: CS32421 LCS Level:(low/med) Med

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	LCS CONCENTRATION ug/L	LCS % REC #	QC. LIMITS REC.	
Chloroform	20	0.0	19.94	100	70	130
Carbon Tetrachloride	20	0.0	22.86	114	70	130
Tetrahydrofuran (THF)	50	0.0	51.63	103	70	130
1,1,1-Trichloroethane	20	0.0	22.19	111	70	130
Methyl Ethyl Ketone	20	0.0	20.49	102	70	130
1,1-Dichloropropene	20	0.0	22.22	111	70	130
Benzene	20	0.0	21.66	108	70	130
1,2-Dichloroethane	20	0.0	21.09	105	70	130
Trichloroethene	20	0.0	21.37	107	70	130
Dibromomethane	20	0.0	21.63	108	70	130
1,2-dichloropropane	20	0.0	21.04	105	70	130
Bromodichloromethane	20	0.0	22.49	112	70	130
cis-1,3-Dichloropropene	20	0.0	23.29	116	70	130
Toluene	20	0.0	22.06	110	70	130
4-Methyl-2-Pentanone	20	0.0	21.01	105	70	130
Tetrachloroethene	20	0.0	22.58	113	70	130
trans-1,3-Dichloropropene	20	0.0	23.11	116	70	130
1,1,2-Trichloroethane	20	0.0	21.91	110	70	130
Dibromochloromethane	20	0.0	23.81	119	70	130

COMPOUND	SPIKE ADDED ug/L	LCSD CONCENTRATION ug/L	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	
Chloroform	20	21.42	107	6.8	30	70	130
Carbon Tetrachloride	20	25.04	125	9.2	30	70	130
Tetrahydrofuran (THF)	50	56.26	113	9.3	30	70	130
1,1,1-Trichloroethane	20	24.05	120	7.8	30	70	130
Methyl Ethyl Ketone	20	22.52	113	10.2	30	70	130
1,1-Dichloropropene	20	23.79	119	7.0	30	70	130
Benzene	20	23.57	118	8.8	30	70	130
1,2-Dichloroethane	20	23.05	115	9.1	30	70	130
Trichloroethene	20	23.65	118	9.8	30	70	130
Dibromomethane	20	23.00	115	6.3	30	70	130
1,2-dichloropropane	20	22.84	114	8.2	30	70	130
Bromodichloromethane	20	24.40	122	8.5	30	70	130
cis-1,3-Dichloropropene	20	24.88	124	6.7	30	70	130
Toluene	20	23.74	119	7.9	30	70	130
4-Methyl-2-Pentanone	20	22.10	111	5.6	30	70	130
Tetrachloroethene	20	24.05	120	6.0	30	70	130
trans-1,3-Dichloropropene	20	24.99	125	7.5	30	70	130
1,1,2-Trichloroethane	20	23.52	118	7.0	30	70	130
Dibromochloromethane	20	24.77	124	4.1	30	70	130

FORM III VOA

3C

WATER VOLATILE LCS SPIKE / LCS SPIKE DUPLICATE RECOVERY

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No: SAS No: SDG No GCS32429

LCS Spike - Client Id: CS32421 LCS Level:(low/med) Med

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	LCS CONCENTRATION ug/L	LCS % REC #	QC. LIMITS REC.	
1,3-Dichloropropane	20	0.0	22.12	111	70	130
1,2-Dibromoethane	20	0.0	22.39	112	70	130
2-Hexanone	20	0.0	21.33	107	70	130
Chlorobenzene	20	0.0	22.28	111	70	130
Ethylbenzene	20	0.0	22.17	111	70	130
1,1,1,2-Tetrachloroethane	20	0.0	22.95	115	70	130
m&p-Xylene	40	0.0	45.44	114	70	130
o-Xylene	20	0.0	22.62	113	70	130
Styrene	20	0.0	22.48	112	70	130
Bromoform	20	0.0	23.10	116	70	130
Isopropylbenzene	20	0.0	22.67	113	70	130
Bromobenzene	20	0.0	21.40	107	70	130
n-Propylbenzene	20	0.0	22.85	114	70	130
1,1,2,2-Tetrachloroethane	20	0.0	22.11	111	70	130
2-Chlorotoluene	20	0.0	22.02	110	70	130
1,3,5-Trimethylbenzene	20	0.0	22.76	114	70	130
1,2,3-Trichloropropane	20	0.0	22.59	113	70	130
trans-1,4-Dichloro-2-butene	100	0.0	129.2	129	70	130
4-Chlorotoluene	20	0.0	21.99	110	70	130

COMPOUND	SPIKE ADDED ug/L	LCSD CONCENTRATION ug/L	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	
1,3-Dichloropropane	20	23.63	118	6.1	30	70	130
1,2-Dibromoethane	20	24.63	123	9.4	30	70	130
2-Hexanone	20	22.38	112	4.6	30	70	130
Chlorobenzene	20	23.66	118	6.1	30	70	130
Ethylbenzene	20	24.17	121	8.6	30	70	130
1,1,1,2-Tetrachloroethane	20	24.45	122	5.9	30	70	130
m&p-Xylene	40	49.51	124	8.4	30	70	130
o-Xylene	20	24.24	121	6.8	30	70	130
Styrene	20	24.99	125	11.0	30	70	130
Bromoform	20	25.04	125	7.5	30	70	130
Isopropylbenzene	20	24.83	124	9.3	30	70	130
Bromobenzene	20	23.73	119	10.6	30	70	130
n-Propylbenzene	20	24.60	123	7.6	30	70	130
1,1,2,2-Tetrachloroethane	20	23.67	118	6.1	30	70	130
2-Chlorotoluene	20	24.06	120	8.7	30	70	130
1,3,5-Trimethylbenzene	20	24.70	124	8.4	30	70	130
1,2,3-Trichloropropane	20	24.32	122	7.7	30	70	130
trans-1,4-Dichloro-2-butene	100	137.4	137 *	6.0	30	70	130
4-Chlorotoluene	20	24.31	122	10.3	30	70	130

FORM III VOA

3C

WATER VOLATILE LCS SPIKE / LCS SPIKE DUPLICATE RECOVERY

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No: SAS No: SDG No GCS32429

LCS Spike - Client Id: CS32421 LCS Level:(low/med) Med

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	LCS CONCENTRATION ug/L	LCS % REC #	QC. LIMITS REC.	
tert-Butylbenzene	20	0.0	22.86	114	70	130
1,2,4-Trimethylbenzene	20	0.0	22.85	114	70	130
sec-Butylbenzene	20	0.0	22.87	114	70	130
p-Isopropyltoluene	20	0.0	22.78	114	70	130
1,3-Dichlorobenzene	20	0.0	21.94	110	70	130
1,4-Dichlorobenzene	20	0.0	21.72	109	70	130
2-Isopropyltoluene	20	0.0	22.82	114	70	130
n-Butylbenzene	20	0.0	22.85	114	70	130
1,2-Dichlorobenzene	20	0.0	21.89	109	70	130
1,2-Dibromo-3-Chloropropane	20	0.0	24.86	124	70	130
Hexachlorobutadiene	20	0.0	22.10	111	70	130
1,2,4-Trichlorobenzene	20	0.0	23.65	118	70	130
Naphthalene	20	0.0	25.64	128	70	130
1,2,3-Trichlorobenzene	20	0.0	24.08	120	70	130

COMPOUND	SPIKE ADDED ug/L	LCSD CONCENTRATION ug/L	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	
tert-Butylbenzene	20	24.67	123	7.6	30	70	130
1,2,4-Trimethylbenzene	20	24.65	123	7.6	30	70	130
sec-Butylbenzene	20	24.90	124	8.4	30	70	130
p-Isopropyltoluene	20	25.01	125	9.2	30	70	130
1,3-Dichlorobenzene	20	23.47	117	6.2	30	70	130
1,4-Dichlorobenzene	20	23.71	119	8.8	30	70	130
2-Isopropyltoluene	20	25.01	125	9.2	30	70	130
n-Butylbenzene	20	24.98	125	9.2	30	70	130
1,2-Dichlorobenzene	20	23.42	117	7.1	30	70	130
1,2-Dibromo-3-Chloropropane	20	25.86	129	4.0	30	70	130
Hexachlorobutadiene	20	23.98	120	7.8	30	70	130
1,2,4-Trichlorobenzene	20	25.12	126	6.6	30	70	130
Naphthalene	20	27.56	138 *	7.5	30	70	130
1,2,3-Trichlorobenzene	20	25.37	127	5.7	30	70	130

FORM III VOA

3C

WATER VOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No: SAS No: SDG No GCS32429

Matrix Spike - Client Id: CS32429 / IRMW-14 MS 5X Level:(low/med) Med

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC #	QC. LIMITS REC.	
Dichlorodifluoromethane	100.0	0.0	95.19	95	70	130
Chloromethane	100.0	0.0	107.6	108	70	130
Vinyl Chloride	100.0	0.0	97.03	97	70	130
Bromomethane	100.0	0.0	62.94	63 *	70	130
Chloroethane	100.0	0.0	99.47	99	70	130
Trichlorofluoromethane	100.0	0.0	101.3	101	70	130
1,1-Dichloroethene	100.0	0.0	98.79	99	59	172
Trichlorotrifluoroethane	100.0	0.0	100.3	100	70	130
Carbon Disulfide	100.0	0.0	94.82	95	70	130
Acrolein	500.0	0.0	417.0	83	70	130
Methylene Chloride	100.0	0.0	88.45	88	70	130
Acetone	100.0	0.0	117.2	117	70	130
Trans-1,2-Dichloroethene	100.0	0.0	90.04	90	70	130
Methyl t-Butyl Ether (MTBE)	100.0	16	106.1	91	70	130
1,1-Dichloroethane	100.0	0.0	95.87	96	70	130
Acrylonitrile	100.0	0.0	91.07	91	70	130
Cis-1,2-Dichloroethene	100.0	0.0	95.06	95	70	130
2,2-Dichloropropane	100.0	0.0	90.95	91	70	130
Bromochloromethane	100.0	0.0	105.8	106	70	130

COMPOUND	SPIKE ADDED ug/L	MSD CONCENTRATION ug/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	
Dichlorodifluoromethane	100.0	100.9	101	6.1	30	70	130
Chloromethane	100.0	117.7	118	8.8	30	70	130
Vinyl Chloride	100.0	106.6	107	9.8	30	70	130
Bromomethane	100.0	86.52	87	32.0 *	30	70	130
Chloroethane	100.0	115.6	116	15.8	30	70	130
Trichlorofluoromethane	100.0	112.0	112	10.3	30	70	130
1,1-Dichloroethene	100.0	108.8	109	9.6	30	59	172
Trichlorotrifluoroethane	100.0	114.2	114	13.1	30	70	130
Carbon Disulfide	100.0	106.1	106	10.9	30	70	130
Acrolein	500.0	451.2	90	8.1	30	70	130
Methylene Chloride	100.0	99.48	99	11.8	30	70	130
Acetone	100.0	123.2	123	5.0	30	70	130
Trans-1,2-Dichloroethene	100.0	105.4	105	15.4	30	70	130
Methyl t-Butyl Ether (MTBE)	100.0	119.5	104	13.3	30	70	130
1,1-Dichloroethane	100.0	107.5	108	11.8	30	70	130
Acrylonitrile	100.0	100.6	101	10.4	30	70	130
Cis-1,2-Dichloroethene	100.0	108.5	108	12.8	30	70	130
2,2-Dichloropropane	100.0	95.11	95	4.3	30	70	130
Bromochloromethane	100.0	104.6	105	0.9	30	70	130

FORM III VOA

3C

WATER VOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No: SAS No: SDG No GCS32429

Matrix Spike - Client Id: CS32429 / IRMW-14 MS 5X Level:(low/med) Med

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC #	QC. LIMITS REC.	
Chloroform	100.0	0.0	112.7	113	70	130
Carbon Tetrachloride	100.0	0.0	106.3	106	70	130
Tetrahydrofuran (THF)	250.0	0.0	235.6	94	70	130
1,1,1-Trichloroethane	100.0	0.0	104.3	104	70	130
Methyl Ethyl Ketone	100.0	0.0	96.21	96	70	130
1,1-Dichloropropene	100.0	0.0	101.1	101	70	130
Benzene	100.0	46	143.5	98	66	142
1,2-Dichloroethane	100.0	0.0	95.43	95	70	130
Trichloroethene	100.0	0.0	98.43	98	62	137
Dibromomethane	100.0	0.0	94.35	94	70	130
1,2-dichloropropane	100.0	0.0	91.92	92	70	130
Bromodichloromethane	100.0	0.0	98.70	99	70	130
cis-1,3-Dichloropropene	100.0	0.0	95.58	96	70	130
Toluene	100.0	210	305.3	NC	59	139
4-Methyl-2-Pentanone	100.0	0.0	101.1	101	70	130
Tetrachloroethene	100.0	0.0	101.8	102	70	130
trans-1,3-Dichloropropene	100.0	0.0	96.83	97	70	130
1,1,2-Trichloroethane	100.0	0.0	99.55	100	70	130
Dibromochloromethane	100.0	0.0	101.3	101	70	130

COMPOUND	SPIKE ADDED ug/L	MSD CONCENTRATION ug/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	
Chloroform	100.0	116.5	116	2.6	30	70	130
Carbon Tetrachloride	100.0	119.5	120	12.4	30	70	130
Tetrahydrofuran (THF)	250.0	251.7	101	7.2	30	70	130
1,1,1-Trichloroethane	100.0	114.6	115	10.0	30	70	130
Methyl Ethyl Ketone	100.0	106.8	107	10.8	30	70	130
1,1-Dichloropropene	100.0	109.9	110	8.5	30	70	130
Benzene	100.0	150.5	105	6.9	30	66	142
1,2-Dichloroethane	100.0	102.8	103	8.1	30	70	130
Trichloroethene	100.0	106.4	106	7.8	30	62	137
Dibromomethane	100.0	101.7	102	8.2	30	70	130
1,2-dichloropropane	100.0	100.3	100	8.3	30	70	130
Bromodichloromethane	100.0	107.1	107	7.8	30	70	130
cis-1,3-Dichloropropene	100.0	104.8	105	9.0	30	70	130
Toluene	100.0	309.1	NC		30	59	139
4-Methyl-2-Pentanone	100.0	105.0	105	3.9	30	70	130
Tetrachloroethene	100.0	112.2	112	9.3	30	70	130
trans-1,3-Dichloropropene	100.0	104.0	104	7.0	30	70	130
1,1,2-Trichloroethane	100.0	105.0	105	4.9	30	70	130
Dibromochloromethane	100.0	112.1	112	10.3	30	70	130

FORM III VOA

3C

WATER VOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No: SAS No: SDG No GCS32429

Matrix Spike - Client Id: CS32429 / IRMW-14 MS 5X Level:(low/med) Med

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC #	QC. LIMITS REC.	
1,3-Dichloropropane	100.0	0.0	94.42	94	70	130
1,2-Dibromoethane	100.0	0.0	95.30	95	70	130
2-Hexanone	100.0	0.0	95.32	95	70	130
Chlorobenzene	100.0	0.0	96.01	96	60	133
Ethylbenzene	100.0	400	495.2	NC	70	130
1,1,1,2-Tetrachloroethane	100.0	0.0	100.6	101	70	130
m&p-Xylene	200.0	680	870.6	NC	70	130
o-Xylene	100.0	250	353.7	NC	70	130
Styrene	100.0	0.0	104.0	104	70	130
Bromoform	100.0	0.0	100.7	101	70	130
Isopropylbenzene	100.0	23	125.5	103	70	130
Bromobenzene	100.0	0.0	95.28	95	70	130
n-Propylbenzene	100.0	51	152.2	101	70	130
1,1,2,2-Tetrachloroethane	100.0	0.0	93.84	94	70	130
2-Chlorotoluene	100.0	0.0	97.71	98	70	130
1,3,5-Trimethylbenzene	100.0	75	174.8	100	70	130
1,2,3-Trichloropropane	100.0	0.0	95.61	96	70	130
trans-1,4-Dichloro-2-butene	500.0	0.0	419.0	84	70	130
4-Chlorotoluene	100.0	0.0	96.11	96	70	130

COMPOUND	SPIKE ADDED ug/L	MSD CONCENTRATION ug/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	
1,3-Dichloropropane	100.0	104.2	104	10.1	30	70	130
1,2-Dibromoethane	100.0	107.5	108	12.8	30	70	130
2-Hexanone	100.0	102.5	103	8.1	30	70	130
Chlorobenzene	100.0	103.9	104	8.0	30	60	133
Ethylbenzene	100.0	498.9	NC		30	70	130
1,1,1,2-Tetrachloroethane	100.0	114.6	115	13.0	30	70	130
m&p-Xylene	200.0	885.8	NC		30	70	130
o-Xylene	100.0	364.1	NC		30	70	130
Styrene	100.0	112.5	112	7.4	30	70	130
Bromoform	100.0	110.8	111	9.4	30	70	130
Isopropylbenzene	100.0	134.8	112	8.4	30	70	130
Bromobenzene	100.0	102.4	102	7.1	30	70	130
n-Propylbenzene	100.0	157.4	106	4.8	30	70	130
1,1,2,2-Tetrachloroethane	100.0	99.68	100	6.2	30	70	130
2-Chlorotoluene	100.0	107.0	107	8.8	30	70	130
1,3,5-Trimethylbenzene	100.0	182.8	108	7.7	30	70	130
1,2,3-Trichloropropane	100.0	102.9	103	7.0	30	70	130
trans-1,4-Dichloro-2-butene	500.0	460.4	92	9.1	30	70	130
4-Chlorotoluene	100.0	105.5	105	9.0	30	70	130

FORM III VOA

3C

WATER VOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No: SAS No: SDG No GCS32429

Matrix Spike - Client Id: CS32429 / IRMW-14 MS 5X Level:(low/med) Med

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC #	QC. LIMITS REC.	
tert-Butylbenzene	100.0	0.0	102.6	103	70	130
1,2,4-Trimethylbenzene	100.0	870	604.5	NC	70	130
sec-Butylbenzene	100.0	0.0	104.7	105	70	130
p-Isopropyltoluene	100.0	0.0	108.7	109	70	130
1,3-Dichlorobenzene	100.0	0.0	97.07	97	70	130
1,4-Dichlorobenzene	100.0	0.0	96.67	97	70	130
2-Isopropyltoluene	100.0	0.0	102.2	102	70	130
n-Butylbenzene	100.0	3.7	107.0	103	70	130
1,2-Dichlorobenzene	100.0	0.0	96.00	96	70	130
1,2-Dibromo-3-Chloropropane	100.0	0.0	110.7	111	70	130
Hexachlorobutadiene	100.0	0.0	93.81	94	70	130
1,2,4-Trichlorobenzene	100.0	0.0	107.4	107	70	130
Naphthalene	100.0	220	362.6	NC	70	130
1,2,3-Trichlorobenzene	100.0	0.0	105.9	106	70	130

COMPOUND	SPIKE ADDED ug/L	MSD CONCENTRATION ug/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	
tert-Butylbenzene	100.0	111.6	112	8.4	30	70	130
1,2,4-Trimethylbenzene	100.0	611.8	NC		30	70	130
sec-Butylbenzene	100.0	113.3	113	7.3	30	70	130
p-Isopropyltoluene	100.0	116.8	117	7.1	30	70	130
1,3-Dichlorobenzene	100.0	105.5	106	8.9	30	70	130
1,4-Dichlorobenzene	100.0	103.5	104	7.0	30	70	130
2-Isopropyltoluene	100.0	112.6	113	10.2	30	70	130
n-Butylbenzene	100.0	116.9	113	9.3	30	70	130
1,2-Dichlorobenzene	100.0	104.2	104	8.0	30	70	130
1,2-Dibromo-3-Chloropropane	100.0	117.3	117	5.3	30	70	130
Hexachlorobutadiene	100.0	100.2	100	6.2	30	70	130
1,2,4-Trichlorobenzene	100.0	115.0	115	7.2	30	70	130
Naphthalene	100.0	363.1	NC		30	70	130
1,2,3-Trichlorobenzene	100.0	115.7	116	9.0	30	70	130

FORM III VOA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS32429

Instrument ID: CHEM23 Calibration Date(s): 12/20/24 12/20/24

Heated Purge (Y/N): N Calibration Time(s): 21:15 22:59

GC Column: Method File: VOA23_122024.M

LAB FILE ID:

RRF 0.5	1220_40.D	RRF 5	1220_41.D	RRF 10	1220_42.D
RRF 20	1220_43.D	RRF 50	1220_44.D	RRF 100	1220_45.D

COMPOUND		RRF 0.5	RRF 5	RRF 10	RRF 20	RRF 50	RRF 100			$\overline{RRF}$	% RSD	% RSD LIMITS
Dichlorodifluoromethane		0.439	0.440	0.452	0.619	0.575	0.577			0.517	15.8	35 ()
Chloromethane		0.611	0.694	0.680	0.789	0.743	0.756			0.712	8.9	35 ()
Vinyl Chloride		0.439	0.475	0.501	0.616	0.571	0.587			0.531	13.2	35 ()
Bromomethane		0.209	0.152	0.153	0.178	0.177	0.183			0.175	12.1	35 ()
Chloroethane		0.227	0.228	0.217	0.240	0.203	0.180			0.216	10.0	35 ()
Trichlorofluoromethane		0.436	0.488	0.487	0.645	0.560	0.539			0.526	13.9	35 ()
1,1-Dichloroethene		0.277	0.320	0.323	0.396	0.368	0.360			0.341	12.5	35 ()
Trichlorotrifluoroethane		0.236	0.223	0.223	0.303	0.279	0.279			0.257	13.3	35 ()
Carbon Disulfide		0.844	0.870	0.884	1.130	1.065	1.069			0.977	12.8	35 ()
Acrolein		0.064	0.061	0.057	0.069	0.064	0.066			0.064	6.3	35 ()
Methylene Chloride		0.460	0.437	0.412	0.460	0.429	0.432			0.438	4.3	35 ()
Acetone			0.112	0.100	0.114	0.105	0.108			0.108	5.1	35 ()
Trans-1,2-Dichloroethene		0.421	0.440	0.403	0.481	0.432	0.433			0.435	6.0	35 ()
Methyl t-Butyl Ether (MTBE)		0.791	0.917	0.901	1.027	0.988	1.006			0.938	9.4	35 ()
1,1-Dichloroethane		0.713	0.799	0.767	0.888	0.851	0.855			0.812	8.0	35 ()
Acrylonitrile		0.170	0.146	0.149	0.158	0.155	0.157			0.156	5.4	35 ()
Cis-1,2-Dichloroethene		0.445	0.459	0.467	0.528	0.492	0.508			0.483	6.5	35 ()
2,2-Dichloropropane		0.495	0.487	0.487	0.597	0.575	0.577			0.536	9.7	35 ()
Bromochloromethane		0.237	0.222	0.222	0.240	0.230	0.244			0.233	4.0	35 ()
Chloroform		0.736	0.758	0.841	0.993	0.806	0.974			0.851	12.8	35 ()
Carbon Tetrachloride		0.425	0.443	0.463	0.607	0.607	0.628			0.529	17.9	35 ()
Tetrahydrofuran (THF)			0.145	0.143	0.164	0.158	0.161			0.154	6.2	35 ()
1,1,1-Trichloroethane		0.583	0.622	0.654	0.799	0.763	0.786			0.701	13.2	35 ()
Methyl Ethyl Ketone			0.209	0.214	0.254	0.244	0.241			0.232	8.4	35 ()
1,1-Dichloropropene		0.303	0.349	0.337	0.423	0.401	0.406			0.370	12.8	35 ()
Benzene		0.960	1.159	1.119	1.325	1.255	1.272			1.182	11.2	35 ()
1,2-Dichloroethane		0.308	0.348	0.342	0.395	0.376	0.381			0.358	8.8	35 ()
Trichloroethene		0.257	0.284	0.274	0.329	0.312	0.317			0.296	9.6	35 ()
Dibromomethane		0.142	0.164	0.155	0.184	0.176	0.181			0.167	9.8	35 ()
1,2-dichloropropane		0.317	0.309	0.302	0.356	0.341	0.354			0.330	7.1	35 ()
Bromodichloromethane		0.236	0.319	0.318	0.371	0.377	0.393			0.336	17.3	35 ()
cis-1,3-Dichloropropene		0.297	0.378	0.387	0.476	0.485	0.506			0.421	19.2	35 ()
Toluene		0.610	0.702	0.686	0.814	0.775	0.800			0.731	10.8	35 ()
4-Methyl-2-Pentanone			0.235	0.238	0.282	0.285	0.294			0.267	10.5	35 ()
Tetrachloroethene		0.164	0.187	0.185	0.232	0.218	0.221			0.201	13.2	35 ()
trans-1,3-Dichloropropene		0.245	0.308	0.321	0.400	0.401	0.425			0.350	19.9	35 ()
1,1,2-Trichloroethane		0.176	0.231	0.226	0.261	0.250	0.260			0.234	13.7	35 ()
Dibromochloromethane		0.159	0.231	0.243	0.292	0.296	0.314			0.256	22.5	35 ()
1,3-Dichloropropane		0.355	0.442	0.440	0.492	0.482	0.486			0.450	11.4	35 ()
1,2-Dibromoethane		0.178	0.256	0.251	0.288	0.285	0.292			0.258	16.6	35 ()
2-Hexanone			0.164	0.174	0.206	0.208	0.218			0.194	12.2	35 ()
Chlorobenzene		0.677	0.819	0.830	0.908	0.885	0.899			0.836	10.3	35 ()
Ethylbenzene		0.367	0.442	0.435	0.493	0.478	0.478			0.449	10.3	35 ()
1,1,1,2-Tetrachloroethane		0.174	0.256	0.259	0.296	0.297	0.310			0.265	18.7	35 ()
m&p-Xylene		0.409	0.527	0.524	0.605	0.587	0.583			0.539	13.4	35 ()
o-Xylene		0.367	0.496	0.499	0.581	0.566	0.582			0.515	16.0	35 ()
Styrene		0.532	0.810	0.828	0.970	0.961	0.992			0.849	20.4	35 ()
Bromoform		0.081	0.117	0.122	0.156	0.164	0.178			0.137	26.5	35 ()

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) %

%D: % of target compounds are allowed to be above criteria %, but must be less than the (maximum) %

(l) linear (li) linear inverse conc weight (li2) linear inverse conc weight squared (q) quadratic (qi) quadratic inverse conc weight (qi2) quadratic inverse conc weight squared

Compounds not using average response (l, li, li2, q, qi, qi2) display concentrations and not response factors

FORM VI VOA

6C
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS32429

Instrument ID: CHEM23 Calibration Date(s): 12/20/24 12/20/24

Heated Purge (Y/N): N Calibration Time(s): 21:15 22:59

GC Column: Method File: VOA23_122024.M

LAB FILE ID:

RRF 0.5	1220_40.D	RRF 5	1220_41.D	RRF 10	1220_42.D	RRF 20	1220_43.D		
RRF 50	1220_44.D	RRF 100	1220_45.D						

COMPOUND		RRF 0.5	RRF 5	RRF 10	RRF 20	RRF 50	RRF 100			$\overline{RRF}$	% RSD	% RSD LIMITS
Isopropylbenzene		0.520	0.670	0.649	0.777	0.748	0.740			0.684	13.8	35 ()
Bromobenzene		0.605	0.631	0.641	0.718	0.688	0.689			0.662	6.5	35 ()
n-Propylbenzene		0.575	0.697	0.681	0.810	0.770	0.754			0.714	11.7	35 ()
1,1,2,2-Tetrachloroethane		0.527	0.654	0.638	0.713	0.682	0.692			0.651	10.2	35 ()
2-Chlorotoluene		0.521	0.634	0.629	0.697	0.674	0.684			0.640	10.1	35 ()
1,3,5-Trimethylbenzene		1.527	2.134	2.115	2.455	2.313	2.338			2.147	15.4	35 ()
1,2,3-Trichloropropane		0.387	0.516	0.496	0.551	0.530	0.509			0.498	11.5	35 ()
trans-1,4-Dichloro-2-butene		0.084	0.147	0.158	0.207	0.222	0.243			0.177	33.1	35 ()
4-Chlorotoluene		0.537	0.671	0.660	0.747	0.704	0.717			0.673	10.9	35 ()
tert-Butylbenzene		1.305	1.740	1.708	2.029	1.976	1.994			1.792	15.4	35 ()
1,2,4-Trimethylbenzene		1.471	2.188	2.179	2.477	2.406	2.415			2.189	17.1	35 ()
sec-Butylbenzene		1.928	2.747	2.701	3.222	3.113	3.147			2.810	17.2	35 ()
p-Isopropyltoluene		1.646	2.254	2.257	2.686	2.618	2.645			2.351	16.9	35 ()
1,3-Dichlorobenzene		1.004	1.259	1.231	1.388	1.326	1.353			1.260	11.0	35 ()
1,4-Dichlorobenzene		1.077	1.283	1.240	1.390	1.337	1.360			1.281	8.9	35 ()
2-Isopropyltoluene		1.640	2.197	2.177	2.539	2.462	2.492			2.251	15.0	35 ()
n-Butylbenzene		1.634	2.182	2.161	2.623	2.567	2.546			2.285	16.5	35 ()
1,2-Dichlorobenzene		1.021	1.224	1.177	1.331	1.280	1.287			1.220	9.1	35 ()
1,2-Dibromo-3-Chloropropane		0.049	0.068	0.067	0.088	0.093	0.098			0.077	24.2	35 ()
Hexachlorobutadiene		0.247	0.223	0.234	0.263	0.252	0.235			0.242	5.9	35 ()
1,2,4-Trichlorobenzene		0.429	0.539	0.540	0.661	0.655	0.646			0.579	16.0	35 ()
Naphthalene		0.548	0.894	1.063	1.343	1.437	1.503			1.131	32.6	35 ()
1,2,3-Trichlorobenzene		0.342	0.410	0.438	0.518	0.513	0.509			0.455	15.6	35 ()
% Dibromofluoromethane		0.086	0.087	0.087	0.087	0.088	0.091			0.088	2.0	35 ()
% Toluene-d8		1.094	1.105	1.096	1.120	1.125	1.136			1.113	1.5	35 ()
% Bromofluorobenzene		0.450	0.471	0.464	0.466	0.470	0.482			0.467	2.2	35 ()
% 1,2-dichlorobenzene-d4		0.955	0.951	0.952	0.944	0.949	0.944			0.949	0.5	35 ()

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) %

%D: % of target compounds are allowed to be above criteria %, but must be less than the (maximum) %

(l) linear (li) linear inverse conc weight (li2) linear inverse conc weight squared (q) quadratic (qi) quadratic inverse conc weight (qi2) quadratic inverse conc weight squared

Compounds not using average response (l, li, li2, q, qi, qi2) display concentrations and not response factors

FORM VI VOA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS32429

Instrument ID: CHEM23 Calibration Date(s): 12/23/24 12/23/24

Heated Purge (Y/N): N Calibration Time(s): 11:25 16:28

GC Column: Method File: VOA23_122324.M

LAB FILE ID:

RRF 0.5	1223_18.D	RRF 5	1223_10.D	RRF 10	1223_11.D	RRF 20	1223_12.D
RRF 50	1223_13.D	RRF 100	1223_14.D				

COMPOUND		RRF 0.5	RRF 5	RRF 10	RRF 20	RRF 50	RRF 100			$\overline{RRF}$	% RSD	% RSD LIMITS
Dichlorodifluoromethane		0.577	0.624	0.646	0.636	0.663	0.640			0.631	4.7	35 ()
Chloromethane		0.788	0.723	0.742	0.726	0.743	0.732			0.742	3.2	35 ()
Vinyl Chloride		0.564	0.558	0.605	0.577	0.614	0.605			0.587	4.1	35 ()
Bromomethane		0.243	0.145	0.155	0.146	0.154	0.168			0.169	22.2	35 ()
Chloroethane		0.246	0.220	0.219	0.210	0.194	0.167			0.209	12.8	35 ()
Trichlorofluoromethane		0.615	0.601	0.639	0.616	0.619	0.556			0.608	4.6	35 ()
1,1-Dichloroethene		0.344	0.370	0.388	0.367	0.377	0.372			0.370	3.9	35 ()
Trichlorotrifluoroethane		0.297	0.284	0.315	0.303	0.310	0.300			0.302	3.6	35 ()
Carbon Disulfide		1.134	0.953	1.075	1.021	1.096	1.080			1.060	6.0	35 ()
Acrolein		0.078	0.062	0.069	0.068	0.072	0.073			0.070	8.0	35 ()
Methylene Chloride		0.528	0.400	0.430	0.399	0.423	0.421			0.434	11.1	35 ()
Acetone			0.124	0.126	0.114	0.120	0.118			0.120	3.9	35 ()
Trans-1,2-Dichloroethene		0.504	0.410	0.429	0.426	0.436	0.434			0.440	7.5	35 ()
Methyl t-Butyl Ether (MTBE)		1.033	0.944	1.024	0.987	1.033	1.034			1.009	3.6	35 ()
1,1-Dichloroethane		0.797	0.775	0.827	0.798	0.842	0.819			0.810	3.0	35 ()
Acrylonitrile		0.207	0.160	0.171	0.165	0.172	0.170			0.174	9.5	35 ()
Cis-1,2-Dichloroethene		0.513	0.492	0.485	0.485	0.497	0.464			0.489	3.3	35 ()
2,2-Dichloropropane		0.574	0.570	0.583	0.578	0.613	0.622			0.590	3.7	35 ()
Bromochloromethane		0.264	0.252	0.232	0.222	0.230	0.230			0.238	6.8	35 ()
Chloroform		0.963	0.943	0.813	0.807	0.847	0.820			0.865	8.0	35 ()
Carbon Tetrachloride		0.554	0.602	0.605	0.607	0.671	0.668			0.618	7.2	35 ()
Tetrahydrofuran (THF)			0.169	0.177	0.179	0.184	0.180			0.178	3.2	35 ()
1,1,1-Trichloroethane		0.721	0.771	0.781	0.789	0.840	0.811			0.786	5.1	35 ()
Methyl Ethyl Ketone			0.251	0.277	0.277	0.281	0.283			0.274	4.7	35 ()
1,1-Dichloropropene		0.406	0.402	0.436	0.422	0.440	0.426			0.422	3.7	35 ()
Benzene		1.238	1.250	1.283	1.269	1.310	1.273			1.270	2.0	35 ()
1,2-Dichloroethane		0.398	0.384	0.383	0.380	0.390	0.386			0.387	1.7	35 ()
Trichloroethene		0.355	0.319	0.336	0.317	0.338	0.330			0.332	4.2	35 ()
Dibromomethane		0.202	0.177	0.188	0.183	0.190	0.189			0.188	4.4	35 ()
1,2-dichloropropane		0.411	0.331	0.346	0.341	0.351	0.350			0.355	8.0	35 ()
Bromodichloromethane		0.331	0.346	0.369	0.371	0.392	0.393			0.367	6.8	35 ()
cis-1,3-Dichloropropene		0.393	0.415	0.461	0.467	0.506	0.508			0.458	10.2	35 ()
Toluene		0.784	0.764	0.804	0.777	0.818	0.810			0.793	2.7	35 ()
4-Methyl-2-Pentanone			0.282	0.301	0.309	0.334	0.340			0.313	7.6	35 ()
Tetrachloroethene		0.221	0.226	0.240	0.228	0.240	0.237			0.232	3.4	35 ()
trans-1,3-Dichloropropene		0.348	0.338	0.390	0.405	0.438	0.443			0.394	11.2	35 ()
1,1,2-Trichloroethane		0.260	0.249	0.263	0.256	0.272	0.274			0.262	3.6	35 ()
Dibromochloromethane		0.228	0.267	0.306	0.307	0.328	0.337			0.295	13.9	35 ()
1,3-Dichloropropane		0.491	0.495	0.531	0.501	0.523	0.512			0.509	3.1	35 ()
1,2-Dibromoethane		0.271	0.302	0.315	0.306	0.323	0.319			0.306	6.2	35 ()
2-Hexanone			0.190	0.227	0.235	0.257	0.264			0.235	12.5	35 ()
Chlorobenzene		0.921	0.895	0.935	0.917	0.949	0.925			0.924	2.0	35 ()
Ethylbenzene		0.481	0.473	0.514	0.501	0.509	0.500			0.496	3.2	35 ()
1,1,1,2-Tetrachloroethane		0.243	0.270	0.297	0.300	0.323	0.320			0.292	10.5	35 ()
m&p-Xylene		0.554	0.579	0.616	0.613	0.625	0.604			0.598	4.5	35 ()
o-Xylene		0.516	0.556	0.597	0.574	0.606	0.606			0.576	6.2	35 ()
Styrene		0.710	0.868	0.990	0.964	1.021	1.022			0.929	13.1	35 ()
Bromoform		0.126	0.139	0.160	0.172	0.198	0.209			0.167	19.3	35 ()

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) %

%D: % of target compounds are allowed to be above criteria %, but must be less than the (maximum) %

(l) linear (li) linear inverse conc weight (li2) linear inverse conc weight squared (q) quadratic (qi) quadratic inverse conc weight (qi2) quadratic inverse conc weight squared

Compounds not using average response (l, li, li2, q, qi, qi2) display concentrations and not response factors

FORM VI VOA

6C
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS32429

Instrument ID: CHEM23 Calibration Date(s): 12/23/24 12/23/24

Heated Purge (Y/N): N Calibration Time(s): 11:25 16:28

GC Column: Method File: VOA23_122324.M

LAB FILE ID:

RRF 0.5	1223_18.D	RRF 5	1223_10.D	RRF 10	1223_11.D	RRF 20	1223_12.D
RRF 50	1223_13.D	RRF 100	1223_14.D				

COMPOUND		RRF 0.5	RRF 5	RRF 10	RRF 20	RRF 50	RRF 100			$\overline{RRF}$	% RSD	% RSD LIMITS
Isopropylbenzene		0.692	0.760	0.813	0.806	0.797	0.772			0.773	5.8	35 ()
Bromobenzene		0.829	0.689	0.749	0.716	0.718	0.712			0.736	6.8	35 ()
n-Propylbenzene		0.741	0.814	0.813	0.817	0.836	0.809			0.805	4.1	35 ()
1,1,2,2-Tetrachloroethane		0.874	0.754	0.790	0.795	0.796	0.789			0.800	5.0	35 ()
2-Chlorotoluene		0.705	0.689	0.705	0.694	0.718	0.700			0.702	1.4	35 ()
1,3,5-Trimethylbenzene		2.059	2.294	2.459	2.435	2.502	2.450			2.367	7.0	35 ()
1,2,3-Trichloropropane		0.643	0.552	0.574	0.614	0.625	0.585			0.599	5.7	35 ()
trans-1,4-Dichloro-2-butene		0.159	0.200	0.245	0.269	0.282	0.291			0.241	21.5	35 ()
4-Chlorotoluene		0.694	0.735	0.736	0.746	0.755	0.743			0.735	2.9	35 ()
tert-Butylbenzene		1.850	1.997	2.096	2.109	2.174	2.144			2.062	5.8	35 ()
1,2,4-Trimethylbenzene		2.092	2.361	2.481	2.467	2.547	2.515			2.410	7.0	35 ()
sec-Butylbenzene		2.911	3.115	3.362	3.355	3.517	3.400			3.277	6.8	35 ()
p-Isopropyltoluene		2.325	2.558	2.724	2.746	2.912	2.876			2.690	8.1	35 ()
1,3-Dichlorobenzene		1.449	1.348	1.399	1.369	1.423	1.416			1.401	2.6	35 ()
1,4-Dichlorobenzene		1.529	1.387	1.436	1.402	1.427	1.411			1.432	3.5	35 ()
2-Isopropyltoluene		2.550	2.460	2.555	2.563	2.722	2.659			2.585	3.6	35 ()
n-Butylbenzene		2.254	2.516	2.706	2.750	2.884	2.807			2.653	8.7	35 ()
1,2-Dichlorobenzene		1.528	1.321	1.383	1.335	1.377	1.379			1.387	5.3	35 ()
1,2-Dibromo-3-Chloropropane		0.064	0.089	0.109	0.112	0.128	0.131			0.105	24.0	35 ()
Hexachlorobutadiene		0.411	0.281	0.297	0.299	0.306	0.284			0.313	15.6	35 ()
1,2,4-Trichlorobenzene		0.690	0.736	0.816	0.836	0.876	0.843			0.799	8.9	35 ()
Naphthalene		0.858	1.421	1.879	2.110	2.373	2.401			1.840	32.7	35 ()
1,2,3-Trichlorobenzene		0.617	0.673	0.754	0.787	0.815	0.785			0.738	10.5	35 ()
% Dibromofluoromethane		0.088	0.088	0.085	0.090	0.088	0.087			0.088	1.9	35 ()
% Toluene-d8		1.108	1.100	1.100	1.118	1.124	1.133			1.114	1.2	35 ()
% Bromofluorobenzene		0.447	0.473	0.470	0.475	0.476	0.489			0.472	2.9	35 ()
% 1,2-dichlorobenzene-d4		0.971	0.963	0.963	0.962	0.955	0.964			0.963	0.5	35 ()

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) %

%D: % of target compounds are allowed to be above criteria %, but must be less than the (maximum) %

(l) linear (li) linear inverse conc weight (li2) linear inverse conc weight squared (q) quadratic (qi) quadratic inverse conc weight (qi2) quadratic inverse conc weight squared

Compounds not using average response (l, li, li2, q, qi, qi2) display concentrations and not response factors

FORM VI VOA

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS32429

Instrument: CHEM23 Calibration Date: 12/21/24 Time: 10:59

Lab File Id: 1221_02.D Init. Calib. Date(s): 12/20/24 12/20/24

Heated Purge (Y/N): N Init. Calib. Times: 21:15 22:59

GC Column: RTX-VMS Method File: VOA23_122024.M

COMPOUND		RRF	RRF50	RRF MIN	%D	% D LIMITS
Pentafluorobenzene	(IS Area/Area%)	386080	405492	n.a.	105.0	50-200
1,4-Difluorobenzene	(IS Area/Area%)	707400	731351	n.a.	103.4	50-200
Chlorobenzene-d5	(IS Area/Area%)	645520	645124	n.a.	99.9	50-200
1,4-Dichlorobenzene-d4	(IS Area/Area%)	320903	329908	n.a.	102.8	50-200
1,4-Dioxane d8	(IS Area/Area%)	21232	22454	n.a.	105.8	n.a.
Dichlorodifluoromethane		0.517	0.549	0.010	-6.2	20 (60)
Chloromethane		0.712	0.724	0.010	-1.7	20 (60)
Vinyl Chloride		0.531	0.573	0.010	-7.9	20 (40)
Bromomethane		0.175	0.168	0.010	4.0	20 (60)
Chloroethane		0.216	0.220	0.010	-1.9	20 (40)
Trichlorofluoromethane		0.526	0.614	0.010	-16.7	20 (40)
1,1-Dichloroethene		0.341	0.371	0.060	-8.8	20 (40)
Trichlorotrifluoroethane		0.257	0.297	0.050	-15.6	20 (40)
Carbon Disulfide		0.977	1.086	0.100	-11.2	20 (40)
Acrolein		0.064	0.061	0.050	4.7	20 (40)
Methylene Chloride		0.438	0.415	0.010	5.3	20 (40)
Acetone		0.108	0.099	0.010	8.3	20 (60)
Trans-1,2-Dichloroethene		0.435	0.424	0.100	2.5	20 (40)
Methyl t-Butyl Ether (MTBE)		0.938	0.972	0.100	-3.6	20 (40)
1,1-Dichloroethane		0.812	0.815	0.300	-0.4	20 (40)
Acrylonitrile		0.156	0.142	0.050	9.0	20 (40)
Cis-1,2-Dichloroethene		0.483	0.504	0.200	-4.3	20 (40)
2,2-Dichloropropane		0.536	0.700	0.050	-30.6 +	20 (40)
Bromochloromethane		0.233	0.272	0.100	-16.7	20 (40)
Chloroform		0.851	0.981	0.300	-15.3	20 (40)
Carbon Tetrachloride		0.529	0.629	0.100	-18.9	20 (40)
Tetrahydrofuran (THF)		0.154	0.155	0.050	-0.6	20 (40)
1,1,1-Trichloroethane		0.701	0.799	0.050	-14.0	20 (40)
Methyl Ethyl Ketone		0.232	0.231	0.010	0.4	20 (60)
1,1-Dichloropropene		0.370	0.414	0.050	-11.9	20 (40)
Benzene		1.182	1.265	0.200	-7.0	20 (40)
1,2-Dichloroethane		0.358	0.373	0.070	-4.2	20 (40)
Trichloroethene		0.296	0.316	0.200	-6.8	20 (40)
Dibromomethane		0.167	0.174	0.050	-4.2	20 (40)
1,2-dichloropropane		0.330	0.338	0.200	-2.4	20 (40)

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(l) linear (li) linear inv conc wgt (li2) linear inv conc wgt^2 (q) quadratic (qi) quadratic inv conc wgt (qi2) quadratic inv conc wg^2

Compounds not using average response (l, li, li2, q, qi, qi2) display concentrations and not response factors

7B
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS32429

Instrument: CHEM23 Calibration Date: 12/21/24 Time: 10:59

Lab File Id: 1221_02.D Init. Calib. Date(s): 12/20/24 12/20/24

Heated Purge (Y/N): N Init. Calib. Times: 21:15 22:59

GC Column: RTX-VMS Method File: VOA23_122024.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
Bromodichloromethane	0.336	0.376	0.300	-11.9	20 (40)
cis-1,3-Dichloropropene	0.421	0.471	0.300	-11.9	20 (40)
Toluene	0.731	0.782	0.300	-7.0	20 (40)
4-Methyl-2-Pentanone	0.267	0.267	0.030	0.0	20 (60)
Tetrachloroethene	0.201	0.227	0.100	-12.9	20 (40)
trans-1,3-Dichloropropene	0.350	0.397	0.300	-13.4	20 (40)
1,1,2-Trichloroethane	0.234	0.253	0.200	-8.1	20 (40)
Dibromochloromethane	0.256	0.302	0.200	-18.0	20 (40)
1,3-Dichloropropane	0.450	0.491	0.050	-9.1	20 (40)
1,2-Dibromoethane	0.258	0.293	0.200	-13.6	20 (40)
2-Hexanone	0.194	0.208	0.010	-7.2	20 (60)
Chlorobenzene	0.836	0.911	0.400	-9.0	20 (40)
Ethylbenzene	0.449	0.501	0.400	-11.6	20 (40)
1,1,1,2-Tetrachloroethane	0.265	0.306	0.050	-15.5	20 (40)
m&p-Xylene	0.539	0.621	0.200	-15.2	20 (40)
o-Xylene	0.515	0.584	0.200	-13.4	20 (40)
Styrene	0.849	0.983	0.200	-15.8	20 (40)
Bromoform	0.137	0.163	0.100	-19.0	20 (40)
Isopropylbenzene	0.684	0.781	0.400	-14.2	20 (40)
Bromobenzene	0.662	0.707	0.050	-6.8	20 (40)
n-Propylbenzene	0.714	0.800	0.050	-12.0	20 (40)
1,1,2,2-Tetrachloroethane	0.651	0.686	0.200	-5.4	20 (40)
2-Chlorotoluene	0.640	0.692	0.050	-8.1	20 (40)
1,3,5-Trimethylbenzene	2.147	2.389	0.050	-11.3	20 (40)
1,2,3-Trichloropropane	0.498	0.528	0.050	-6.0	20 (40)
trans-1,4-Dichloro-2-butene	0.177	0.229	0.050	-29.4 +	20 (40)
4-Chlorotoluene	0.673	0.722	0.050	-7.3	20 (40)
tert-Butylbenzene	1.792	2.012	0.050	-12.3	20 (40)
1,2,4-Trimethylbenzene	2.189	2.442	0.050	-11.6	20 (40)
sec-Butylbenzene	2.810	3.180	0.050	-13.2	20 (40)
p-Isopropyltoluene	2.351	2.654	0.050	-12.9	20 (40)
1,3-Dichlorobenzene	1.260	1.349	0.500	-7.1	20 (40)
1,4-Dichlorobenzene	1.281	1.357	0.600	-5.9	20 (40)
2-Isopropyltoluene	2.251	2.478	0.050	-10.1	20 (40)
n-Butylbenzene	2.285	2.554	0.050	-11.8	20 (40)

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(l) linear (li) linear inv conc wgt (li2) linear inv conc wgt^2 (q) quadratic (qi) quadratic inv conc wgt (qi2) quadratic inv conc wg^2

Compounds not using average response (l, li, li2, q, qi, qi2) display concentrations and not response factors

7B
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS32429

Instrument: CHEM23 Calibration Date: 12/21/24 Time: 10:59

Lab File Id: 1221_02.D Init. Calib. Date(s): 12/20/24 12/20/24

Heated Purge (Y/N): N Init. Calib. Times: 21:15 22:59

GC Column: RTX-VMS Method File: VOA23_122024.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
1,2-Dichlorobenzene	1.220	1.279	0.600	-4.8	20 (40)
1,2-Dibromo-3-Chloropropane	0.077	0.089	0.010	-15.6	20 (40)
Hexachlorobutadiene	0.242	0.262	0.050	-8.3	20 (40)
1,2,4-Trichlorobenzene	0.579	0.650	0.400	-12.3	20 (40)
Naphthalene	1.131	1.366	0.050	-20.8 +	20 (40)
1,2,3-Trichlorobenzene	0.455	0.499	0.400	-9.7	20 (40)
% Dibromofluoromethane	0.088	0.093	0.050	-5.7	20 (40)
% Toluene-d8	1.113	1.103	0.050	0.9	20 (40)
% Bromofluorobenzene	0.467	0.480	0.050	-2.8	20 (40)
% 1,2-dichlorobenzene-d4	0.949	0.940	0.050	0.9	20 (40)

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(l) linear (li) linear inv conc wgt (li2) linear inv conc wgt^2 (q) quadratic (qi) quadratic inv conc wgt (qi2) quadratic inv conc wg^2

Compounds not using average response (l, li, li2, q, qi, qi2) display concentrations and not response factors

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS32429

Instrument: CHEM23 Calibration Date: 12/24/24 Time: 18:54

Lab File Id: 1224_34.D Init. Calib. Date(s): 12/23/24 12/23/24

Heated Purge (Y/N): N Init. Calib. Times: 11:25 16:28

GC Column: RTX-VMS Method File: VOA23_122324.M

COMPOUND		RRF	RRF50	RRF MIN	%D	% D LIMITS
Pentafluorobenzene	(IS Area/Area%)	369274	343969	n.a.	93.1	50-200
1,4-Difluorobenzene	(IS Area/Area%)	667417	626812	n.a.	93.9	50-200
Chlorobenzene-d5	(IS Area/Area%)	594736	557429	n.a.	93.7	50-200
1,4-Dichlorobenzene-d4	(IS Area/Area%)	297709	288543	n.a.	96.9	50-200
1,4-Dioxane d8	(IS Area/Area%)	23385	22823	n.a.	97.6	n.a.
Dichlorodifluoromethane		0.631	0.631	0.010	0.0	20 (60)
Chloromethane		0.742	0.776	0.010	-4.6	20 (60)
Vinyl Chloride		0.587	0.616	0.010	-4.9	20 (40)
Bromomethane		0.169	0.174	0.010	-3.0	20 (60)
Chloroethane		0.209	0.217	0.010	-3.8	20 (40)
Trichlorofluoromethane		0.608	0.641	0.010	-5.4	20 (40)
1,1-Dichloroethene		0.370	0.399	0.060	-7.8	20 (40)
Trichlorotrifluoroethane		0.302	0.309	0.050	-2.3	20 (40)
Carbon Disulfide		1.060	1.060	0.100	0.0	20 (40)
Acrolein		0.070	0.072	0.050	-2.9	20 (40)
Methylene Chloride		0.434	0.451	0.010	-3.9	20 (40)
Acetone		0.120	0.133	0.010	-10.8	20 (60)
Trans-1,2-Dichloroethene		0.440	0.448	0.100	-1.8	20 (40)
Methyl t-Butyl Ether (MTBE)		1.009	1.067	0.100	-5.7	20 (40)
1,1-Dichloroethane		0.810	0.869	0.300	-7.3	20 (40)
Acrylonitrile		0.174	0.180	0.050	-3.4	20 (40)
Cis-1,2-Dichloroethene		0.489	0.516	0.200	-5.5	20 (40)
2,2-Dichloropropane		0.590	0.491	0.050	16.8	20 (40)
Bromochloromethane		0.238	0.246	0.100	-3.4	20 (40)
Chloroform		0.865	0.858	0.300	0.8	20 (40)
Carbon Tetrachloride		0.618	0.657	0.100	-6.3	20 (40)
Tetrahydrofuran (THF)		0.178	0.189	0.050	-6.2	20 (40)
1,1,1-Trichloroethane		0.786	0.857	0.050	-9.0	20 (40)
Methyl Ethyl Ketone		0.274	0.301	0.010	-9.9	20 (60)
1,1-Dichloropropene		0.422	0.445	0.050	-5.5	20 (40)
Benzene		1.270	1.344	0.200	-5.8	20 (40)
1,2-Dichloroethane		0.387	0.408	0.070	-5.4	20 (40)
Trichloroethene		0.332	0.355	0.200	-6.9	20 (40)
Dibromomethane		0.188	0.193	0.050	-2.7	20 (40)
1,2-dichloropropane		0.355	0.356	0.200	-0.3	20 (40)

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(l) linear (li) linear inv conc wgt (li2) linear inv conc wgt^2 (q) quadratic (qi) quadratic inv conc wgt (qi2) quadratic inv conc wg^2

Compounds not using average response (l, li, li2, q, qi, qi2) display concentrations and not response factors

7B
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS32429

Instrument: CHEM23 Calibration Date: 12/24/24 Time: 18:54

Lab File Id: 1224_34.D Init. Calib. Date(s): 12/23/24 12/23/24

Heated Purge (Y/N): N Init. Calib. Times: 11:25 16:28

GC Column: RTX-VMS Method File: VOA23_122324.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
Bromodichloromethane	0.367	0.388	0.300	-5.7	20 (40)
cis-1,3-Dichloropropene	0.458	0.482	0.300	-5.2	20 (40)
Toluene	0.793	0.846	0.300	-6.7	20 (40)
4-Methyl-2-Pentanone	0.313	0.337	0.030	-7.7	20 (60)
Tetrachloroethene	0.232	0.252	0.100	-8.6	20 (40)
trans-1,3-Dichloropropene	0.394	0.418	0.300	-6.1	20 (40)
1,1,2-Trichloroethane	0.262	0.272	0.200	-3.8	20 (40)
Dibromochloromethane	0.295	0.334	0.200	-13.2	20 (40)
1,3-Dichloropropane	0.509	0.544	0.050	-6.9	20 (40)
1,2-Dibromoethane	0.306	0.340	0.200	-11.1	20 (40)
2-Hexanone	0.235	0.253	0.010	-7.7	20 (60)
Chlorobenzene	0.924	1.000	0.400	-8.2	20 (40)
Ethylbenzene	0.496	0.539	0.400	-8.7	20 (40)
1,1,1,2-Tetrachloroethane	0.292	0.330	0.050	-13.0	20 (40)
m&p-Xylene	0.598	0.652	0.200	-9.0	20 (40)
o-Xylene	0.576	0.643	0.200	-11.6	20 (40)
Styrene	0.929	1.049	0.200	-12.9	20 (40)
Bromoform	0.167	0.190	0.100	-13.8	20 (40)
Isopropylbenzene	0.773	0.849	0.400	-9.8	20 (40)
Bromobenzene	0.736	0.775	0.050	-5.3	20 (40)
n-Propylbenzene	0.805	0.861	0.050	-7.0	20 (40)
1,1,2,2-Tetrachloroethane	0.800	0.818	0.200	-2.2	20 (40)
2-Chlorotoluene	0.702	0.748	0.050	-6.6	20 (40)
1,3,5-Trimethylbenzene	2.367	2.573	0.050	-8.7	20 (40)
1,2,3-Trichloropropane	0.599	0.597	0.050	0.3	20 (40)
trans-1,4-Dichloro-2-butene	0.241	0.238	0.050	1.2	20 (40)
4-Chlorotoluene	0.735	0.784	0.050	-6.7	20 (40)
tert-Butylbenzene	2.062	2.245	0.050	-8.9	20 (40)
1,2,4-Trimethylbenzene	2.410	2.607	0.050	-8.2	20 (40)
sec-Butylbenzene	3.277	3.489	0.050	-6.5	20 (40)
p-Isopropyltoluene	2.690	2.910	0.050	-8.2	20 (40)
1,3-Dichlorobenzene	1.401	1.464	0.500	-4.5	20 (40)
1,4-Dichlorobenzene	1.432	1.478	0.600	-3.2	20 (40)
2-Isopropyltoluene	2.585	2.765	0.050	-7.0	20 (40)
n-Butylbenzene	2.653	2.789	0.050	-5.1	20 (40)

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(l) linear (li) linear inv conc wgt (li2) linear inv conc wgt^2 (q) quadratic (qi) quadratic inv conc wgt (qi2) quadratic inv conc wg^2

Compounds not using average response (l, li, li2, q, qi, qi2) display concentrations and not response factors

7B
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS32429

Instrument: CHEM23 Calibration Date: 12/24/24 Time: 18:54

Lab File Id: 1224_34.D Init. Calib. Date(s): 12/23/24 12/23/24

Heated Purge (Y/N): N Init. Calib. Times: 11:25 16:28

GC Column: RTX-VMS Method File: VOA23_122324.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
1,2-Dichlorobenzene	1.387	1.438	0.600	-3.7	20 (40)
1,2-Dibromo-3-Chloropropane	0.105	0.122	0.010	-16.2	20 (40)
Hexachlorobutadiene	0.313	0.315	0.050	-0.6	20 (40)
1,2,4-Trichlorobenzene	0.799	0.897	0.400	-12.3	20 (40)
Naphthalene	1.840	2.264	0.050	-23.0 +	20 (40)
1,2,3-Trichlorobenzene	0.738	0.830	0.400	-12.5	20 (40)
% Dibromofluoromethane	0.088	0.091	0.050	-3.4	20 (40)
% Toluene-d8	1.114	1.105	0.050	0.8	20 (40)
% Bromofluorobenzene	0.472	0.473	0.050	-0.2	20 (40)
% 1,2-dichlorobenzene-d4	0.963	0.951	0.050	1.2	20 (40)

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(l) linear (li) linear inv conc wgt (li2) linear inv conc wgt^2 (q) quadratic (qi) quadratic inv conc wgt (qi2) quadratic inv conc wg^2

Compounds not using average response (l, li, li2, q, qi, qi2) display concentrations and not response factors

Field Duplicate Calculation Section

Volatiles

Calculations for Field Duplicate Relative Percent Difference (RPD)
SDG No. GCS32429

S1= IRMW-14 **S2=** DUPLICATE

Analyte	S1	S2	RPD (%)	
1,2,4-Trimethylbenzene	870	870	0%	
2-Isopropyltoluene	ND	**1.3**	NC	
1,3,5-Trimethylbenzene	75	130	54%	*
Benzene	46	42	9%	
Ethylbenzene	400	530	28%	*
Isopropylbenzene	23	34	39%	*
m&p-Xylene	680	900	28%	*
Methyl t-butyl ether (MTBE)	16	16	0%	
Naphthalene	220	350	46%	*
n-Butylbenzene	**3.7**	6.5	NC	
n-Propylbenzene	51	81	45%	*
o-Xylene	250	320	25%	*
p-Isopropyltoluene	ND	**2.8**	NC	
Toluene	210	220	5%	

* RPD is above the allowable maximum 20%.

Results are in units of ug/L.

Bold numbers were values that are below the CRQL.
ND - Not detected.
NC - Not calculated, both results must be above the CRDL for valid RPDs to be calculated.