

LAB CHRONICLE

OrderID:	Q3424	OrderDate:	10/22/2025 11:34:00 AM
Client:	AECOM	Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC -
Contact:	Rob Forstner	Location:	DOCK 3.2.Z-PR-DOCK-Des-ODC -

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3424-01	PR132-DP3-20251021	SOIL	VOC-TCLVOA-10	8260D	10/21/25		10/22/25	10/21/25
Q3424-02	PR132-S11-010080-2 0251021	SOIL	VOC-TCLVOA-10	8260D	10/21/25		10/22/25	10/21/25
Q3424-03	PR132-S14-000094-2 0251021	SOIL	VOC-TCLVOA-10	8260D	10/21/25		10/22/25	10/21/25

Hit Summary Sheet
SW-846

SDG No.: Q3424
Client: AECOM

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: PR132-DP3-20251021								
Q3424-01	PR132-DP3-202510	SOIL	Acetone	33.0	J	12.3	64.7	ug/Kg
Q3424-01	PR132-DP3-202510	SOIL	Carbon Disulfide	16.2		2.70	12.9	ug/Kg
Q3424-01	PR132-DP3-202510	SOIL	Methylcyclohexane	2.80	J	2.40	12.9	ug/Kg
			Total Voc :	52.0				
Q3424-01	PR132-DP3-202510	SOIL	3-Heptene, 2,2,4,6,6-pentameth *	21.2	J	0	0	ug/Kg
Q3424-01	PR132-DP3-202510	SOIL	2-tert-Butyltoluene *	21.9	J	0	0	ug/Kg
Q3424-01	PR132-DP3-202510	SOIL	Heptane, 3-ethyl-2-methyl- *	25.6	J	0	0	ug/Kg
			Total Tics :	68.7				
			Total Concentration:	121				
Client ID: PR132-S11-010080-20251021								
Q3424-02	PR132-S11-010080	SOIL	Acetone	25.7	J	8.20	43.2	ug/Kg
Q3424-02	PR132-S11-010080	SOIL	Carbon Disulfide	10.0		1.80	8.60	ug/Kg
Q3424-02	PR132-S11-010080	SOIL	Methylcyclohexane	2.50	J	1.60	8.60	ug/Kg
			Total Voc :	38.2				
Q3424-02	PR132-S11-010080	SOIL	3-Heptene, 2,2,4,6,6-pentameth *	21.3	J	0	0	ug/Kg
Q3424-02	PR132-S11-010080	SOIL	Benzene, 1-(1,1-dimethylethyl) *	22.3	J	0	0	ug/Kg
Q3424-02	PR132-S11-010080	SOIL	Tert butyl alcohol *	34.2	J	23.7	43.2	ug/Kg
			Total Tics :	77.8				
			Total Concentration:	116				
Client ID: PR132-S14-000094-20251021								
Q3424-03	PR132-S14-000094	SOIL	Acetone	210		10.3	54.5	ug/Kg
Q3424-03	PR132-S14-000094	SOIL	Carbon Disulfide	4.90	J	2.30	10.9	ug/Kg
Q3424-03	PR132-S14-000094	SOIL	2-Butanone	43.5	J	14.3	54.5	ug/Kg
Q3424-03	PR132-S14-000094	SOIL	Methylcyclohexane	5.70	J	2.00	10.9	ug/Kg
Q3424-03	PR132-S14-000094	SOIL	Benzene	5.40	J	1.70	10.9	ug/Kg
Q3424-03	PR132-S14-000094	SOIL	m/p-Xylenes	6.30	J	2.70	21.8	ug/Kg
Q3424-03	PR132-S14-000094	SOIL	o-Xylene	11.4		1.80	10.9	ug/Kg
			Total Voc :	287				
Q3424-03	PR132-S14-000094	SOIL	3-Heptene, 2,2,4,6,6-pentameth *	22.0	J	0	0	ug/Kg
Q3424-03	PR132-S14-000094	SOIL	Heptane, 2,2,6,6-tetramethyl-4- *	25.3	J	0	0	ug/Kg
Q3424-03	PR132-S14-000094	SOIL	Naphthalene, decahydro-2-metl *	17.3	J	0	0	ug/Kg
Q3424-03	PR132-S14-000094	SOIL	Dodecane, 2,6,10-trimethyl- *	24.5	J	0	0	ug/Kg
Q3424-03	PR132-S14-000094	SOIL	Undecane, 2,6-dimethyl- *	16.8	J	0	0	ug/Kg
Q3424-03	PR132-S14-000094	SOIL	Tert butyl alcohol *	160	J	29.9	54.5	ug/Kg
Q3424-03	PR132-S14-000094	SOIL	1,3,5-Trimethylbenzene *	4.00	J	1.80	10.9	ug/Kg
Q3424-03	PR132-S14-000094	SOIL	1,2,4-Trimethylbenzene *	9.30	J	1.40	10.9	ug/Kg
			Total Tics :	279				

Hit Summary Sheet
SW-846

SDG No.: Q3424

Client: AECOM

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Concentration:				566				



SAMPLE DATA

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-DP3-20251021
Lab Sample ID: Q3424-01
Analytical Method: 8260D
Sample Wt/Vol: 4.21 g

Level : LOW
Final Vol: 5000 uL

Date Collected: 10/21/25
Date Received: 10/21/25
SDG No.: Q3424
Matrix: SOIL
% Solid: 45.9
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	12.9	U	1	2.90	12.9	ug/Kg	10/22/25 16:46	VY102225
74-87-3	Chloromethane	12.9	U	1	2.90	12.9	ug/Kg	10/22/25 16:46	VY102225
75-01-4	Vinyl Chloride	12.9	U	1	2.00	12.9	ug/Kg	10/22/25 16:46	VY102225
74-83-9	Bromomethane	12.9	U	1	2.80	12.9	ug/Kg	10/22/25 16:46	VY102225
75-00-3	Chloroethane	12.9	U	1	3.30	12.9	ug/Kg	10/22/25 16:46	VY102225
75-69-4	Trichlorofluoromethane	12.9	U	1	3.10	12.9	ug/Kg	10/22/25 16:46	VY102225
76-13-1	1,1,2-Trichlorotrifluoroethane	12.9	U	1	2.70	12.9	ug/Kg	10/22/25 16:46	VY102225
75-35-4	1,1-Dichloroethene	12.9	U	1	2.60	12.9	ug/Kg	10/22/25 16:46	VY102225
67-64-1	Acetone	33.0	J	1	12.3	64.7	ug/Kg	10/22/25 16:46	VY102225
75-15-0	Carbon Disulfide	16.2		1	2.70	12.9	ug/Kg	10/22/25 16:46	VY102225
1634-04-4	Methyl tert-butyl Ether	12.9	U	1	1.90	12.9	ug/Kg	10/22/25 16:46	VY102225
79-20-9	Methyl Acetate	12.9	U	1	4.00	12.9	ug/Kg	10/22/25 16:46	VY102225
75-09-2	Methylene Chloride	25.9	U	1	9.10	25.9	ug/Kg	10/22/25 16:46	VY102225
156-60-5	trans-1,2-Dichloroethene	12.9	U	1	2.20	12.9	ug/Kg	10/22/25 16:46	VY102225
75-34-3	1,1-Dichloroethane	12.9	U	1	2.10	12.9	ug/Kg	10/22/25 16:46	VY102225
110-82-7	Cyclohexane	12.9	U	1	2.00	12.9	ug/Kg	10/22/25 16:46	VY102225
78-93-3	2-Butanone	64.7	U	1	16.9	64.7	ug/Kg	10/22/25 16:46	VY102225
56-23-5	Carbon Tetrachloride	12.9	U	1	2.50	12.9	ug/Kg	10/22/25 16:46	VY102225
156-59-2	cis-1,2-Dichloroethene	12.9	U	1	1.90	12.9	ug/Kg	10/22/25 16:46	VY102225
74-97-5	Bromochloromethane	12.9	U	1	3.00	12.9	ug/Kg	10/22/25 16:46	VY102225
67-66-3	Chloroform	12.9	U	1	2.20	12.9	ug/Kg	10/22/25 16:46	VY102225
71-55-6	1,1,1-Trichloroethane	12.9	U	1	2.40	12.9	ug/Kg	10/22/25 16:46	VY102225
108-87-2	Methylcyclohexane	2.80	J	1	2.40	12.9	ug/Kg	10/22/25 16:46	VY102225
71-43-2	Benzene	12.9	U	1	2.00	12.9	ug/Kg	10/22/25 16:46	VY102225
107-06-2	1,2-Dichloroethane	12.9	U	1	2.00	12.9	ug/Kg	10/22/25 16:46	VY102225
79-01-6	Trichloroethene	12.9	U	1	2.10	12.9	ug/Kg	10/22/25 16:46	VY102225
78-87-5	1,2-Dichloropropane	12.9	U	1	2.40	12.9	ug/Kg	10/22/25 16:46	VY102225
75-27-4	Bromodichloromethane	12.9	U	1	2.00	12.9	ug/Kg	10/22/25 16:46	VY102225
108-10-1	4-Methyl-2-Pentanone	64.7	U	1	9.30	64.7	ug/Kg	10/22/25 16:46	VY102225
108-88-3	Toluene	12.9	U	1	2.00	12.9	ug/Kg	10/22/25 16:46	VY102225
10061-02-6	t-1,3-Dichloropropene	12.9	U	1	1.70	12.9	ug/Kg	10/22/25 16:46	VY102225
10061-01-5	cis-1,3-Dichloropropene	12.9	U	1	1.60	12.9	ug/Kg	10/22/25 16:46	VY102225
79-00-5	1,1,2-Trichloroethane	12.9	U	1	2.40	12.9	ug/Kg	10/22/25 16:46	VY102225
591-78-6	2-Hexanone	64.7	U	1	9.50	64.7	ug/Kg	10/22/25 16:46	VY102225
124-48-1	Dibromochloromethane	12.9	U	1	2.30	12.9	ug/Kg	10/22/25 16:46	VY102225
106-93-4	1,2-Dibromoethane	12.9	U	1	2.30	12.9	ug/Kg	10/22/25 16:46	VY102225
127-18-4	Tetrachloroethene	12.9	U	1	2.70	12.9	ug/Kg	10/22/25 16:46	VY102225
108-90-7	Chlorobenzene	12.9	U	1	2.40	12.9	ug/Kg	10/22/25 16:46	VY102225
100-41-4	Ethyl Benzene	12.9	U	1	1.70	12.9	ug/Kg	10/22/25 16:46	VY102225
179601-23-1	m/p-Xylenes	25.9	U	1	3.20	25.9	ug/Kg	10/22/25 16:46	VY102225
95-47-6	o-Xylene	12.9	U	1	2.10	12.9	ug/Kg	10/22/25 16:46	VY102225
100-42-5	Styrene	12.9	U	1	1.80	12.9	ug/Kg	10/22/25 16:46	VY102225
75-25-2	Bromoform	12.9	U	1	2.20	12.9	ug/Kg	10/22/25 16:46	VY102225

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-DP3-20251021
Lab Sample ID: Q3424-01
Analytical Method: 8260D
Sample Wt/Vol: 4.21 g

Level : LOW
Final Vol: 5000 uL

Date Collected: 10/21/25
Date Received: 10/21/25
SDG No.: Q3424
Matrix: SOIL
% Solid: 45.9
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	12.9	U	1	2.00	12.9	ug/Kg	10/22/25 16:46	VY102225
79-34-5	1,1,2,2-Tetrachloroethane	12.9	U	1	3.10	12.9	ug/Kg	10/22/25 16:46	VY102225
541-73-1	1,3-Dichlorobenzene	12.9	U	1	4.40	12.9	ug/Kg	10/22/25 16:46	VY102225
106-46-7	1,4-Dichlorobenzene	12.9	U	1	4.00	12.9	ug/Kg	10/22/25 16:46	VY102225
95-50-1	1,2-Dichlorobenzene	12.9	U	1	3.80	12.9	ug/Kg	10/22/25 16:46	VY102225
96-12-8	1,2-Dibromo-3-Chloropropane	12.9	U	1	4.80	12.9	ug/Kg	10/22/25 16:46	VY102225
120-82-1	1,2,4-Trichlorobenzene	12.9	U	1	7.70	12.9	ug/Kg	10/22/25 16:46	VY102225
87-61-6	1,2,3-Trichlorobenzene	12.9	U	1	8.20	12.9	ug/Kg	10/22/25 16:46	VY102225
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	53.2			63 - 155	106%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.5			70 - 134	101%	SPK: 50		
2037-26-5	Toluene-d8	49.8			74 - 123	100%	SPK: 50		
460-00-4	4-Bromofluorobenzene	45.5			17 - 146	91%	SPK: 50		
INTERNAL STANDARDS									
363-72-4	Pentafluorobenzene	830000							
540-36-3	1,4-Difluorobenzene	1360000							
3114-55-4	Chlorobenzene-d5	1160000							
3855-82-1	1,4-Dichlorobenzene-d4	482000							
TENTATIVE IDENTIFIED COMPOUNDS									
014676-29-0	Heptane, 3-ethyl-2-methyl-	25.6	J			12.2	ug/Kg		
000123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-	21.2	J			12.9	ug/Kg		
001074-92-6	2-tert-Butyltoluene	21.9	J			13.9	ug/Kg		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-S11-010080-202510
Lab Sample ID: Q3424-02
Analytical Method: 8260D
Sample Wt/Vol: 5.78 g

Level : LOW
Final Vol: 5000 uL

Date Collected: 10/21/25
Date Received: 10/21/25
SDG No.: Q3424
Matrix: SOIL
% Solid: 50.1
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	8.60	U	1	2.00	8.60	ug/Kg	10/22/25 17:10	VY102225
74-87-3	Chloromethane	8.60	U	1	2.00	8.60	ug/Kg	10/22/25 17:10	VY102225
75-01-4	Vinyl Chloride	8.60	U	1	1.40	8.60	ug/Kg	10/22/25 17:10	VY102225
74-83-9	Bromomethane	8.60	U	1	1.80	8.60	ug/Kg	10/22/25 17:10	VY102225
75-00-3	Chloroethane	8.60	U	1	2.20	8.60	ug/Kg	10/22/25 17:10	VY102225
75-69-4	Trichlorofluoromethane	8.60	U	1	2.10	8.60	ug/Kg	10/22/25 17:10	VY102225
76-13-1	1,1,2-Trichlorotrifluoroethane	8.60	U	1	1.80	8.60	ug/Kg	10/22/25 17:10	VY102225
75-35-4	1,1-Dichloroethene	8.60	U	1	1.70	8.60	ug/Kg	10/22/25 17:10	VY102225
67-64-1	Acetone	25.7	J	1	8.20	43.2	ug/Kg	10/22/25 17:10	VY102225
75-15-0	Carbon Disulfide	10.0		1	1.80	8.60	ug/Kg	10/22/25 17:10	VY102225
1634-04-4	Methyl tert-butyl Ether	8.60	U	1	1.30	8.60	ug/Kg	10/22/25 17:10	VY102225
79-20-9	Methyl Acetate	8.60	U	1	2.70	8.60	ug/Kg	10/22/25 17:10	VY102225
75-09-2	Methylene Chloride	17.3	U	1	6.10	17.3	ug/Kg	10/22/25 17:10	VY102225
156-60-5	trans-1,2-Dichloroethene	8.60	U	1	1.50	8.60	ug/Kg	10/22/25 17:10	VY102225
75-34-3	1,1-Dichloroethane	8.60	U	1	1.40	8.60	ug/Kg	10/22/25 17:10	VY102225
110-82-7	Cyclohexane	8.60	U	1	1.40	8.60	ug/Kg	10/22/25 17:10	VY102225
78-93-3	2-Butanone	43.2	U	1	11.3	43.2	ug/Kg	10/22/25 17:10	VY102225
56-23-5	Carbon Tetrachloride	8.60	U	1	1.70	8.60	ug/Kg	10/22/25 17:10	VY102225
156-59-2	cis-1,2-Dichloroethene	8.60	U	1	1.30	8.60	ug/Kg	10/22/25 17:10	VY102225
74-97-5	Bromochloromethane	8.60	U	1	2.00	8.60	ug/Kg	10/22/25 17:10	VY102225
67-66-3	Chloroform	8.60	U	1	1.50	8.60	ug/Kg	10/22/25 17:10	VY102225
71-55-6	1,1,1-Trichloroethane	8.60	U	1	1.60	8.60	ug/Kg	10/22/25 17:10	VY102225
108-87-2	Methylcyclohexane	2.50	J	1	1.60	8.60	ug/Kg	10/22/25 17:10	VY102225
71-43-2	Benzene	8.60	U	1	1.40	8.60	ug/Kg	10/22/25 17:10	VY102225
107-06-2	1,2-Dichloroethane	8.60	U	1	1.40	8.60	ug/Kg	10/22/25 17:10	VY102225
79-01-6	Trichloroethene	8.60	U	1	1.40	8.60	ug/Kg	10/22/25 17:10	VY102225
78-87-5	1,2-Dichloropropane	8.60	U	1	1.60	8.60	ug/Kg	10/22/25 17:10	VY102225
75-27-4	Bromodichloromethane	8.60	U	1	1.30	8.60	ug/Kg	10/22/25 17:10	VY102225
108-10-1	4-Methyl-2-Pentanone	43.2	U	1	6.20	43.2	ug/Kg	10/22/25 17:10	VY102225
108-88-3	Toluene	8.60	U	1	1.30	8.60	ug/Kg	10/22/25 17:10	VY102225
10061-02-6	t-1,3-Dichloropropene	8.60	U	1	1.10	8.60	ug/Kg	10/22/25 17:10	VY102225
10061-01-5	cis-1,3-Dichloropropene	8.60	U	1	1.10	8.60	ug/Kg	10/22/25 17:10	VY102225
79-00-5	1,1,2-Trichloroethane	8.60	U	1	1.60	8.60	ug/Kg	10/22/25 17:10	VY102225
591-78-6	2-Hexanone	43.2	U	1	6.40	43.2	ug/Kg	10/22/25 17:10	VY102225
124-48-1	Dibromochloromethane	8.60	U	1	1.50	8.60	ug/Kg	10/22/25 17:10	VY102225
106-93-4	1,2-Dibromoethane	8.60	U	1	1.50	8.60	ug/Kg	10/22/25 17:10	VY102225
127-18-4	Tetrachloroethene	8.60	U	1	1.80	8.60	ug/Kg	10/22/25 17:10	VY102225
108-90-7	Chlorobenzene	8.60	U	1	1.60	8.60	ug/Kg	10/22/25 17:10	VY102225
100-41-4	Ethyl Benzene	8.60	U	1	1.20	8.60	ug/Kg	10/22/25 17:10	VY102225
179601-23-1	m/p-Xylenes	17.3	U	1	2.10	17.3	ug/Kg	10/22/25 17:10	VY102225
95-47-6	o-Xylene	8.60	U	1	1.40	8.60	ug/Kg	10/22/25 17:10	VY102225
100-42-5	Styrene	8.60	U	1	1.20	8.60	ug/Kg	10/22/25 17:10	VY102225
75-25-2	Bromoform	8.60	U	1	1.50	8.60	ug/Kg	10/22/25 17:10	VY102225

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-S11-010080-202510
Lab Sample ID: Q3424-02
Analytical Method: 8260D
Sample Wt/Vol: 5.78 g

Level : LOW
Final Vol: 5000 uL

Date Collected: 10/21/25
Date Received: 10/21/25
SDG No.: Q3424
Matrix: SOIL
% Solid: 50.1
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	8.60	U	1	1.30	8.60	ug/Kg	10/22/25 17:10	VY102225
79-34-5	1,1,2,2-Tetrachloroethane	8.60	U	1	2.10	8.60	ug/Kg	10/22/25 17:10	VY102225
541-73-1	1,3-Dichlorobenzene	8.60	U	1	3.00	8.60	ug/Kg	10/22/25 17:10	VY102225
106-46-7	1,4-Dichlorobenzene	8.60	U	1	2.70	8.60	ug/Kg	10/22/25 17:10	VY102225
95-50-1	1,2-Dichlorobenzene	8.60	U	1	2.50	8.60	ug/Kg	10/22/25 17:10	VY102225
96-12-8	1,2-Dibromo-3-Chloropropane	8.60	U	1	3.20	8.60	ug/Kg	10/22/25 17:10	VY102225
120-82-1	1,2,4-Trichlorobenzene	8.60	U	1	5.10	8.60	ug/Kg	10/22/25 17:10	VY102225
87-61-6	1,2,3-Trichlorobenzene	8.60	U	1	5.50	8.60	ug/Kg	10/22/25 17:10	VY102225
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	58.0			63 - 155	116%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.2			70 - 134	102%	SPK: 50		
2037-26-5	Toluene-d8	49.7			74 - 123	99%	SPK: 50		
460-00-4	4-Bromofluorobenzene	47.3			17 - 146	95%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	808000							
540-36-3	1,4-Difluorobenzene	1340000							
3114-55-4	Chlorobenzene-d5	1150000							
3855-82-1	1,4-Dichlorobenzene-d4	478000							
TENTATIVE IDENTIFIED COMPOUNDS									
75-65-0	Tert butyl alcohol	34.2	J			4.87	ug/Kg		
000123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-	21.3	J			12.9	ug/Kg		
001075-38-3	Benzene, 1-(1,1-dimethylethyl)-3-m	22.3	J			13.9	ug/Kg		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-S14-000094-202510
Lab Sample ID: Q3424-03
Analytical Method: 8260D
Sample Wt/Vol: 4.58 g

Level : LOW
Final Vol: 5000 uL

Date Collected: 10/21/25
Date Received: 10/21/25
SDG No.: Q3424
Matrix: SOIL
% Solid: 50.1
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	10.9	U	1	2.50	10.9	ug/Kg	10/22/25 17:35	VY102225
74-87-3	Chloromethane	10.9	U	1	2.50	10.9	ug/Kg	10/22/25 17:35	VY102225
75-01-4	Vinyl Chloride	10.9	U	1	1.70	10.9	ug/Kg	10/22/25 17:35	VY102225
74-83-9	Bromomethane	10.9	U	1	2.30	10.9	ug/Kg	10/22/25 17:35	VY102225
75-00-3	Chloroethane	10.9	U	1	2.70	10.9	ug/Kg	10/22/25 17:35	VY102225
75-69-4	Trichlorofluoromethane	10.9	U	1	2.60	10.9	ug/Kg	10/22/25 17:35	VY102225
76-13-1	1,1,2-Trichlorotrifluoroethane	10.9	U	1	2.30	10.9	ug/Kg	10/22/25 17:35	VY102225
75-35-4	1,1-Dichloroethene	10.9	U	1	2.20	10.9	ug/Kg	10/22/25 17:35	VY102225
67-64-1	Acetone	210		1	10.3	54.5	ug/Kg	10/22/25 17:35	VY102225
75-15-0	Carbon Disulfide	4.90	J	1	2.30	10.9	ug/Kg	10/22/25 17:35	VY102225
1634-04-4	Methyl tert-butyl Ether	10.9	U	1	1.60	10.9	ug/Kg	10/22/25 17:35	VY102225
79-20-9	Methyl Acetate	10.9	U	1	3.40	10.9	ug/Kg	10/22/25 17:35	VY102225
75-09-2	Methylene Chloride	21.8	U	1	7.70	21.8	ug/Kg	10/22/25 17:35	VY102225
156-60-5	trans-1,2-Dichloroethene	10.9	U	1	1.90	10.9	ug/Kg	10/22/25 17:35	VY102225
75-34-3	1,1-Dichloroethane	10.9	U	1	1.70	10.9	ug/Kg	10/22/25 17:35	VY102225
110-82-7	Cyclohexane	10.9	U	1	1.70	10.9	ug/Kg	10/22/25 17:35	VY102225
78-93-3	2-Butanone	43.5	J	1	14.3	54.5	ug/Kg	10/22/25 17:35	VY102225
56-23-5	Carbon Tetrachloride	10.9	U	1	2.10	10.9	ug/Kg	10/22/25 17:35	VY102225
156-59-2	cis-1,2-Dichloroethene	10.9	U	1	1.60	10.9	ug/Kg	10/22/25 17:35	VY102225
74-97-5	Bromochloromethane	10.9	U	1	2.50	10.9	ug/Kg	10/22/25 17:35	VY102225
67-66-3	Chloroform	10.9	U	1	1.80	10.9	ug/Kg	10/22/25 17:35	VY102225
71-55-6	1,1,1-Trichloroethane	10.9	U	1	2.00	10.9	ug/Kg	10/22/25 17:35	VY102225
108-87-2	Methylcyclohexane	5.70	J	1	2.00	10.9	ug/Kg	10/22/25 17:35	VY102225
71-43-2	Benzene	5.40	J	1	1.70	10.9	ug/Kg	10/22/25 17:35	VY102225
107-06-2	1,2-Dichloroethane	10.9	U	1	1.70	10.9	ug/Kg	10/22/25 17:35	VY102225
79-01-6	Trichloroethene	10.9	U	1	1.80	10.9	ug/Kg	10/22/25 17:35	VY102225
78-87-5	1,2-Dichloropropane	10.9	U	1	2.00	10.9	ug/Kg	10/22/25 17:35	VY102225
75-27-4	Bromodichloromethane	10.9	U	1	1.70	10.9	ug/Kg	10/22/25 17:35	VY102225
108-10-1	4-Methyl-2-Pentanone	54.5	U	1	7.80	54.5	ug/Kg	10/22/25 17:35	VY102225
108-88-3	Toluene	10.9	U	1	1.70	10.9	ug/Kg	10/22/25 17:35	VY102225
10061-02-6	t-1,3-Dichloropropene	10.9	U	1	1.40	10.9	ug/Kg	10/22/25 17:35	VY102225
10061-01-5	cis-1,3-Dichloropropene	10.9	U	1	1.40	10.9	ug/Kg	10/22/25 17:35	VY102225
79-00-5	1,1,2-Trichloroethane	10.9	U	1	2.00	10.9	ug/Kg	10/22/25 17:35	VY102225
591-78-6	2-Hexanone	54.5	U	1	8.00	54.5	ug/Kg	10/22/25 17:35	VY102225
124-48-1	Dibromochloromethane	10.9	U	1	1.90	10.9	ug/Kg	10/22/25 17:35	VY102225
106-93-4	1,2-Dibromoethane	10.9	U	1	1.90	10.9	ug/Kg	10/22/25 17:35	VY102225
127-18-4	Tetrachloroethene	10.9	U	1	2.30	10.9	ug/Kg	10/22/25 17:35	VY102225
108-90-7	Chlorobenzene	10.9	U	1	2.00	10.9	ug/Kg	10/22/25 17:35	VY102225
100-41-4	Ethyl Benzene	10.9	U	1	1.50	10.9	ug/Kg	10/22/25 17:35	VY102225
179601-23-1	m/p-Xylenes	6.30	J	1	2.70	21.8	ug/Kg	10/22/25 17:35	VY102225
95-47-6	o-Xylene	11.4		1	1.80	10.9	ug/Kg	10/22/25 17:35	VY102225
100-42-5	Styrene	10.9	U	1	1.50	10.9	ug/Kg	10/22/25 17:35	VY102225
75-25-2	Bromoform	10.9	U	1	1.90	10.9	ug/Kg	10/22/25 17:35	VY102225

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-S14-000094-202510
Lab Sample ID: Q3424-03
Analytical Method: 8260D
Sample Wt/Vol: 4.58 g

Level : LOW
Final Vol: 5000 uL

Date Collected: 10/21/25
Date Received: 10/21/25
SDG No.: Q3424
Matrix: SOIL
% Solid: 50.1
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	10.9	U	1	1.70	10.9	ug/Kg	10/22/25 17:35	VY102225
79-34-5	1,1,2,2-Tetrachloroethane	10.9	U	1	2.60	10.9	ug/Kg	10/22/25 17:35	VY102225
541-73-1	1,3-Dichlorobenzene	10.9	U	1	3.70	10.9	ug/Kg	10/22/25 17:35	VY102225
106-46-7	1,4-Dichlorobenzene	10.9	U	1	3.40	10.9	ug/Kg	10/22/25 17:35	VY102225
95-50-1	1,2-Dichlorobenzene	10.9	U	1	3.20	10.9	ug/Kg	10/22/25 17:35	VY102225
96-12-8	1,2-Dibromo-3-Chloropropane	10.9	U	1	4.00	10.9	ug/Kg	10/22/25 17:35	VY102225
120-82-1	1,2,4-Trichlorobenzene	10.9	U	1	6.50	10.9	ug/Kg	10/22/25 17:35	VY102225
87-61-6	1,2,3-Trichlorobenzene	10.9	U	1	6.90	10.9	ug/Kg	10/22/25 17:35	VY102225

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	51.1			63 - 155	102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8			70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	49.9			74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3			17 - 146	89%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	767000
540-36-3	1,4-Difluorobenzene	1220000
3114-55-4	Chlorobenzene-d5	1040000
3855-82-1	1,4-Dichlorobenzene-d4	408000

TENTATIVE IDENTIFIED COMPOUNDS

75-65-0	Tert butyl alcohol	160	J		4.87	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	4.00	J		12.7	ug/Kg
000141-70-8	Heptane, 2,2,6,6-tetramethyl-4-met	25.3	J		12.9	ug/Kg
000123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-	22.0	J		12.9	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	9.30	J		13.0	ug/Kg
002958-76-1	Naphthalene, decahydro-2-methyl-	17.3	J		14.2	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	16.8	J		14.6	ug/Kg
003891-98-3	Dodecane, 2,6,10-trimethyl-	24.5	J		16.0	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SDG No.: Q3424

Client: AECOM

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3424-01	PR132-DP3-20251021	1,2-Dichloroethane-d4	50	53.2	106		63	155
		Dibromofluoromethane	50	50.5	101		70	134
		Toluene-d8	50	49.8	100		74	123
		4-Bromofluorobenzene	50	45.5	91		17	146
Q3424-02	PR132-S11-010080-20251021	1,2-Dichloroethane-d4	50	58.0	116		63	155
		Dibromofluoromethane	50	51.2	102		70	134
		Toluene-d8	50	49.7	99		74	123
		4-Bromofluorobenzene	50	47.3	95		17	146
Q3424-03	PR132-S14-000094-20251021	1,2-Dichloroethane-d4	50	51.1	102		63	155
		Dibromofluoromethane	50	50.8	102		70	134
		Toluene-d8	50	49.9	100		74	123
		4-Bromofluorobenzene	50	44.3	89		17	146
VY1022SBL01	VY1022SBL01	1,2-Dichloroethane-d4	50	48.3	97		63	155
		Dibromofluoromethane	50	49.8	100		70	134
		Toluene-d8	50	48.6	97		74	123
		4-Bromofluorobenzene	50	41.1	82		17	146
VY1022SBS01	VY1022SBS01	1,2-Dichloroethane-d4	50	45.7	91		63	155
		Dibromofluoromethane	50	49.3	99		70	134
		Toluene-d8	50	49.8	100		74	123
		4-Bromofluorobenzene	50	49.3	99		17	146
VY1022SBSD01	VY1022SBSD01	1,2-Dichloroethane-d4	50	45.1	90		63	155
		Dibromofluoromethane	50	49.3	99		70	134
		Toluene-d8	50	48.6	97		74	123
		4-Bromofluorobenzene	50	48.7	97		17	146

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3424 Analytical Method: SW8260D

Client: AECOM Datafile : VY023545.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1022SBS01	Dichlorodifluoromethane	20	20.0	ug/Kg	100			64	136	
	Chloromethane	20	18.0	ug/Kg	90			52	151	
	Vinyl chloride	20	18.7	ug/Kg	94			56	148	
	Bromomethane	20	20.0	ug/Kg	100			58	141	
	Chloroethane	20	19.8	ug/Kg	99			69	130	
	Trichlorofluoromethane	20	20.2	ug/Kg	101			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.3	ug/Kg	106			81	123	
	1,1-Dichloroethene	20	20.7	ug/Kg	104			79	121	
	Acetone	100	130	ug/Kg	130			40	171	
	Carbon disulfide	20	19.3	ug/Kg	97			59	130	
	Methyl tert-butyl Ether	20	19.8	ug/Kg	99			77	129	
	Methyl Acetate	20	17.3	ug/Kg	86			69	149	
	Methylene Chloride	20	18.4	ug/Kg	92			72	131	
	trans-1,2-Dichloroethene	20	20.4	ug/Kg	102			80	123	
	1,1-Dichloroethane	20	20.5	ug/Kg	103			82	123	
	Cyclohexane	20	19.3	ug/Kg	97			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	21.4	ug/Kg	107			76	129	
	cis-1,2-Dichloroethene	20	21.2	ug/Kg	106			82	123	
	Bromochloromethane	20	19.3	ug/Kg	97			80	127	
	Chloroform	20	21.2	ug/Kg	106			82	125	
	1,1,1-Trichloroethane	20	21.3	ug/Kg	106			80	126	
	Methylcyclohexane	20	20.7	ug/Kg	104			77	123	
	Benzene	20	21.2	ug/Kg	106			84	121	
	1,2-Dichloroethane	20	19.8	ug/Kg	99			81	126	
	Trichloroethene	20	21.9	ug/Kg	110			83	122	
	1,2-Dichloropropane	20	21.0	ug/Kg	105			83	122	
	Bromodichloromethane	20	21.2	ug/Kg	106			82	123	
	4-Methyl-2-Pentanone	100	96.0	ug/Kg	96			70	135	
	Toluene	20	22.0	ug/Kg	110			83	122	
	t-1,3-Dichloropropene	20	21.0	ug/Kg	105			78	124	
	cis-1,3-Dichloropropene	20	20.9	ug/Kg	104			81	122	
	1,1,2-Trichloroethane	20	21.6	ug/Kg	108			82	125	
	2-Hexanone	100	110	ug/Kg	110			66	138	
	Dibromochloromethane	20	21.4	ug/Kg	107			79	125	
	1,2-Dibromoethane	20	21.2	ug/Kg	106			80	125	
	Tetrachloroethene	20	22.9	ug/Kg	115			83	125	
	Chlorobenzene	20	21.4	ug/Kg	107			84	122	
	Ethyl Benzene	20	21.2	ug/Kg	106			82	124	
	m/p-Xylenes	40	43.3	ug/Kg	108			83	124	
	o-Xylene	20	21.6	ug/Kg	108			83	123	
	Styrene	20	21.3	ug/Kg	106			82	124	
	Bromoform	20	20.5	ug/Kg	103			75	127	
	Isopropylbenzene	20	21.7	ug/Kg	109			82	124	
	1,1,2,2-Tetrachloroethane	20	19.2	ug/Kg	96			77	127	
	1,3-Dichlorobenzene	20	21.3	ug/Kg	106			83	122	
	1,4-Dichlorobenzene	20	21.1	ug/Kg	106			84	121	
	1,2-Dichlorobenzene	20	21.3	ug/Kg	106			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3424</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>AECOM</u>	Datafile :	<u>VY023545.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY1022SBS01	1,2-Dibromo-3-Chloropropane	20	18.8	ug/Kg	94			66	134	
	1,2,4-Trichlorobenzene	20	20.4	ug/Kg	102			78	127	
	1,2,3-Trichlorobenzene	20	19.8	ug/Kg	99			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SDG No.:	<u>Q3424</u>	SW-846	Analytical Method:	<u>SW8260D</u>
Client:	<u>AECOM</u>		Datafile :	<u>VY023546.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1022SBSD01	Dichlorodifluoromethane	20	19.5	ug/Kg	98	2		64	136	20
	Chloromethane	20	17.5	ug/Kg	88	2		52	151	20
	Vinyl chloride	20	18.3	ug/Kg	92	2		56	148	20
	Bromomethane	20	19.0	ug/Kg	95	5		58	141	20
	Chloroethane	20	18.9	ug/Kg	95	4		69	130	20
	Trichlorofluoromethane	20	19.5	ug/Kg	98	3		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/Kg	102	4		81	123	20
	1,1-Dichloroethene	20	19.9	ug/Kg	100	4		79	121	20
	Acetone	100	120	ug/Kg	120	8		40	171	20
	Carbon disulfide	20	18.8	ug/Kg	94	3		59	130	20
	Methyl tert-butyl Ether	20	19.3	ug/Kg	97	2		77	129	20
	Methyl Acetate	20	16.0	ug/Kg	80	7		69	149	20
	Methylene Chloride	20	18.0	ug/Kg	90	2		72	131	20
	trans-1,2-Dichloroethene	20	20.1	ug/Kg	101	1		80	123	20
	1,1-Dichloroethane	20	19.9	ug/Kg	100	3		82	123	20
	Cyclohexane	20	18.5	ug/Kg	93	4		76	122	20
	2-Butanone	100	110	ug/Kg	110	0		69	131	20
	Carbon Tetrachloride	20	20.5	ug/Kg	103	4		76	129	20
	cis-1,2-Dichloroethene	20	20.7	ug/Kg	104	2		82	123	20
	Bromochloromethane	20	19.3	ug/Kg	97	0		80	127	20
	Chloroform	20	20.6	ug/Kg	103	3		82	125	20
	1,1,1-Trichloroethane	20	20.7	ug/Kg	104	2		80	126	20
	Methylcyclohexane	20	20.0	ug/Kg	100	4		77	123	20
	Benzene	20	20.7	ug/Kg	104	2		84	121	20
	1,2-Dichloroethane	20	19.4	ug/Kg	97	2		81	126	20
	Trichloroethene	20	21.2	ug/Kg	106	4		83	122	20
	1,2-Dichloropropane	20	20.3	ug/Kg	102	3		83	122	20
	Bromodichloromethane	20	20.7	ug/Kg	104	2		82	123	20
	4-Methyl-2-Pentanone	100	91.4	ug/Kg	91	5		70	135	20
	Toluene	20	21.2	ug/Kg	106	4		83	122	20
	t-1,3-Dichloropropene	20	20.1	ug/Kg	101	4		78	124	20
	cis-1,3-Dichloropropene	20	20.4	ug/Kg	102	2		81	122	20
	1,1,2-Trichloroethane	20	21.2	ug/Kg	106	2		82	125	20
	2-Hexanone	100	100	ug/Kg	100	10		66	138	20
	Dibromochloromethane	20	20.7	ug/Kg	104	3		79	125	20
	1,2-Dibromoethane	20	20.5	ug/Kg	103	3		80	125	20
	Tetrachloroethene	20	22.3	ug/Kg	112	3		83	125	20
	Chlorobenzene	20	21.0	ug/Kg	105	2		84	122	20
	Ethyl Benzene	20	20.8	ug/Kg	104	2		82	124	20
	m/p-Xylenes	40	42.2	ug/Kg	106	2		83	124	20
	o-Xylene	20	21.1	ug/Kg	106	2		83	123	20
	Styrene	20	21.2	ug/Kg	106	0		82	124	20
	Bromoform	20	20.3	ug/Kg	102	1		75	127	20
	Isopropylbenzene	20	20.8	ug/Kg	104	5		82	124	20
	1,1,2,2-Tetrachloroethane	20	19.2	ug/Kg	96	0		77	127	20
	1,3-Dichlorobenzene	20	20.8	ug/Kg	104	2		83	122	20
	1,4-Dichlorobenzene	20	20.7	ug/Kg	104	2		84	121	20
	1,2-Dichlorobenzene	20	20.9	ug/Kg	104	2		83	124	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3424

Analytical Method: SW8260D

Client: AECOM

Datafile : VY023546.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY1022SBSD01	1,2-Dibromo-3-Chloropropane	20	19.0	ug/Kg	95	1		66	134	20
	1,2,4-Trichlorobenzene	20	20.2	ug/Kg	101	1		78	127	20
	1,2,3-Trichlorobenzene	20	19.5	ug/Kg	98	1		70	137	20

VOLATILE METHOD BLANK SUMMARY

Client ID

VY1022SBL01

Lab Name: Alliance

Contract: AECO02

Lab Code: ACE

SDG NO.: Q3424

Lab File ID: VY023544.D

Lab Sample ID: VY1022SBL01

Date Analyzed: 10/22/2025

Time Analyzed: 10:00

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1022SBS01	VY1022SBS01	VY023545.D	10/22/2025
VY1022SBSD01	VY1022SBSD01	VY023546.D	10/22/2025
PR132-DP3-20251021	Q3424-01	VY023555.D	10/22/2025
PR132-S11-010080-20251021	Q3424-02	VY023556.D	10/22/2025
PR132-S14-000094-20251021	Q3424-03	VY023557.D	10/22/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: AECO02

Lab Code: ACE

SDG NO.: Q3424

Lab File ID: VY023383.D

BFB Injection Date: 10/07/2025

Instrument ID: MSVOA_Y

BFB Injection Time: 08:43

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.9
75	30.0 - 60.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.9 (0.9) 1
174	50.0 - 100.0% of mass 95	99.1
175	5.0 - 9.0% of mass 174	7.3 (7.4) 1
176	95.0 - 101.0% of mass 174	95.4 (96.2) 1
177	5.0 - 9.0% of mass 176	6.3 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY023384.D	10/07/2025	09:17
VSTDIC010	VSTDIC010	VY023385.D	10/07/2025	10:02
VSTDIC020	VSTDIC020	VY023386.D	10/07/2025	11:24
VSTDIC050	VSTDIC050	VY023387.D	10/07/2025	11:47
VSTDIC100	VSTDIC100	VY023388.D	10/07/2025	12:09
VSTDIC150	VSTDIC150	VY023389.D	10/07/2025	12:32

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: AECO02

Lab Code: ACE

SDG NO.: Q3424

Lab File ID: VY023542.D

BFB Injection Date: 10/22/2025

Instrument ID: MSVOA_Y

BFB Injection Time: 09:00

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.8
75	30.0 - 60.0% of mass 95	47.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1 (1) 1
174	50.0 - 100.0% of mass 95	99.3
175	5.0 - 9.0% of mass 174	7.2 (7.2) 1
176	95.0 - 101.0% of mass 174	97.5 (98.2) 1
177	5.0 - 9.0% of mass 176	6.3 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY023543.D	10/22/2025	09:30
VY1022SBL01	VY1022SBL01	VY023544.D	10/22/2025	10:00
VY1022SBS01	VY1022SBS01	VY023545.D	10/22/2025	10:28
VY1022SBSD01	VY1022SBSD01	VY023546.D	10/22/2025	10:51
PR132-DP3-20251021	Q3424-01	VY023555.D	10/22/2025	16:46
PR132-S11-010080-20251021	Q3424-02	VY023556.D	10/22/2025	17:10
PR132-S14-000094-20251021	Q3424-03	VY023557.D	10/22/2025	17:35

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>AECO02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3424</u>
Lab File ID:	<u>VY023543.D</u>	Date Analyzed:	<u>10/22/2025</u>
Instrument ID:	<u>MSVOA_Y</u>	Time Analyzed:	<u>09:30</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)
		Heated Purge:	(Y/N) <u>Y</u>

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	557873	7.71	806690	8.62	720008	11.42
UPPER LIMIT	1115750	8.213	1613380	9.116	1440020	11.92
LOWER LIMIT	278937	7.213	403345	8.116	360004	10.92
EPA SAMPLE NO.						
PR132-DP3-20251021	829968	7.71	1363938	8.62	1163621	11.41
PR132-S11-010080-20251021	807599	7.71	1343623	8.62	1154123	11.41
PR132-S14-000094-20251021	766523	7.71	1219443	8.62	1038965	11.41
VY1022SBL01	890059	7.71	1434768	8.62	1180185	11.42
VY1022SBS01	546555	7.71	794303	8.62	700136	11.41
VY1022SBSD01	542616	7.71	794200	8.62	691787	11.41

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>AECO02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3424</u>
Lab File ID:	<u>VY023543.D</u>	Date Analyzed:	<u>10/22/2025</u>
Instrument ID:	<u>MSVOA_Y</u>	Time Analyzed:	<u>09:30</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)
		Heated Purge:	(Y/N) <u>Y</u>

	IS4 AREA #	RT #				
12 HOUR STD	373234	13.346				
UPPER LIMIT	746468	13.846				
LOWER LIMIT	186617	12.846				
EPA SAMPLE NO.						
PR132-DP3-20251021	482166	13.35				
PR132-S11-010080-20251021	478051	13.35				
PR132-S14-000094-20251021	408239	13.35				
VY1022SBL01	484557	13.35				
VY1022SBS01	365280	13.35				
VY1022SBSD01	364513	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: VY1022SBL01
Lab Sample ID: VY1022SBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level : LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3424
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	5.00	U	1	1.10	5.00	ug/Kg	10/22/25 10:00	VY102225
74-87-3	Chloromethane	5.00	U	1	1.10	5.00	ug/Kg	10/22/25 10:00	VY102225
75-01-4	Vinyl Chloride	5.00	U	1	0.79	5.00	ug/Kg	10/22/25 10:00	VY102225
74-83-9	Bromomethane	5.00	U	1	1.10	5.00	ug/Kg	10/22/25 10:00	VY102225
75-00-3	Chloroethane	5.00	U	1	1.30	5.00	ug/Kg	10/22/25 10:00	VY102225
75-69-4	Trichlorofluoromethane	5.00	U	1	1.20	5.00	ug/Kg	10/22/25 10:00	VY102225
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	U	1	1.10	5.00	ug/Kg	10/22/25 10:00	VY102225
75-35-4	1,1-Dichloroethene	5.00	U	1	1.00	5.00	ug/Kg	10/22/25 10:00	VY102225
67-64-1	Acetone	25.0	U	1	4.70	25.0	ug/Kg	10/22/25 10:00	VY102225
75-15-0	Carbon Disulfide	5.00	U	1	1.10	5.00	ug/Kg	10/22/25 10:00	VY102225
1634-04-4	Methyl tert-butyl Ether	5.00	U	1	0.73	5.00	ug/Kg	10/22/25 10:00	VY102225
79-20-9	Methyl Acetate	5.00	U	1	1.50	5.00	ug/Kg	10/22/25 10:00	VY102225
75-09-2	Methylene Chloride	10.0	U	1	3.50	10.0	ug/Kg	10/22/25 10:00	VY102225
156-60-5	trans-1,2-Dichloroethene	5.00	U	1	0.86	5.00	ug/Kg	10/22/25 10:00	VY102225
75-34-3	1,1-Dichloroethane	5.00	U	1	0.80	5.00	ug/Kg	10/22/25 10:00	VY102225
110-82-7	Cyclohexane	5.00	U	1	0.79	5.00	ug/Kg	10/22/25 10:00	VY102225
78-93-3	2-Butanone	25.0	U	1	6.50	25.0	ug/Kg	10/22/25 10:00	VY102225
56-23-5	Carbon Tetrachloride	5.00	U	1	0.97	5.00	ug/Kg	10/22/25 10:00	VY102225
156-59-2	cis-1,2-Dichloroethene	5.00	U	1	0.75	5.00	ug/Kg	10/22/25 10:00	VY102225
74-97-5	Bromochloromethane	5.00	U	1	1.20	5.00	ug/Kg	10/22/25 10:00	VY102225
67-66-3	Chloroform	5.00	U	1	0.84	5.00	ug/Kg	10/22/25 10:00	VY102225
71-55-6	1,1,1-Trichloroethane	5.00	U	1	0.93	5.00	ug/Kg	10/22/25 10:00	VY102225
108-87-2	Methylcyclohexane	5.00	U	1	0.91	5.00	ug/Kg	10/22/25 10:00	VY102225
71-43-2	Benzene	5.00	U	1	0.79	5.00	ug/Kg	10/22/25 10:00	VY102225
107-06-2	1,2-Dichloroethane	5.00	U	1	0.79	5.00	ug/Kg	10/22/25 10:00	VY102225
79-01-6	Trichloroethene	5.00	U	1	0.81	5.00	ug/Kg	10/22/25 10:00	VY102225
78-87-5	1,2-Dichloropropane	5.00	U	1	0.91	5.00	ug/Kg	10/22/25 10:00	VY102225
75-27-4	Bromodichloromethane	5.00	U	1	0.78	5.00	ug/Kg	10/22/25 10:00	VY102225
108-10-1	4-Methyl-2-Pentanone	25.0	U	1	3.60	25.0	ug/Kg	10/22/25 10:00	VY102225
108-88-3	Toluene	5.00	U	1	0.78	5.00	ug/Kg	10/22/25 10:00	VY102225
10061-02-6	t-1,3-Dichloropropene	5.00	U	1	0.65	5.00	ug/Kg	10/22/25 10:00	VY102225
10061-01-5	cis-1,3-Dichloropropene	5.00	U	1	0.62	5.00	ug/Kg	10/22/25 10:00	VY102225
79-00-5	1,1,2-Trichloroethane	5.00	U	1	0.92	5.00	ug/Kg	10/22/25 10:00	VY102225
591-78-6	2-Hexanone	25.0	U	1	3.70	25.0	ug/Kg	10/22/25 10:00	VY102225
124-48-1	Dibromochloromethane	5.00	U	1	0.87	5.00	ug/Kg	10/22/25 10:00	VY102225
106-93-4	1,2-Dibromoethane	5.00	U	1	0.88	5.00	ug/Kg	10/22/25 10:00	VY102225
127-18-4	Tetrachloroethene	5.00	U	1	1.10	5.00	ug/Kg	10/22/25 10:00	VY102225
108-90-7	Chlorobenzene	5.00	U	1	0.91	5.00	ug/Kg	10/22/25 10:00	VY102225
100-41-4	Ethyl Benzene	5.00	U	1	0.67	5.00	ug/Kg	10/22/25 10:00	VY102225
179601-23-1	m/p-Xylenes	10.0	U	1	1.20	10.0	ug/Kg	10/22/25 10:00	VY102225
95-47-6	o-Xylene	5.00	U	1	0.82	5.00	ug/Kg	10/22/25 10:00	VY102225
100-42-5	Styrene	5.00	U	1	0.71	5.00	ug/Kg	10/22/25 10:00	VY102225
75-25-2	Bromoform	5.00	U	1	0.86	5.00	ug/Kg	10/22/25 10:00	VY102225

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: VY1022SBL01
Lab Sample ID: VY1022SBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level : LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3424
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	5.00	U	1	0.78	5.00	ug/Kg	10/22/25 10:00	VY102225
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	1	1.20	5.00	ug/Kg	10/22/25 10:00	VY102225
541-73-1	1,3-Dichlorobenzene	5.00	U	1	1.70	5.00	ug/Kg	10/22/25 10:00	VY102225
106-46-7	1,4-Dichlorobenzene	5.00	U	1	1.60	5.00	ug/Kg	10/22/25 10:00	VY102225
95-50-1	1,2-Dichlorobenzene	5.00	U	1	1.50	5.00	ug/Kg	10/22/25 10:00	VY102225
96-12-8	1,2-Dibromo-3-Chloropropane	5.00	U	1	1.80	5.00	ug/Kg	10/22/25 10:00	VY102225
120-82-1	1,2,4-Trichlorobenzene	5.00	U	1	3.00	5.00	ug/Kg	10/22/25 10:00	VY102225
87-61-6	1,2,3-Trichlorobenzene	5.00	U	1	3.20	5.00	ug/Kg	10/22/25 10:00	VY102225
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	48.3			63 - 155	97%	SPK: 50		
1868-53-7	Dibromofluoromethane	49.8			70 - 134	100%	SPK: 50		
2037-26-5	Toluene-d8	48.6			74 - 123	97%	SPK: 50		
460-00-4	4-Bromofluorobenzene	41.1			17 - 146	82%	SPK: 50		
INTERNAL STANDARDS									
363-72-4	Pentafluorobenzene	890000							
540-36-3	1,4-Difluorobenzene	1430000							
3114-55-4	Chlorobenzene-d5	1180000							
3855-82-1	1,4-Dichlorobenzene-d4	485000							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: VY1022SBS01
Lab Sample ID: VY1022SBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level : LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3424
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	20.0		1	1.10	5.00	ug/Kg	10/22/25 10:28	VY102225
74-87-3	Chloromethane	18.0		1	1.10	5.00	ug/Kg	10/22/25 10:28	VY102225
75-01-4	Vinyl Chloride	18.7		1	0.79	5.00	ug/Kg	10/22/25 10:28	VY102225
74-83-9	Bromomethane	20.0		1	1.10	5.00	ug/Kg	10/22/25 10:28	VY102225
75-00-3	Chloroethane	19.8		1	1.30	5.00	ug/Kg	10/22/25 10:28	VY102225
75-69-4	Trichlorofluoromethane	20.2		1	1.20	5.00	ug/Kg	10/22/25 10:28	VY102225
76-13-1	1,1,2-Trichlorotrifluoroethane	21.3		1	1.10	5.00	ug/Kg	10/22/25 10:28	VY102225
75-35-4	1,1-Dichloroethene	20.7		1	1.00	5.00	ug/Kg	10/22/25 10:28	VY102225
67-64-1	Acetone	130		1	4.70	25.0	ug/Kg	10/22/25 10:28	VY102225
75-15-0	Carbon Disulfide	19.3		1	1.10	5.00	ug/Kg	10/22/25 10:28	VY102225
1634-04-4	Methyl tert-butyl Ether	19.8		1	0.73	5.00	ug/Kg	10/22/25 10:28	VY102225
79-20-9	Methyl Acetate	17.3		1	1.50	5.00	ug/Kg	10/22/25 10:28	VY102225
75-09-2	Methylene Chloride	18.4		1	3.50	10.0	ug/Kg	10/22/25 10:28	VY102225
156-60-5	trans-1,2-Dichloroethene	20.4		1	0.86	5.00	ug/Kg	10/22/25 10:28	VY102225
75-34-3	1,1-Dichloroethane	20.5		1	0.80	5.00	ug/Kg	10/22/25 10:28	VY102225
110-82-7	Cyclohexane	19.3		1	0.79	5.00	ug/Kg	10/22/25 10:28	VY102225
78-93-3	2-Butanone	110		1	6.50	25.0	ug/Kg	10/22/25 10:28	VY102225
56-23-5	Carbon Tetrachloride	21.4		1	0.97	5.00	ug/Kg	10/22/25 10:28	VY102225
156-59-2	cis-1,2-Dichloroethene	21.2		1	0.75	5.00	ug/Kg	10/22/25 10:28	VY102225
74-97-5	Bromochloromethane	19.3		1	1.20	5.00	ug/Kg	10/22/25 10:28	VY102225
67-66-3	Chloroform	21.2		1	0.84	5.00	ug/Kg	10/22/25 10:28	VY102225
71-55-6	1,1,1-Trichloroethane	21.3		1	0.93	5.00	ug/Kg	10/22/25 10:28	VY102225
108-87-2	Methylcyclohexane	20.7		1	0.91	5.00	ug/Kg	10/22/25 10:28	VY102225
71-43-2	Benzene	21.2		1	0.79	5.00	ug/Kg	10/22/25 10:28	VY102225
107-06-2	1,2-Dichloroethane	19.8		1	0.79	5.00	ug/Kg	10/22/25 10:28	VY102225
79-01-6	Trichloroethene	21.9		1	0.81	5.00	ug/Kg	10/22/25 10:28	VY102225
78-87-5	1,2-Dichloropropane	21.0		1	0.91	5.00	ug/Kg	10/22/25 10:28	VY102225
75-27-4	Bromodichloromethane	21.2		1	0.78	5.00	ug/Kg	10/22/25 10:28	VY102225
108-10-1	4-Methyl-2-Pentanone	96.0		1	3.60	25.0	ug/Kg	10/22/25 10:28	VY102225
108-88-3	Toluene	22.0		1	0.78	5.00	ug/Kg	10/22/25 10:28	VY102225
10061-02-6	t-1,3-Dichloropropene	21.0		1	0.65	5.00	ug/Kg	10/22/25 10:28	VY102225
10061-01-5	cis-1,3-Dichloropropene	20.9		1	0.62	5.00	ug/Kg	10/22/25 10:28	VY102225
79-00-5	1,1,2-Trichloroethane	21.6		1	0.92	5.00	ug/Kg	10/22/25 10:28	VY102225
591-78-6	2-Hexanone	110		1	3.70	25.0	ug/Kg	10/22/25 10:28	VY102225
124-48-1	Dibromochloromethane	21.4		1	0.87	5.00	ug/Kg	10/22/25 10:28	VY102225
106-93-4	1,2-Dibromoethane	21.2		1	0.88	5.00	ug/Kg	10/22/25 10:28	VY102225
127-18-4	Tetrachloroethene	22.9		1	1.10	5.00	ug/Kg	10/22/25 10:28	VY102225
108-90-7	Chlorobenzene	21.4		1	0.91	5.00	ug/Kg	10/22/25 10:28	VY102225
100-41-4	Ethyl Benzene	21.2		1	0.67	5.00	ug/Kg	10/22/25 10:28	VY102225
179601-23-1	m/p-Xylenes	43.3		1	1.20	10.0	ug/Kg	10/22/25 10:28	VY102225
95-47-6	o-Xylene	21.6		1	0.82	5.00	ug/Kg	10/22/25 10:28	VY102225
100-42-5	Styrene	21.3		1	0.71	5.00	ug/Kg	10/22/25 10:28	VY102225
75-25-2	Bromoform	20.5		1	0.86	5.00	ug/Kg	10/22/25 10:28	VY102225

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: VY1022SBS01
Lab Sample ID: VY1022SBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level : LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3424
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	21.7		1	0.78	5.00	ug/Kg	10/22/25 10:28	VY102225
79-34-5	1,1,2,2-Tetrachloroethane	19.2		1	1.20	5.00	ug/Kg	10/22/25 10:28	VY102225
541-73-1	1,3-Dichlorobenzene	21.3		1	1.70	5.00	ug/Kg	10/22/25 10:28	VY102225
106-46-7	1,4-Dichlorobenzene	21.1		1	1.60	5.00	ug/Kg	10/22/25 10:28	VY102225
95-50-1	1,2-Dichlorobenzene	21.3		1	1.50	5.00	ug/Kg	10/22/25 10:28	VY102225
96-12-8	1,2-Dibromo-3-Chloropropane	18.8		1	1.80	5.00	ug/Kg	10/22/25 10:28	VY102225
120-82-1	1,2,4-Trichlorobenzene	20.4		1	3.00	5.00	ug/Kg	10/22/25 10:28	VY102225
87-61-6	1,2,3-Trichlorobenzene	19.8		1	3.20	5.00	ug/Kg	10/22/25 10:28	VY102225

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	45.7			63 - 155	91%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3			70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	49.8			74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3			17 - 146	99%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	547000
540-36-3	1,4-Difluorobenzene	794000
3114-55-4	Chlorobenzene-d5	700000
3855-82-1	1,4-Dichlorobenzene-d4	365000

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: VY1022SBSD01
Lab Sample ID: VY1022SBSD01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level : LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3424
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	19.5		1	1.10	5.00	ug/Kg	10/22/25 10:51	VY102225
74-87-3	Chloromethane	17.5		1	1.10	5.00	ug/Kg	10/22/25 10:51	VY102225
75-01-4	Vinyl Chloride	18.3		1	0.79	5.00	ug/Kg	10/22/25 10:51	VY102225
74-83-9	Bromomethane	19.0		1	1.10	5.00	ug/Kg	10/22/25 10:51	VY102225
75-00-3	Chloroethane	18.9		1	1.30	5.00	ug/Kg	10/22/25 10:51	VY102225
75-69-4	Trichlorofluoromethane	19.5		1	1.20	5.00	ug/Kg	10/22/25 10:51	VY102225
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		1	1.10	5.00	ug/Kg	10/22/25 10:51	VY102225
75-35-4	1,1-Dichloroethene	19.9		1	1.00	5.00	ug/Kg	10/22/25 10:51	VY102225
67-64-1	Acetone	120		1	4.70	25.0	ug/Kg	10/22/25 10:51	VY102225
75-15-0	Carbon Disulfide	18.8		1	1.10	5.00	ug/Kg	10/22/25 10:51	VY102225
1634-04-4	Methyl tert-butyl Ether	19.3		1	0.73	5.00	ug/Kg	10/22/25 10:51	VY102225
79-20-9	Methyl Acetate	16.0		1	1.50	5.00	ug/Kg	10/22/25 10:51	VY102225
75-09-2	Methylene Chloride	18.0		1	3.50	10.0	ug/Kg	10/22/25 10:51	VY102225
156-60-5	trans-1,2-Dichloroethene	20.1		1	0.86	5.00	ug/Kg	10/22/25 10:51	VY102225
75-34-3	1,1-Dichloroethane	19.9		1	0.80	5.00	ug/Kg	10/22/25 10:51	VY102225
110-82-7	Cyclohexane	18.5		1	0.79	5.00	ug/Kg	10/22/25 10:51	VY102225
78-93-3	2-Butanone	110		1	6.50	25.0	ug/Kg	10/22/25 10:51	VY102225
56-23-5	Carbon Tetrachloride	20.5		1	0.97	5.00	ug/Kg	10/22/25 10:51	VY102225
156-59-2	cis-1,2-Dichloroethene	20.7		1	0.75	5.00	ug/Kg	10/22/25 10:51	VY102225
74-97-5	Bromochloromethane	19.3		1	1.20	5.00	ug/Kg	10/22/25 10:51	VY102225
67-66-3	Chloroform	20.6		1	0.84	5.00	ug/Kg	10/22/25 10:51	VY102225
71-55-6	1,1,1-Trichloroethane	20.7		1	0.93	5.00	ug/Kg	10/22/25 10:51	VY102225
108-87-2	Methylcyclohexane	20.0		1	0.91	5.00	ug/Kg	10/22/25 10:51	VY102225
71-43-2	Benzene	20.7		1	0.79	5.00	ug/Kg	10/22/25 10:51	VY102225
107-06-2	1,2-Dichloroethane	19.4		1	0.79	5.00	ug/Kg	10/22/25 10:51	VY102225
79-01-6	Trichloroethene	21.2		1	0.81	5.00	ug/Kg	10/22/25 10:51	VY102225
78-87-5	1,2-Dichloropropane	20.3		1	0.91	5.00	ug/Kg	10/22/25 10:51	VY102225
75-27-4	Bromodichloromethane	20.7		1	0.78	5.00	ug/Kg	10/22/25 10:51	VY102225
108-10-1	4-Methyl-2-Pentanone	91.4		1	3.60	25.0	ug/Kg	10/22/25 10:51	VY102225
108-88-3	Toluene	21.2		1	0.78	5.00	ug/Kg	10/22/25 10:51	VY102225
10061-02-6	t-1,3-Dichloropropene	20.1		1	0.65	5.00	ug/Kg	10/22/25 10:51	VY102225
10061-01-5	cis-1,3-Dichloropropene	20.4		1	0.62	5.00	ug/Kg	10/22/25 10:51	VY102225
79-00-5	1,1,2-Trichloroethane	21.2		1	0.92	5.00	ug/Kg	10/22/25 10:51	VY102225
591-78-6	2-Hexanone	100		1	3.70	25.0	ug/Kg	10/22/25 10:51	VY102225
124-48-1	Dibromochloromethane	20.7		1	0.87	5.00	ug/Kg	10/22/25 10:51	VY102225
106-93-4	1,2-Dibromoethane	20.5		1	0.88	5.00	ug/Kg	10/22/25 10:51	VY102225
127-18-4	Tetrachloroethene	22.3		1	1.10	5.00	ug/Kg	10/22/25 10:51	VY102225
108-90-7	Chlorobenzene	21.0		1	0.91	5.00	ug/Kg	10/22/25 10:51	VY102225
100-41-4	Ethyl Benzene	20.8		1	0.67	5.00	ug/Kg	10/22/25 10:51	VY102225
179601-23-1	m/p-Xylenes	42.2		1	1.20	10.0	ug/Kg	10/22/25 10:51	VY102225
95-47-6	o-Xylene	21.1		1	0.82	5.00	ug/Kg	10/22/25 10:51	VY102225
100-42-5	Styrene	21.2		1	0.71	5.00	ug/Kg	10/22/25 10:51	VY102225
75-25-2	Bromoform	20.3		1	0.86	5.00	ug/Kg	10/22/25 10:51	VY102225

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: VY1022SBSD01
Lab Sample ID: VY1022SBSD01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level : LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3424
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	20.8		1	0.78	5.00	ug/Kg	10/22/25 10:51	VY102225
79-34-5	1,1,2,2-Tetrachloroethane	19.2		1	1.20	5.00	ug/Kg	10/22/25 10:51	VY102225
541-73-1	1,3-Dichlorobenzene	20.8		1	1.70	5.00	ug/Kg	10/22/25 10:51	VY102225
106-46-7	1,4-Dichlorobenzene	20.7		1	1.60	5.00	ug/Kg	10/22/25 10:51	VY102225
95-50-1	1,2-Dichlorobenzene	20.9		1	1.50	5.00	ug/Kg	10/22/25 10:51	VY102225
96-12-8	1,2-Dibromo-3-Chloropropane	19.0		1	1.80	5.00	ug/Kg	10/22/25 10:51	VY102225
120-82-1	1,2,4-Trichlorobenzene	20.2		1	3.00	5.00	ug/Kg	10/22/25 10:51	VY102225
87-61-6	1,2,3-Trichlorobenzene	19.5		1	3.20	5.00	ug/Kg	10/22/25 10:51	VY102225

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	45.1			63 - 155	90%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3			70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	48.6			74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7			17 - 146	97%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	543000
540-36-3	1,4-Difluorobenzene	794000
3114-55-4	Chlorobenzene-d5	692000
3855-82-1	1,4-Dichlorobenzene-d4	365000

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: AECO02

Lab Code: ACE

SDG No.: Q3424

Instrument ID: MSVOA_Y

Calibration Date(s): 10/07/2025 10/07/2025

Heated Purge: (Y/N) Y

Calibration Time(s): 09:17 12:32

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF005 = VY023384.D		RRF010 = VY023385.D		RRF020 = VY023386.D		RRF050 = VY023387.D		RRF100 = VY023388.D		RRF150 = VY023389.D	
	RRF005 = VY023387.D		RRF010 = VY023388.D		RRF020 = VY023389.D		RRF050 = VY023390.D		RRF100 = VY023391.D		RRF150 = VY023392.D	
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD				
Dichlorodifluoromethane	0.397	0.399	0.400	0.321	0.310	0.333	0.360	12				
Chloromethane	0.518	0.557	0.512	0.449	0.438	0.467	0.490	9.4				
Vinyl Chloride	0.660	0.684	0.659	0.598	0.597	0.633	0.639	5.6				
Bromomethane	0.601	0.596	0.548	0.469	0.483	0.518	0.536	10.4				
Chloroethane	0.441	0.462	0.453	0.414	0.413	0.429	0.435	4.7				
Trichlorofluoromethane	0.884	0.920	0.946	0.842	0.850	0.877	0.887	4.5				
1,1,2-Trichlorotrifluoroethane	0.484	0.486	0.479	0.437	0.429	0.445	0.460	5.6				
1,1-Dichloroethene	0.449	0.475	0.456	0.427	0.426	0.443	0.446	4.1				
Acetone	0.128	0.117	0.094	0.084	0.085	0.089	0.100	18.7				
Carbon Disulfide	1.291	1.367	1.320	1.225	1.210	1.246	1.277	4.7				
Methyl tert-butyl Ether	1.006	1.075	1.075	1.020	1.091	1.165	1.072	5.3				
Methyl Acetate	0.244	0.265	0.260	0.245	0.266	0.286	0.261	6				
Methylene Chloride	0.625	0.634	0.576	0.458	0.463	0.473	0.538	15.4				
trans-1,2-Dichloroethene	0.494	0.504	0.507	0.470	0.478	0.494	0.491	2.9				
1,1-Dichloroethane	0.800	0.835	0.827	0.759	0.765	0.792	0.796	3.9				
Cyclohexane	0.797	0.717	0.697	0.643	0.644	0.676	0.696	8.3				
2-Butanone	0.133	0.134	0.115	0.105	0.115	0.126	0.122	9.6				
Carbon Tetrachloride	0.483	0.501	0.504	0.481	0.487	0.503	0.493	2.1				
cis-1,2-Dichloroethene	0.542	0.584	0.582	0.542	0.563	0.591	0.567	3.8				
Bromochloromethane	0.332	0.323	0.320	0.267	0.270	0.273	0.297	10.2				
Chloroform	0.886	0.912	0.901	0.835	0.842	0.874	0.875	3.5				
1,1,1-Trichloroethane	0.808	0.814	0.822	0.767	0.764	0.796	0.795	3.1				
Methylcyclohexane	0.491	0.486	0.537	0.527	0.554	0.583	0.530	7				
Benzene	1.253	1.302	1.322	1.259	1.281	1.312	1.288	2.2				
1,2-Dichloroethane	0.328	0.346	0.343	0.315	0.324	0.338	0.332	3.6				
Trichloroethene	0.380	0.381	0.386	0.367	0.372	0.376	0.377	1.8				
1,2-Dichloropropane	0.276	0.289	0.292	0.274	0.283	0.293	0.285	2.9				
Bromodichloromethane	0.440	0.463	0.459	0.439	0.449	0.468	0.453	2.7				
4-Methyl-2-Pentanone	0.141	0.159	0.161	0.159	0.180	0.196	0.166	11.6				
Toluene	0.777	0.818	0.855	0.827	0.855	0.885	0.836	4.5				

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>AECO02</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q3424</u>
Instrument ID: <u>MSVOA_Y</u>	Calibration Date(s): <u>10/07/2025</u> <u>10/07/2025</u>
Heated Purge: (Y/N) <u>Y</u>	Calibration Time(s): <u>09:17</u> <u>12:32</u>
GC Column: <u>RXI-624</u> ID: <u>0.25</u> (mm)	

LAB FILE ID:								
RRF005 = VY023384.D			RRF010 = VY023385.D			RRF020 = VY023386.D		
RRF050 = VY023387.D			RRF100 = VY023388.D			RRF150 = VY023389.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.357	0.380	0.390	0.385	0.415	0.438	0.394	7.2
cis-1,3-Dichloropropene	0.424	0.460	0.465	0.455	0.481	0.505	0.465	5.9
1,1,2-Trichloroethane	0.234	0.247	0.241	0.231	0.244	0.254	0.242	3.5
2-Hexanone	0.108	0.117	0.110	0.112	0.126	0.138	0.119	9.9
Dibromochloromethane	0.319	0.337	0.340	0.327	0.347	0.365	0.339	4.7
1,2-Dibromoethane	0.215	0.229	0.231	0.223	0.237	0.249	0.231	5.2
Tetrachloroethene	0.538	0.517	0.561	0.523	0.502	0.456	0.516	6.9
Chlorobenzene	1.086	1.095	1.092	1.053	1.083	1.116	1.087	1.9
Ethyl Benzene	1.606	1.711	1.753	1.777	1.824	1.891	1.760	5.5
m/p-Xylenes	0.632	0.675	0.715	0.719	0.734	0.763	0.706	6.5
o-Xylene	0.588	0.623	0.653	0.670	0.701	0.738	0.662	8.1
Styrene	0.902	1.026	1.098	1.109	1.166	1.233	1.089	10.5
Bromoform	0.225	0.242	0.238	0.230	0.244	0.262	0.240	5.4
Isopropylbenzene	2.967	3.153	3.353	3.317	3.425	3.555	3.295	6.3
1,1,2,2-Tetrachloroethane	0.530	0.548	0.502	0.499	0.543	0.611	0.539	7.6
1,3-Dichlorobenzene	1.667	1.698	1.718	1.657	1.701	1.794	1.706	2.9
1,4-Dichlorobenzene	1.703	1.703	1.694	1.624	1.653	1.732	1.685	2.3
1,2-Dichlorobenzene	1.485	1.498	1.511	1.446	1.490	1.543	1.496	2.1
1,2-Dibromo-3-Chloropropane	0.087	0.093	0.083	0.083	0.088	0.096	0.088	6.2
1,2,4-Trichlorobenzene	0.846	0.867	0.901	0.918	1.007	1.054	0.932	8.7
1,2,3-Trichlorobenzene	0.719	0.753	0.795	0.793	0.866	0.920	0.808	9.1
1,2-Dichloroethane-d4	0.455	0.436	0.429	0.392	0.392	0.405	0.418	6.2
Dibromofluoromethane	0.311	0.314	0.317	0.298	0.299	0.303	0.307	2.6
Toluene-d8	1.132	1.170	1.177	1.129	1.122	1.135	1.144	2
4-Bromofluorobenzene	0.401	0.370	0.373	0.365	0.372	0.386	0.378	3.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>AECO02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3424</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>10/22/2025 09:30</u>
Lab File ID:	<u>VY023543.D</u>	Init. Calib. Date(s):	<u>10/07/2025 10/07/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>09:17 12:32</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.360	0.308		-14.44	20
Chloromethane	0.490	0.409	0.1	-16.53	20
Vinyl Chloride	0.639	0.552		-13.61	20
Bromomethane	0.536	0.456		-14.93	20
Chloroethane	0.435	0.403		-7.36	20
Trichlorofluoromethane	0.887	0.857		-3.38	20
1,1,2-Trichlorotrifluoroethane	0.460	0.469		1.96	20
1,1-Dichloroethene	0.446	0.456		2.24	20
Acetone	0.100	0.096		-4	20
Carbon Disulfide	1.277	1.206		-5.56	20
Methyl tert-butyl Ether	1.072	1.142		6.53	20
Methyl Acetate	0.261	0.294		12.64	20
Methylene Chloride	0.538	0.496		-7.81	20
trans-1,2-Dichloroethene	0.491	0.510		3.87	20
1,1-Dichloroethane	0.796	0.815	0.1	2.39	20
Cyclohexane	0.696	0.650		-6.61	20
2-Butanone	0.122	0.118		-3.28	20
Carbon Tetrachloride	0.493	0.522		5.88	20
cis-1,2-Dichloroethene	0.567	0.611		7.76	20
Bromochloromethane	0.297	0.257		-13.47	20
Chloroform	0.875	0.928		6.06	20
1,1,1-Trichloroethane	0.795	0.839		5.53	20
Methylcyclohexane	0.530	0.561		5.85	20
Benzene	1.288	1.371		6.44	20
1,2-Dichloroethane	0.332	0.340		2.41	20
Trichloroethene	0.377	0.411		9.02	20
1,2-Dichloropropane	0.285	0.303		6.32	20
Bromodichloromethane	0.453	0.487		7.51	20
4-Methyl-2-Pentanone	0.166	0.175		5.42	20
Toluene	0.836	0.926		10.77	20
t-1,3-Dichloropropene	0.394	0.433		9.9	20
cis-1,3-Dichloropropene	0.465	0.509		9.46	20
1,1,2-Trichloroethane	0.242	0.264		9.09	20
2-Hexanone	0.119	0.129		8.4	20
Dibromochloromethane	0.339	0.377		11.21	20
1,2-Dibromoethane	0.231	0.255		10.39	20
Tetrachloroethene	0.516	0.580		12.4	20
Chlorobenzene	1.087	1.168	0.3	7.45	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>AECO02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3424</u>
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Lab File ID:	<u>VY023543.D</u>	Init. Calib. Date(s):	<u>10/07/2025</u> <u>10/07/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>09:17</u> <u>12:32</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.760	1.922		9.2	20
m/p-Xylenes	0.706	0.784		11.05	20
o-Xylene	0.662	0.739		11.63	20
Styrene	1.089	1.228		12.76	20
Bromoform	0.240	0.264	0.1	10	20
Isopropylbenzene	3.295	3.699		12.26	20
1,1,2,2-Tetrachloroethane	0.539	0.562	0.3	4.27	20
1,3-Dichlorobenzene	1.706	1.845		8.15	20
1,4-Dichlorobenzene	1.685	1.798		6.71	20
1,2-Dichlorobenzene	1.496	1.634		9.23	20
1,2-Dibromo-3-Chloropropane	0.088	0.092		4.55	20
1,2,4-Trichlorobenzene	0.932	1.020		9.44	20
1,2,3-Trichlorobenzene	0.808	0.876		8.42	20
1,2-Dichloroethane-d4	0.418	0.381		-8.85	20
Dibromofluoromethane	0.307	0.307		0	20
Toluene-d8	1.144	1.136		-0.7	20
4-Bromofluorobenzene	0.378	0.382		1.06	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.