

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	03/06/25	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/07/25	
Client Sample ID:	RE103D1-20250306MSD		SDG No.:	Q1531	
Lab Sample ID:	Q1531-09MSD		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045208.D	1		03/10/25 19:54	VX031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	52.4		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	50.7		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	49.2		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	51.7		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	55.4		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	53.5		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	65.2		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	54.9		0.26	0.75	1.00	ug/L
67-64-1	Acetone	260		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	48.5		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	54.4		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	56.8		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	53.0		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	54.6		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	55.3		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	54.1		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	280		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	53.3		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	55.0		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	54.1		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	55.1		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	55.5		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	56.1		0.19	0.50	1.00	ug/L
71-43-2	Benzene	53.8		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	55.4		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	620	E	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	53.1		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	54.7		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	280		0.75	2.50	5.00	ug/L
108-88-3	Toluene	54.9		0.18	0.50	1.00	ug/L

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10061-02-6	t-1,3-Dichloropropene	59.2		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	56.6		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	54.0		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	290		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	56.0		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	55.7		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	60.3		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	53.8		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	55.5		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	54.5		0.14	0.50	1.00	ug/L
100-42-5	Styrene	56.6		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	55.2		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	55.4		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	52.5		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	54.0		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	52.9		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	54.0		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	55.1		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	54.9		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	54.3		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.1		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	53.6		80 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	53.8		89 - 112		108%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.0		85 - 114		114%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	82300	5.544				
540-36-3	1,4-Difluorobenzene	151000	6.757				
3114-55-4	Chlorobenzene-d5	134000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	60200	12.018				

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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