

Report of Analysis

Client:	PSEG	Date Collected:	04/17/25
Project:	Elizabeth Sub HQ	Date Received:	04/17/25
Client Sample ID:	LP5729	SDG No.:	Q1829
Lab Sample ID:	Q1829-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.8
Sample Wt/Vol:	5.62	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021924.D	1		04/18/25 12:36	VY041825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.0011	U	0.0011	0.0048	mg/Kg
74-87-3	Chloromethane	0.0011	U	0.0011	0.0048	mg/Kg
75-01-4	Vinyl Chloride	0.00077	U	0.00077	0.0048	mg/Kg
74-83-9	Bromomethane	0.0010	U	0.0010	0.0048	mg/Kg
75-00-3	Chloroethane	0.0012	U	0.0012	0.0048	mg/Kg
75-69-4	Trichlorofluoromethane	0.0012	U	0.0012	0.0048	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0010	U	0.0010	0.0048	mg/Kg
75-35-4	1,1-Dichloroethene	0.00097	U	0.00097	0.0048	mg/Kg
67-64-1	Acetone	0.0046	U	0.0046	0.024	mg/Kg
75-15-0	Carbon Disulfide	0.0010	U	0.0010	0.0048	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.00071	U	0.00071	0.0048	mg/Kg
79-20-9	Methyl Acetate	0.0015	U	0.0015	0.0048	mg/Kg
75-09-2	Methylene Chloride	0.0034	U	0.0034	0.0097	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.00083	U	0.00083	0.0048	mg/Kg
75-34-3	1,1-Dichloroethane	0.00078	U	0.00078	0.0048	mg/Kg
110-82-7	Cyclohexane	0.00077	U	0.00077	0.0048	mg/Kg
78-93-3	2-Butanone	0.0063	U	0.0063	0.024	mg/Kg
56-23-5	Carbon Tetrachloride	0.00094	U	0.00094	0.0048	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.00073	U	0.00073	0.0048	mg/Kg
74-97-5	Bromochloromethane	0.0011	U	0.0011	0.0048	mg/Kg
67-66-3	Chloroform	0.00081	U	0.00081	0.0048	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.00090	U	0.00090	0.0048	mg/Kg
108-87-2	Methylcyclohexane	0.00088	U	0.00088	0.0048	mg/Kg
71-43-2	Benzene	0.00077	U	0.00077	0.0048	mg/Kg
107-06-2	1,2-Dichloroethane	0.00077	U	0.00077	0.0048	mg/Kg
79-01-6	Trichloroethene	0.00079	U	0.00079	0.0048	mg/Kg
78-87-5	1,2-Dichloropropane	0.00088	U	0.00088	0.0048	mg/Kg
75-27-4	Bromodichloromethane	0.00076	U	0.00076	0.0048	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.0035	U	0.0035	0.024	mg/Kg
108-88-3	Toluene	0.00076	U	0.00076	0.0048	mg/Kg

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10061-02-6	t-1,3-Dichloropropene	0.00063	U	0.00063	0.0048	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.00060	U	0.00060	0.0048	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.00089	U	0.00089	0.0048	mg/Kg
591-78-6	2-Hexanone	0.0036	U	0.0036	0.024	mg/Kg
124-48-1	Dibromochloromethane	0.00084	U	0.00084	0.0048	mg/Kg
106-93-4	1,2-Dibromoethane	0.00085	U	0.00085	0.0048	mg/Kg
127-18-4	Tetrachloroethene	0.0010	U	0.0010	0.0048	mg/Kg
108-90-7	Chlorobenzene	0.00088	U	0.00088	0.0048	mg/Kg
100-41-4	Ethyl Benzene	0.00065	U	0.00065	0.0048	mg/Kg
179601-23-1	m/p-Xylenes	0.0012	U	0.0012	0.0097	mg/Kg
95-47-6	o-Xylene	0.00079	U	0.00079	0.0048	mg/Kg
100-42-5	Styrene	0.00069	U	0.00069	0.0048	mg/Kg
75-25-2	Bromoform	0.00083	U	0.00083	0.0048	mg/Kg
98-82-8	Isopropylbenzene	0.00076	U	0.00076	0.0048	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0012	U	0.0012	0.0048	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0017	U	0.0017	0.0048	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0015	U	0.0015	0.0048	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0014	U	0.0014	0.0048	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0018	U	0.0018	0.0048	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0029	U	0.0029	0.0048	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0031	U	0.0031	0.0048	mg/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	49.3	63 - 155	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9	70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	50.6	74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8	38 - 136	96%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	215000	7.713
540-36-3	1,4-Difluorobenzene	401000	8.616
3114-55-4	Chlorobenzene-d5	376000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.347

TENTATIVE IDENTIFIED COMPOUNDS

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	unknown11.207	5.50	J		11.2	ug/Kg
003074-77-9	Hexane, 3-ethyl-4-methyl-	5.40	J		11.3	ug/Kg
002040-95-1	Cyclopentane, butyl-	5.90	J		12.6	ug/Kg
062016-28-8	Octane, 2,2,6-trimethyl-	5.50	J		13.4	ug/Kg
000135-01-3	Benzene, 1,2-diethyl-	6.30	J		13.5	ug/Kg
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	8.40	J		14.0	ug/Kg
000527-84-4	o-Cymene	7.50	J		14.3	ug/Kg
001587-04-8	Benzene, 1-methyl-2-(2-propenyl)-	5.20	J		14.5	ug/Kg
004489-84-3	Benzene, (3-methyl-2-butenyl)-	6.90	J		14.9	ug/Kg
097664-18-1	Benzene, 1-methyl-4-(1-methyl-2-pr	7.60	J		15.0	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