Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	PSEG	Date Collected:	04/02/25
Project:	Plainfield Gas and Appliance Service MA0006789	Date Received:	04/02/25
Client Sample ID:	PL-02-040225	SDG No.:	Q1706
Lab Sample ID:	Q1706-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.3
Sample Wt/Vol:	50.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049812.D	5	04/03/25 09:25	04/03/25 19:11	PB167436

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.52	U	0.52	1.10	mg/Kg
108-95-2	Phenol	0.074	U	0.074	0.57	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.082	U	0.082	0.57	mg/Kg
95-57-8	2-Chlorophenol	0.082	U	0.082	0.57	mg/Kg
95-48-7	2-Methylphenol	0.10	U	0.10	0.57	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.13	U	0.13	0.57	mg/Kg
98-86-2	Acetophenone	0.099	U	0.099	0.57	mg/Kg
65794-96-9	3+4-Methylphenols	0.14	U	0.14	1.10	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.16	U	0.16	0.27	mg/Kg
67-72-1	Hexachloroethane	0.059	U	0.059	0.57	mg/Kg
98-95-3	Nitrobenzene	0.062	U	0.062	0.57	mg/Kg
78-59-1	Isophorone	0.11	U	0.11	0.57	mg/Kg
88-75-5	2-Nitrophenol	0.20	U	0.20	0.57	mg/Kg
105-67-9	2,4-Dimethylphenol	0.22	U	0.22	0.57	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.10	U	0.10	0.57	mg/Kg
120-83-2	2,4-Dichlorophenol	0.095	U	0.095	0.57	mg/Kg
91-20-3	Naphthalene	0.076	U	0.076	0.57	mg/Kg
106-47-8	4-Chloroaniline	0.12	U	0.12	0.57	mg/Kg
87-68-3	Hexachlorobutadiene	0.085	U	0.085	0.57	mg/Kg
105-60-2	Caprolactam	0.17	U	0.17	1.10	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.096	U	0.096	0.57	mg/Kg
91-57-6	2-Methylnaphthalene	0.086	U	0.086	0.57	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.39	U	0.39	1.10	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.067	U	0.067	0.57	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.098	U	0.098	0.57	mg/Kg
92-52-4	1,1-Biphenyl	0.073	U	0.073	0.57	mg/Kg
91-58-7	2-Chloronaphthalene	0.076	U	0.076	0.57	mg/Kg
88-74-4	2-Nitroaniline	0.16	U	0.16	0.57	mg/Kg
131-11-3	Dimethylphthalate	0.091	U	0.091	0.57	mg/Kg

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Lab Sample ID:	Q1706-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.3
Sample Wt/Vol:	50.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

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CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	0.097	U	0.097	0.57	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.11	U	0.11	0.57	mg/Kg
99-09-2	3-Nitroaniline	0.15	U	0.15	0.57	mg/Kg
83-32-9	Acenaphthene	0.072	U	0.072	0.57	mg/Kg
51-28-5	2,4-Dinitrophenol	0.77	U	0.77	1.10	mg/Kg
100-02-7	4-Nitrophenol	0.36	U	0.36	1.10	mg/Kg
132-64-9	Dibenzofuran	0.076	U	0.076	0.57	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.17	U	0.17	0.57	mg/Kg
84-66-2	Diethylphthalate	0.095	U	0.095	0.57	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.090	U	0.090	0.57	mg/Kg
86-73-7	Fluorene	0.085	U	0.085	0.57	mg/Kg
100-01-6	4-Nitroaniline	0.22	U	0.22	0.57	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.35	U	0.35	1.10	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.11	U	0.11	0.57	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.093	U	0.093	0.57	mg/Kg
118-74-1	Hexachlorobenzene	0.085	U	0.085	0.57	mg/Kg
1912-24-9	Atrazine	0.11	U	0.11	0.57	mg/Kg
87-86-5	Pentachlorophenol	0.17	U	0.17	1.10	mg/Kg
85-01-8	Phenanthrene	0.50	J	0.070	0.57	mg/Kg
120-12-7	Anthracene	0.24	J	0.11	0.57	mg/Kg
86-74-8	Carbazole	0.10	U	0.10	0.57	mg/Kg
84-74-2	Di-n-butylphthalate	0.16	U	0.16	0.57	mg/Kg
206-44-0	Fluoranthene	1.10		0.10	0.57	mg/Kg
129-00-0	Pyrene	1.10		0.12	0.57	mg/Kg
85-68-7	Butylbenzylphthalate	0.24	U	0.24	0.57	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.12	U	0.12	1.10	mg/Kg
56-55-3	Benzo(a)anthracene	0.70		0.077	0.57	mg/Kg
218-01-9	Chrysene	0.70		0.067	0.57	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.20	U	0.20	0.57	mg/Kg
117-84-0	Di-n-octyl phthalate	0.29	U	0.29	1.10	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.78		0.064	0.57	mg/Kg

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Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
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207-08-9	Benzo(k)fluoranthene	0.29	J	0.075	0.57	mg/Kg
50-32-8	Benzo(a)pyrene	0.70		0.099	0.57	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	J	0.098	0.57	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.092	U	0.092	0.57	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.46	J	0.086	0.57	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.086	U	0.086	0.57	mg/Kg
123-91-1	1,4-Dioxane	0.15	U	0.15	0.57	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.092	U	0.092	0.57	mg/Kg
SURROGATES						
367-12-4	2-Fluorophenol	94.7		18 - 112	63%	SPK: 150
13127-88-3	Phenol-d6	97.7		15 - 107	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.3		18 - 107	59%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.0		20 - 109	57%	SPK: 100
118-79-6	2,4,6-Tribromophenol	101		10 - 116	67%	SPK: 150
1718-51-0	Terphenyl-d14	52.9		10 - 105	53%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	395000	7.787			
1146-65-2	Naphthalene-d8	1400000	10.581			
15067-26-2	Acenaphthene-d10	898000	14.427			
1517-22-2	Phenanthrene-d10	1710000	17.174			
1719-03-5	Chrysene-d12	1630000	21.403			
1520-96-3	Perylene-d12	1770000	24.409			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	350	A		4.90	ug/Kg
000124-18-5	Decane	640	J		7.42	ug/Kg
	unknown8.328	360	J		8.33	ug/Kg
000544-76-3	Hexadecane	980	J		9.03	ug/Kg
1000309-19-3	Sulfurous acid, decyl 2-ethylhexyl	380	J		11.6	ug/Kg
000629-50-5	Tridecane	790	J		12.0	ug/Kg
004175-54-6	Naphthalene, 1,2,3,4-tetrahydro-1,	320	J		12.5	ug/Kg

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056862-62-5	10-Methylnonadecane	980	J		13.3	ug/Kg
000629-78-7	Heptadecane	1100	J		14.3	ug/Kg
1000382-54-5	Carbonic acid, tetradecyl vinyl es	320	J		15.0	ug/Kg
000629-94-7	Heneicosane	1100	J		15.3	ug/Kg
006418-43-5	Hexadecane, 3-methyl-	540	J		15.7	ug/Kg
000119-61-9	Benzophenone	330	J		15.8	ug/Kg
013187-99-0	2-Bromo dodecane	1300	J		16.2	ug/Kg
000629-99-2	Pentacosane	970	J		16.9	ug/Kg
000638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	520	J		17.0	ug/Kg
000629-92-5	Nonadecane	840	J		17.7	ug/Kg
000090-60-8	Benzaldehyde, 3,5-dichloro-2-hydro	330	J		18.2	ug/Kg
000112-95-8	Eicosane	700	J		18.4	ug/Kg
1000432-25-9	3-Ethyl-2,6,10-trimethylundecane	550	J		19.0	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