

Eurofins Environment Testing Northeast, LLC
Eurofins Edison

COMPREHENSIVE STORM-WATER TESTING ON TTII PRO-MAX 37 TPE

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Eurofins Environment Testing Northeast, LLC

Eurofins Edison

TTII PRO-MAX 37 TPE Storm Water Testing

(testing derived from installed material)

Lab Job ID: 460-295056-1

Job Description: Stormwater

VOA-624.1-WATER				
Client ID	NJAC 7:9C	SWM-WP-20231218		
Lab Sample ID	GW QualStd	460-295056-1		
Sampling Date	ClassII A	12/18/2023 09:30:00		
Matrix	Higher Values	Water		
Dilution Factor		1		
Unit	ug/l	ug/l		
		Result	Q	MDL
WATER BY 624.1				
1,1,1-Trichloroethane	30	0.24	U	0.24
1,1,2,2-Tetrachloroethane	1	0.37	U	0.37
1,1,2-Trichloroethane	3	0.15	U	0.15
1,1-Dichloroethane	50	0.26	U	0.26
1,1-Dichloroethene	1	0.12	U	0.12
1,2,4-Trichlorobenzene	9	0.37	U	0.37
1,2-Dibromo-3-Chloropropane	0.02	0.38	U	0.38
1,2-Dibromoethane	0.03	0.50	U	0.50
1,2-Dichlorobenzene	600	0.19	U	0.19
1,2-Dichloroethane	2	0.84	U	0.84
1,2-Dichloropropane	1	0.35	U	0.35
1,3-Dichlorobenzene	600	0.13	U	0.13
1,4-Dichlorobenzene	75	0.18	U	0.18
2-Butanone	300	1.9	U	1.9
2-Hexanone	40	2.9	U	2.9
4-Methyl-2-pentanone	NA	2.7	U	2.7
Acetone	6000	5.0	U	5.0
Benzene	1	0.43	U	0.43
Bromodichloromethane	1	0.34	U	0.34
Bromoform	4	0.54	U	0.54
Bromomethane	10	0.45	U	0.45
Carbon disulfide	700	0.16	U	0.16
Carbon tetrachloride	1	0.21	U	0.21
Chlorobenzene	50	0.38	U	0.38
Chloroform	70	0.33	U	0.33
Chloromethane	NA	0.43	U	0.43
cis-1,2-Dichloroethene	70	0.22	U	0.22
cis-1,3-Dichloropropene	NA	0.46	U	0.46
Cyclohexane	NA	0.32	U	0.32
Dibromochloromethane	1	0.13	U	0.13
Dichlorodifluoromethane	1000	0.41	U	0.41
Ethyl Chloride	5	0.32	U	0.32
Ethylbenzene	700	0.30	U	0.30
Freon TF	20000	0.31	U	0.31
Isopropylbenzene	700	0.16	U	0.16
Methyl acetate	7000	0.31	U	0.31
Methylcyclohexane	NA	0.26	U	0.26
Methylene Chloride	3	0.32	U	0.32
MTBE	70	0.20	U	0.20
Styrene	100	0.42	U	0.42
Tetrachloroethene	1	0.25	U	0.25
Toluene	600	0.38	U	0.38
trans-1,2-Dichloroethene	100	0.24	U	0.24
trans-1,3-Dichloropropene	NA	0.22	U	0.22
Trichloroethene	1	0.31	U	0.31
Trichlorofluoromethane	2000	0.14	U	0.14
Vinyl chloride	1	0.34	U	0.34
Xylenes, Total	1000	0.65	U	0.65
Total Conc	NA			
Total Estimated Conc. (TICs)	NA	0.0*T		

*T There are no TICs reported for the sample

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

Jill Miller

Senior Project Manager

(484)802-0929

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Sampling Date	ClassII A	12/18/2023 09:30:00	
Matrix	Higher Values	Water	
Dilution Factor		1	
Unit	ug/l	ug/l	
		Result	Q
			MDL

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Lab Job ID: 460-295056-1

Job Description: Stormwater

SVOA-625.1-WATER				
Client ID	NJAC 7:9C	SWM-WP-20231218		
Lab Sample ID	GW QualStd	460-295056-1		
Sampling Date	ClassII A	12/18/2023 09:30:00		
Matrix	Higher Values	Water		
Dilution Factor		1		
Unit	ug/l	ug/l		
		Result	Q	MDL
WATER BY 625.1				
2,2'-oxybis[1-chloropropane]	300	0.63	U	0.63
2,4,5-Trichlorophenol	700	0.85	U	0.85
2,4,6-Trichlorophenol	20	0.70	U	0.70
2,4-Dichlorophenol	20	1.2	U	1.2
2,4-Dimethylphenol	100	0.66	U	0.66
2,4-Dinitrophenol	40	13	U	13
2,4-Dinitrotoluene	NA	1.0	U	1.0
2,6-Dinitrotoluene	NA	1.4	U	1.4
2-Chloronaphthalene	600	1.2	U	1.2
2-Chlorophenol	40	0.38	U	0.38
2-Methylnaphthalene	30	1.1	U	1.1
2-Methylphenol	50	0.67	U	0.67
2-Nitroaniline	NA	0.47	U	0.47
2-Nitrophenol	NA	1.9	U	1.9
3,3'-Dichlorobenzidine	30	3.3	U	3.3
3-Nitroaniline	NA	2.5	U	2.5
4,6-Dinitro-2-methylphenol	0.7	7.1	U	7.1
4-Bromophenyl phenyl ether	NA	0.75	U	0.75
4-Chloro-3-methylphenol	100	1.2	U	1.2
4-Chloroaniline	30	1.9	U	1.9
4-Chlorophenyl phenyl ether	NA	1.3	U	1.3
4-Methylphenol	50	0.76	U	0.76
4-Nitroaniline	NA	1.3	U	1.3
4-Nitrophenol	NA	1.7	U	1.7
Acenaphthene	400	1.1	U	1.1
Acenaphthylene	100	0.82	U	0.82
Acetophenone	700	2.5	U	2.5
Anthracene	2000	1.3	U	1.3
Atrazine	3	1.2	U	1.2
Benzaldehyde	NA	2.1	U	2.1
Benzo[a]anthracene	0.1	0.59	U	0.59
Benzo[a]pyrene	0.1	0.68	U	0.68
Benzo[b]fluoranthene	0.2	1.4	U	1.4
Benzo[g,h,i]perylene	100	1.3	U	1.3
Benzo[k]fluoranthene	0.5	0.67	U	0.67
Bis(2-chloroethoxy)methane	NA	0.64	U	0.64
Bis(2-chloroethyl)ether	7	0.69	U	0.69
Bis(2-ethylhexyl) phthalate	3	1.0	U	1.0
Butyl benzyl phthalate	100	0.85	U	0.85
Caprolactam	4000	2.8	U	2.8
Carbazole	NA	0.68	U	0.68
Chrysene	5	0.91	U	0.91
Dibenz(a,h)anthracene	0.3	0.74	U	0.74
Dibenzofuran	NA	1.1	U	1.1
Diethyl phthalate	6000	0.98	U	0.98
Dimethyl phthalate	100	1.6	U	1.6
Di-n-butyl phthalate	700	0.75	U	0.75
Di-n-octyl phthalate	100	1.4	U	1.4
Diphenyl	400	1.2	U	1.2
Fluoranthene	300	0.84	U	0.84
Fluorene	300	0.91	U	0.91
Hexachlorobenzene	0.02	0.91	U	0.91
Hexachlorobutadiene	1	0.44	U	0.44
Hexachlorocyclopentadiene	40	1.7	U	1.7
Hexachloroethane	7	1.2	U	1.2
Indeno[1,2,3-cd]pyrene	0.2	1.3	U	1.3
Isophorone	40	1.9	U	1.9
Naphthalene	300	1.1	U	1.1
Nitrobenzene	6	1.6	U	1.6
N-Nitrosodi-n-propylamine	10	0.98	U	0.98
N-Nitrosodiphenylamine	10	0.89	U	0.89

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SVOA-625.1-WATER				
Client ID	NJAC 7:9C	SWM-WP-20231218		
Lab Sample ID	GW QualStd	460-295056-1		
Sampling Date	ClassII A	12/18/2023 09:30:00		
Matrix	Higher Values	Water		
Dilution Factor		1		
Unit	ug/l	ug/l		
		Result	Q	MDL
Pentachlorophenol	0.3	7.1	U	7.1
Phenanthrene	100	1.5	U	1.5
Phenol	2000	1.2	U	1.2
Pyrene	200	1.6	U	1.6
Total Conc	NA			

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

Jill Miller

Senior Project Manager

(484)802-0929

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Job Description: Stormwater

GCSVOA-608.3-WATER		NJAC 7:9C SWM-WP-20231218		
Client ID	NJAC 7:9C	GW QualStds	460-295056-1	
Lab Sample ID	ClassII A	12/18/2023 09:30:00		
Sampling Date	Higher Values			Water
Matrix	10			
Dilution Factor	ug/l	ug/l		
Unit		Result	Q	MDL
WATER BY 608.3				
4,4'-DDD	0.1	0.040	U	0.040
4,4'-DDE	0.1	0.020	U	0.020
4,4'-DDT	0.1	0.040	U	0.040
Aldrin	0.04	0.030	U	0.030
alpha-BHC	0.02	0.13	U	0.13
Aroclor 1016	NA	1.4	U	1.4
Aroclor 1221	NA	1.4	U	1.4
Aroclor 1232	NA	1.4	U	1.4
Aroclor 1242	NA	1.4	U	1.4
Aroclor 1248	NA	1.4	U	1.4
Aroclor 1254	NA	0.69	U	0.69
Aroclor 1260	NA	0.69	U	0.69
Aroclor 1262	NA	0.69	U	0.69
Aroclor 1268	NA	0.69	U	0.69
beta-BHC	0.04	0.13	U	0.13
Chlordane	NA	2.2	U	2.2
delta-BHC	NA	0.020	U	0.020
Dieldrin	0.03	0.080	U	0.080
Endosulfan I	40	0.23	U	0.23
Endosulfan II	40	0.060	U	0.060
Endosulfan sulfate	40	0.060	U	0.060
Endrin	2	0.25	U	0.25
Endrin aldehyde	NA	0.030	U	0.030
Endrin ketone	NA	0.14	U	0.14
gamma-BHC (Lindane)	0.03	0.030	U	0.030
Heptachlor	0.05	0.080	U	0.080
Heptachlor epoxide	0.2	0.040	U	0.040
Methoxychlor	40	0.36	U	0.36
Toxaphene	2	0.35	U	0.35

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METALS-WATER					
Matrix	Higher Values	Water			
Unit		Result	Q	MDL	
WATER BY 200.8(UG/L)					
Aluminum	200	345		19.8	
Antimony	6	0.65	U	0.65	
Arsenic	3	6.0		0.66	
Barium	6000	5.3		1.3	
Beryllium	1	0.23	U	0.23	
Cadmium	4	0.54	U	0.54	
Calcium	NA	18000		86.2	
Chromium	70	1.4	U	1.4	
Cobalt	100	0.48	U	0.48	
Copper	1300	6.3		1.1	
Iron	300	455		20.6	
Lead	5	0.56	J	0.53	
Magnesium	NA	7110		34.1	
Manganese	50	13.1		0.98	
Nickel	100	1.5	U	1.5	
Potassium	NA	5120		92.1	
Selenium	40	1.0	U	1.0	
Silver	40	0.27	U	0.27	
Sodium	50000	13500		282	
Thallium	2	0.17	U	0.17	
Vanadium	NA	8.2		1.8	
Zinc	2000	12.0	J	6.6	
WATER BY 245.1(UG/L)					
Mercury	2	0.091	U	0.091	

Highlighted Concentrations shown in bold type face exceed limits

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

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Job Description: Stormwater

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WETCHEM-WATER			
Matrix	Higher Values	Water	
		Result	Q
WATER BY 2540D-2015			MDL
Total Suspended Solids (mg/l)	NA	5.5	2.5
WATER BY 335.4			
Cyanide, Total (mg/l)	0.1	0.029	0.0040
WATER BY SM 2540C			
Total Dissolved Solids (mg/l)	500	198	2.5
WATER BY SM 4500 H+B			
pH (su)	NA	8.5	HF
Temperature (degrees c)	NA	20.9	HF
WATER BY SM 4500 P E			
Orthophosphate as P (mg/l)	NA	0.018	J 0.0050

HF : Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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TII PRO-MAX 37 TPE Storm Water Testing

(testing derived from installed material)

Lab Job ID: 460-295056-1

Job Description: Stormwater

HPLC-IC-300.0-WATER		
Client ID	NJAC 7:9C	SWM-WP-20231218
Lab Sample ID	GW QualStds	460-295056-1
Sampling Date	ClassII A	12/18/2023 09:30:00
Matrix	Higher Values	Water
Dilution Factor		1
Unit	mg/l	mg/l
	Result	Q
WATER BY 300.0		MDL
Nitrate as N	10	0.23
		0.070

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Job Description: Stormwater

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LCMS-537 (MODIFIED)-WATER				
Client ID	NJAC 7:9C	SWM-WP-20231218		
Lab Sample ID	GW QualStds	460-295056-1		
Sampling Date	ClassII A	12/18/2023 09:30:00		
Matrix	Higher Values	Water		
Dilution Factor		1		
Unit	ng/l	ng/l		
WATER BY 537 (MODIFIED)				
Perfluorononanoic acid (PFNA)	NA	Result	Q	MDL
Perfluorooctanesulfonic acid (PFOS)	NA	0.60	J	0.19
Perfluorooctanoic acid (PFOA)	NA	0.65	J	0.44
		1.05	J	0.36

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Lab Contact:

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Senior Project Manager

(484)802-0929

https://acwi.gov/monitoring/webinars/mp_sl_qa_services_intro_rls_012517.pdf

"Method detection limit," or "MDL," means the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. The MDL is generated according to the procedure specified in the latest revision of 40 CFR Part 136, Appendix B.

"Limit of detection" or "LOD" means the lowest concentration or amount of analyte that can be identified, measured and reported with confidence that the concentration is not a false positive value. The department considers the LOD to be equivalent to the method detection limit.

Method Detection Limit

- 40 CFR Appendix B to Part 136 - Definition and Procedure for the Determination of the Method Detection Limit - Revision 2
- o Google: e-CFR title 40 part 136, go to App. B
- Definition: The method detection limit (MDL) is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. (EPA 821-R-16-006 December 2016)
- The MDL for an analytical procedure may vary as a function of sample type. The procedure requires a complete, specific, and well-defined analytical method. It is essential that all sample processing steps of the analytical method be included in the determination of the method detection limit.

The smallest concentration (or amount) of analyte, that can be reported by a laboratory is called the reporting limit. It must be said that different agencies use slightly different definitions of reporting limit.

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TTII PRO-MAX 37 TPE Storm Water Te
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Lab Job ID: 460-295056-1

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LCMS-537 (MODIFIED)-WATER	
Client ID	
Lab Sample ID	
Sampling Date	
Matrix	
Dilution Factor	
Unit	
WATER BY 537 (MODIFIED)	
Perfluorononanoic acid (PFNA)	
Perfluorooctanesulfonic acid (PFOS)	
Perfluorooctanoic acid (PFOA)	

J : Result is less than the RL but greater than

Lab Contact:

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Senior Project Manager

(484)802-0929

https://acwi.gov/monitoring/webinars/mp_sl_qa_services_intro_rls_012517.pdf

"Method detection limit," or "MDL," means method blank results. The MDL is generated by the method. The department considers the LOD to be equal to the MDL.

Method Detection Limit

- 40 CFR Appendix B to Part 136 - Definition of the Method Detection Limit. To Google: e-CFR title 40 part 136, go to Appendix B.
- Definition: The method detection limit (MDL) is the measured concentration of a substance that is detected with a confidence that the measured concentration is not due to method blank results. (EPA 821-R-16-006 D)
- The MDL for an analytical procedure may be determined by the type of analytical method. It is essential that all sample types be included in the determination of the detection limit.

The smallest concentration (or amount) of a substance that can be detected: