

SUMMARY OF ANALYTICAL RESULTS: 460-177177-1

Job Description: NJTA TMD-8 CARWASH

For:

New Jersey Turnpike Authority

PO BOX 5042

Woodbridge, New Jersey 07095-5042

Client ID	NJ_SRS7_26D_Tbl1A	NJ_SRS7_26D_Tbl1B	NJDEP	TMD 8 CARWASH-001		
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-177177-1		
Sampling Date	Sept_2017	Sept_2017	Nov_2013	03/14/2019 10:30:00		
Matrix				Soil		
Dilution Factor				1		
Unit	mg/kg	mg/kg	mg/kg	mg/kg		
VOA-8260C-SOIL				Result	Q	MDL
SOIL BY 8260C						
1,1,1-Trichloroethane	160000	NA	0.3	0.00026	U	0.00026
1,1,2,2-Tetrachloroethane	1	3	0.007	0.00024	U	0.00024
1,1,2-Trichloroethane	2	6	0.02	0.00020	U	0.00020
1,1-Dichloroethane	8	24	0.2	0.00023	U	0.00023
1,1-Dichloroethene	11	150	0.008	0.00025	U	0.00025
1,2-Dichloroethane	0.9	3	0.005	0.00033	U	0.00033
1,2-Dichloropropane	2	5	0.005	0.00048	U	0.00048
2-Chloroethyl vinyl ether	NA	NA	NA	0.00019	U	0.00019
Acrolein	0.5	1	0.5	0.032	U	0.032
Acrylonitrile	0.9	3	0.5	0.0019	U	0.0019
Benzene	2	5	0.005	0.00039	J	0.00029
Bromoform	81	280	0.03	0.00048	U	0.00048
Bromomethane	25	59	0.04	0.00054	U	0.00054
Carbon tetrachloride	2	4	0.005	0.00020	U	0.00020
Chlorobenzene	510	7400	0.6	0.00020	U	0.00020
Chlorodibromomethane	3	8	0.005	0.00022	U	0.00022
Chloroethane	220	1100	NA	0.00059	U	0.00059
Chloroform	0.6	2	0.4	0.00036	U	0.00036
Chloromethane	4	12	NA	0.00049	U	0.00049
cis-1,2-Dichloroethene	230	560	0.3	0.00017	U	0.00017
cis-1,3-Dichloropropene	NA	NA	0.005	0.00031	U	0.00031
Dichlorobromomethane	1	3	0.005	0.00029	U	0.00029
Ethylbenzene	7800	110000	13	0.00077	J	0.00023
Methylene Chloride	46	230	0.01	0.016		0.00018
Tetrachloroethene	43	1500	0.005	0.00016	U	0.00016
Toluene	6300	91000	7	0.0023		0.00071
trans-1,2-Dichloroethene	300	720	0.6	0.00028	U	0.00028
trans-1,3-Dichloropropene	NA	NA	0.005	0.00030	U	0.00030
Trichloroethene	3	10	0.01	0.00016	U	0.00016
Trichlorofluoromethane	23000	340000	34	0.00046	U	0.00046
Vinyl chloride	0.7	2	0.005	0.00062	U	0.00062
Xylenes, Total	12000	170000	19	0.004		0.00029
Total Conc	NA	NA	NA	0.02346		
Total Estimated Conc. (TICs)	NA	NA	NA	0.1177		

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.

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Sampling Date	03/14/2019 10:30:00		
Matrix	Soil		
Dilution Factor	1		
Unit	mg/kg		
VOA-8260C-SOIL-TIC	Result	Q	RT mm:ss
SOIL TICS BY 8260C			
Unknown	0.0089	J	00:49
Unknown	0.016	J	01:30
Unknown	0.019	J	13:18
Dodecane	0.013	J N	14:24
Tridecane	0.012	J N	15:02
Unknown	0.0058	J	15:31
Tetradecane	0.022	J N	15:39
Dodecanal	0.021	J N	16:05

RT mm:ss Retention Time in mm:ss format

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Client ID	NJ_SRS7_26D_Tbl1A	NJ_SRS7_26D_Tbl1B	NJDEP	TMD 8 CARWASH-001		
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-177177-1		
Sampling Date	Sept_2017	Sept_2017	Nov_2013	03/14/2019 10:30:00		
Matrix				Soil		
Dilution Factor				1		
Unit	mg/kg	mg/kg	mg/kg	mg/kg		
SVOA-8270D-SOIL				Result	Q	MDL
SOIL BY 8270D						
1,2,4-Trichlorobenzene	73	820	0.7	0.0045	U	0.0045
1,2-Dichlorobenzene	5300	59000	17	0.0069	U	0.0069
1,2-Diphenylhydrazine	0.7	2	0.7	0.0074	U	0.0074
1,3-Dichlorobenzene	5300	59000	19	0.0054	U	0.0054
1,4-Dichlorobenzene	5	13	2	0.0085	U	0.0085
2,2'-oxybis[1-chloropropane]	NA	NA	5	0.0073	U	0.0073
2,4,6-Trichlorophenol	19	74	0.2	0.020	U	0.020
2,4-Dichlorophenol	180	2100	0.2	0.0086	U	0.0086
2,4-Dimethylphenol	1200	14000	1	0.018	U	0.018
2,4-Dinitrophenol	120	1400	0.3	0.20	U	0.20
2,4-Dinitrotoluene	0.7	3	NA	0.021	U	0.021
2,6-Dinitrotoluene	0.7	3	NA	0.013	U	0.013
2-Chloronaphthalene	NA	NA	NA	0.019	U	0.019
2-Chlorophenol	310	2200	0.8	0.0057	U	0.0057
2-Nitrophenol	NA	NA	NA	0.013	U	0.013
3,3'-Dichlorobenzidine	1	4	0.2	0.061	U	0.061
4,6-Dinitro-2-methylphenol	6	68	0.3	0.15	J	0.066
4-Bromophenyl phenyl ether	NA	NA	NA	0.0052	U	0.0052
4-Chloro-3-methylphenol	NA	NA	NA	0.0067	U	0.0067
4-Chlorophenyl phenyl ether	NA	NA	NA	0.0064	U	0.0064
4-Nitrophenol	NA	NA	NA	0.066	U	0.066
Acenaphthene	3400	37000	110	0.10	J	0.030

Acenaphthylene	NA	300000	NA	0.011	J	0.0042
Anthracene	17000	30000	2400	0.0045	U	0.0045
Benidine	0.7	0.7	0.7	0.013	U	0.013
Benzo[a]anthracene	5	17	0.8	0.11		0.014
Benzo[a]pyrene	0.5	2	0.2	0.11		0.011
Benzo[b]fluoranthene	5	17	2	0.20		0.010
Benzo[g,h,i]perylene	380000	30000	NA	0.094	J	0.012
Benzo[k]fluoranthene	45	170	25	0.075		0.008
Bis(2-chloroethoxy)methane	NA	NA	NA	0.014	U	0.014
Bis(2-chloroethyl)ether	0.4	2	0.2	0.0049	U	0.0049
Bis(2-ethylhexyl) phthalate	35	140	1200	1.7		0.021
Butyl benzyl phthalate	1200	14000	230	0.58		0.019
Chrysene	450	1700	80	0.17	J	0.0069
Dibenz(a,h)anthracene	0.5	2	0.8	0.025	J	0.018
Diethyl phthalate	49000	550000	88	0.0059	U	0.0059
Dimethyl phthalate	NA	NA	NA	0.0049	U	0.0049
Di-n-butyl phthalate	6100	68000	760	0.077	J	0.072
Di-n-octyl phthalate	2400	27000	3300	0.021	U	0.021
Fluoranthene	2300	24000	1300	0.24	J	0.0053
Fluorene	2300	24000	170	0.014	J	0.0055
Hexachlorobenzene	0.3	1	0.2	0.0059	U	0.0059
Hexachlorobutadiene	6	25	0.9	0.0086	U	0.0086
Hexachlorocyclopentadiene	45	110	320	0.036	U	0.036
Hexachloroethane	12	48	0.2	0.0063	U	0.0063
Indeno[1,2,3-cd]pyrene	5	17	7	0.085		0.016
Isophorone	510	2000	0.2	0.011	U	0.011
Naphthalene	6	17	25	0.015	J	0.007
Nitrobenzene	5	14	0.2	0.0097	U	0.0097
N-Nitrosodimethylamine	0.7	0.7	0.7	0.0057	U	0.0057
N-Nitrosodi-n-propylamine	0.2	0.3	0.2	0.0065	U	0.0065
N-Nitrosodiphenylamine	99	390	0.4	0.0078	U	0.0078
Pentachlorophenol	0.9	3	0.3	0.083	U	0.083
Phenanthrene	NA	300000	NA	0.15	J	0.0071
Phenol	18000	210000	8	0.49		0.006
Pyrene	1700	18000	840	0.27	J	0.010
Total Conc	NA	NA	NA	4.666		
Total Estimated Conc. (TICs)	NA	NA	NA	120.62		

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Client ID	TMD 8 CARWASH-001		
Lab Sample ID	460-177177-1		
Sampling Date	03/14/2019 10:30:00		
Matrix	Soil		
Dilution Factor	1		
Unit	mg/kg		
SVOA-8270D-SOIL-TIC	Result	Q	RT mm:ss
SOIL TICS BY 8270D			
2-Dodecanone	0.91	J N	06:34
Unknown	1.8	J	06:50
Unknown	1.3	J	07:33
Unknown	1.0	J	07:51
Unknown	4.6	J	08:05
Unknown	1.5	J	08:17
Pentadecane	0.90	J N	08:27
Unknown	4.3	J	08:49
1-Tridecanamine, N,N-dimethyl-	5.4	J N	08:54
Unknown	1.5	J	09:02
Unknown	1.0	J	09:16
Unknown	2.0	J	09:33
Unknown	2.3	J	09:37
Unknown	4.0	J	09:49
Unknown	1.5	J	11:19
Unknown	7.8	J	12:12
Unknown	4.1	J	13:10
Unknown	1.3	J	13:49
Unknown	0.69	J	13:57
Unknown	0.82	J	14:12
Unknown	1.5	J	14:16
Unknown	0.83	J	15:08
Unknown	0.85	J	16:00
Unknown	1.2	J	16:08
Unknown	0.92	J	16:24

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Lab Sample ID	Residential	Non-Residential	IGW Screening	460-177177-1		
Sampling Date	Sept_2017	Sept_2017	Nov_2013	03/14/2019 10:30:00		
Matrix				Soil		
Dilution Factor				2		
Unit	mg/kg	mg/kg	mg/kg	mg/kg		
GCSVOA-8081B-SOIL				Result	Q	MDL
SOIL BY 8081B						
4,4'-DDD	3	13	4	0.0028	U	0.0028
4,4'-DDE	2	9	18	0.0019	U	0.0019
4,4'-DDT	2	8	11	0.003	U	0.003
Aldrin	0.04	0.2	0.2	0.0025	U	0.0025
alpha-BHC	0.1	0.5	0.002	0.0017	U	0.0017
beta-BHC	0.4	2	0.002	0.0018	U	0.0018
Chlordane (technical)	NA	NA	NA	0.040	U	0.040
delta-BHC	NA	NA	NA	0.001	U	0.001
Dieldrin	0.04	0.2	0.003	0.0021	U	0.0021
Endosulfan I	NA	NA	NA	0.0025	U	0.0025
Endosulfan II	NA	NA	NA	0.0042	U	0.0042
Endosulfan sulfate	470	6800	2	0.0021	U	0.0021
Endrin	23	340	1	0.0024	U	0.0024
Endrin aldehyde	NA	NA	NA	0.0039	U	0.0039
gamma-BHC (Lindane)	0.4	2	0.002	0.0015	U	0.0015
Heptachlor	0.1	0.7	0.5	0.0019	U	0.0019
Heptachlor epoxide	0.07	0.3	0.01	0.0025	U	0.0025
Toxaphene	0.6	3	0.3	0.059	U	0.059

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Lab Sample ID	Residential	Non-Residential	IGW Screening	460-177177-1		
Sampling Date	Sept_2017	Sept_2017	Nov_2013	03/14/2019 10:30:00		
Matrix				Soil		
Dilution Factor				1		
Unit	mg/kg	mg/kg	mg/kg			mg/kg
GCSVOA-8082A-SOIL				Result	Q	MDL
SOIL BY 8082A						
Aroclor 1016	NA	NA	NA	0.011	U	0.011
Aroclor 1221	NA	NA	NA	0.011	U	0.011
Aroclor 1232	NA	NA	NA	0.011	U	0.011
Aroclor 1242	NA	NA	NA	0.011	U	0.011
Aroclor 1248	NA	NA	NA	0.011	U	0.011
Aroclor 1254	NA	NA	NA	0.063	J	0.011
Aroclor 1260	NA	NA	NA	0.011	U	0.011
Aroclor 1268	NA	NA	NA	0.011	U	0.011
Aroclor-1262	NA	NA	NA	0.011	U	0.011
Total PCBs	0.2	1	0.2	0.063	J	0.011

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Lab Sample ID	Residential	Non-Residential	IGW Screening	460-177177-1	
Sampling Date	Sept_2017	Sept_2017	Nov_2013	03/14/2019 10:30:00	
Matrix				Soil	
Unit					
METALS-SOIL				Result	Q
SOIL BY 6020B(MG/KG)					
Antimony	31	450	6	2.6	
Arsenic	19	19	19	6.1	
Beryllium	16	140	0.7	0.20	U
Cadmium	78	78	2	0.41	U
Chromium	NA	NA	NA	225	
Copper	3100	45000	11000	195	
Lead	400	800	90	36.0	
Nickel	1600	23000	48	94.7	
Selenium	390	5700	11	0.35	U
Silver	390	5700	1	0.75	U
Thallium	NA	NA	3	0.15	U
Zinc	23000	110000	930	775	
SOIL BY 7471B(MG/KG)					
Mercury	23	65	0.1	0.015	J

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Lab Sample ID	Residential	Non-Residential	IGW Screening	460-177177-1		
Sampling Date	Sept_2017	Sept_2017	Nov_2013	03/14/2019 10:30:00		
Matrix				Soil		
WETCHEM-SOIL				Result	Q	MDL
SOIL BY 9012B						
Cyanide, Total (mg/kg)	47	680	20	0.24	J	0.12

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

Lab Contact:
 Omayra Penas
 Senior Project Manager
 (732)593-2538