



Sample Information

Client Sample ID: GB-7 TW

York Sample ID: 20G0129-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0129

416 Waverly Avenue Mamaroneck, New York

Soil

July 2, 2020 12:00 am

07/06/2020

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	10.6		mg/kg dry	1.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:41	KML
7440-09-7	Potassium	1320		mg/kg dry	5.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:41	KML
7782-49-2	Selenium	ND		mg/kg dry	2.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:41	KML
7440-22-4	Silver	ND		mg/kg dry	0.517	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:41	KML
7440-23-5	Sodium	ND		mg/kg dry	51.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:41	KML
7440-28-0	Thallium	ND		mg/kg dry	2.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:41	KML
7440-62-2	Vanadium	12.9		mg/kg dry	1.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:41	KML
7440-66-6	Zinc	19.3		mg/kg dry	2.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:41	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0310	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	07/07/2020 09:04	07/07/2020 13:06	SY

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	96.7		%	0.100	1	SM 2540G Certifications: CTDOH	07/07/2020 08:05	07/07/2020 16:08	WJM

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416 Waverly Avenue Mamaroneck, New York

Water

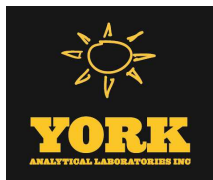
July 2, 2020 12:00 am

07/06/2020

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:



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416 Waverly Avenue Mamaroneck, New York

Water

July 2, 2020 12:00 am

07/06/2020

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/08/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 23:18	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/08/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 23:18	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/08/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 23:18	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/08/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 23:18	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/08/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 23:18	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/08/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 23:18	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/08/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 23:18	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/08/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 23:18	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/08/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 23:18	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/08/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/08/2020 23:18	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	07/08/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/08/2020 23:18	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/08/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 23:18	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/08/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 23:18	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/08/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 23:18	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/08/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 23:18	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	07/08/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/08/2020 23:18	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	114 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	93.7 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	110 %	79-122								

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW
208-96-8	Acenaphthylene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW



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Water

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Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW
218-01-9	Chrysene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW
206-44-0	Fluoranthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW
86-73-7	Fluorene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW
91-20-3	Naphthalene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW
85-01-8	Phenanthrene	0.0700		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW
129-00-0	Pyrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 18:44	OW
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	72.0 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	67.1 %	39.9-105								
1718-51-0	Surrogate: SURR: Terphenyl-d14	99.8 %	30.7-106								

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416 Waverly Avenue Mamaroneck, New York

Soil

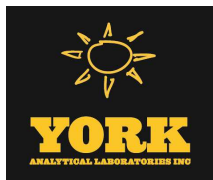
July 2, 2020 12:00 am

07/06/2020

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:



Sample Information

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416 Waverly Avenue Mamaroneck, New York

Soil

July 2, 2020 12:00 am

07/06/2020

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications:	07/07/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 16:30	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications:	07/07/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 16:30	SS
71-43-2	Benzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications:	07/07/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 16:30	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications:	07/07/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 16:30	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications:	07/07/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 16:30	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications:	07/07/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 16:30	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA 8260C Certifications:	07/07/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 16:30	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications:	07/07/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 16:30	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications:	07/07/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 16:30	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications:	07/07/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/07/2020 16:30	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications:	07/07/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/07/2020 16:30	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications:	07/07/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 16:30	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications:	07/07/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 16:30	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications:	07/07/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 16:30	SS
108-88-3	Toluene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications:	07/07/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/07/2020 16:30	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications:	07/07/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/07/2020 16:30	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	99.7 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	98.8 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %	76-130								

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW



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Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW
218-01-9	Chrysene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW
206-44-0	Fluoranthene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW
86-73-7	Fluorene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW
91-20-3	Naphthalene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW
85-01-8	Phenanthrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW
129-00-0	Pyrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 14:22	07/09/2020 10:55	OW
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	92.9 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	61.8 %	21-113								
1718-51-0	Surrogate: SURR: Terphenyl-d14	65.4 %	24-116								

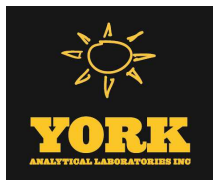
Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/08/2020 07:53	07/09/2020 06:00	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/08/2020 07:53	07/09/2020 06:00	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/08/2020 07:53	07/09/2020 06:00	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/08/2020 07:53	07/09/2020 06:00	BJ



Sample Information

Client Sample ID: GB-8 TW

York Sample ID: 20G0129-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0129

416 Waverly Avenue Mamaroneck, New York

Soil

July 2, 2020 12:00 am

07/06/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/08/2020 07:53	07/09/2020 06:00	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/08/2020 07:53	07/09/2020 06:00	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	07/08/2020 07:53	07/09/2020 06:00	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications:	07/08/2020 07:53	07/09/2020 06:00	BJ
Surrogate Recoveries		Result		Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	71.0 %		30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	83.0 %		30-140						

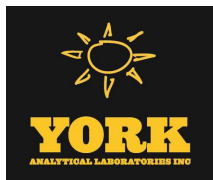
Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5810		mg/kg dry	5.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7440-36-0	Antimony	ND		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7440-38-2	Arsenic	ND		mg/kg dry	1.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7440-39-3	Barium	34.7		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.341	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7440-70-2	Calcium	858		mg/kg dry	5.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7440-47-3	Chromium	9.58		mg/kg dry	0.568	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7440-48-4	Cobalt	6.09		mg/kg dry	0.455	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7440-50-8	Copper	11.6		mg/kg dry	2.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7439-89-6	Iron	10200		mg/kg dry	28.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7439-92-1	Lead	3.29		mg/kg dry	0.568	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7439-95-4	Magnesium	1940		mg/kg dry	5.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7439-96-5	Manganese	541		mg/kg dry	0.568	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML



Sample Information

Client Sample ID: GB-8 TW

York Sample ID: 20G0129-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0129

416 Waverly Avenue Mamaroneck, New York

Soil

July 2, 2020 12:00 am

07/06/2020

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	10.5		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7440-09-7	Potassium	1340		mg/kg dry	5.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7782-49-2	Selenium	ND		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7440-22-4	Silver	ND		mg/kg dry	0.568	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7440-23-5	Sodium	95.2		mg/kg dry	56.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7440-28-0	Thallium	ND		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7440-62-2	Vanadium	12.1		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML
7440-66-6	Zinc	16.4		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/07/2020 09:01	07/08/2020 13:43	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0341	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	07/07/2020 09:04	07/07/2020 13:15	SY

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	88.0		%	0.100	1	SM 2540G Certifications: CTDOH	07/07/2020 08:07	07/08/2020 08:19	WJM

Sample Information

Client Sample ID: GB-8 TW

York Sample ID: 20G0129-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0129

416 Waverly Avenue Mamaroneck, New York

Water

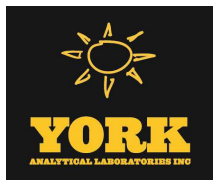
July 2, 2020 12:00 am

07/06/2020

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: GB-8 TW

York Sample ID: 20G0129-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0129

416 Waverly Avenue Mamaroneck, New York

Water

July 2, 2020 12:00 am

07/06/2020

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:30	07/08/2020 23:46	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:30	07/08/2020 23:46	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:30	07/08/2020 23:46	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:30	07/08/2020 23:46	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:30	07/08/2020 23:46	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:30	07/08/2020 23:46	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:30	07/08/2020 23:46	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:30	07/08/2020 23:46	SS
103-65-1	n-Propylbenzene	0.31	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:30	07/08/2020 23:46	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/08/2020 12:30	07/08/2020 23:46	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/08/2020 12:30	07/08/2020 23:46	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:30	07/08/2020 23:46	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:30	07/08/2020 23:46	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:30	07/08/2020 23:46	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/08/2020 12:30	07/08/2020 23:46	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/08/2020 12:30	07/08/2020 23:46	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	95.6 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	111 %	79-122								

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW
208-96-8	Acenaphthylene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW



Sample Information

Client Sample ID: GB-8 TW

York Sample ID: 20G0129-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20G0129

416 Waverly Avenue Mamaroneck, New York

Water

July 2, 2020 12:00 am

07/06/2020

Semi-Volatiles, CP-51 (formerly STARS)-Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW
218-01-9	Chrysene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW
206-44-0	Fluoranthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW
86-73-7	Fluorene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW
91-20-3	Naphthalene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW
85-01-8	Phenanthrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW
129-00-0	Pyrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/08/2020 14:44	07/09/2020 19:15	OW
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	67.4 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	62.4 %	39.9-105								
1718-51-0	Surrogate: SURR: Terphenyl-d14	86.5 %	30.7-106								



Analytical Batch Summary

Batch ID: BG00266 **Preparation Method:** % Solids Prep **Prepared By:** WJM

YORK Sample ID	Client Sample ID	Preparation Date
20G0129-01	GB-1 TW	07/07/20
20G0129-03	GB-3 TW	07/07/20
20G0129-05	GB-5 TW	07/07/20
20G0129-07	GB-6 TW	07/07/20
20G0129-09	GB-7 TW	07/07/20
BG00266-DUP1	Duplicate	07/07/20

Batch ID: BG00267 **Preparation Method:** % Solids Prep **Prepared By:** WJM

YORK Sample ID	Client Sample ID	Preparation Date
20G0129-11	GB-8 TW	07/07/20

Batch ID: BG00271 **Preparation Method:** EPA 3050B **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20G0129-01	GB-1 TW	07/07/20
20G0129-07	GB-6 TW	07/07/20
20G0129-09	GB-7 TW	07/07/20
20G0129-11	GB-8 TW	07/07/20
BG00271-BLK1	Blank	07/07/20
BG00271-SRM1	Reference	07/07/20

Batch ID: BG00276 **Preparation Method:** EPA 5035A **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20G0129-01	GB-1 TW	07/07/20
20G0129-03	GB-3 TW	07/07/20
20G0129-05	GB-5 TW	07/07/20
20G0129-07	GB-6 TW	07/07/20
20G0129-09	GB-7 TW	07/07/20
20G0129-11	GB-8 TW	07/07/20
BG00276-BLK1	Blank	07/07/20
BG00276-BLK2	Blank	07/07/20
BG00276-BS1	LCS	07/07/20
BG00276-BSD1	LCS Dup	07/07/20

Batch ID: BG00279 **Preparation Method:** EPA 7473 soil **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20G0129-01	GB-1 TW	07/07/20
20G0129-07	GB-6 TW	07/07/20
20G0129-09	GB-7 TW	07/07/20
20G0129-11	GB-8 TW	07/07/20



BG00279-BLK1	Blank	07/07/20
BG00279-SRM1	Reference	07/07/20

Batch ID: BG00299 **Preparation Method:** EPA 3550C **Prepared By:** MAM

YORK Sample ID	Client Sample ID	Preparation Date
20G0129-11	GB-8 TW	07/07/20
BG00299-BLK1	Blank	07/07/20
BG00299-BS1	LCS	07/07/20

Batch ID: BG00333 **Preparation Method:** EPA 3550C **Prepared By:** PD

YORK Sample ID	Client Sample ID	Preparation Date
20G0129-01	GB-1 TW	07/08/20
20G0129-07	GB-6 TW	07/08/20
20G0129-09	GB-7 TW	07/08/20
20G0129-11	GB-8 TW	07/08/20
BG00333-BLK2	Blank	07/08/20
BG00333-BS2	LCS	07/08/20

Batch ID: BG00337 **Preparation Method:** EPA 3510C **Prepared By:** AEL

YORK Sample ID	Client Sample ID	Preparation Date
20G0129-02	GB-1 TW	07/08/20
20G0129-04	GB-3 TW	07/08/20
20G0129-06	GB-5 TW	07/08/20
20G0129-08	GB-6 TW	07/08/20
20G0129-10	GB-7 TW	07/08/20
20G0129-12	GB-8 TW	07/08/20
BG00337-BLK1	Blank	07/08/20
BG00337-BS1	LCS	07/08/20
BG00337-BSD1	LCS Dup	07/08/20

Batch ID: BG00368 **Preparation Method:** EPA 5030B **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20G0129-02	GB-1 TW	07/08/20
20G0129-04	GB-3 TW	07/08/20
20G0129-06	GB-5 TW	07/08/20
20G0129-08	GB-6 TW	07/08/20
20G0129-10	GB-7 TW	07/08/20
20G0129-12	GB-8 TW	07/08/20
BG00368-BLK1	Blank	07/08/20
BG00368-BS1	LCS	07/08/20
BG00368-BSD1	LCS Dup	07/08/20

Batch ID: BG00426 **Preparation Method:** EPA 3550C **Prepared By:** PD



YORK Sample ID	Client Sample ID	Preparation Date
20G0129-01	GB-1 TW	07/09/20
20G0129-03	GB-3 TW	07/09/20
20G0129-05	GB-5 TW	07/09/20
20G0129-07	GB-6 TW	07/09/20
20G0129-09	GB-7 TW	07/09/20
BG00426-BS1	LCS	07/09/20



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00276 - EPA 5035A

Blank (BG00276-BLK1)

Prepared & Analyzed: 07/07/2020

1,2,4-Trimethylbenzene	ND	5.0	ug/kg wet							
1,3,5-Trimethylbenzene	ND	5.0	"							
Benzene	ND	5.0	"							
Ethyl Benzene	ND	5.0	"							
Isopropylbenzene	ND	5.0	"							
Methyl tert-butyl ether (MTBE)	ND	5.0	"							
Naphthalene	ND	10	"							
n-Butylbenzene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
o-Xylene	ND	5.0	"							
p- & m- Xylenes	ND	5.0	"							
p-Isopropyltoluene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Toluene	ND	5.0	"							
Xylenes, Total	ND	5.0	"							
Surrogate: SURR: 1,2-Dichloroethane-d4	48.9		ug/L	50.0		97.9	77-125			
Surrogate: SURR: Toluene-d8	49.6		"	50.0		99.1	85-120			
Surrogate: SURR: p-Bromofluorobenzene	51.8		"	50.0		104	76-130			

Blank (BG00276-BLK2)

Prepared & Analyzed: 07/07/2020

1,2,4-Trimethylbenzene	ND	500	ug/kg wet							
1,3,5-Trimethylbenzene	ND	500	"							
Benzene	ND	500	"							
Ethyl Benzene	ND	500	"							
Isopropylbenzene	ND	500	"							
Methyl tert-butyl ether (MTBE)	ND	500	"							
Naphthalene	ND	1000	"							
n-Butylbenzene	ND	500	"							
n-Propylbenzene	ND	500	"							
o-Xylene	ND	500	"							
p- & m- Xylenes	ND	500	"							
p-Isopropyltoluene	ND	500	"							
sec-Butylbenzene	ND	500	"							
tert-Butylbenzene	ND	500	"							
Toluene	ND	500	"							
Xylenes, Total	ND	500	"							
Surrogate: SURR: 1,2-Dichloroethane-d4	49.5		ug/L	50.0		99.0	77-125			
Surrogate: SURR: Toluene-d8	49.2		"	50.0		98.3	85-120			
Surrogate: SURR: p-Bromofluorobenzene	51.9		"	50.0		104	76-130			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00276 - EPA 5035A

LCS (BG00276-BS1)

Prepared & Analyzed: 07/07/2020

1,2,4-Trimethylbenzene	49		ug/L	50.0		98.1	84-125				
1,3,5-Trimethylbenzene	48		"	50.0		96.5	82-126				
Benzene	50		"	50.0		99.1	77-127				
Ethyl Benzene	49		"	50.0		97.3	84-125				
Isopropylbenzene	48		"	50.0		95.1	81-127				
Methyl tert-butyl ether (MTBE)	50		"	50.0		99.6	74-131				
Naphthalene	51		"	50.0		103	86-141				
n-Butylbenzene	45		"	50.0		90.1	80-130				
n-Propylbenzene	47		"	50.0		94.2	74-136				
o-Xylene	48		"	50.0		97.0	83-123				
p- & m- Xylenes	96		"	100		96.5	82-128				
p-Isopropyltoluene	49		"	50.0		98.2	85-125				
sec-Butylbenzene	51		"	50.0		102	83-125				
tert-Butylbenzene	41		"	50.0		82.3	80-127				
Toluene	48		"	50.0		95.5	85-121				
Surrogate: SURR: 1,2-Dichloroethane-d4	49.2		"	50.0		98.4	77-125				
Surrogate: SURR: Toluene-d8	49.3		"	50.0		98.5	85-120				
Surrogate: SURR: p-Bromofluorobenzene	49.8		"	50.0		99.7	76-130				

LCS Dup (BG00276-BSD1)

Prepared & Analyzed: 07/07/2020

1,2,4-Trimethylbenzene	52		ug/L	50.0		104	84-125		5.42	30	
1,3,5-Trimethylbenzene	51		"	50.0		101	82-126		4.91	30	
Benzene	52		"	50.0		104	77-127		4.59	30	
Ethyl Benzene	51		"	50.0		102	84-125		4.58	30	
Isopropylbenzene	50		"	50.0		99.3	81-127		4.38	30	
Methyl tert-butyl ether (MTBE)	52		"	50.0		104	74-131		4.51	30	
Naphthalene	54		"	50.0		108	86-141		4.90	30	
n-Butylbenzene	48		"	50.0		95.6	80-130		5.92	30	
n-Propylbenzene	49		"	50.0		98.4	74-136		4.42	30	
o-Xylene	51		"	50.0		101	83-123		4.26	30	
p- & m- Xylenes	100		"	100		101	82-128		4.48	30	
p-Isopropyltoluene	52		"	50.0		103	85-125		5.16	30	
sec-Butylbenzene	54		"	50.0		107	83-125		5.24	30	
tert-Butylbenzene	43		"	50.0		86.0	80-127		4.42	30	
Toluene	50		"	50.0		100	85-121		5.02	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	49.2		"	50.0		98.4	77-125				
Surrogate: SURR: Toluene-d8	49.7		"	50.0		99.3	85-120				
Surrogate: SURR: p-Bromofluorobenzene	50.0		"	50.0		100	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00368 - EPA 5030B

Blank (BG00368-BLK1)

Prepared & Analyzed: 07/08/2020

1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	"
Benzene	ND	0.50	"
Ethyl Benzene	ND	0.50	"
Isopropylbenzene	ND	0.50	"
Methyl tert-butyl ether (MTBE)	ND	0.50	"
Naphthalene	ND	2.0	"
n-Butylbenzene	ND	0.50	"
n-Propylbenzene	ND	0.50	"
o-Xylene	ND	0.50	"
p- & m- Xylenes	ND	1.0	"
p-Isopropyltoluene	ND	0.50	"
sec-Butylbenzene	ND	0.50	"
tert-Butylbenzene	ND	0.50	"
Toluene	ND	0.50	"
Xylenes, Total	ND	1.5	"

Surrogate: SURR: 1,2-Dichloroethane-d4	10.5	"	10.0	105	69-130
Surrogate: SURR: Toluene-d8	9.82	"	10.0	98.2	81-117
Surrogate: SURR: p-Bromofluorobenzene	11.2	"	10.0	112	79-122

LCS (BG00368-BS1)

Prepared & Analyzed: 07/08/2020

1,2,4-Trimethylbenzene	9.8	ug/L	10.0	98.2	82-132
1,3,5-Trimethylbenzene	9.6	"	10.0	96.4	80-131
Benzene	10	"	10.0	102	85-126
Ethyl Benzene	9.7	"	10.0	96.9	80-131
Isopropylbenzene	9.4	"	10.0	94.1	76-140
Methyl tert-butyl ether (MTBE)	9.8	"	10.0	98.2	76-135
Naphthalene	8.6	"	10.0	85.7	70-147
n-Butylbenzene	9.8	"	10.0	98.3	79-132
n-Propylbenzene	9.5	"	10.0	94.6	78-133
o-Xylene	9.4	"	10.0	94.2	78-130
p- & m- Xylenes	19	"	20.0	97.2	77-133
p-Isopropyltoluene	10	"	10.0	99.7	81-136
sec-Butylbenzene	11	"	10.0	105	79-137
tert-Butylbenzene	8.7	"	10.0	87.2	77-138
Toluene	9.7	"	10.0	96.6	80-127

Surrogate: SURR: 1,2-Dichloroethane-d4	10.4	"	10.0	104	69-130
Surrogate: SURR: Toluene-d8	9.54	"	10.0	95.4	81-117
Surrogate: SURR: p-Bromofluorobenzene	10.3	"	10.0	103	79-122



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00368 - EPA 5030B

LCS Dup (BG00368-BSD1)

Prepared & Analyzed: 07/08/2020

1,2,4-Trimethylbenzene	9.7		ug/L	10.0		96.7	82-132		1.54	30	
1,3,5-Trimethylbenzene	9.6		"	10.0		95.9	80-131		0.520	30	
Benzene	9.6		"	10.0		96.5	85-126		6.03	30	
Ethyl Benzene	9.4		"	10.0		94.2	80-131		2.83	30	
Isopropylbenzene	9.3		"	10.0		93.0	76-140		1.18	30	
Methyl tert-butyl ether (MTBE)	9.3		"	10.0		93.1	76-135		5.33	30	
Naphthalene	8.2		"	10.0		82.0	70-147		4.41	30	
n-Butylbenzene	9.5		"	10.0		94.6	79-132		3.84	30	
n-Propylbenzene	9.3		"	10.0		92.8	78-133		1.92	30	
o-Xylene	9.0		"	10.0		89.9	78-130		4.67	30	
p- & m- Xylenes	19		"	20.0		93.8	77-133		3.46	30	
p-Isopropyltoluene	9.8		"	10.0		97.6	81-136		2.13	30	
sec-Butylbenzene	10		"	10.0		103	79-137		2.02	30	
tert-Butylbenzene	8.6		"	10.0		85.9	77-138		1.50	30	
Toluene	9.3		"	10.0		93.4	80-127		3.37	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	9.90		"	10.0		99.0	69-130				
Surrogate: SURR: Toluene-d8	9.73		"	10.0		97.3	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.4		"	10.0		104	79-122				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00299 - EPA 3550C

Blank (BG00299-BLK1)

Prepared: 07/07/2020 Analyzed: 07/08/2020

Acenaphthene	ND	42	ug/kg wet
Acenaphthylene	ND	42	"
Anthracene	ND	42	"
Benzo(a)anthracene	ND	42	"
Benzo(a)pyrene	ND	42	"
Benzo(b)fluoranthene	ND	42	"
Benzo(g,h,i)perylene	ND	42	"
Benzo(k)fluoranthene	ND	42	"
Chrysene	ND	42	"
Dibenzo(a,h)anthracene	ND	42	"
Fluoranthene	ND	42	"
Fluorene	ND	42	"
Indeno(1,2,3-cd)pyrene	ND	42	"
Naphthalene	ND	42	"
Phenanthrene	ND	42	"
Pyrene	ND	42	"

Surrogate: SURR: Nitrobenzene-d5	870	"	831	105	22-108
Surrogate: SURR: 2-Fluorobiphenyl	660	"	831	80.0	21-113
Surrogate: SURR: Terphenyl-d14	750	"	831	89.9	24-116

LCS (BG00299-BS1)

Prepared: 07/07/2020 Analyzed: 07/08/2020

Acenaphthene	570	42	ug/kg wet	831	69.0	17-124
Acenaphthylene	540	42	"	831	65.4	16-124
Anthracene	590	42	"	831	71.0	24-124
Benzo(a)anthracene	590	42	"	831	71.6	25-134
Benzo(a)pyrene	590	42	"	831	71.0	29-144
Benzo(b)fluoranthene	620	42	"	831	75.2	20-151
Benzo(g,h,i)perylene	630	42	"	831	75.6	10-153
Benzo(k)fluoranthene	560	42	"	831	67.7	10-148
Chrysene	580	42	"	831	69.8	24-116
Dibenzo(a,h)anthracene	740	42	"	831	89.2	17-147
Fluoranthene	610	42	"	831	73.7	36-125
Fluorene	590	42	"	831	71.4	16-130
Indeno(1,2,3-cd)pyrene	700	42	"	831	84.5	10-155
Naphthalene	590	42	"	831	71.0	20-121
Phenanthrene	600	42	"	831	71.6	24-123
Pyrene	600	42	"	831	72.4	24-132

Surrogate: SURR: Nitrobenzene-d5	780	"	831	94.0	22-108
Surrogate: SURR: 2-Fluorobiphenyl	630	"	831	75.5	21-113
Surrogate: SURR: Terphenyl-d14	710	"	831	85.6	24-116



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00337 - EPA 3510C

Blank (BG00337-BLK1)

Prepared & Analyzed: 07/08/2020

Acenaphthene	ND	0.0500	ug/L
Acenaphthylene	ND	0.0500	"
Anthracene	ND	0.0500	"
Benzo(a)anthracene	ND	0.0500	"
Benzo(a)pyrene	ND	0.0500	"
Benzo(b)fluoranthene	ND	0.0500	"
Benzo(g,h,i)perylene	ND	0.0500	"
Benzo(k)fluoranthene	ND	0.0500	"
Chrysene	ND	0.0500	"
Dibenzo(a,h)anthracene	ND	0.0500	"
Fluoranthene	ND	0.0500	"
Fluorene	ND	0.0500	"
Indeno(1,2,3-cd)pyrene	ND	0.0500	"
Naphthalene	ND	0.0500	"
Phenanthrene	ND	0.0500	"
Pyrene	ND	0.0500	"

Surrogate: SURR: Nitrobenzene-d5	22.1	"	25.0	88.2	50.2-113
Surrogate: SURR: 2-Fluorobiphenyl	20.0	"	25.0	79.9	39.9-105
Surrogate: SURR: Terphenyl-d14	26.5	"	25.0	106	30.7-106

LCS (BG00337-BS1)

Prepared & Analyzed: 07/08/2020

Acenaphthene	18.4	0.0500	ug/L	25.0	73.4	24-114
Acenaphthylene	17.9	0.0500	"	25.0	71.7	26-112
Anthracene	21.1	0.0500	"	25.0	84.4	35-114
Benzo(a)anthracene	23.4	0.0500	"	25.0	93.6	38-127
Benzo(a)pyrene	24.8	0.0500	"	25.0	99.2	30-146
Benzo(b)fluoranthene	27.7	0.0500	"	25.0	111	36-145
Benzo(g,h,i)perylene	25.2	0.0500	"	25.0	101	10-163
Benzo(k)fluoranthene	23.8	0.0500	"	25.0	95.4	16-149
Chrysene	21.5	0.0500	"	25.0	86.1	33-120
Dibenzo(a,h)anthracene	25.2	0.0500	"	25.0	101	10-149
Fluoranthene	24.5	0.0500	"	25.0	97.9	33-126
Fluorene	20.0	0.0500	"	25.0	80.2	28-117
Indeno(1,2,3-cd)pyrene	28.9	0.0500	"	25.0	115	10-150
Naphthalene	18.9	0.0500	"	25.0	75.6	30-99
Phenanthrene	20.6	0.0500	"	25.0	82.6	31-112
Pyrene	20.0	0.0500	"	25.0	79.9	42-125

Surrogate: SURR: Nitrobenzene-d5	19.7	"	25.0	78.8	50.2-113
Surrogate: SURR: 2-Fluorobiphenyl	17.7	"	25.0	70.8	39.9-105
Surrogate: SURR: Terphenyl-d14	23.4	"	25.0	93.8	30.7-106



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00337 - EPA 3510C

LCS Dup (BG00337-BSD1)

Prepared & Analyzed: 07/08/2020

Acenaphthene	19.6	0.0500	ug/L	25.0		78.5	24-114		6.69	20	
Acenaphthylene	19.2	0.0500	"	25.0		76.8	26-112		6.90	20	
Anthracene	22.4	0.0500	"	25.0		89.6	35-114		5.97	20	
Benzo(a)anthracene	25.0	0.0500	"	25.0		99.8	38-127		6.41	20	
Benzo(a)pyrene	24.4	0.0500	"	25.0		97.6	30-146		1.59	20	
Benzo(b)fluoranthene	27.8	0.0500	"	25.0		111	36-145		0.432	20	
Benzo(g,h,i)perylene	25.0	0.0500	"	25.0		100	10-163		0.796	20	
Benzo(k)fluoranthene	24.2	0.0500	"	25.0		96.7	16-149		1.42	20	
Chrysene	22.7	0.0500	"	25.0		90.9	33-120		5.47	20	
Dibenzo(a,h)anthracene	25.3	0.0500	"	25.0		101	10-149		0.515	20	
Fluoranthene	25.1	0.0500	"	25.0		101	33-126		2.66	20	
Fluorene	21.2	0.0500	"	25.0		84.8	28-117		5.63	20	
Indeno(1,2,3-cd)pyrene	29.5	0.0500	"	25.0		118	10-150		2.23	20	
Naphthalene	20.7	0.0500	"	25.0		82.8	30-99		8.99	20	
Phenanthrene	21.8	0.0500	"	25.0		87.2	31-112		5.46	20	
Pyrene	22.9	0.0500	"	25.0		91.4	42-125		13.4	20	
Surrogate: SURR: Nitrobenzene-d5	22.5		"	25.0		90.0	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	20.1		"	25.0		80.2	39.9-105				
Surrogate: SURR: Terphenyl-d14	27.6		"	25.0		110	30.7-106				

Batch BG00426 - EPA 3550C

LCS (BG00426-BS1)

Prepared & Analyzed: 07/09/2020

Acenaphthene	490	42	ug/kg wet	831		59.0	17-124				
Acenaphthylene	470	42	"	831		56.0	16-124				
Anthracene	550	42	"	831		65.8	24-124				
Benzo(a)anthracene	540	42	"	831		65.2	25-134				
Benzo(a)pyrene	520	42	"	831		62.8	29-144				
Benzo(b)fluoranthene	520	42	"	831		63.2	20-151				
Benzo(g,h,i)perylene	510	42	"	831		61.8	10-153				
Benzo(k)fluoranthene	500	42	"	831		60.2	10-148				
Chrysene	500	42	"	831		59.9	24-116				
Dibenzo(a,h)anthracene	560	42	"	831		67.8	17-147				
Fluoranthene	570	42	"	831		68.8	36-125				
Fluorene	500	42	"	831		59.9	16-130				
Indeno(1,2,3-cd)pyrene	570	42	"	831		68.1	10-155				
Naphthalene	490	42	"	831		59.2	20-121				
Phenanthrene	540	42	"	831		64.6	24-123				
Pyrene	540	42	"	831		65.2	24-132				
Surrogate: SURR: Nitrobenzene-d5	570		"	831		69.0	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	510		"	831		60.9	21-113				
Surrogate: SURR: Terphenyl-d14	650		"	831		78.0	24-116				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00333 - EPA 3550C

Blank (BG00333-BLK2)

Prepared: 07/08/2020 Analyzed: 07/09/2020

Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								

Surrogate: Tetrachloro-m-xylene	0.0515		"	0.0664	77.5	30-140					
Surrogate: Decachlorobiphenyl	0.0771		"	0.0664	116	30-140					

LCS (BG00333-BS2)

Prepared: 07/08/2020 Analyzed: 07/09/2020

Aroclor 1016	0.204	0.0166	mg/kg wet	0.332	61.3	40-130					
Aroclor 1260	0.269	0.0166	"	0.332	80.9	40-130					
Surrogate: Tetrachloro-m-xylene	0.0518		"	0.0664	78.0	30-140					
Surrogate: Decachlorobiphenyl	0.0801		"	0.0664	120	30-140					

Batch Y0G0838 - BG00333

Aroclor Reference (Y0G0838-ARC1)

Prepared & Analyzed: 07/08/2020

Surrogate: Tetrachloro-m-xylene	0.197		ug/mL	0.200	98.5						
Surrogate: Decachlorobiphenyl	0.250		"	0.200	125						

Batch Y0G0930 - BG00427

Aroclor Reference (Y0G0930-ARC1)

Prepared & Analyzed: 07/09/2020

Surrogate: Tetrachloro-m-xylene	0.193		ug/mL	0.200	96.5						
Surrogate: Decachlorobiphenyl	0.252		"	0.200	126						



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00271 - EPA 3050B

Blank (BG00271-BLK1)

Prepared: 07/07/2020 Analyzed: 07/08/2020

Aluminum	ND	5.00	mg/kg wet
Antimony	ND	2.50	"
Arsenic	ND	1.50	"
Barium	ND	2.50	"
Beryllium	ND	0.050	"
Cadmium	ND	0.300	"
Calcium	ND	5.00	"
Chromium	ND	0.500	"
Cobalt	ND	0.400	"
Copper	ND	2.00	"
Iron	ND	25.0	"
Lead	ND	0.500	"
Magnesium	ND	5.00	"
Manganese	ND	0.500	"
Nickel	ND	1.00	"
Potassium	ND	5.00	"
Selenium	ND	2.50	"
Silver	ND	0.500	"
Sodium	ND	50.0	"
Thallium	ND	2.50	"
Vanadium	ND	1.00	"
Zinc	ND	2.50	"

Reference (BG00271-SRM1)

Prepared: 07/07/2020 Analyzed: 07/08/2020

Aluminum	9540	5.00	mg/kg wet	8460	113	50.5-150.1
Antimony	71.1	2.50	"	120	59.3	19-251.7
Arsenic	113	1.50	"	95.5	118	70.1-129.8
Barium	352	2.50	"	300	117	75-125
Beryllium	118	0.050	"	103	114	75-125.2
Cadmium	155	0.300	"	135	115	74.8-125.2
Calcium	5450	5.00	"	4720	115	72.7-127.5
Chromium	169	0.500	"	147	115	70.1-129.9
Cobalt	53.4	0.400	"	43.2	124	75-125
Copper	185	2.00	"	150	124	75.3-125.3
Iron	16300	25.0	"	14400	113	35.8-164.6
Lead	107	0.500	"	92.3	116	70-130
Magnesium	2620	5.00	"	2300	114	61.7-137.8
Manganese	781	0.500	"	677	115	78.1-122
Nickel	83.0	1.00	"	59.8	139	70.1-130.1 High Bias
Potassium	2310	5.00	"	2030	114	59.1-140.9
Selenium	29.3	2.50	"	42.0	69.8	55.7-144.5
Silver	47.3	0.500	"	40.3	117	69.2-130.8
Sodium	151	50.0	"	139	108	36.1-163.3
Thallium	94.2	2.50	"	83.1	113	65.3-146.8
Vanadium	107	1.00	"	96.9	110	67-133.1
Zinc	421	2.50	"	369	114	69.9-130.1



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BG00279 - EPA 7473 soil

Blank (BG00279-BLK1)

Prepared & Analyzed: 07/07/2020

Mercury	ND	0.0300	mg/kg wet
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Reference (BG00279-SRM1)

Prepared & Analyzed: 07/07/2020

Mercury	3.0919		mg/kg	3.71		83.3	65-135
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Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD Limit	Flag
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Batch BG00266 - % Solids Prep

Duplicate (BG00266-DUP1)		*Source sample: 20G0129-09 (GB-7 TW)					Prepared & Analyzed: 07/07/2020				
% Solids	96.6	0.100	%		96.7			0.105	20		



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20G0129-01	GB-1 TW	40mL Vial with Stir Bar-Cool 4° C
20G0129-02	GB-1 TW	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G0129-03	GB-3 TW	40mL Vial with Stir Bar-Cool 4° C
20G0129-04	GB-3 TW	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G0129-05	GB-5 TW	40mL Vial with Stir Bar-Cool 4° C
20G0129-06	GB-5 TW	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G0129-07	GB-6 TW	40mL Vial with Stir Bar-Cool 4° C
20G0129-08	GB-6 TW	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G0129-09	GB-7 TW	40mL Vial with Stir Bar-Cool 4° C
20G0129-10	GB-7 TW	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20G0129-11	GB-8 TW	40mL Vial with Stir Bar-Cool 4° C
20G0129-12	GB-8 TW	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

S-HI	Surrogate recovery is above acceptance limits. No target compound is detected in sample.
S-08	The recovery of this surrogate was outside of QC limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.



Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested. Signature binds you to York's Std. Terms & Conditions.

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