

User ID: XCMROBBINS

RAW DATA REPORT

Report Request ID: 1760113

Report Code: AMP350

Jul. 3, 2019

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	42	045	0109		2						

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
ALL			176

SELECTED OPTIONS

Option Type	Option Value
RAW DATA EVENTS	INCLUDE EVENTS
DAILY STATISTICS	MAXIMUM
AGENCY ROLE	PQAO
UNITS	STANDARD
INCLUDE NULLS	YES
MERGE PDF FILES	YES

SORT ORDER

Order	Column
1	STATE_CODE
2	COUNTY_CODE
3	SITE_ID
4	PARAMETER_CODE
5	POC

DATE CRITERIA

Start Date	End Date
2013 01 01	2015 12 31

APPLICABLE STANDARDS

Standard Description
CO 1-hour 1971
Lead 3-Month 2009
Lead 3-Month PM10 Surrogate 2009
Lead Quarterly 1978
NO2 Annual 1971
Ozone 1-hour 1979
PM10 24-hour 2006
PM25 24-hour 2012
SO2 1-hour 2010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(42153) Carbon disulfide

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-15-0  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.08 SQ	.00 ND		
2								.00 ND				
3		.00 ND				.07 SQ	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7									.00 ND	.00 ND		
8								.00 ND				
9		.00 ND				.05 SQ	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.02 SQ								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.05 SQ							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	.02	0.00	.05	.07	0.00	0.00	.08	0.00	0.00	0.00
MEAN:	0.000	0.000	.004	0.000	.010	.024	0.000	0.000	.020	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.005		ANNUAL MAX:		.08			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(42153) Carbon disulfide

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-15-0  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND									
13											.00 ND	.00 ND
14									.00 ND	AS		
15								.00 ND				
16		.00 ND				.00 ND	.17 5					
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.06 SQ	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	.17	0.00	0.00	0.00	.06	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	.034	0.000	0.000	0.000	.012	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		.004		ANNUAL MAX:		.17			

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(42153) Carbon disulfide

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-15-0  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8										AS		AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26										AS		.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000	ANNUAL MAX:	0.00						

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43205) Propylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 115-07-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									102.01 5	63.378		
2								70.326 EH				
3		76.890				50.649	14.439					
4	39.570 EH			27.144	5.694							
5			19.104									
6											11.754 CC	17.331
7									26.472	10.029 LL		
8								30.912 EH				
9		2.202				8.229	25.788					
10	26.337			29.187	43.791							
11			3.669									
12											26.421	59.517
13									54.153	1.749 LL		
14								1.845				
15		14.031				50.181	20.910					
16	26.598			12.678	29.574							
17			3.708									
18											26.427	58.806
19									AF	13.677		
20								112.39 5				
21		15.426				26.370	27.300					
22	15.246			3.399	44.166							
23			9.033									
24											11.334	2.686
25									1.626	59.424 EH		
26								59.829				
27		33.663				42.981 EH	1.587					
28	29.115			AF	33.462							
29			8.073									
30											4.146	35.199
31										19.197		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	39.570	76.890	19.104	29.187	44.166	50.649	27.300	112.39	102.01	63.378	26.427	59.517
MEAN:	27.3732	28.4424	8.7174	18.1020	31.3374	35.6820	18.0048	55.0608	46.0665	27.9090	16.0164	34.7078
ANNUAL OBSERVATIONS:		59		ANNUAL MEAN:	28.8278		ANNUAL MAX:	112.392				

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43205) Propylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 115-07-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											1.829	22.550
2									58.377	5.411		
3								15.200				
4		7.617				10.825	3.404					
5	35.002 QX			4.433	16.561							
6			3.719									
7											14.120	1.881
8									3.646	65.180		
9								16.035				
10		4.683				10.649	23.682					
11	67.690 EH			17.246	AS						3.444	5.015
12			58.975									
13									2.527	AS		
14								1.742				
15		9.904				11.511	25.587					
16												
17	69.167 EH			1.370	18.309							
18			5.499									
19											43.944 EH	19.153
20									5.271	7.639		
21								AF				
22		154.24 5				6.916	29.321					
23	32.833 EH			5.022	AS							
24			1.515									
25											45.510	AS
26									10.015	2.460		
27								212.13 5				
28		AF				14.176	57.245 EH					
29	207.04 5			5.034	3.411							
30			AF									
31												29.691
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	207.04	154.24	58.975	17.246	18.309	14.176	57.245	212.13	58.377	65.180	45.510	29.691
MEAN:	82.3466	44.1120	17.4270	6.6210	12.7603	10.8154	27.8478	61.2770	15.9672	20.1725	21.7694	15.6580
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	28.0623		ANNUAL MAX:	212.131				

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43205) Propylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 115-07-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			26.716									
2												
3									6.600	AS	38.100	84.300 5
4								30.000				
5		AF				6.000	8.460					
6	32.020			13.500	17.100							
7			44.137									
8											AS	AF
9									AS	16.200		
10								5.100				
11		5.234				AS	3.600					
12	48.729			20.400	31.200							
13			7.881								40.800	AF
14									11.100	9.000		
15								36.000				
16												
17		11.846				4.800	6.000					
18	41.116			25.800	31.200							
19			23.330 EH								21.000	AS
20												
21									2.580	36.000		
22								1.740				
23		2.838				167.40 5	20.400					
24	95.092 5			AF	44.100							
25			20.700								AS	5.700
26												
27									AS	AS		
28								2.880				
29						109.20 5	28.200					
30	20.513			6.300	6.000							
31			28.500									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	95.092	11.846	44.137	25.800	44.100	167.40	28.200	36.000	11.100	36.000	40.800	84.300
MEAN:	47.4940	6.6393	25.2107	16.5000	25.9200	71.8500	13.3320	15.1440	6.7600	20.4000	33.3000	45.0000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	27.1961		ANNUAL MAX:	167.400				

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43218) 1,3-Butadiene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 106-99-0  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

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1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43218) 1,3-Butadiene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 106-99-0  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND									
13											.00 ND	.00 ND
14									.00 ND	AS		
15								.00 ND				
16		.00 ND				.00 ND	.00 ND					
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43218) 1,3-Butadiene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 106-99-0  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	0.000		ANNUAL MAX:	0.00				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43231) n-Hexane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 110-54-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.47 SQ	1.61		
2								1.57				
3		1.01				2.93	.61 SQ					
4	1.46			.78	2.61							
5			2.41									
6											1.47 CC	1.87
7									.00 ND	.37 SQ		
8								1.22				
9		.43 SQ				.79	.93					
10	.94			4.82 5	2.95							
11			1.71								.88	1.16
12									.50 SQ	3.89		
13								.50 SQ				
14		3.04				.70 SQ	1.18					
15	1.87			1.06	4.19							
16			.43 SQ								.94	.98
17									AF	2.17		
18								1.92				
19		.38 SQ				2.86	1.73					
20				2.19	1.04							
21	.34 SQ		.65 SQ								.00 ND	.42 SQ
22									.98	.67 CC		
23		2.35				2.52	2.15	1.06				
24	1.39			AF	5.06 5							
25			.75								.94	.88
26												
27										2.56		
28												
29												
30												
31												
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	1.87	3.04	2.41	4.82	5.06	2.93	2.15	1.92	.98	3.89	1.47	1.87
MEAN:	1.200	1.442	1.190	2.213	3.170	1.960	1.320	1.254	.488	1.878	.846	1.062
ANNUAL OBSERVATIONS:		59		ANNUAL MEAN:	1.513	ANNUAL MAX:	5.06					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43231) n-Hexane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 110-54-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.28 SQ	1.71
2									2.55	1.33		
3								1.98				
4		2.20				.68 SQ	.31 SQ					
5	5.30 5			.41 SQ	.56 SQ							
6			2.69									
7											.44 SQ	.25 SQ
8									2.77	.70 SQ		
9								1.52				
10		1.02				4.39	1.79					
11	5.32 5			38.45 5	AS						.35 SQ	.33 SQ
12			4.36									
13									.47 SQ	AS		
14								.65 SQ				
15		.43 SQ				1.47	.57 SQ					
16	2.62			1.35	.56 SQ							
17			6.47 5								.30 SQ	.61 SQ
18									5.02 5	.98		
19								AF				
20		6.09				1.13	.94					
21	.52 SQ			.37 SQ	AS							
22			.30 SQ								1.19	AS
23								1.95	.71 SQ	.46 SQ		
24		AF				7.23 5	.75 CC					
25	1.14			3.11	1.71							
26			AF									
27												.66 SQ
28												
29												
30												
31												
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	5.32	6.09	6.47	38.45	1.71	7.23	1.79	1.98	5.02	1.33	1.19	1.71
MEAN:	2.980	2.435	3.455	8.738	.943	2.980	.872	1.525	2.304	.868	.512	.712
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	2.434	ANNUAL MAX:	38.45					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43231) n-Hexane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 110-54-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.95									
2												
3									1.62	AS	5.76 5	3.06
4								1.62				
5		AF				1.38	.91					
6	.68 SQ			3.84	1.68							
7			1.58									
8											AS	AF
9									AS	.96		
10								1.26				
11		1.06				AS	.96					
12	1.34			1.20	1.38							
13			1.06								2.88	AF
14									.72	1.20		
15								5.16 5				
16												
17		.69 SQ				1.68	.72					
18	4.16			2.46	3.60							
19			.86									
20											1.20	AS
21									1.08	5.16 5		
22								.47 SQ				
23		.35 SQ				1.26	.60 SQ					
24	1.18			AF	18.00 5							
25			1.56									
26											AS	.96
27									AS	AS		
28								.72 SQ				
29						1.35	1.80					
30	.66 SQ			.29 SQ	.43 SQ							
31			1.74									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	4.16	1.06	1.74	3.84	18.00	1.68	1.80	5.16	1.62	5.16	5.76	3.06
MEAN:	1.604	.700	1.292	1.948	5.018	1.418	.998	1.846	1.140	2.440	3.280	2.010
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	1.984	ANNUAL MAX:	18.00					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43232) n-Heptane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 142-82-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	1.02		
2								.64 SQ				
3		.52 SQ				1.91	.00 ND					
4	.85			.41 SQ	1.20							
5			1.03									
6											.78 SQ	1.12
7								.48 SQ		.00 ND		
8												
9		.00 ND				.39 SQ	.38 SQ					
10	.44 SQ			2.44 5	1.58							
11			.60 SQ								.48 SQ	.60 SQ
12												
13									.41 SQ	2.07		
14								.51 SQ				
15		.81 SQ				.42 SQ	.60 SQ					
16	1.02			.72 SQ	2.21 5							
17			.00 ND								.50 SQ	.41 SQ
18									AF	1.09		
19								.74 SQ				
20												
21		.00 ND				.33 SQ	.89					
22	.00 ND			1.87	.52 SQ							
23			.00 ND								.00 ND	.00 ND
24												
25									.53 SQ	.44 SQ		
26								.57 SQ				
27		1.06				.91	.78 SQ					
28	.62 SQ			AF	1.84							
29			.47 SQ									
30											.41 SQ	.53 SQ
31										1.25		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	1.02	1.06	1.03	2.44	2.21	1.91	.89	.74	.74	2.07	.78	1.12
MEAN:	.586	.478	.420	1.360	1.470	.792	.530	.588	.420	.978	.434	.532
ANNUAL OBSERVATIONS:		59		ANNUAL MEAN:	.714	ANNUAL MAX:	2.44					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43232) n-Heptane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 142-82-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	1.42
2									1.81	.57 SQ		
3								.96				
4		1.18				.00 ND	.00 ND					
5	2.87 5			.00 ND	.00 ND							
6			1.37									
7											.22 SQ	.00 ND
8									1.09	.33 SQ		
9								.99				
10		.41 SQ				1.65	1.21					
11	2.79 5			25.46 5	AS						.43 SQ	.23 SQ
12			2.40 5									
13									.25 SQ	AS		
14								.00 ND				
15		.00 ND				.84 SQ	.54 SQ					
16	1.56			.63 SQ	.00 ND							
17			1.08								.17 SQ	.41 SQ
18												
19									2.41 5	.44 SQ		
20								AF				
21		3.53 5				.60 SQ	.67 SQ					
22	.00 ND			.00 ND	AS							
23			.00 ND								.85	AS
24									.47 SQ	.86		
25								1.21				
26		AF				.69 SQ	.74 SQ					
27	.73 SQ			.67 SQ	.42 SQ							
28			AF									
29												
30												.49 SQ
31												
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	2.87	3.53	2.40	25.46	.42	1.65	1.21	1.21	2.41	.86	.85	1.42
MEAN:	1.590	1.280	1.213	5.352	.140	.756	.632	.790	1.206	.550	.334	.510
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	1.253	ANNUAL MAX:	25.46					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43232) n-Heptane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 142-82-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.77 SQ									
2											2.24 5	4.13 5
3									.91	AS		
4								.77 SQ				
5		AF				.98	.41 SQ					
6	.34 SQ			.98	1.12							
7			1.06									
8										AS		AF
9									AS	.39 SQ		
10								.98				
11		.69 SQ				AS	.64 SQ					
12	.69 SQ			.58 SQ	.58 SQ							
13			.57 SQ								1.26	AF
14									.46 SQ	.50 SQ		
15								1.54				
16												
17		.37 SQ				.77 SQ	.34 SQ					
18	1.82			1.26	1.96							
19			.83 SQ									
20											.77 SQ	AS
21									.62 SQ	1.75		
22								.25 SQ				
23		.24 SQ				.36 SQ	.31 SQ					
24	.69 SQ			AF	6.09 5							
25			1.40									
26											AS	.50 SQ
27									AS	AS		
28								.66 SQ				
29						.40 SQ	.70 SQ					
30	.35 SQ			.00 ND	.00 ND							
31			.62 SQ									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	1.82	.69	1.40	1.26	6.09	.98	.70	1.54	.91	1.75	2.24	4.13
MEAN:	.778	.433	.875	.705	1.950	.628	.480	.840	.663	.880	1.423	2.315
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.951		ANNUAL MAX:	6.09				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43248) Cyclohexane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 110-82-7  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.63 SQ		
2								.00 ND				
3		.68 SQ				3.22 5	.52 SQ					
4	1.94			.59 SQ	1.52							
5			1.07									
6										.69 SQ	1.27	
7								.00 ND	.60 SQ	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.70 SQ					
10	.65 SQ			2.32	2.20							
11			1.26								.55 SQ	.61 SQ
12												
13									.00 ND	2.28		
14								.00 ND				
15		1.91				.00 ND	.58 SQ					
16	2.58			1.43	2.47							
17			.00 ND									
18											.57 SQ	.52 SQ
19									AF	.70 SQ		
20								1.01				
21		.00 ND				.62 SQ	1.13					
22	.00 ND			1.30	.50 SQ							
23			.00 ND								.00 ND	.00 ND
24												
25									.00 ND	.54 SQ		
26								1.04				
27		1.45				1.33	.00 ND					
28	1.39			AF	2.16							
29			.00 ND								.29 SQ	.82
30												
31										1.08		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	2.58	1.91	1.26	2.32	2.47	3.22	1.13	1.04	.60	2.28	.69	1.27
MEAN:	1.312	.808	.466	1.410	1.770	1.034	.586	.410	.150	.872	.420	.644
ANNUAL OBSERVATIONS:		59		ANNUAL MEAN:	.826	ANNUAL MAX:	3.22					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43248) Cyclohexane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 110-82-7  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	1.11
2									1.23	.31 SQ		
3								.46 SQ				
4		.78				.00 ND	.00 ND					
5	2.16 QX			.00 ND	.30 SQ							
6			.93									
7											.00 ND	.00 ND
8									.50 SQ	.37 SQ		
9								.00 ND				
10		.49 SQ				1.21	.00 ND					
11	1.72			7.54 5	AS						.00 ND	.00 ND
12			2.18									
13									.00 ND	AS		
14								.00 ND				
15												
16		.00 ND				.75	.63 SQ					
17	1.14			.33 SQ	.00 ND							
18			.90									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		3.44 5				.27 SQ	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.43 SQ	AS
26									.00 ND	.35 SQ		
27								.91				
28		AF				.00 ND	.87					
29	1.08			1.39	.40 SQ							
30			AF									
31												.49 SQ
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	2.16	3.44	2.18	7.54	.40	1.21	.87	.91	1.23	.37	.43	1.11
MEAN:	1.220	1.178	1.003	1.852	.233	.446	.300	.343	.346	.258	.086	.320
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.642	ANNUAL MAX:	7.54					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43248) Cyclohexane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 110-82-7  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.47 SQ									
2											1.08	.96
3									.00 ND	AS		
4								.50 SQ				
5		AF				.50 SQ	.38 SQ					
6	.00 ND			2.82	1.20							
7			.85									
8										AS		AF
9									AS	.44 SQ		
10								.38 SQ				
11		.00 ND				AS	.00 ND					
12	.37 SQ			11.40 5	1.02							
13			.63 SQ								.48 SQ	AF
14									.00 ND	.00 ND		
15								.96				
16												
17		.00 ND				.00 ND	.00 ND					
18	.59 SQ			2.82	10.20 5							
19			2.65								.00 ND	AS
20												
21									.00 ND	1.80		
22								.00 ND				
23		.00 ND				2.52	.00 ND					
24	.00 ND			AF	10.80 5							
25			1.68									
26											AS	.22 SQ
27									AS	AS		
28								.00 ND				
29						1.44	.41 SQ					
30	.00 ND			.00 ND	.00 ND							
31			1.92									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	.59	0.00	2.65	11.40	10.80	2.52	.41	.96	0.00	1.80	1.08	.96
MEAN:	.192	0.000	1.367	4.260	4.644	1.115	.158	.368	0.000	.747	.520	.590
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	1.281	ANNUAL MAX:	11.40					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43372) Methyl tert-butyl ether

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 1634-04-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.37 SQ				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.37	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.074	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.006		ANNUAL MAX:		.37			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43372) Methyl tert-butyl ether

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 1634-04-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.26 SQ									
13									.00 ND	AS	.00 ND	.00 ND
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16									.00 ND			
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.74				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	.74	.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	.185	.065	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.019	ANNUAL MAX:	.74					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43372) Methyl tert-butyl ether

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 1634-04-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.29 SQ	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.41 SQ									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.14 SQ									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	.41	.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	.092	.073	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.018		ANNUAL MAX:	.41				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43505) Acrolein - Unverified

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 107-02-8  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									1.59 CC	1.19		
2								1.67 CC				
3		.65				.97	3.59 5					
4	1.13			.26 SQ	1.48 CC							
5			.00 ND									
6											.99 CC	.96 CC
7									1.17 CC	1.29 CC		
8								1.23				
9		.86				2.85 5	.81 CC					
10	.41			.00 ND	2.12 CC							
11			1.54								.81 CC	.75 CC
12												
13									.69	.97 CC		
14								2.63 CC				
15		.34 SQ				.46 CC	.73 CC					
16	.84			1.93	1.69							
17			.40 CC								.37 CC	1.40
18												
19									AF	.52 CC		
20								.90 CC				
21		.27 SQ				.38 CC	1.37 CC					
22	.49			.47	1.36							
23			.00 ND									
24											.53 CC	1.42 CC
25									.50 CC	1.63		
26								1.00 CC				
27		.73				3.63 5	1.67 CC					
28	1.46			AF	2.34							
29			1.22									
30											.93 CC	1.11
31										.64		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	1.46	.86	1.54	1.93	2.34	3.63	3.59	2.63	1.59	1.63	.99	1.42
MEAN:	.866	.570	.632	.665	1.798	1.658	1.634	1.486	.988	1.040	.726	1.128
ANNUAL OBSERVATIONS:		59		ANNUAL MEAN:	1.107	ANNUAL MAX:	3.63					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43505) Acrolein - Unverified

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 107-02-8  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.75 CC	1.34 CC
2									.63 CC	.56 CC		
3								.91 CC				
4		.67 CC				1.70 CC	1.35					
5	1.61 CC			.83 CC	2.26							
6			.42 CC									
7											.80 CC	.19 CC
8									.54 CC	1.08 CC		
9								1.96 CC				
10		.43 CC				.86 CC	1.19 CC					
11	1.31			3.45 5	AS							
12			1.33									
13											.28 CC	.32 CC
14									1.86	AS		
15								2.14 CC				
16		1.14 CC				1.63	1.23 CC					
17	1.38			1.12 CC	1.40							
18			.47 CC									
19											.75 CC	1.58
20									1.33	.46 CC		
21								AF				
22		.58 CC				2.58	.62 CC					
23	.41 CC			1.52	AS							
24			.73 CC									
25											.58 CC	AS
26									.54 CC	.26 CC		
27								1.39				
28		AF				1.32 CC	.84 CC					
29	.85 CC			.36 CC	1.70							
30			AF									
31												1.26
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	1.61	1.14	1.33	3.45	2.26	2.58	1.35	2.14	1.86	1.08	.80	1.58
MEAN:	1.112	.705	.738	1.456	1.787	1.618	1.046	1.600	.980	.590	.632	.938
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	1.089	ANNUAL MAX:	3.45					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43505) Acrolein - Unverified

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 107-02-8  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.46 CC									
2												
3									1.65	AS	1.14	.51 CC
4								1.79				
5		AF				.78 CC	1.23					
6	.87			.57 CC	.66 CC							
7			.91									
8											AS	AF
9									AS	1.05		
10								.75 CC				
11		.51 CC				AS	1.98					
12	.46 CC			3.90 5	1.68							
13			1.25 CC									
14											.28 CC	AF
15									1.08	.99		
16								.51 CC				
17		.46 CC				1.38	1.80					
18	.58 CC			.42 CC	1.74							
19			1.22									
20											1.26	AS
21									.78	1.47		
22								1.47				
23		.57 CC				1.11	1.20					
24	.34 CC			AF	1.11							
25			.25 CC									
26											AS	.36 CC
27									AS	AS		
28								2.43				
29						.91	2.46					
30	.33 CC			1.47	1.38							
31			.30 SQ									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	.87	.57	1.25	3.90	1.74	1.38	2.46	2.43	1.65	1.47	1.26	.51
MEAN:	.516	.513	.732	1.590	1.314	1.045	1.734	1.390	1.170	1.170	.893	.435
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	1.079		ANNUAL MAX:	3.90				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43551) Acetone

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 67-64-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									28.350	18.471		
2								27.753 CC				
3		9.132				24.012	30.819 EH					
4	17.961			9.192	16.854 CC							
5			8.172									
6											8.910 CC	14.529
7									15.345	12.321 CC		
8								12.894 CC				
9		8.064				36.756 EH	24.072 CC					
10	10.377			26.979	48.171 5							
11			13.560								10.728	8.697
12									14.820 CC	9.045 CC		
13												
14								15.699 CC				
15		10.635				13.629	27.354 CC					
16	12.765 CC			29.142	30.501 EH							
17			8.049 CC									
18											6.789	11.289
19									AF	19.992		
20								19.293 CC				
21		6.330 CC				8.328	32.754 EH					
22	5.013 CC			9.699	24.936 CC							
23			7.377									
24											5.976	11.592 CC
25									16.227 CC	13.200		
26								18.195 CC				
27		12.018				32.898 EH	27.882 CC					
28	15.051			AF	27.879							
29			20.913									
30											10.383	11.839 CC
31										12.192		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	17.961	12.018	20.913	29.142	48.171	36.756	32.754	27.753	28.350	19.992	10.728	14.529
MEAN:	12.2334	9.2358	11.6142	18.7530	29.6682	23.1246	28.5762	18.7668	18.6855	14.2035	8.5572	11.5892
ANNUAL OBSERVATIONS:		59		ANNUAL MEAN:	16.9797	ANNUAL MAX:	48.171					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43551) Acetone

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 67-64-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											12.639 CC	17.846 CC
2									16.391	11.753		
3								14.815 CC				
4		9.353				26.179	16.256					
5	7.907 CC			7.391 CC	22.357							
6			7.080 CC									
7											12.820 CC	6.387 CC
8									12.377 CC	13.387 CC		
9								20.318 CC				
10		11.796				29.346	31.162 EH					
11	23.025			63.397 5	AS						14.386 CC	6.409 CC
12			21.894									
13									21.490	AS		
14								17.309 CC				
15		11.574 CC				33.164 EH	23.660 CC					
16	12.768			17.965	17.695							
17			9.245								10.130 CC	22.694
18									18.236	8.640 CC		
19								AF				
20												
21		11.697				24.342	19.308 CC					
22	5.695 CC			18.825	AS						12.010 CC	AS
23			8.314 CC									
24									12.038	6.257 CC		
25								17.648 CC				
26		AF				23.729	19.814 CC					
27	8.742 CC			9.328	19.447							
28			AF									
29												
30			AF									
31												10.999 CC
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	23.025	11.796	21.894	63.397	22.357	33.164	31.162	20.318	21.490	13.387	14.386	22.694
MEAN:	11.6274	11.1050	11.6333	23.3812	19.8330	27.3520	22.0400	17.5225	16.1064	10.0093	12.3970	12.8670
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:	16.4710	ANNUAL MAX:	63.397						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43551) Acetone

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 67-64-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			6.206 CC									
2												
3									27.600	AS	23.100	7.200 CC
4								21.900				
5		AF				15.900	29.340					
6	7.807 CC			18.600	9.600 CC							
7			14.982									
8											AS	AF
9									AS	17.100		
10								12.600 CC				
11		9.296 CC				AS	25.200					
12	7.149 CC			43.500 5	12.000 CC							
13			13.028 CC									
14											5.400 CC	AF
15									15.300	10.800 CC		
16								17.700				
17		6.481 CC				21.000	19.800					
18	7.089 CC			27.000	23.400							
19			19.264 EH									
20											16.200	AS
21									10.200 CC	20.700		
22								16.800				
23		7.616 CC				19.200	17.400					
24	7.313 CC			AF	15.000							
25			11.400									
26											AS	6.900 CC
27									AS	AS		
28								19.500				
29						18.330	26.400					
30	5.243 CC			6.900 CC	16.200							
31			9.300									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	7.807	9.296	19.264	43.500	23.400	21.000	29.340	21.900	27.600	20.700	23.100	7.200
MEAN:	6.9202	7.7977	12.3633	24.0000	15.2400	18.6075	23.6280	17.7000	17.7000	16.2000	14.9000	7.0500
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	15.5405	ANNUAL MAX:	43.500						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43552) Methyl ethyl ketone

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 78-93-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									3.684 CC	1.572		
2								2.544 CC				
3		.964				3.992	3.040 CC					
4	1.812			1.120	2.264 CC							
5			1.048									
6											1.304 CC	2.612
7								1.560 CC	1.788 CC	.000 ND		
8												
9		1.256				7.176 5	2.888 CC					
10	.964			3.388	7.092 5							
11			1.500								1.852	1.076
12												
13									2.176	.000 ND		
14								.000 ND				
15		1.632				1.428	3.248 CC					
16	1.244			4.088	4.528 CC							
17			1.028 CC								.868 CC	1.384
18									AF	1.756		
19								2.620 CC				
20												
21		.896				1.016	3.056 CC					
22	.704			1.124	3.396 CC							
23			.840								.632 CC	1.092 CC
24												
25									.000 ND	1.372 CC		
26								3.476 CC				
27		1.704				3.292 CC	2.844 CC				1.568 CC	1.079 CC
28	1.628			AF	2.736							
29			2.412									
30												
31										2.416		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	1.812	1.704	2.412	4.088	7.092	7.176	3.248	3.476	3.684	2.416	1.852	2.612
MEAN:	1.2704	1.2904	1.3656	2.4300	4.0032	3.3808	3.0152	2.0400	1.9120	1.1860	1.2448	1.4486
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:	2.0302	ANNUAL MAX:	7.176						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43552) Methyl ethyl ketone

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 78-93-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											1.729 CC	2.258 CC
2									2.506	1.547 CC		
3								2.159 CC				
4		1.542				2.856	1.840					
5	1.642 CC			1.031 CC	1.954							
6			1.182 CC									
7											1.529 CC	.736 CC
8									2.008 CC	1.472 CC		
9								2.681 CC				
10		2.902				5.131 5	3.510					
11	2.291			9.266 5	AS						1.878 CC	.714 CC
12			3.363									
13									4.067	AS		
14								2.908 CC				
15		1.768 CC				4.157	2.686 CC					
16	1.364			2.413	1.530							
17			1.654									
18											.990 CC	2.561
19									2.222	1.627 CC		
20								AF				
21		1.486				3.019	1.854 CC					
22	.759 CC			2.356	AS							
23			1.144 CC								1.638 CC	AS
24									1.647 CC	.819 CC		
25								2.142 CC				
26		AF				3.163	1.859 CC					
27	.755 CC			1.349	2.217							
28			AF									
29												
30												
31												1.193 CC
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	2.291	2.902	3.363	9.266	2.217	5.131	3.510	2.908	4.067	1.627	1.878	2.561
MEAN:	1.3622	1.9245	1.8358	3.2830	1.9003	3.6652	2.3498	2.4725	2.4900	1.3663	1.5528	1.4924
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	2.1680	ANNUAL MAX:	9.266					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43552) Methyl ethyl ketone

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 78-93-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			1.145 CC									
2											2.840	.840 CC
3									3.800	AS		
4								3.120				
5		AF				2.040	3.720					
6	.874 CC			1.760 CC	1.920							
7			1.860 CC									
8											AS	AF
9									AS	2.960		
10								1.680 CC				
11		.000 ND				AS	2.760					
12	1.115 CC			3.840	2.320							
13			2.030 CC								.520 CC	AF
14												
15									1.880 CC	1.680 CC		
16								2.760				
17		1.085 CC				2.760	3.160					
18	.820 CC			2.400	3.280							
19			5.694 5									
20											2.040	AS
21												
22								2.080				
23		1.447 CC				3.200	2.120					
24	.910 CC			AF	1.440 CC							
25			1.440									
26											AS	.760 CC
27									AS	AS		
28								2.600				
29						1.872	3.760					
30	.893 CC			1.120 CC	2.320							
31			.800									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	1.115	1.447	5.694	3.840	3.280	3.200	3.760	3.120	3.800	2.960	2.840	.840
MEAN:	.9224	.8440	2.1615	2.2800	2.2560	2.4680	3.1040	2.4480	2.3733	2.5333	1.8000	.8000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	2.0805	ANNUAL MAX:	5.694					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43559) Methyl Butyl Ketone

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 591-78-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.000 ND	.000 ND		
2								.000 ND				
3		.000 ND				.000 ND	.000 ND					
4	.000 ND			.000 ND	.000 ND							
5			.000 ND									
6											.000 ND	.000 ND
7									.000 ND	.000 ND		
8								.000 ND				
9		.000 ND				.000 ND	.000 ND					
10	.000 ND			.000 ND	.000 ND							
11			.000 ND								.000 ND	.000 ND
12												
13									.000 ND	.000 ND		
14								.000 ND				
15		.000 ND				.000 ND	.000 ND					
16	.000 ND			.396 SQ	.000 ND							
17			.000 ND									
18											.000 ND	.000 ND
19									AF	.000 ND		
20								.000 ND				
21		.000 ND				.000 ND	.000 ND					
22	.000 ND			.000 ND	.000 ND							
23			.000 ND									
24											.000 ND	.000 ND
25									.000 ND	.000 ND		
26								.000 ND				
27		.000 ND				.000 ND	.000 ND					
28	.000 ND			AF	.000 ND							
29			.000 ND									
30											.000 ND	.000 ND
31										.000 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.000	0.000	0.000	.396	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN:	0.0000	0.0000	0.0000	.0990	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.0067		ANNUAL MAX:		.396			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43559) Methyl Butyl Ketone

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 591-78-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.000 ND	.000 ND
2									.000 ND	.000 ND		
3								.000 ND				
4		.000 ND				.376 SQ	.000 ND					
5	.000 ND			.000 ND	.000 ND							
6			.000 ND									
7											.000 ND	.000 ND
8									.000 ND	.000 ND		
9								.000 ND				
10		.000 ND				.515 SQ	.671 SQ					
11	.000 ND			.000 ND	AS							
12			.000 ND									
13											.000 ND	.000 ND
14									.000 ND	AS		
15								.000 ND				
16		.000 ND				.512 SQ	.334 SQ					
17	.000 ND			.317 SQ	.000 ND							
18			.000 ND									
19											.000 ND	.000 ND
20									.000 ND	.000 ND		
21								AF				
22		.000 ND				.503 SQ	.536 SQ					
23	.000 ND			.000 ND	AS							
24			.000 ND									
25											.000 ND	AS
26									.000 ND	.000 ND		
27								.000 ND				
28		AF				.734	.000 ND					
29	.000 ND			.000 ND	.213 SQ							
30			AF									
31												.000 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.000	0.000	0.000	.317	.213	.734	.671	0.000	0.000	0.000	0.000	0.000
MEAN:	0.0000	0.0000	0.0000	.0634	.0710	.5280	.3082	0.0000	0.0000	0.0000	0.0000	0.0000
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.0872	ANNUAL MAX:	.734					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43559) Methyl Butyl Ketone

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 591-78-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.000 ND									
2											.000 ND	.000 ND
3									.000 ND	AS		
4								.000 ND				
5		AF				.000 ND	.000 ND					
6	.000 ND			.000 ND	.000 ND							
7			.000 ND									
8											AS	AF
9									AS	.000 ND		
10								.000 ND				
11		.000 ND				AS	.000 ND					
12	.000 ND			.390 SQ	.000 ND							
13			.000 ND									
14											.000 ND	AF
15									.000 ND	.000 ND		
16								.000 ND				
17		.000 ND				.000 ND	.000 ND					
18	.000 ND			.000 ND	.000 ND							
19			1.262 5									
20											.000 ND	AS
21									.000 ND	.000 ND		
22								.000 ND				
23		.000 ND				.000 ND	.000 ND					
24	.000 ND			AF	.000 ND							
25			.000 ND									
26											AS	.000 ND
27									AS	AS		
28								.000 ND				
29						.000 ND	.000 ND					
30	.000 ND			.000 ND	.000 ND							
31			.000 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.000	0.000	1.262	.390	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN:	0.0000	0.0000	.2103	.0975	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.0344		ANNUAL MAX:	1.262				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43560) Methyl isobutyl ketone

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 108-10-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.66 SQ	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.25 SQ		
26								.20 SQ				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.43 SQ							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	.66	.43	0.00	0.00	.20	0.00	.25	0.00	0.00
MEAN:	0.000	0.000	0.000	.165	.086	0.000	0.000	.040	0.000	.042	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.026		ANNUAL MAX:		.66			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43560) Methyl isobutyl ketone

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 108-10-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.36 QX			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.57 SQ		
9								.00 ND				
10		.19 SQ				.00 ND	.00 ND					
11	.00 ND			.60 SQ	AS							
12			.18 SQ								.00 ND	.00 ND
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16											.00 ND	.00 ND
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND								.00 ND	AS
25												
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.36	.19	.18	.60	0.00	0.00	0.00	0.00	0.00	.57	0.00	0.00
MEAN:	.072	.048	.045	.120	0.000	0.000	0.000	0.000	0.000	.143	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		.035		ANNUAL MAX:		.60			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43560) Methyl isobutyl ketone

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 108-10-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000	ANNUAL MAX:	0.00						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43801) Chloromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 74-87-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.78	.48		
2								.57				
3		.56				.80	.71					
4	.47			.63	.64							
5			.68									
6											.55	.74
7									.55	.35 LL		
8								.56 CC				
9		.69				.55	.72					
10	.70			.66	.70							
11			.65								.58	.67
12									.59	.32 LL		
13								.29				
14		.68				.60	.64					
15	.64			.66	.65							
16			.64								.55	.64
17									AF	.52		
18								.68				
19		.68				.38	.67					
20	.48			.62	.81							
21			.64								.56	.61
22									.37	.55		
23		.63				.67	.55	.51				
24	.62			AF	.77							
25			.69								.61	.67
26												
27										.66		
28												
29												
30												
31												
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	.70	.69	.69	.66	.81	.80	.72	.68	.78	.66	.61	.74
MEAN:	.582	.648	.660	.643	.714	.600	.658	.522	.573	.480	.570	.666
ANNUAL OBSERVATIONS:		59		ANNUAL MEAN:	.607	ANNUAL MAX:	.81					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43801) Chloromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 74-87-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.47	.59
2									.59	.49		
3								.59				
4		.61				.60	.60					
5	.98 5			.38	.70							
6			.61									
7											.47	.69
8									.44	.57		
9								.57				
10		.83				.67	.80					
11	.74			.37	AS							
12			.57									
13											.54	.65
14									.48	AS		
15								.47				
16		.56				.76	.77					
17	.58			.34	.70							
18			.69									
19											.53	.50
20									.54	.46		
21								AF				
22		.75				.55	.79					
23	.60			1.01 5	AS							
24			.28									
25											.59	AS
26									.51	.46		
27								.52				
28		AF				.55	.76					
29	.59			.80	.57							
30			AF									
31												.50
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.98	.83	.69	1.01	.70	.76	.80	.59	.59	.57	.59	.69
MEAN:	.698	.688	.538	.580	.657	.626	.744	.538	.512	.495	.520	.586
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.599	ANNUAL MAX:	1.01					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43801) Chloromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 74-87-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.69									
2											.58	.73
3									.65	AS		
4								.62				
5		AF				.59	.56					
6	.62			.96 5	.50							
7			.58									
8										AS		AF
9									AS	.58		
10								.53				
11		.63				AS	.53					
12	.67			1.10 5	.60							
13			.55								.54	AF
14									.47	.49		
15								.58				
16		.72				.58	.57					
17	.64			.00 ND	.65							
18			.50								.54	AS
19									.47	.59		
20								.54				
21		.63				.66	.56					
22	.69			AF	.55							
23			.41						AS	AS	AS	.76
24								.46				
25						.55	.65					
26	.63			.47	.58							
27			.64									
28												
29												
30												
31												
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	.69	.72	.69	1.10	.65	.66	.65	.62	.65	.59	.58	.76
MEAN:	.650	.660	.562	.633	.576	.595	.574	.546	.530	.553	.553	.745
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.591		ANNUAL MAX:	1.10				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43802) Dichloromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-09-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.11 CC		
2								.13 CC				
3		.08 SQ				.13	.10 CC					
4	.08 SQ			.09 SQ	.10 SQ							
5			.10 SQ									
6											.08 CC	.11 CC
7								.10 SQ	.13	.13 CC		
8		.11 SQ				.31 5	.12 CC					
9	.12			.27 5	.11 SQ							
10			.08 CC								.09 CC	.11 CC
11									.14 CC	.00 ND		
12		.13				.19 5	.11 CC	.00 ND				
13	.15			.16	.13							
14			.11 SQ								.08 CC	.10 CC
15								.11 SQ	AF	.12		
16		.10 SQ				.00 ND	.10 CC					
17	.00 ND			.14	.08 SQ							
18			.10 SQ								.09 CC	.10 CC
19								.11 CC	.11 CC	.10 CC		
20		.11 SQ				.11 SQ	.09 CC	.10 SQ				
21	.10 SQ			AF	.13 CC						.10 CC	.11 CC
22			.09 SQ									
23												.11 CC
24												
25		.11 SQ										
26	.10 SQ											
27												
28												
29												
30												
31												
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	.15	.13	.11	.27	.13	.31	.12	.13	.14	.13	.10	.11
MEAN:	.090	.106	.096	.165	.110	.148	.104	.088	.095	.095	.088	.106
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.107		ANNUAL MAX:		.31			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43802) Dichloromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-09-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.09 CC	.15 CC
2									.15 CC	.13 CC		
3								.07 CC				
4		.13 CC				.11 CC	.00 ND					
5	.30 5			.09 CC	.12 CC							
6			.11 CC									
7											.08 CC	.12 CC
8									.12 CC	.09 CC		
9								.21 5				
10		.71 5				.00 ND	.14 CC					
11	.28 5			.19	AS							
12			.13									
13											.17 CC	.09 CC
14									.10 CC	AS		
15								.08 CC				
16		.11 CC				.15 CC	.12 CC					
17	.10 CC			.11 CC	.12 CC							
18			.14									
19											.00 ND	.09 SQ
20									.10 CC	.09 CC		
21								AF				
22		.16				.00 ND	.13 CC					
23	.09 CC			.17	AS							
24			.21 5									
25											.27 5	AS
26									.11 CC	.07 CC		
27								.08 CC				
28		AF				.08 CC	.15 CC					
29	.08 CC			.10 CC	.11 CC							
30			AF									
31												.09 SQ
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.30	.71	.21	.19	.12	.15	.15	.21	.15	.13	.27	.15
MEAN:	.170	.278	.148	.132	.117	.068	.108	.110	.116	.095	.122	.108
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.129	ANNUAL MAX:	.71					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43802) Dichloromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-09-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.12 CC									
2											.15 CC	.10 SQ
3									.10 CC	AS		
4								.08 CC				
5		AF				.13 CC	.09 CC					
6	.11 CC			.17 CC	.09 CC							
7			.15									
8										AS		AF
9									AS	.13 CC		
10								.08 CC				
11		.13 CC				AS	.07 CC					
12	.12 CC			.24 5	.07 SQ							
13			.11 CC									
14											.07 SQ	AF
15									.08 CC	.07 CC		
16								.09 CC				
17		.15 CC				.08 SQ	.08 CC					
18	.14 CC			.19 CC	.14 CC							
19			.07 CC									
20											.08 SQ	AS
21									.08 CC	.13 CC		
22								.07 CC				
23		.08 CC				.18	.07 CC					
24	.12 CC			AF	.10 CC							
25			.10 CC									
26										AS		.12
27									AS	AS		
28								.06 SQ				
29						.08 CC	.08 CC					
30	.11 CC			.06 CC	.11 CC							
31			.92 5									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	.14	.15	.92	.24	.14	.18	.09	.09	.10	.13	.15	.12
MEAN:	.120	.120	.245	.165	.102	.118	.078	.076	.087	.110	.100	.110
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.124	ANNUAL MAX:	.92					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43803) Chloroform

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 67-66-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12											.00 ND	.00 ND
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.04 CC	.00 ND
31										.04 CC		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.04	.04	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.007	.008	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.001		ANNUAL MAX:		.04			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43803) Chloroform

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 67-66-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.04 SQ		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.09 5			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS						.00 ND	.00 ND
12			.00 ND									
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND						.00 ND	.00 ND
17			.00 ND									
18				.00 ND								
19									.00 ND	.00 ND		
20											.00 ND	.00 ND
21								AF				
22		.00 ND		.00 ND	AS	.00 ND	.00 ND					
23	.00 ND								.00 ND	.00 ND		
24			.00 ND								.00 ND	AS
25									.00 ND	.00 ND		
26								.00 ND				
27		AF				.00 ND	.00 ND					
28	.00 ND			.00 ND	.00 ND							
29												
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.04	0.00	0.00
MEAN:	.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.010	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		.002		ANNUAL MAX:		.09			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43803) Chloroform

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 67-66-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2												
3									.05 SQ	AS	.05 CC	.00 ND
4								.04 SQ				
5		AF				.00 ND	.04 SQ					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8										AS		AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14												
15									.00 ND	.00 ND		
16								.04 SQ				
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.05 SQ	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.05 SQ		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26									AS	AS	AS	.00 ND
27												
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	.05	0.00	0.00	.04	.04	.05	.05	.05	0.00
MEAN:	0.000	0.000	0.000	.013	0.000	0.000	.008	.016	.017	.017	.017	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.007		ANNUAL MAX:	.05				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43804) Carbon tetrachloride

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 56-23-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQA0: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.09 SQ	.08 SQ		
2								.09 SQ				
3		.09 SQ				.11 SQ	.10 SQ					
4	.08 SQ			.09 SQ	.09 SQ							
5			.10 SQ									
6											.11 SQ	.11 SQ
7								.08 SQ	.09 SQ	.09 SQ		
8												
9		.12 SQ				.09 SQ	.10 SQ					
10	.11 SQ			.09 SQ	.10 SQ							
11			.11 SQ								.11 SQ	.10 SQ
12												
13									.10 SQ	.10 SQ		
14								.10 SQ				
15		.10 SQ				.09 SQ	.09 SQ					
16	.10 SQ			.09 SQ	.11 SQ							
17			.11 SQ									
18											.10 SQ	.10 SQ
19									AF	.10 SQ		
20								.09 SQ				
21		.10 SQ				.00 ND	.10 SQ					
22	.07 SQ			.09 SQ	.10 SQ							
23			.09 SQ									
24											.10 SQ	.10 SQ
25									.10 SQ	.12 SQ		
26								.09 SQ				
27		.10 SQ				.09 SQ	.09 SQ					
28	.09 SQ			AF	.10 SQ							
29			.10 SQ									
30											.11 SQ	.10 SQ
31										.10 SQ		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	.11	.12	.11	.09	.11	.11	.10	.10	.10	.12	.11	.11
MEAN:	.090	.102	.102	.090	.100	.076	.096	.090	.095	.098	.106	.102
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.096		ANNUAL MAX:		.12			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43804) Carbon tetrachloride

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 56-23-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.09 SQ	.10 SQ
2									.09 SQ	.09 SQ		
3								.10 SQ				
4		.09 SQ				.09 SQ	.10 SQ					
5	.18 5			.08 SQ	.11 SQ							
6			.10 SQ									
7											.08 SQ	.10 SQ
8									.09 SQ	.09 SQ		
9								.08 SQ				
10		.11 SQ				.11 SQ	.11 SQ					
11	.09 SQ			.11 SQ	AS							
12			.10 SQ								.09 SQ	.09 SQ
13									.09 SQ	AS		
14								.09 SQ				
15		.10 SQ				.12	.12 SQ					
16	.08 SQ			.11 SQ	.11 SQ							
17			.13 5								.09 SQ	.09 SQ
18									.09 SQ	.09 SQ		
19								AF				
20		.13 5				.09 SQ	.12					
21	.09 SQ			.14 5	AS							
22			.10 SQ								.09 SQ	AS
23									.09 SQ	.09 SQ		
24								.06 5				
25		AF				.08 SQ	.10 SQ					
26	.09 SQ			.11 SQ	.09 SQ							
27			AF									
28												.09 SQ
29												
30												
31												
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.18	.13	.13	.14	.11	.12	.12	.10	.09	.09	.09	.10
MEAN:	.106	.108	.108	.110	.103	.098	.110	.083	.090	.090	.088	.094
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.099	ANNUAL MAX:	.18					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43804) Carbon tetrachloride

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 56-23-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.10 SQ									
2											.09 CC	.09 SQ
3									.10 SQ	AS		
4						.09 SQ	.08 SQ					
5		AF										
6	.10 SQ			.13 5	.08 SQ							
7			.09 SQ									
8										AS		AF
9									AS	.09 SQ		
10								.09 SQ				
11		.10 SQ				AS	.08 SQ					
12	.10 SQ			.14 5	.09 SQ							
13			.08 SQ								.09 SQ	AF
14									.09 SQ	.09 SQ		
15								.10 SQ				
16		.11 SQ				.09 SQ	.09 SQ					
17	.09 SQ			.13 5	.09 SQ							
18			.08 SQ								.09 SQ	AS
19									.09 SQ	.10 CC		
20												
21		.10 SQ				.09 SQ	.10 SQ					
22	.09 SQ			AF	.08 SQ							
23			.07 SQ									
24									AS	AS	AS	.09 SQ
25								.09 SQ				
26						.09 SQ	.09 SQ					
27	.09 SQ			.07 SQ	.08 SQ							
28			.09 SQ									
29												
30	.09 SQ											
31												
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	.10	.11	.10	.14	.09	.09	.10	.10	.10	.10	.09	.09
MEAN:	.094	.103	.085	.118	.084	.090	.088	.094	.093	.093	.090	.090
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.093	ANNUAL MAX:	.14					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43806) Bromoform

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-25-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7									.00 ND	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43806) Bromoform

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-25-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.03 QX			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND								.00 ND	.00 ND
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND								.00 ND	.00 ND
18				.00 ND								
19									.00 ND	.00 ND		
20											.00 ND	.00 ND
21								AF				
22		.00 ND		.00 ND	AS	.00 ND	.00 ND					
23	.00 ND								.00 ND	.00 ND		
24			.00 ND								.00 ND	AS
25									.00 ND	.00 ND		
26								.00 ND				
27		AF				.00 ND	.00 ND					
28	.00 ND			.00 ND	.00 ND							
29			AF									
30												.00 ND
31												
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		.001		ANNUAL MAX:		.03			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43806) Bromoform

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-25-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4						.00 ND	.00 ND	.00 ND				
5		AF										
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8										AS		AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26										AS		.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	0.000		ANNUAL MAX:	0.00				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
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Jul. 3, 2019

(43811) Trichlorofluoromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-69-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.26	.26		
2								.25				
3		.25				.29	.26					
4	.20			.26	.26							
5			.29									
6											.27	.29
7									.26	.28		
8								.23				
9		.30				.23	.27					
10	.28			.26	.29							
11			.27									
12											.00 ND	.28
13									.31	.25		
14								.20				
15		.29				.26	.25					
16	.28			.25	.26							
17			.29									
18											.27	.27
19									AF	.27		
20								.27				
21		.28				.16 5	.24					
22	.18 5			.26	.25							
23			.27									
24											.29	.30
25									.28	.29		
26								.27				
27		.30				.25	.26					
28	.27			AF	.29							
29			.28									
30											.32	.28
31										.28		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	.28	.30	.29	.26	.29	.29	.27	.27	.31	.29	.32	.30
MEAN:	.242	.284	.280	.258	.270	.238	.256	.244	.278	.272	.230	.284
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.261		ANNUAL MAX:		.32			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43811) Trichlorofluoromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-69-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.24	.00 ND
2									.26	.28		
3								.26				
4		.23				.26	.26					
5	.40 5			.27	.29							
6			.29									
7											.21	.28
8									.23	.25		
9								.24				
10		1.35 5				.33	.32					
11	.32			.32	AS							
12			.28								.24	.26
13									.25	AS		
14								.24				
15		.29				.37 5	.31					
16	.24			.32	.30							
17			.34								.26	.26
18									.27	.24		
19								AF				
20		.33				.25	.34					
21	.27			.00 ND	AS							
22			.31								.25	AS
23									.27	.24		
24		AF				.23	.29		.21			
25	.25			.30	.26							
26			AF									
27												
28												
29												
30												
31												.25
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.40	1.35	.34	.32	.30	.37	.34	.26	.27	.28	.26	.28
MEAN:	.296	.550	.305	.242	.283	.288	.304	.238	.256	.253	.240	.210
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.285	ANNUAL MAX:	1.35					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43811) Trichlorofluoromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-69-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.26									
2											.30	.26
3									.29	AS		
4								.28				
5		AF				.25	.23					
6	.26			.36 5	.24							
7			.25									
8										AS		AF
9									AS	.24		
10								.25				
11		.29				AS	.25					
12	.28			.43 5	.26							
13			.23								.24	AF
14									.25	.24		
15								.28				
16		.29				.24	.27					
17	.26			.39 5	.28							
18			.23								.24	AS
19									.24	.32		
20								.26				
21		.26				.24	.30					
22	.26			AF	.24							
23			.26								AS	.28
24								.24		AS		
25												
26									AS			
27								.24				
28						.23	.28					
29	.25			.21	.24							
30			.24									
31												
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	.28	.29	.26	.43	.28	.25	.30	.28	.29	.32	.30	.28
MEAN:	.262	.280	.245	.348	.252	.240	.266	.262	.260	.267	.260	.270
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.266		ANNUAL MAX:	.43				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43812) Chloroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-00-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.20 SQ							
11			.42									
12											.00 ND	.00 ND
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	.42	0.00	.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	.084	0.000	.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.011		ANNUAL MAX:		.42			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43812) Chloroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-00-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND								.00 ND	.00 ND
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND						.00 ND	.00 ND
17			.00 ND									
18				.00 ND								
19									.00 ND	.00 ND		
20											.00 ND	.00 ND
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43812) Chloroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-00-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4						.00 ND	.00 ND	.00 ND				
5		AF										
6	.00 ND			.11 SQ	.00 ND							
7			.00 ND									
8										AS		AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			1.94	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26										AS		.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.20 SQ			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	.20	0.00	0.00	1.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	.040	0.000	0.000	.513	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.047	ANNUAL MAX:	1.94					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43813) 1,1-Dichloroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-34-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7									.00 ND	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43813) 1,1-Dichloroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-34-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND									
13											.00 ND	.00 ND
14									.00 ND	AS		
15								.00 ND				
16		.00 ND				.00 ND	.00 ND					
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43813) 1,1-Dichloroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-34-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8										AS		AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26										AS		.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000	ANNUAL MAX:	0.00						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43814) Methyl chloroform

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 71-55-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12											.00 ND	.00 ND
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43814) Methyl chloroform

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 71-55-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.08 QX			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS						.00 ND	.00 ND
12			.00 ND									
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND						.00 ND	.00 ND
17			.00 ND									
18				.00 ND								
19									.00 ND	.00 ND		
20											.00 ND	.00 ND
21								AF				
22		.00 ND		.00 ND	AS	.00 ND	.00 ND					
23	.00 ND								.00 ND	.00 ND		
24			.00 ND								.00 ND	AS
25												
26									.00 ND	.00 ND		
27		AF				.00 ND	.00 ND		.00 ND			
28	.00 ND			.00 ND	.00 ND							
29												
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		.001		ANNUAL MAX:		.08			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43814) Methyl chloroform

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 71-55-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8										AS		AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26										AS		.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43815) Ethylene dichloride

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 107-06-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.08 SQ	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.08 CC		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.08	.08	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.013	.016	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.003		ANNUAL MAX:		.08			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43815) Ethylene dichloride

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 107-06-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.19 CC			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS						.00 ND	.00 ND
12			.00 ND									
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND						.00 ND	.00 ND
17			.00 ND									
18				.00 ND								
19									.00 ND	.00 ND		
20											.00 ND	.00 ND
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.004	ANNUAL MAX:	.19					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43815) Ethylene dichloride

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 107-06-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.08 SQ	.00 ND							
13			.00 ND									
14											.00 ND	AF
15									.00 ND	.00 ND		
16								.00 ND				
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.002		ANNUAL MAX:	.08				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43817) Tetrachloroethylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 127-18-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.24 SQ		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.16 SQ	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.14 SQ	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.15 SQ							
11			.00 ND								.00 ND	.06 SQ
12												
13									.13 SQ	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.27 5							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.28 5		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.22 SQ									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	.22	.16	.27	0.00	0.00	0.00	.14	.28	0.00	.06
MEAN:	0.000	0.000	.044	.040	.084	0.000	0.000	0.000	.068	.087	0.000	.012
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.028		ANNUAL MAX:		.28			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43817) Tetrachloroethylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 127-18-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.09 SQ		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.14 QX			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.08 SQ			.04 SQ	AS							
12			.11 SQ								.00 ND	.00 ND
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.09 SQ	.00 ND					
16	.10 SQ			.00 ND	.00 ND							
17			.00 ND								.00 ND	.00 ND
18									.00 ND	.33 5		
19								AF				
20		.18 SQ				.00 ND	.36 5					
21	.00 ND			.00 ND	AS						.10 SQ	AS
22			.10 SQ									
23		AF				.00 ND	.00 ND	.10 SQ				
24	.14 SQ			.00 ND	.00 ND							
25			AF									
26												.00 ND
27												
28												
29												
30												
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.14	.18	.11	.04	0.00	.09	.36	.10	0.00	.33	.10	0.00
MEAN:	.092	.045	.053	.008	0.000	.018	.072	.025	0.000	.105	.020	0.000
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.036	ANNUAL MAX:	.36					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43817) Tetrachloroethylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 127-18-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2												
3									.16 SQ	AS	.66 5	.00 ND
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.09 SQ	.00 ND							
7			.00 ND									
8										AS		AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.05 SQ	.00 ND							
13			.08 SQ									
14											.00 ND	AF
15									.09 SQ	.14 SQ		
16								.00 ND				
17		.00 ND				.00 ND	.08 SQ					
18	.00 ND			.09 SQ	.10 SQ							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.13 CC		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.10 SQ									
26											AS	.00 ND
27									AS	AS		
28								.08 SQ				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.12 SQ									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	.12	.09	.10	0.00	.08	.08	.16	.14	.66	0.00
MEAN:	0.000	0.000	.050	.058	.020	0.000	.016	.016	.083	.090	.220	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.041	ANNUAL MAX:	.66					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43818) 1,1,2,2-Tetrachloroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 79-34-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQA0: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43818) 1,1,2,2-Tetrachloroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 79-34-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND									
13											.00 ND	.00 ND
14									.00 ND	AS		
15								.00 ND				
16		.00 ND				.00 ND	.00 ND					
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43818) 1,1,2,2-Tetrachloroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 79-34-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4						.00 ND	.00 ND	.00 ND				
5		AF										
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8										AS		AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26										AS		.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	0.000		ANNUAL MAX:	0.00				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43819) Bromomethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 74-83-9  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7									.00 ND	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			1.36	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	.340	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.023		ANNUAL MAX:		1.36			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43819) Bromomethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 74-83-9  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.09 CC			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.18								.00 ND	.00 ND
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16											.00 ND	.00 ND
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		3.48 5				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.09	3.48	.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	.018	.870	.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		.069		ANNUAL MAX:		3.48			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43819) Bromomethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 74-83-9  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4						.00 ND	.00 ND	.00 ND				
5		AF										
6	.00 ND			1.30	.00 ND							
7			.00 ND									
8										AS		AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	1.13			.12	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16						.00 ND	.00 ND					
17		.00 ND										
18	.00 ND			.00 ND	.00 ND							
19			.00 ND								.00 ND	AS
20												
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26									AS	AS	AS	.00 ND
27								.00 ND				
28												
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.04 SQ									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	1.13	0.00	.04	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	.226	0.000	.007	.355	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.054		ANNUAL MAX:	1.30				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43820) 1,1,2-Trichloroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 79-00-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43820) 1,1,2-Trichloroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 79-00-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS						.00 ND	.00 ND
12			.00 ND									
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16									.00 ND			
17	.00 ND			.00 ND	.00 ND						.00 ND	.00 ND
18			.00 ND									
19									.00 ND	.00 ND		
20											.00 ND	.00 ND
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43820) 1,1,2-Trichloroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 79-00-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4						.00 ND	.00 ND	.00 ND				
5		AF										
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8										AS		AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26										AS		.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	0.000		ANNUAL MAX:	0.00				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43821) 1,1,2-Trichloro-1,2,2-trifluoroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 76-13-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQA0: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.16 SQ	.16 SQ		
2								.18 SQ				
3		.17 SQ				.21 SQ	.20 SQ					
4	.14 SQ			.18 SQ	.18 SQ							
5			.20 SQ									
6											.19 SQ	.20 SQ
7								.17 SQ	.17 SQ			
8								.16 SQ				
9		.24 SQ				.18 SQ	.20 SQ					
10	.21 SQ			.17 SQ	.20 SQ							
11			.21 SQ								.21 SQ	.19 SQ
12												
13								.20 SQ	.17 SQ			
14								.20 SQ				
15		.21 SQ				.18 SQ	.17 SQ					
16	.20 SQ			.18 SQ	.18 SQ							
17			.21 SQ									
18											.18 SQ	.19 SQ
19									AF	.18 SQ		
20								.16 SQ				
21		.19 SQ				.00 ND	.19 SQ					
22	.14 SQ			.18 SQ	.18 SQ							
23			.18 SQ									
24											.20 SQ	.19 SQ
25									.16 SQ	.22 SQ		
26								.16 SQ				
27		.20 SQ				.18 SQ	.16 SQ					
28	.18 SQ			AF	.20 SQ							
29			.19 SQ									
30											.21 SQ	.19 SQ
31										.19 SQ		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	.21	.24	.21	.18	.20	.21	.20	.20	.20	.22	.21	.20
MEAN:	.174	.202	.198	.178	.188	.150	.184	.172	.173	.182	.198	.192
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.183		ANNUAL MAX:		.24			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43821) 1,1,2-Trichloro-1,2,2-trifluoroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 76-13-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.15 SQ	.16 SQ
2									.16 SQ	.17 SQ		
3								.17 SQ				
4		.16 SQ				.16 SQ	.16 SQ					
5	.35 5			.15 SQ	.17 SQ							
6			.00 ND									
7											.15 SQ	.16 SQ
8									.15 SQ	.16 SQ		
9								.14 SQ				
10		.22 SQ				.00 ND	.20 SQ					
11	.17 SQ			.21 SQ	AS							
12			.18 SQ								.15 SQ	.15 SQ
13									.16 SQ	AS		
14								.15 SQ				
15		.20 SQ				.22 SQ	.20 SQ					
16	.15 SQ			.19 SQ	.18 SQ							
17			.21 SQ								.16 SQ	.15 SQ
18									.17 SQ	.16 SQ		
19								AF				
20		.24 SQ				.15 SQ	.23 SQ					
21	.16 SQ			.23 SQ	AS						.15 SQ	AS
22			.18 SQ						.17 SQ	.15 SQ		
23								.11 SQ				
24	.15 SQ	AF		.19 SQ	.17 SQ	.14 SQ	.19 SQ					
25			AF									
26												.16 SQ
27												
28												
29												
30												
31												
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.35	.24	.21	.23	.18	.22	.23	.17	.17	.17	.16	.16
MEAN:	.196	.205	.143	.194	.173	.134	.196	.143	.162	.160	.152	.156
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.168	ANNUAL MAX:	.35					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43821) 1,1,2-Trichloro-1,2,2-trifluoroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 76-13-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.18 SQ									
2											.18 CC	.16 SQ
3									.17 SQ	AS		
4						.14 SQ	.13 SQ	.17 SQ				
5		AF										
6	.16 SQ			.22 SQ	.15 SQ							
7			.14 SQ									
8										AS		AF
9									AS	.15 SQ		
10								.15 SQ				
11		.19 SQ				AS	.14 SQ					
12	.17 SQ			.26 5	.16 SQ							
13			.17 SQ								.14 SQ	AF
14									.15 SQ	.15 SQ		
15								.18 SQ				
16		.19 SQ				.14 SQ	.16 SQ					
17	.15 SQ			.24	.17 SQ							
18			.14 SQ									
19											.14 SQ	AS
20									.16 SQ	.19 SQ		
21								.16 SQ				
22		.17 SQ				.15 SQ	.16 SQ					
23	.16 SQ			AF	.14 SQ							
24			.11 SQ								AS	.19 SQ
25								AS	AS			
26								.15 SQ				
27						.14 SQ	.15 SQ					
28	.16 SQ			.15 SQ	.13 SQ							
29			.14 SQ									
30												
31												
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	.17	.19	.18	.26	.17	.15	.16	.18	.17	.19	.18	.19
MEAN:	.160	.183	.147	.218	.150	.143	.148	.162	.160	.163	.153	.175
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.161	ANNUAL MAX:	.26					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43823) Dichlorodifluoromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-71-8  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.58	.25	5	
2								.58				
3		.56				.67	.60					
4	.45			.58	.53							
5			.62									
6											.60	.65
7									.64	.21	5	
8								.46				
9		.64				.50	.60					
10	.68			.56	.64							
11			.59									
12											.64	.64
13									.67	.23	5	
14								.43				
15		.63				.58	.59					
16	.60			.57	.57							
17			.63									
18											.56	.61
19									AF	.57		
20								.65				
21		.63				.36	5	.58				
22	.44			.55	.55							
23			.58									
24											.61	.63
25									.17	5	.54	
26								.58				
27		.58				.56	.58					
28	.58			AF	.67							
29			.60									
30											.70	.65
31										.57		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	.68	.64	.63	.58	.67	.67	.60	.65	.67	.57	.70	.65
MEAN:	.550	.608	.604	.565	.592	.534	.590	.540	.515	.395	.622	.636
ANNUAL OBSERVATIONS:		59		ANNUAL MEAN:	.561	ANNUAL MAX:	.70					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43823) Dichlorodifluoromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-71-8  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.54	.58
2									.57	.54		
3								.59				
4		.53				.54	.57					
5	.84 5			.42	.58							
6			.63									
7											.48	.59
8									.51	.58		
9								.51				
10		.68				.49	.51					
11	.68			.37 5	AS							
12			.55								.55	.55
13									.53	AS		
14								.51				
15		.57				.70	.59					
16	.55			.32 5	.53							
17			.68								.55	.55
18									.57	.53		
19												
20								AF				
21	.61	.64				.47	.66					
22			.34 5		.86 5	AS						
23											.52	AS
24								.57	.53			
25								.45				
26		AF				.45	.66					
27	.50			.67	.50							
28			AF									
29												
30				AF								
31												.54
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.84	.68	.68	.86	.58	.70	.66	.59	.57	.58	.55	.59
MEAN:	.636	.605	.550	.528	.537	.530	.598	.515	.550	.545	.528	.562
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.558	ANNUAL MAX:	.86					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43823) Dichlorodifluoromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-71-8  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.58									
2											.62	.58
3									.64	AS		
4								.59				
5		AF				.57	.49					
6	.57			.68	.48							
7			.40									
8										AS		AF
9									AS	.54		
10								.52				
11		.62				AS	.52					
12	.63			.77 5	.53							
13			.43								.53	AF
14									.50	.54		
15								.60				
16												
17		.67				.54	.59					
18	.57			.78 5	.58							
19			.48								.52	AS
20												
21									.49	.60		
22								.59				
23		.59				.56	.60					
24	.61			AF	.56							
25			.44								AS	.51
26												
27									AS	AS		
28								.52				
29						.53	.60					
30	.57			.46	.54							
31			.33 5									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	.63	.67	.58	.78	.58	.57	.60	.60	.64	.60	.62	.58
MEAN:	.590	.627	.443	.673	.538	.550	.560	.564	.543	.560	.557	.545
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.558	ANNUAL MAX:	.78					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43824) Trichloroethylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 79-01-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.13 SQ				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.13	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.026	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.002		ANNUAL MAX:		.13			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43824) Trichloroethylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 79-01-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.10 QX			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS						.00 ND	.00 ND
12			.00 ND									
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND						.00 ND	.00 ND
17			.00 ND									
18				.00 ND								
19									.00 ND	.00 ND		
20											.00 ND	.00 ND
21								AF				
22		.00 ND		.00 ND	AS	.00 ND	.00 ND					
23	.00 ND								.00 ND	.00 ND		
24			.00 ND								.00 ND	AS
25									.00 ND	.00 ND		
26								.00 ND				
27		AF				.00 ND	.00 ND					
28	.00 ND			.00 ND	.00 ND							
29												
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		.002		ANNUAL MAX:		.10			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43824) Trichloroethylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 79-01-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2												
3									.00 ND	AS	.00 ND	.00 ND
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND									
14											.00 ND	AF
15									.00 ND	.00 ND		
16								.00 ND				
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000	ANNUAL MAX:	0.00						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43826) 1,1-Dichloroethylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-35-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7									.00 ND	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43826) 1,1-Dichloroethylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-35-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND									
13											.00 ND	.00 ND
14									.00 ND	AS		
15								.00 ND				
16		.00 ND				.00 ND	.00 ND					
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43826) 1,1-Dichloroethylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-35-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND									
14											.00 ND	AF
15									.00 ND	.00 ND		
16								.00 ND				
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000	ANNUAL MAX:	0.00						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43828) Bromodichloromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-27-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43828) Bromodichloromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-27-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.06 QX			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS						.00 ND	.00 ND
12			.00 ND									
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16											.00 ND	.00 ND
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		.001		ANNUAL MAX:		.06			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43828) Bromodichloromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-27-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000		ANNUAL MAX:	0.00					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43829) 1,2-Dichloropropane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 78-87-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND		.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43829) 1,2-Dichloropropane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 78-87-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND									
13											.00 ND	.00 ND
14									.00 ND	AS		
15								.00 ND				
16		.00 ND				.00 ND	.00 ND					
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43829) 1,2-Dichloropropane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 78-87-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43830) trans-1,3-Dichloropropene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 10061-02-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43830) trans-1,3-Dichloropropene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 10061-02-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND									
13											.00 ND	.00 ND
14									.00 ND	AS		
15								.00 ND				
16		.00 ND				.00 ND	.00 ND					
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43830) trans-1,3-Dichloropropene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 10061-02-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14												
15								.00 ND	.00 ND			
16								.00 ND				
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000	ANNUAL MAX:	0.00						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43831) cis-1,3-Dichloropropene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 10061-01-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7									.00 ND	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43831) cis-1,3-Dichloropropene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 10061-01-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND									
13											.00 ND	.00 ND
14									.00 ND	AS		
15								.00 ND				
16		.00 ND				.00 ND	.00 ND					
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43831) cis-1,3-Dichloropropene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 10061-01-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8										AS		AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26										AS		.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	0.000		ANNUAL MAX:	0.00				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43832) Dibromochloromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 124-48-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7									.00 ND	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
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11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43832) Dibromochloromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 124-48-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND								.00 ND	.00 ND
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16									.00 ND			
17	.00 ND			.00 ND	.00 ND							
18			.00 ND								.00 ND	.00 ND
19									.00 ND	.00 ND		
20												
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS				.00 ND	.00 ND		
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43832) Dibromochloromethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 124-48-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000		ANNUAL MAX:	0.00					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43838) trans-1,2-Dichloroethylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 156-60-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43838) trans-1,2-Dichloroethylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 156-60-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND								.00 ND	.00 ND
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16									.00 ND			
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43838) trans-1,2-Dichloroethylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 156-60-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4						.00 ND	.00 ND	.00 ND				
5		AF										
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8										AS		AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26										AS		.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000	ANNUAL MAX:	0.00						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43839) cis-1,2-Dichloroethene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 156-59-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43839) cis-1,2-Dichloroethene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 156-59-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND									
13											.00 ND	.00 ND
14									.00 ND	AS		
15								.00 ND				
16		.00 ND				.00 ND	.00 ND					
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43839) cis-1,2-Dichloroethene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 156-59-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000	ANNUAL MAX:	0.00						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43843) Ethylene dibromide

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 106-93-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43843) Ethylene dibromide

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 106-93-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND									
13											.00 ND	.00 ND
14									.00 ND	AS		
15								.00 ND				
16		.00 ND				.00 ND	.00 ND					
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43843) Ethylene dibromide

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 106-93-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2												
3									.00 ND	AS	.00 ND	.00 ND
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND									
14											.00 ND	AF
15									.00 ND	.00 ND		
16								.00 ND				
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000	ANNUAL MAX:	0.00						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43844) Hexachlorobutadiene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 87-68-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7									.00 ND	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.31 SQ	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.31	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.078	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.005		ANNUAL MAX:		.31			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43844) Hexachlorobutadiene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 87-68-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND								.00 ND	.00 ND
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND						.00 ND	.00 ND
17			.00 ND									
18				.00 ND								
19									.00 ND	.00 ND		
20											.00 ND	.00 ND
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43844) Hexachlorobutadiene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
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STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 87-68-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2												
3									.00 ND	AS	.00 ND	.00 ND
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND									
14											.00 ND	AF
15									.00 ND	.00 ND		
16								.00 ND				
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000	ANNUAL MAX:	0.00						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43852) Dichlorotetrafluoroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 1320-37-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.000 ND	.000 ND		
2								.000 ND				
3		.000 ND				.000 ND	.000 ND					
4	.000 ND			.000 ND	.000 ND							
5			.000 ND									
6											.534	.000 ND
7								.000 ND		.000 ND		
8								.000 ND				
9		.000 ND				.000 ND	.000 ND					
10	.000 ND			.000 ND	.000 ND							
11			.000 ND									
12											.046 SQ	.000 ND
13									.000 ND	.000 ND		
14								.000 ND				
15		.000 ND				.000 ND	.000 ND					
16	.000 ND			.000 ND	.000 ND							
17			.000 ND									
18											.000 ND	.000 ND
19									AF	.000 ND		
20								.000 ND				
21		.000 ND				.000 ND	.000 ND					
22	.000 ND			.000 ND	.000 ND							
23			.000 ND									
24											.000 ND	.000 ND
25									.000 ND	.000 ND		
26								.000 ND				
27		.000 ND				.000 ND	.000 ND					
28	.000 ND			AF	.000 ND							
29			.000 ND									
30											.000 ND	.000 ND
31										.000 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.534	0.000
MEAN:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.1160	0.0000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.0098		ANNUAL MAX:		.534			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43852) Dichlorotetrafluoroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 1320-37-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.000 ND	.000 ND
2									.000 ND	.000 ND		
3								.000 ND				
4		.000 ND				.000 ND	.000 ND					
5	.111 QX			.000 ND	.000 ND							
6			.000 ND									
7											.000 ND	.000 ND
8									.000 ND	.000 ND		
9								.000 ND				
10		.000 ND				.000 ND	.000 ND					
11	.000 ND			.000 ND	AS							
12			.000 ND								.000 ND	.000 ND
13									.000 ND	AS		
14								.000 ND				
15		.000 ND				.000 ND	.000 ND					
16		.000 ND				.000 ND	.000 ND					
17	.000 ND			.000 ND	.000 ND							
18			.000 ND									
19											.000 ND	.000 ND
20									.000 ND	.000 ND		
21								AF				
22		.000 ND				.000 ND	.000 ND					
23	.000 ND			.000 ND	AS							
24			.000 ND									
25											.000 ND	AS
26									.000 ND	.000 ND		
27								.000 ND				
28		AF				.000 ND	.000 ND					
29	.000 ND			.000 ND	.000 ND							
30			AF									
31												.000 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.111	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN:	.0222	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		.0021		ANNUAL MAX:		.111			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43852) Dichlorotetrafluoroethane

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 1320-37-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.000 ND									
2											.000 ND	.000 ND
3									.000 ND	AS		
4								.000 ND				
5		AF				.000 ND	.000 ND					
6	.000 ND			.000 ND	.000 ND							
7			.000 ND									
8											AS	AF
9									AS	.000 ND		
10								.000 ND				
11		.000 ND				AS	.000 ND					
12	.000 ND			.000 ND	.000 ND							
13			.000 ND								.000 ND	AF
14									.000 ND	.000 ND		
15								.000 ND				
16												
17		.000 ND				.000 ND	.000 ND					
18	.000 ND			.000 ND	.000 ND							
19			.000 ND								.000 ND	AS
20												
21									.000 ND	.000 ND		
22								.000 ND				
23		.000 ND				.000 ND	.000 ND					
24	.000 ND			AF	.000 ND							
25			.000 ND									
26											AS	.000 ND
27									AS	AS		
28								.000 ND				
29						.000 ND	.000 ND					
30	.000 ND			.000 ND	.000 ND							
31			.000 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	0.0000		ANNUAL MAX:	0.000				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43860) Vinyl chloride

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-01-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.20 SQ					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.11 CC	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.23 SQ					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.12 CC	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.13 CC		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	.23	0.00	0.00	.13	.12	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	.086	0.000	0.000	.022	.046	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.013		ANNUAL MAX:		.23			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43860) Vinyl chloride

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-01-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.23 QX			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS						.00 ND	.00 ND
12			.00 ND									
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND								.07 SQ	.00 ND
18									.00 ND	.00 ND		
19												
20												
21								AF				
22		.00 ND		.00 ND	AS	.00 ND	.37					
23	.00 ND										.00 ND	AS
24			.00 ND									
25												
26									.00 ND	.00 ND		
27		AF				.00 ND	.00 ND					
28	.00 ND			.00 ND	.00 ND							
29												
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.23	0.00	0.00	0.00	0.00	0.00	.37	0.00	0.00	0.00	.07	0.00
MEAN:	.046	0.000	0.000	0.000	0.000	0.000	.074	0.000	0.000	0.000	.014	0.000
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.012	ANNUAL MAX:	.37					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(43860) Vinyl chloride

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 75-01-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4						.00 ND	.00 ND	.00 ND				
5		AF										
6	.00 ND			.13 SQ	.00 ND							
7			.00 ND									
8										AS		AF
9									AS	.26		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.19 SQ			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND								.00 ND	AS
20												
21									.00 ND	.20 CC		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.17 SQ							
25			.00 ND									
26									AS	AS	AS	.00 ND
27												
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	.19	0.00	0.00	.13	.17	0.00	0.00	0.00	0.00	.26	0.00	0.00
MEAN:	.038	0.000	0.000	.033	.034	0.000	0.000	0.000	0.000	.153	0.000	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.020		ANNUAL MAX:	.26				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45109) m/p Xylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER:  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	2.89		
2								1.78				
3		.85 SQ				1.55	.00 ND					
4	1.15 SQ			.66 SQ	1.77							
5			.92 SQ									
6											.74 SQ	.94 SQ
7									1.69	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	1.06 SQ			2.21	2.10							
11			.00 ND								.38 SQ	.64 SQ
12												
13									.89 SQ	1.62		
14								.82 SQ				
15		1.04				.79 SQ	1.02					
16	2.10			.00 ND	3.92 5							
17			.00 ND								.39 SQ	.60 SQ
18									AF	2.18		
19								1.88				
20		.00 ND				.00 ND	1.04					
21				.89 SQ	.70 SQ							
22	.00 ND											
23			.00 ND								.00 ND	.00 ND
24												
25									1.47	.77 SQ		
26								.83 SQ				
27		1.64				.91 SQ	.00 ND					
28	1.38 SQ			AF	2.06							
29			1.03									
30											.49 SQ	.54 SQ
31										1.28 SQ		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	2.10	1.64	1.03	2.21	3.92	1.55	1.04	1.88	1.69	2.89	.74	.94
MEAN:	1.138	.706	.390	.940	2.110	.650	.412	1.062	1.013	1.457	.400	.544
ANNUAL OBSERVATIONS:		59		ANNUAL MEAN:	.909	ANNUAL MAX:	3.92					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45109) m/p Xylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER:  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.56 SQ	55.45 5
2									3.68	1.88 SQ		
3								1.73 SQ				
4		.91 SQ				.89 SQ	.85 SQ					
5	2.89 QX			.63 SQ	.77 SQ							
6			.89 SQ									
7											.84 SQ	15.14 5
8									2.96	1.09 SQ		
9								3.11				
10		.00 ND				1.28 SQ	2.43 SQ					
11	4.03 5			26.16 5	AS							
12			4.75 5								.57 SQ	6.82 5
13									.75 SQ	AS		
14								1.95				
15		.00 ND				1.37 SQ	2.01 SQ					
16	2.22			1.14 SQ	.66 SQ							
17			1.61 SQ								.00 ND	4.54 5
18									7.82 5	1.84 SQ		
19								AF				
20		7.51 5				1.66 SQ	2.12 SQ					
21	.00 ND			.00 ND	AS							
22			.52 SQ								18.03 5	AS
23									1.37 SQ	.87 SQ		
24		AF				1.13 SQ	1.99 SQ	3.13				
25	.98 SQ			.62 SQ	.86 SQ							
26			AF									
27												2.44
28												
29												
30												
31												
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	4.03	7.51	4.75	26.16	.86	1.66	2.43	3.13	7.82	1.88	18.03	55.45
MEAN:	2.024	2.105	1.943	5.710	.763	1.266	1.880	2.480	3.316	1.420	4.000	16.878
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	3.879	ANNUAL MAX:	55.45					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45109) m/p Xylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER:  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			1.14 SQ									
2											5.68 5	4.88 5
3									1.76 SQ	AS		
4								1.28 SQ				
5		AF				1.92	.98 SQ					
6	1.71 SQ			1.20 SQ	2.16							
7			.98 SQ									
8											AS	AF
9									AS	2.40		
10								.88 SQ				
11		1.70 SQ				AS	.63 SQ					
12	3.19			.78 SQ	1.84 SQ							
13			.46 SQ								.60 SQ	AF
14									1.28 SQ	.67 SQ		
15								1.36 SQ				
16												
17		1.20 SQ				1.04 SQ	.60 SQ					
18	5.78 5			2.16	4.64 5							
19			.77 SQ									
20											1.12 SQ	AS
21									1.36 SQ	4.00 5		
22								.60 SQ				
23		.42 SQ				1.12 SQ	.88 SQ					
24	1.85 SQ			AF	1.52 SQ							
25			1.76 SQ									
26											AS	.64 SQ
27									AS	AS		
28								1.36 SQ				
29						.96 SQ	.96 SQ					
30	.97 SQ			.00 ND	.58 SQ							
31			.80 SQ									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	5.78	1.70	1.76	2.16	4.64	1.92	.98	1.36	1.76	4.00	5.68	4.88
MEAN:	2.700	1.107	.985	1.035	2.148	1.260	.810	1.096	1.467	2.357	2.467	2.760
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	1.595		ANNUAL MAX:	5.78				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45201) Benzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 71-43-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.492 SQ	1.926		
2								2.286				
3		2.520				1.896	.624 SQ					
4	7.080 5			1.344	1.470							
5			1.902									
6											1.464	1.524
7									1.518	.624 SQ		
8								.528 SQ				
9		1.512				.786	1.038					
10	2.610			4.122	1.956							
11			1.056								.966	2.862
12												
13									.858	1.176		
14								.576 SQ				
15		4.302 5				.726	1.050					
16	5.484 5			1.278	2.796							
17			1.416								.942	3.120
18												
19									AF	2.100		
20								2.328				
21		1.356				1.086	1.110					
22	1.074			1.290	1.644							
23			1.074									
24											.618 SQ	1.025
25									1.146	1.746		
26								1.284				
27		24.936 5				1.236	.750					
28	4.752 5			AF	2.532							
29			1.422									
30											1.554	4.415 5
31										2.268		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	7.080	24.936	1.902	4.122	2.796	1.896	1.110	2.328	1.518	2.268	1.554	4.415
MEAN:	4.2000	6.9252	1.3740	2.0085	2.0796	1.1460	.9144	1.4004	1.0035	1.6400	1.1088	2.5892
ANNUAL OBSERVATIONS:		59		ANNUAL MEAN:	2.2132	ANNUAL MAX:	24.936					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45201) Benzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 71-43-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.591 SQ	1.850
2									1.714	1.094		
3								1.292				
4		5.965 5				.755	.420 SQ					
5	6.818 5			.866	.739							
6			2.264									
7											.844	.875
8									1.543	.855		
9								1.555				
10		2.071				2.416	1.138					
11	6.320 5			7.052 5	AS						1.003	1.060
12			4.075									
13									.661 SQ	AS		
14								1.027 CC				
15		1.355				1.303	.963					
16	2.634			1.245	.808							
17			8.997 5								.912	1.198
18									2.035	1.452		
19								AF				
20		6.521 5				.916	1.181					
21	1.435			.953	AS						1.826	AS
22			1.113									
23									.867	1.108		
24		AF						1.507				
25	3.242			1.491	1.703	8.998 5	1.112					
26			AF									
27												1.954
28												
29												
30												
31												
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	6.818	6.521	8.997	7.052	1.703	8.998	1.181	1.555	2.035	1.452	1.826	1.954
MEAN:	4.0898	3.9780	4.1123	2.3214	1.0833	2.8776	.9628	1.3453	1.3640	1.1273	1.0352	1.3874
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	2.1424	ANNUAL MAX:	8.998					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45201) Benzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 71-43-2  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			1.975									
2												
3									1.620	AS	2.880	4.800 5
4								.960				
5		AF				1.080	1.200					
6	1.533			4.860 5	1.260							
7			2.047									
8											AS	AF
9									AS	.960		
10								.600 SQ				
11		2.095				AS	.960					
12	2.683			2.220	2.280							
13			1.606									
14											1.080 CC	AF
15									.900	.840		
16								1.380				
17		2.344				.780	.960					
18	4.579 5			2.880	2.520							
19			1.288									
20											1.260	AS
21									.900	3.540		
22								.600 SQ				
23		1.087				3.660	.720					
24	2.222			AF	3.660							
25			2.100									
26												
27									AS	AS	AS	1.140
28								.900				
29						1.602	.960					
30	1.433			.600 SQ	.354 SQ							
31			1.320									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	4.579	2.344	2.100	4.860	3.660	3.660	1.200	1.380	1.620	3.540	2.880	4.800
MEAN:	2.4900	1.8420	1.7227	2.6400	2.0148	1.7805	.9600	.8880	1.1400	1.7800	1.7400	2.9700
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	1.7756	ANNUAL MAX:	4.860					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45202) Toluene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 108-88-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									2.09	6.62		
2								7.41				
3		2.99				5.45	1.97					
4	7.08			2.31	4.09							
5			2.61									
6											2.91	4.23
7									3.65	1.48		
8								1.43 CC				
9		1.39				1.84	3.12					
10	3.01			8.13	10.91 5							
11			2.20								1.55	4.42
12									2.89	2.66		
13								1.96				
14		4.81				2.66	4.31					
15	5.70			1.68	11.96 5							
16			1.75								1.84	3.28
17									AF	8.57		
18								5.11				
19		2.11				1.18	3.58					
20	1.06			1.93	2.39							
21			1.97								.59 SQ	1.16
22									4.71	3.21		
23		4.06				3.63	1.91		2.67			
24	4.91			AF	7.68							
25			2.55								1.74	3.06
26												
27										5.29		
28												
29												
30												
31												
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	7.08	4.81	2.61	8.13	11.96	5.45	4.31	7.41	4.71	8.57	2.91	4.42
MEAN:	4.352	3.072	2.216	3.513	7.406	2.952	2.978	3.716	3.335	4.638	1.726	3.230
ANNUAL OBSERVATIONS:		59		ANNUAL MEAN:	3.618	ANNUAL MAX:	11.96					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45202) Toluene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 108-88-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											1.26	4.69
2									67.36 5	3.96		
3								2.90				
4		3.83				3.08	1.37					
5	9.00 5			1.60	3.24							
6			2.55									
7											2.24	1.64
8									4.79	3.70		
9								9.52 5				
10		2.09				5.33	3.46					
11	12.99 5			56.38 5	AS							
12			11.34 5								2.44	1.54
13									1.70	AS		
14								2.65				
15		1.47				4.69	3.60					
16												
17	8.37			2.23	2.44							
18			3.69									
19											1.41	2.11
20									8.62	3.90		
21								AF				
22		12.09 5				2.82	2.83					
23	2.12			1.72	AS							
24			1.85									
25											5.51	AS
26									3.33	4.54		
27								5.27				
28		AF				2.58	6.56					
29	5.68			2.48	2.81							
30			AF									
31												3.72
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	12.99	12.09	11.34	56.38	3.24	5.33	6.56	9.52	67.36	4.54	5.51	4.69
MEAN:	7.632	4.870	4.858	12.882	2.830	3.700	3.564	5.085	17.160	4.025	2.572	2.740
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	6.205	ANNUAL MAX:	67.36					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45202) Toluene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 108-88-3  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			4.04									
2												
3									6.37	AS	10.50 5	18.20 5
4								4.37				
5		AF				4.27	2.43					
6	2.07			7.70	3.71							
7			6.76									
8											AS	AF
9									AS	2.45 CC		
10								1.68				
11		2.80				AS	2.24					
12	4.65			3.43	5.39							
13			1.47									
14											2.38	AF
15									3.01	2.03		
16								4.34				
17		2.92				1.96	2.03					
18	7.60			8.40	7.00							
19			2.17									
20											3.08	AS
21									1.96	8.40		
22								1.82				
23		1.18				3.08	2.59					
24	3.42			AF	3.64							
25			7.00									
26											AS	2.38
27									AS	AS		
28								3.71				
29						3.43	2.94					
30	1.90			.98	.91							
31			4.90									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	7.60	2.92	7.00	8.40	7.00	4.27	2.94	4.37	6.37	8.40	10.50	18.20
MEAN:	3.928	2.300	4.390	5.128	4.130	3.185	2.446	3.184	3.780	4.293	5.320	10.290
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	4.077		ANNUAL MAX:	18.20				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45203) Ethylbenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 100-41-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.75 SQ		
2								.46 SQ				
3		.38 SQ				.44 SQ	.00 ND					
4	.36 SQ			.00 ND	.55 SQ							
5			.32 SQ									
6											.22 SQ	.30 SQ
7								.39 SQ	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.41 SQ			.50 SQ	.59 SQ							
11			.00 ND								.00 ND	.25 SQ
12												
13								.00 ND	.39 SQ			
14								.00 ND				
15		.39 SQ				.00 ND	.00 ND					
16	.62 SQ			.00 ND	.94 SQ							
17			.00 ND									
18											.00 ND	.25 SQ
19									AF	.75 SQ		
20								.51 SQ				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.46 SQ	.00 ND		
26								.00 ND				
27		.47 SQ				.00 ND	.00 ND					
28	.58 SQ			AF	.58 SQ							
29			.32 SQ									
30											.20 SQ	.19 SQ
31										.41 SQ		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	.62	.47	.32	.50	.94	.44	0.00	.51	.46	.75	.22	.30
MEAN:	.394	.248	.128	.125	.532	.088	0.000	.194	.213	.383	.084	.198
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.220		ANNUAL MAX:		.94			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45203) Ethylbenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 100-41-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	10.86 5
2									.79 SQ	.52 SQ		
3								.50 SQ				
4		.41 SQ				.29 SQ	.00 ND					
5	.84 QX			.00 ND	.00 ND							
6			.00 ND									
7											.26 SQ	2.38 5
8									.67 SQ	.28 SQ		
9								.77 SQ				
10		.00 ND				.52 SQ	.62 SQ					
11	.99			4.40 5	AS							
12			1.44 5									
13											.00 ND	1.17 5
14									.24 SQ	AS		
15								.55 SQ				
16		.00 ND				.46 SQ	.51 SQ					
17	.61 SQ			.30 SQ	.00 ND							
18			.53 SQ									
19											.00 ND	1.05
20									1.59 5	.51 SQ		
21								AF				
22		1.84 5				.44 SQ	.54 SQ					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											4.90 5	AS
26									.40 SQ	.25 SQ		
27								.81 SQ				
28		AF				.34 SQ	.42 SQ					
29	.36 SQ			.00 ND	.28 SQ							
30			AF									
31												.65 SQ
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.99	1.84	1.44	4.40	.28	.52	.62	.81	1.59	.52	4.90	10.86
MEAN:	.560	.563	.493	.940	.093	.410	.418	.658	.738	.390	1.032	3.222
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.839	ANNUAL MAX:	10.86					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45203) Ethylbenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 100-41-4  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.38 SQ									
2												
3									.46 SQ	AS	1.36 5	1.20 5
4								.38 SQ				
5		AF				.52 SQ	.29 SQ					
6	.48 SQ			.32 SQ	.50 SQ							
7			.31 SQ									
8										AS		AF
9									AS	.56 SQ		
10								.26 SQ				
11		.55 SQ				AS	.24 SQ					
12	.83 SQ			.23 SQ	.40 SQ							
13			.00 ND									
14											.00 ND	AF
15									.38 SQ	.00 ND		
16								.34 SQ				
17		.45 SQ				.27 SQ	.00 ND					
18	1.25 5			.53 SQ	1.04							
19			.00 ND									
20											.34 SQ	AS
21									.37 SQ	1.04		
22								.00 ND				
23		.00 ND				.30 SQ	.27 SQ					
24	.50 SQ			AF	.40 SQ							
25			.46 SQ									
26											AS	.00 ND
27									AS	AS		
28								.38 SQ				
29						.25 SQ	.30 SQ					
30	.32 SQ			.00 ND	.00 ND							
31			.43 SQ									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	1.25	.55	.46	.53	1.04	.52	.30	.38	.46	1.04	1.36	1.20
MEAN:	.676	.333	.263	.270	.468	.335	.220	.272	.403	.533	.567	.600
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.394		ANNUAL MAX:	1.36				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45204) o-Xylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 95-47-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.92 SQ		
2								.65 SQ				
3		.40 SQ				.54 SQ	.00 ND					
4	.35 SQ			.00 ND	.57 SQ							
5			.00 ND									
6											.30 SQ	.32 SQ
7								.00 ND	.51 SQ	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.38 SQ			.80 SQ	.86 SQ							
11			.00 ND								.00 ND	.22 SQ
12												
13									.00 ND	.52 SQ		
14								.00 ND				
15		.37 SQ				.34 SQ	.38 SQ					
16	.63 SQ			.00 ND	1.17							
17			.00 ND									
18											.16 SQ	.21 SQ
19									AF	.88 SQ		
20								.62 SQ				
21		.00 ND				.00 ND	.37 SQ					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND								.00 ND	.00 ND
24												
25									.44 SQ	.00 ND		
26								.00 ND				
27		.55 SQ				.00 ND	.00 ND					
28	.57 SQ			AF	.68 SQ							
29			.37 SQ									
30											.18 SQ	.20 SQ
31										.48 SQ		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	.63	.55	.37	.80	1.17	.54	.38	.65	.51	.92	.30	.32
MEAN:	.386	.264	.074	.200	.656	.176	.150	.254	.238	.467	.128	.190
ANNUAL OBSERVATIONS:		59		ANNUAL MEAN:	.270	ANNUAL MAX:	1.17					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45204) o-Xylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 95-47-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.22 SQ	16.73 5
2									1.21	.71 SQ		
3								.62 SQ				
4		.34 SQ				.33 SQ	.34 SQ					
5	1.00 QX			.00 ND	.26 SQ							
6			.00 ND									
7											.29 SQ	3.80 5
8									.96	.36 SQ		
9								1.03				
10		.00 ND				.49 SQ	.85 SQ					
11	1.36 5			6.62 5	AS							
12			1.64 5								.22 SQ	1.73 5
13												
14									.30 SQ	AS		
15								.59 SQ				
16		.00 ND				.54 SQ	.74 SQ					
17	.72 SQ			.32 SQ	.29 SQ							
18			.61 SQ									
19											.00 ND	1.47 5
20									2.78 5	.64 SQ		
21								AF				
22		2.43 5				.78 SQ	.71 SQ					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											5.20 5	AS
26									.51 SQ	.31 SQ		
27								.90 SQ				
28		AF				.54 SQ	.68 SQ					
29	.37 SQ			.00 ND	.30 SQ							
30			AF									
31												.86 SQ
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	1.36	2.43	1.64	6.62	.30	.78	.85	1.03	2.78	.71	5.20	16.73
MEAN:	.690	.693	.563	1.388	.283	.536	.664	.785	1.152	.505	1.186	4.918
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	1.180	ANNUAL MAX:	16.73					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45204) o-Xylene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 95-47-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.48 SQ									
2											1.76 5	1.28
3									.56 SQ	AS		
4								.41 SQ				
5		AF				.66 SQ	.32 SQ					
6	.67 SQ			.46 SQ	.74 SQ							
7			.34 SQ									
8										AS		AF
9									AS	.68 SQ		
10								.26 SQ				
11		.63 SQ				AS	.22 SQ					
12	1.14			.34 SQ	.58 SQ							
13			.19 SQ									
14											.21 SQ	AF
15									.46 SQ	.24 SQ		
16								.46 SQ				
17		.42 SQ				.36 SQ	.22 SQ					
18	1.91 5			.75 SQ	1.44 5							
19			.39 SQ									
20											.36 SQ	AS
21									.39 SQ	1.20		
22								.21 SQ				
23		.00 ND				.34 SQ	.26 SQ					
24	.71 SQ			AF	.48 SQ							
25			.70 SQ									
26											AS	.00 ND
27									AS	AS		
28								.44 SQ				
29						.31 SQ	.32 SQ					
30	.37 SQ			.00 ND	.22 SQ							
31			.30 SQ									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	1.91	.63	.70	.75	1.44	.66	.32	.46	.56	1.20	1.76	1.28
MEAN:	.960	.350	.400	.388	.692	.418	.268	.356	.470	.707	.777	.640
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.525	ANNUAL MAX:	1.91					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45207) 1,3,5-Trimethylbenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 108-67-8  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12											.00 ND	.00 ND
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.16 SQ		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.16	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.027	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.003		ANNUAL MAX:		.16			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45207) 1,3,5-Trimethylbenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 108-67-8  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.43 SQ
2									.39 SQ	.28 SQ		
3								.17 SQ				
4		.00 ND				.00 ND	.00 ND					
5	.40 QX			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.23 SQ	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.27 SQ					
11	.37 SQ			1.09	AS							
12			.73 SQ									
13										.26 SQ	.00 ND	
14									.00 ND	AS		
15								.00 ND				
16		.00 ND				.00 ND	.26 SQ					
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.77 SQ	.00 ND		
21								AF				
22		1.20 5				.00 ND	.33 SQ					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.29 SQ				
28		AF				.00 ND	.27 SQ					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.40	1.20	.73	1.09	0.00	0.00	.33	.29	.77	.28	.26	.43
MEAN:	.154	.300	.183	.218	0.000	0.000	.226	.115	.278	.070	.052	.086
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.143	ANNUAL MAX:	1.20					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45207) 1,3,5-Trimethylbenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 108-67-8  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.78 CC	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14												
15									.00 ND	.00 ND		
16								.00 ND				
17		.00 ND				.00 ND	.00 ND					
18	.70 SQ			.19 SQ	.41 SQ							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.44 CC		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.19 SQ									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	.70	0.00	.19	.19	.41	0.00	0.00	0.00	0.00	.44	.78	0.00
MEAN:	.140	0.000	.032	.048	.082	0.000	0.000	0.000	0.000	.147	.260	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.056		ANNUAL MAX:	.78				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45208) 1,2,4-Trimethylbenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 95-63-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.96 SQ		
2								.68 SQ				
3		.00 ND				.70 SQ	.00 ND					
4	.00 ND			.00 ND	.40 SQ							
5			.00 ND									
6											.31 SQ	.68 SQ
7								.00 ND	.37 SQ	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.52 SQ			.76 SQ	.52 SQ							
11			.00 ND									
12											.00 ND	.25 SQ
13									.49 SQ	.58 SQ		
14								.36 SQ				
15		.32 SQ				.00 ND	.50 SQ					
16	.73 SQ			.00 ND	.90 SQ							
17			.00 ND									
18											.24 SQ	.18 SQ
19									AF	.68 SQ		
20								.55 SQ				
21		.00 ND				.00 ND	.37 SQ					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.47 SQ	.00 ND		
26								.00 ND				
27		.53 SQ				.00 ND	.00 ND					
28	.37 SQ			AF	.78 SQ							
29			.00 ND									
30											.00 ND	.20 SQ
31										.64 SQ		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	.73	.53	0.00	.76	.90	.70	.50	.68	.49	.96	.31	.68
MEAN:	.324	.170	0.000	.190	.520	.140	.174	.318	.333	.477	.110	.262
ANNUAL OBSERVATIONS:		59		ANNUAL MEAN:	.255	ANNUAL MAX:	.96					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45208) 1,2,4-Trimethylbenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 95-63-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	1.40
2									1.25	1.07 SQ		
3								.70 SQ				
4		.49 SQ				.94 SQ	.49 SQ					
5	1.36 QX			.37 SQ	.23 SQ							
6			.48 SQ									
7											.00 ND	.00 ND
8									1.02 SQ	.35 SQ		
9								.92 SQ				
10		.00 ND				1.20	1.87 5					
11	1.70			4.15 5	AS							
12			4.40 5								.41 SQ	.00 ND
13									.31 SQ	AS		
14								.58 SQ				
15		.00 ND				1.87 5	1.74					
16												
17	.58 SQ			.38 SQ	.36 SQ							
18			.98 SQ									
19											.00 ND	.00 ND
20									3.15 5	.75 SQ		
21								AF				
22		7.48 5				.93 SQ	1.75					
23	.16 SQ			.00 ND	AS							
24			.00 ND									
25											.93 SQ	AS
26									.64 SQ	.36 SQ		
27								1.11				
28		AF				.64 SQ	1.94 5					
29	.19 SQ			.36 SQ	.55 SQ							
30			AF									
31												.27 SQ
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	1.70	7.48	4.40	4.15	.55	1.87	1.94	1.11	3.15	1.07	.93	1.40
MEAN:	.798	1.993	1.465	1.052	.380	1.116	1.558	.828	1.274	.633	.268	.334
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.978	ANNUAL MAX:	7.48					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45208) 1,2,4-Trimethylbenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 95-63-6  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											2.07 5	.87 SQ
3									.85 SQ	AS		
4								.50 SQ				
5		AF				.61 SQ	.00 ND					
6	.00 ND			.99 SQ	.70 SQ							
7			.25 SQ									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.49 SQ				AS	.00 ND					
12	.81 SQ			.23 SQ	.52 SQ							
13			.00 ND								.00 ND	AF
14												
15									.43 SQ	.00 ND		
16								.52 SQ				
17		.41 SQ				.00 ND	.00 ND					
18	2.05 5			1.62	1.44							
19			.51 SQ									
20											.00 ND	AS
21									.00 ND	.99 SQ		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.48 SQ			AF	.00 ND							
25			1.53									
26											AS	.00 ND
27									AS	AS		
28								.53 SQ				
29						.00 ND	.43 SQ					
30	.00 ND			.00 ND	.00 ND							
31			.76 SQ									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	2.05	.49	1.53	1.62	1.44	.61	.43	.53	.85	.99	2.07	.87
MEAN:	.668	.300	.508	.710	.532	.153	.086	.310	.427	.330	.690	.435
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.429		ANNUAL MAX:	2.07				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45213) p-Ethyltoluene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 622-96-8  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.32 SQ		
2								.21 SQ				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.24 SQ
7								.00 ND		.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.59 SQ							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.47 SQ		
20								.39 SQ				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.20 SQ		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	.59	0.00	0.00	.39	0.00	.47	0.00	.24
MEAN:	0.000	0.000	0.000	0.000	.118	0.000	0.000	.120	0.000	.165	0.000	.048
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.041		ANNUAL MAX:		.59			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45213) p-Ethyltoluene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 622-96-8  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.46 SQ
2									.36 SQ	.37 SQ		
3								.24 SQ				
4		.00 ND				.18 SQ	.16 SQ					
5	.44 QX			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8								.27 SQ	.00 ND			
9								.29 SQ				
10		.00 ND				.40 SQ	.40 SQ					
11	.39 SQ			1.48 5	AS						.40 SQ	.00 ND
12			.97 5									
13									.00 ND	AS		
14								.19 SQ				
15		.00 ND				.55 SQ	.31 SQ					
16	.22 SQ			.00 ND	.00 ND							
17			.27 SQ								.00 ND	.00 ND
18									.82 5	.47 SQ		
19								AF				
20						.27 SQ	.44 SQ					
21	.00 ND	1.51 5		.00 ND	AS							
22			.00 ND								.31 SQ	AS
23								.31 SQ				
24		AF				.19 SQ	.40 SQ					
25	.00 ND			.00 ND	.17 SQ							
26			AF									
27												.00 ND
28												
29												
30												
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.44	1.51	.97	1.48	.17	.55	.44	.31	.82	.47	.40	.46
MEAN:	.210	.378	.310	.296	.057	.318	.342	.258	.290	.210	.142	.092
ANNUAL OBSERVATIONS:		54		ANNUAL MEAN:	.245	ANNUAL MAX:	1.51					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45213) p-Ethyltoluene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 622-96-8  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.68 SQ	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14												
15								.00 ND	.00 ND			
16								.00 ND				
17		.00 ND				.00 ND	.00 ND					
18	.63 SQ			.53 SQ	.38 SQ							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.48 CC		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.37 SQ									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	.63	0.00	.37	.53	.38	0.00	0.00	0.00	0.00	.48	.68	0.00
MEAN:	.126	0.000	.062	.133	.076	0.000	0.000	0.000	0.000	.160	.227	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.064	ANNUAL MAX:	.68					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45220) Styrene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 100-42-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7									.00 ND	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45220) Styrene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 100-42-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.33 QX			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.27 SQ			.00 ND	AS							
12			.30 SQ								.00 ND	.00 ND
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16											.00 ND	.00 ND
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.27 SQ				.00 ND	.27 SQ					
23	.00 ND			.00 ND	AS							
24			.00 ND								.00 ND	AS
25												
26									.00 ND	.00 ND		
27		AF						.00 ND				
28						.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.33	.27	.30	0.00	0.00	0.00	.27	0.00	0.00	0.00	0.00	0.00
MEAN:	.120	.068	.075	0.000	0.000	0.000	.054	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		.027		ANNUAL MAX:		.33			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45220) Styrene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 100-42-5  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14												
15									.00 ND	.00 ND		
16								.00 ND				
17		.00 ND				.00 ND	.00 ND					
18	.72 5			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	.144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.015		ANNUAL MAX:	.72				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45801) Chlorobenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 108-90-7  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45801) Chlorobenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 108-90-7  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND									
13											.00 ND	.00 ND
14									.00 ND	AS		
15								.00 ND				
16		.00 ND				.00 ND	.00 ND					
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45801) Chlorobenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 108-90-7  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.17 CC	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.22 SQ		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.22	.17	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.073	.057	0.000
ANNUAL OBSERVATIONS:		48		ANNUAL MEAN:	.008		ANNUAL MAX:	.22				

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45805) 1,2-Dichlorobenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 95-50-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAQ: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7									.00 ND	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45805) 1,2-Dichlorobenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 95-50-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND								.00 ND	.00 ND
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16									.00 ND			
17	.00 ND			.00 ND	.00 ND						.00 ND	.00 ND
18			.00 ND									
19									.00 ND	.00 ND		
20											.00 ND	.00 ND
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45805) 1,2-Dichlorobenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 95-50-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4						.00 ND	.00 ND	.00 ND				
5		AF										
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000	ANNUAL MAX:	0.00						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45806) 1,3-Dichlorobenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 541-73-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7									.00 ND	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45806) 1,3-Dichlorobenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 541-73-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND									
13											.00 ND	.00 ND
14									.00 ND	AS		
15								.00 ND				
16		.00 ND				.00 ND	.00 ND					
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45806) 1,3-Dichlorobenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 541-73-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8										AS		AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26										AS		.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000	ANNUAL MAX:	0.00						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45807) 1,4-Dichlorobenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 106-46-7  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQA0: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7									.00 ND	.00 ND		
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45807) 1,4-Dichlorobenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 106-46-7  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.21 CC			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS						.00 ND	.00 ND
12			.00 ND									
13									.00 ND	AS		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND						.00 ND	.00 ND
17			.00 ND									
18				.00 ND								
19									.00 ND	.00 ND		
20											.00 ND	.00 ND
21								AF				
22		.00 ND		.00 ND	AS	.00 ND	.21 SQ					
23	.00 ND											
24			.00 ND								.00 ND	AS
25												
26									.00 ND	.00 ND		
27		AF				.00 ND	.00 ND					
28	.00 ND			.00 ND	.00 ND							
29												
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.21	0.00	0.00	0.00	0.00	0.00	.21	0.00	0.00	0.00	0.00	0.00
MEAN:	.042	0.000	0.000	0.000	0.000	0.000	.042	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		.008		ANNUAL MAX:		.21			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45807) 1,4-Dichlorobenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 106-46-7  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2												
3									.00 ND	AS	.00 ND	.00 ND
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND									
14											.00 ND	AF
15									.00 ND	.00 ND		
16								.00 ND				
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000	ANNUAL MAX:	0.00						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45810) 1,2,4-Trichlorobenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 120-82-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQA0: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12												
13									.55 SQ	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.00 ND		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.55	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.138	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.009		ANNUAL MAX:		.55			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45810) 1,2,4-Trichlorobenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 120-82-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.00 ND			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.00 ND			.00 ND	AS							
12			.00 ND									
13											.00 ND	.00 ND
14									.00 ND	AS		
15								.00 ND				
16		.00 ND				.00 ND	.00 ND					
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		0.000		ANNUAL MAX:		0.00			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(45810) 1,2,4-Trichlorobenzene

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 120-82-1  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L SUBATM SS CANISTER ENTECH PRECO  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2											.00 ND	.00 ND
3									.00 ND	AS		
4						.00 ND	.00 ND	.00 ND				
5		AF										
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND								.00 ND	AF
14									.00 ND	.00 ND		
15								.00 ND				
16												
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	AM
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	1
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	47		ANNUAL MEAN:	0.000	ANNUAL MAX:	0.00						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (\*\*\*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(46401) Furan, tetrahydro-

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 109-99-9  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2013

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.00 ND	.00 ND		
2								.00 ND				
3		.00 ND				.00 ND	.00 ND					
4	.00 ND			.00 ND	.00 ND							
5			.00 ND									
6											.00 ND	.00 ND
7								.00 ND	.00 ND			
8								.00 ND				
9		.00 ND				.00 ND	.00 ND					
10	.00 ND			.00 ND	.00 ND							
11			.00 ND								.00 ND	.00 ND
12											.00 ND	.00 ND
13									.00 ND	.00 ND		
14								.00 ND				
15		.00 ND				.00 ND	.00 ND					
16	.00 ND			.00 ND	.00 ND							
17			.00 ND									
18											.00 ND	.00 ND
19									AF	.00 ND		
20								.00 ND				
21		.00 ND				.00 ND	.00 ND					
22	.00 ND			.00 ND	.00 ND							
23			.00 ND									
24											.00 ND	.00 ND
25									.00 ND	.00 ND		
26								.00 ND				
27		.00 ND				.00 ND	.00 ND					
28	.00 ND			AF	.00 ND							
29			.00 ND									
30											.00 ND	.00 ND
31										.18 CC		
NO.:	5	5	5	4	5	5	5	5	4	6	5	5
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.18	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.030	0.000	0.000
ANNUAL OBSERVATIONS:	59		ANNUAL MEAN:		.003		ANNUAL MAX:		.18			

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(46401) Furan, tetrahydro-

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 109-99-9  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2014

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.00 ND	.00 ND
2									.00 ND	.00 ND		
3								.00 ND				
4		.00 ND				.00 ND	.00 ND					
5	.27 QX			.00 ND	.00 ND							
6			.00 ND									
7											.00 ND	.00 ND
8									.00 ND	.00 ND		
9								.00 ND				
10		.00 ND				.00 ND	.00 ND					
11	.21 SQ			.00 ND	AS							
12			.00 ND									
13											3.18	.00 ND
14									.00 ND	AS		
15								.00 ND				
16		.00 ND				.00 ND	.00 ND					
17	.00 ND			.00 ND	.00 ND							
18			.00 ND									
19											.00 ND	.00 ND
20									.00 ND	.00 ND		
21								AF				
22		.00 ND				.00 ND	.00 ND					
23	.00 ND			.00 ND	AS							
24			.00 ND									
25											.00 ND	AS
26									.00 ND	.00 ND		
27								.00 ND				
28		AF				.00 ND	.00 ND					
29	.00 ND			.00 ND	.00 ND							
30			AF									
31												.00 ND
NO.:	5	4	4	5	3	5	5	4	5	4	5	5
MAX:	.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.18	0.00
MEAN:	.096	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.636	0.000
ANNUAL OBSERVATIONS:	54		ANNUAL MEAN:		.068		ANNUAL MAX:		3.18			

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 RAW DATA REPORT

Jul. 3, 2019

(46401) Furan, tetrahydro-

SITE ID: 42-045-0109 POC: 2  
 COUNTY: (045) Delaware  
 CITY: (47344) Marcus Hook  
 SITE ADDRESS: MARCUS HOOK ELEMENTARY SCHOOL  
 SITE COMMENTS: SPECIAL STUDY FOR ODOR COMPLAINT  
 MONITOR COMMENTS:

STATE: (42) Pennsylvania  
 AQCR: (045) METROPOLITAN PHILADELPHIA  
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ  
 LAND USE: INDUSTRIAL  
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 109-99-9  
 LATITUDE: 39.818715  
 LONGITUDE: -75.413973  
 UTM ZONE:  
 UTM NORTHING:  
 UTM EASTING:  
 ELEVATION-MSL: 0  
 PROBE HEIGHT:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection  
 MONITOR TYPE: SPM  
 COLLECTION AND ANALYSIS METHOD: (176) 6L Subatm SS Canister Entech Preco  
 PQAO: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: 2015

DURATION: 24 HOUR  
 UNITS: Parts per billion Carbon  
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.00 ND									
2												
3									.00 ND	AS	.00 ND	.00 ND
4								.00 ND				
5		AF				.00 ND	.00 ND					
6	.00 ND			.00 ND	.00 ND							
7			.00 ND									
8											AS	AF
9									AS	.00 ND		
10								.00 ND				
11		.00 ND				AS	.00 ND					
12	.00 ND			.00 ND	.00 ND							
13			.00 ND									
14											.00 ND	AF
15									.00 ND	.00 ND		
16								.00 ND				
17		.00 ND				.00 ND	.00 ND					
18	.00 ND			.00 ND	.00 ND							
19			.00 ND									
20											.00 ND	AS
21									.00 ND	.00 ND		
22								.00 ND				
23		.00 ND				.00 ND	.00 ND					
24	.00 ND			AF	.00 ND							
25			.00 ND									
26											AS	.00 ND
27									AS	AS		
28								.00 ND				
29						.00 ND	.00 ND					
30	.00 ND			.00 ND	.00 ND							
31			.00 ND									
NO.:	5	3	6	4	5	4	5	5	3	3	3	2
MAX:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANNUAL OBSERVATIONS:	48		ANNUAL MEAN:	0.000		ANNUAL MAX:	0.00					

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QUALIFIER CODES:

Qualifier Code	Qualifier Description	Qualifier Type
5	Outlier.	QA
AF	Scheduled but not Collected.	NULL
AM	Miscellaneous Void.	NULL
AS	Poor Quality Assurance Results.	NULL
CC	Clean Canister Residue.	QA
EH	Estimated; Exceeds Upper Range.	QA
LL	Analyte Identified; Reported Value May Be Biased Low.	QA
ND	No Value Detected, Zero Reported.	QA
QX	Does not meet QC criteria.	QA
SQ	Values Between SQL and MDL.	QA

Note: Qualifier codes with regional concurrence are shown in upper case,  
and those without regional concurrence are shown in lower case.